

ANNUAL REPORT OF THE ENGINEERING AND PUBLIC WORKS DEPARTMENT

1967



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TO HIS WORSHIP THE MAYOR AND ALDERMEN
OF THE CITY OF FREDERICTON.

Gentlemen:

I submit herewith this report which is a statement of the work done in the various City Departments under the direct supervision of the City Engineer.

This report covers the period January 1, 1967 to December 31, 1967 and is written for the purpose of maintaining an accurate record on file of the activities and costs of the various departments.

During the year, along with regular maintenance, City crews and contractors constructed the following work:-

Concrete Curb and Gutter	3.70 miles
Concrete Sidewalk	1.82 miles
Grading and Gravelling City Streets	2.81 miles
Ditching	Nil
New Street Construction85 miles
New Pavement 3/4" Dense Mix	1.15 miles
(Diamond Construction Co. (1961) Ltd.)	
Recap (1/2" Hot Mix)	1.31 miles
Sealing City Streets	
(Diamond Construction (1961) Ltd.	
1/4" Hot Mix)	3.62 miles
8" Domestic Sewer	1.46 miles
10" - 60" Surface Sewer	1.96 miles
4" - 6" - 8" - 10" - 12" C. I. Water Pipe	1.37 miles

Contractors under contract with the Public Works Department of the City of Fredericton in 1967 contracted or began construction on the following projects:-

- | | |
|---------------------------------------|--|
| Ashfield Construction Company Limited | - To installing Domestic Sewer and Water on Willingdon Street |
| Everett Farris | - To installing Domestic Sewer, Surface Sewer and Water on a portion of Priestman Street. |
| Scott Wheaton Ltd. | - To installing Domestic Sewer, Surface Sewer and Water on Oxford Street. |
| Scott Wheaton Ltd. | - To installing Domestic Sewer, Surface Sewer and Water on the City portion of Prospect Street (Parkside Development). |
| Fredericton Housing Ltd. | - To completion of the 1966 contract; namely, the construction of a Brick Pump House to house the Pumping Equipment for Pump House on Cameron Court. |

G
Population - 1967 - 1966 Final Census

City of Fredericton	—	22,460
Moncton	—	3,572
Nashwaaksis	—	5,473
Barker's Pond	—	1,777
Total —		<u>33,282</u>

M
Above total exclusive of College Student
(Added 4,000)

F
Figures supplied by H.P.G. from Assessing Off.
(Provincial). ~~1st March 4/67.~~

International Water Supply Company

- To completion of 1966 contract for supplying and installing Pumping Equipment for Pump House, Cameron Court.

Topmar Housing Construction Ltd.

- To constructing Caretaker's Residence at Odell Park.

Topmar Housing Construction Ltd.

- To completion of 1966 contract, namely:- the construction of a Centennial Building at Odell Park (Odell Park Centre).

In addition tenders were received and accepted from the following contractors:

Forbes and Sloat

- Supply and delivery of crushed gravel.

W.R. & W.W.Thomas

- To supplying and delivering winter sand to City Yard.

Elmtree Tree Concrete Limited

- To supplying and delivering ready-mixed concrete.

The current expenditures for the twelve-month period, January 1, 1967 to December 31, 1967 appear as follows:-

	Appropriation	Expenditure	Debit	Credit
Street Lights	\$ 73,010.00	74,017.50	1,007.50	
Public Works	46,260.00	43,225.47		3,034.53
Roads and Streets	322,400.00	358,810.93	36,410.93	
Sanitation (Land Fill & Garbage)	67,313.00	65,502.31		1,810.69
Wilmet Park	4,128.00	5,929.97	1,801.97	
Odell Park	8,791.00	10,926.12	2,135.12	
Carleton Park	3,716.00	3,859.78		143.78
Old Burial Ground	2,272.00	3,406.17	1,134.17	
Street Cleaning	52,092.00	57,620.78	5,528.78	
Loyalist Burial Ground	102.00	82.79		19.21
Clearing Park Areas	<u>1,000.00</u>	<u>3,394.87</u>	<u>2,394.87</u>	<u> </u>
TOTALS =	<u>\$ 581,084.00</u>	<u>626,776.69</u>	<u>50,557.12</u>	<u>4,864.43</u>

	Revenue	Net Expenditure	Credit
Water Pumping Station)		\$ 52,749.40	
Water Ordinary)	\$497,147.32	99,506.09	
Sewerage Domestic)		15,908.64	
Principle & Interest		204,763.24	
Salaries		26,419.04	
TOTALS	<u>\$497,147.32</u>	<u>399,346.41</u>	<u>97,800.91</u>

The City of Fredericton occupies a total of some 23.5 square miles. This area excludes the water area occupied by the Saint John River within the boundaries of the City.

The 1966 preliminary census shows that the City's population was 22,158.

Following in the body of this report is a detailed statement of the work done, comparative expenditures and unit costs under the various departments. The detailed report of any particular department may be found by referring to the index.

Respectfully submitted,

W. L. Barrett

CITY ENGINEER.

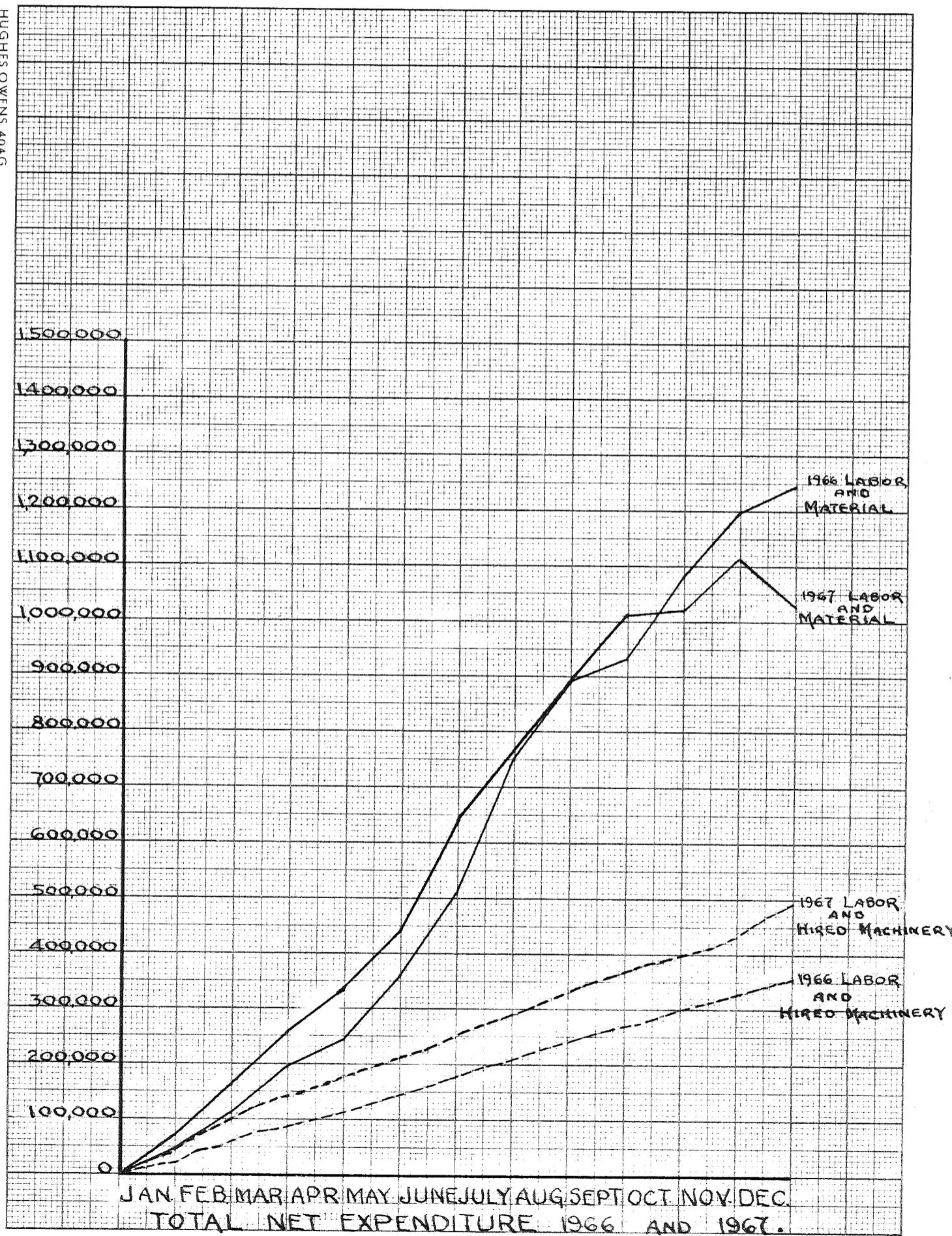
TOTAL YEARLY EXPENDITURE

The total yearly net expenditure under the direct supervision of the City Engineer in 1967 amounted to \$1,027,129.05.

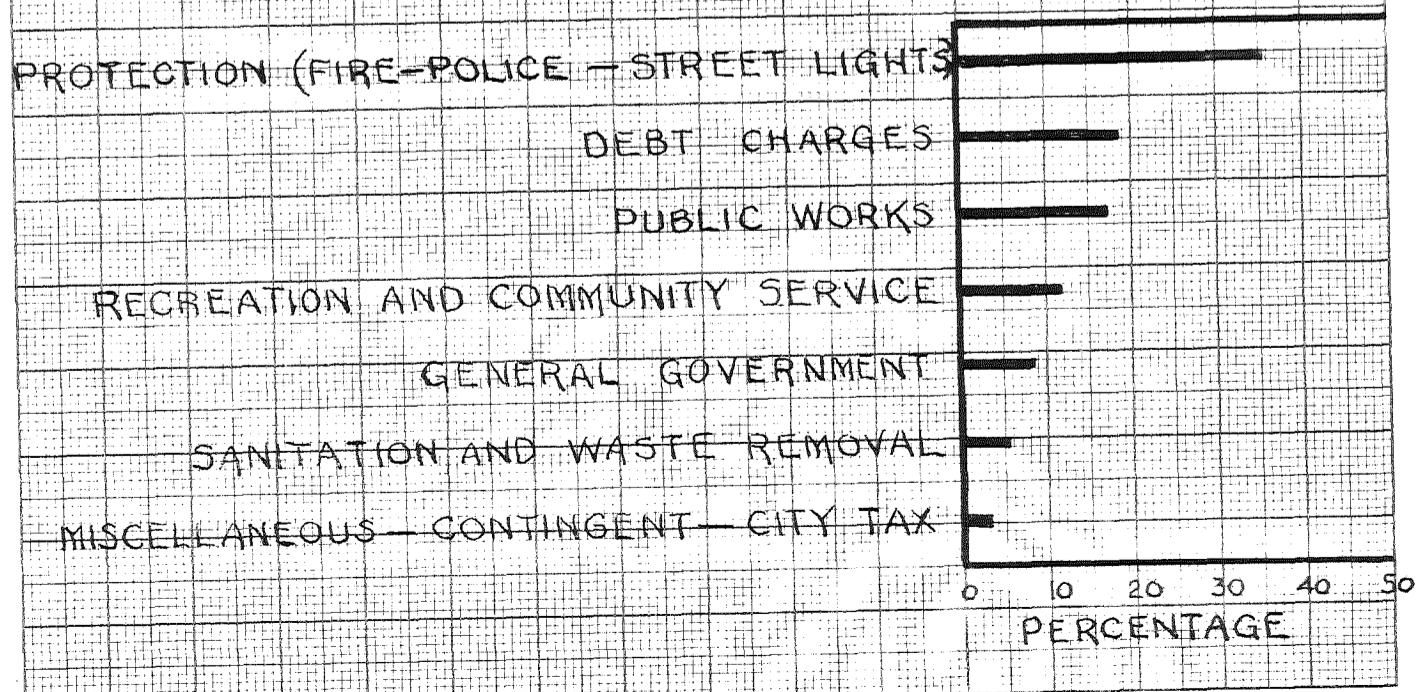
A graphic comparison of expenditures for labor (including hired trucks and machinery) and labor and material for the year 1966 and the year 1967 is shown on the following graph.

The location of new construction completed and commenced in 1967 is shown on maps inserted after page 4 of this report.

Following the maps is a graph showing the distribution of the City of Fredericton Tax Dollar in 1967.



DISTRIBUTION OF THE 1967 CITY DOLLAR



ROADS AND STREETS

In 1967 the appropriation for Roads and Streets was \$322,400.00.

There are in Fredericton some 71.54 miles of Roads and Streets; 12.23 miles being located on the north side of the Saint John River and 59.31 miles on the south side. In addition there are 54.47 miles of concrete and asphalt sidewalks; 9.46 miles on the north side and 45.01 miles on the south side of the Saint John River.

Roads and Streets

	<u>Urban</u>	<u>Rural</u>	<u>Total (Miles)</u>
Paved	53.67	5.31	58.98
Gravel	4.31	6.42	10.73
Chip Seal	<u>1.57</u>	<u>.26</u>	<u>1.83</u>
TOTALS	= <u>59.55</u>	<u>11.99</u>	<u>71.54</u>

Roads and Streets Expenditure - 1967

Gross Expenditure	\$ 440,649.30
Credits	<u>81,838.37</u>
Net Expenditure	\$ 358,810.93
1967 Appropriation	<u>322,400.00</u>
DEBIT	<u>\$ 36,410.93</u>

The above credits amounting to \$81,838.37 are made up as follows:-

Materials or charges for machinery to private parties	\$ 3,168.22
Journal Voucher (Materials sold to other City Departments)	209.75
Journal Voucher (Gas, Oil, Varsol, Anti-freeze, Diesel Fuel)	4,854.19
Forest Hill Cemetery (Digging graves)	65.99
N. B. Telephone Co. (Repairs to Storm Sewer, Regent Street)	88.40
Atlas Construction Co. (Patching trench, Beaverbrook Street)	42.36
Insurance (Damage to Loader)	719.75
Insurance (Damage to Sign)	15.00
Damage Claim	46.65
Journal Voucher (Pensions)	8,691.26
Journal Voucher (Correction on Invoices)	1,483.64
Journal Voucher (Entry error charged to Roads and Streets instead should be Water Pumping Station)	110.66
Journal Voucher (Machinery rental on other accounts)	<u>62,342.50</u>
TOTAL	<u>\$ 81,838.37</u>

The Gross Expenditure is divided as follows:-

Labor - the total of Roads and Streets Payrolls	\$ 143,146.20
Hired Trucks and Machinery	99,306.79
Material - which includes Workmen's Compensation, Charges Unemployment Insurance and all materials including purchase and repairs to City owned equipment	<u>198,196.31</u>
TOTAL	<u>\$ 440,649.30</u>

The Gross Expenditure of \$440,649.30 is divided into the following items. These items give an account of the amount and kind of work done by the Roads and Streets Department during the year.

ITEM #1

Sanding Streets and Walks:-

Storing sand in Winter Storage pile and spreading same on slippery Streets and Walks.

Labor	\$ 14,142.03
Hired Trucks & Machinery..	398.30
City Machinery Charges ...	8,155.00
Materials	<u>16,686.79</u>
Total Expenditure .	<u>\$ 39,382.12</u>

5166 cubic yards of sand was purchased during the winter of 1967. The sand was supplied by W.R. & W.W. Thomas at a price of \$1.20 per cubic yard delivered to the City Yard stock pile.

In 1967, 540 tons of salt was used for ice control. The cost and distribution charges are included under the above heading. In stock as of December 31, 1967, there were 800 bags (40 tons) of salt.

ITEM #2

Snowplowing Sidewalks:- 54.47 miles

54.47 miles of sidewalks were kept plowed in 1967.

Total expenditure under this heading amounted to \$9,884.30 and was made up as follows:-

Labor	\$ 5,707.80
Hired Machinery	594.00
City Machinery Charges ..	<u>3,582.50</u>
TOTAL	<u>\$ 9,884.30</u>

In 1967 the unit cost of plowing and sanding one mile of sidewalk was approximately \$287.00 and was calculated as follows:-

Labor	\$ 8,536.21
Hired Trucks & Machinery..	673.66
City Machinery charges ...	5,213.50
Material (Sand)	<u>1,239.60</u>
TOTAL	<u>\$15,662.97</u> - - - - (1)

The overall cost, including Compensation, Pension Fund and Sick Leave was approximately \$316.00 per mile.

ITEM #3

Snow Control (Streets):-

Blowing, shovelling and hauling snow, plowing or scraping roads, cleaning gutters, thawing catch basins of ice and snow and any other means of snow control.

The total cost of snow control amounted to \$207,427.04 and was made up as follows:-

Labor	\$ 46,472.34
Hired Trucks and Machinery	95,518.04
City Machinery charges (Jeeps, Bulldozers, Graders, etc.)	47,065.00
Materials (Shovels, Pickaxes, etc.)	963.47
Expendable Materials (Grader Blades, Chains, etc.)	4,947.84
Maintenance of Snow Control Equipment (Repairs to Snow Blowers, etc.)	<u>12,460.35</u>
TOTAL EXPENDITURE	<u>\$ 207,427.04</u>

The following table shows comparative labor (including hired trucks and machinery) costs of Snow Control for the years 1965 to 1967 inclusive:-

	<u>1965</u>	<u>1966</u>	<u>1967</u>
Snowplowing Roads and Streets ...	\$ 9,919.44	11,706.60	28,945.09
Blowing, hauling and shovelling snow	36,437.35	27,786.19	106,059.39
Catch Basins	2,653.84	2,628.24	5,472.71
Snow Fences	674.19	607.82	910.81
Plowing Parking Lots	<u>632.13</u>	<u>123.25</u>	<u>602.38</u>
TOTAL	<u>\$ 50,316.95</u>	<u>42,852.10</u>	<u>141,990.38</u>

71.09 miles of Roads and Streets were plowed and maintained during the winter months. (Total mileage 71.54 less Industrial Service Road .45 miles, equals 71.09 miles).

The unit cost per mile of plowing, salting and sanding City Roads and Streets was approximately \$3,390.00 and was calculated as follows:-

Labor (Plowing and Sanding)	\$ 57,785.96
Hired Trucks and Machinery	95,836.68
Machinery Charges (Graders, Jeeps, Bulldozers, etc.)	53,589.00
Materials (Sand and Salt)	15,447.19
Repairs to Snow Blowers and Boilers	12,460.35
Expendable Materials (Grader Blades, Picks, Shovels, etc.)	<u>5,911.31</u>
TOTAL	\$ 241,030.49 - - - (2)

The overall cost including Workmen's Compensation, Pension Fund and Sick Leave was approximately \$3,536.00 per mile.

TOTAL COST OF SNOW CONTROL - Add (1) and (2)\$ 256,693.46

Net Cost of Snow Control (Less City Machinery
Charges, \$ 58,802.50)\$ 197,890.96

Snow Fall in Fredericton for the last five years was as follows:-

January 1, 1963 to December 31, 1963	106.10 inches
January 1, 1964 to December 31, 1964	120.40 inches
January 1, 1965 to December 31, 1965	85.50 inches
January 1, 1966 to December 31, 1966	63.80 inches
January 1, 1967 to December 31, 1967	152.9 185.20 inches

Snow Fences:-

Twelve thousand feet of lath and wire snow fencing was erected under Snow Control to prevent drifting snow from building up on Outlying Roads. One thousand feet of fencing was purchased this year from the New Brunswick Wire Fence Company Ltd.

ITEM #4

Streets:-

General work of maintenance of streets and sidewalks and any other items such as building culverts, curbs and gutters or pavement which are not mentioned under some particular heading.

Total expenditure under Streets Account (Labor, Machinery and Materials) amounted to \$92,918.26 and was made up as follows:-

Item	Labor Hired Trucks & Machinery	City Machinery Charges	Materials	Total
Repairing Machinery	\$ 15,254.74	1,946.00	33,097.89	50,298.63
Maintaining Driveways	663.32	235.50	90.41	989.23
Dust Control	698.11	28.00	3,094.94	3,821.05
Ditching	150.84	8.00	-----	158.84
Culverts	75.45	79.00	277.19	431.64
Erection of Guard Posts	251.30	42.00	Cr. 41.89*	251.41
Repairing Streets (Curbs and Walks)	8,866.27	2,914.50	4,806.24	16,587.01
Rip-Rapping	533.01	12.00	14.00	559.01
Cutting Grass	2,308.69	830.00	605.30	3,743.99
Weather Accounts	16,077.45	-----	-----	16,077.45
TOTALS =	\$ 44,879.18	6,095.00	41,944.08	92,918.26

* Credit (Guard Posts charged to Roads and Streets and sold to Capital Account Fisher Park and Recreation.

In 1967, 22,574 gallons of oil was used for dust control.

ITEM #5

Surface Sewers:-

The Surface Sewers in the City were flushed where necessary and all Catch Basins were cleaned and repaired during the year and repairs were made to any leaks that occurred or extensions required for the sewer outfalls, amounting to \$12,182.94 made up as follows:-

Labor	\$ 8,664.87
Hired Truck and Machinery.	200.00
City Machinery Charges ...	2,423.00
Materials	<u>895.07</u>
TOTAL	<u>\$12,182.94</u>

There are in Fredericton, 48.81 miles of Surface Sewer, consisting of 6.30 miles on the north side of the Saint John River and 42.51 miles on the south side of the Saint John River.

ITEM #6

Yard:-

Caretaker at City Yard, repair work in City
Yard, Heat, Power, etc.

Labor	\$ 4,614.64
Hired Trucks and Machinery	54.72
City Machinery charges	63.50
Light, Power and Telephone	955.93
Materials (Tools, etc.)	<u>4,608.18</u>
TOTAL	<u>\$ 10,306.97</u>

ITEM #7

Grading and Gravelling:-

Grading and application of Gravel on City
Roads and Streets.

Labor	\$ 560.87
Hired Trucks and Machinery	371.54
City Machinery charges	747.00
Materials (Gravel)	<u>919.67</u>
TOTAL	<u>\$ 2,599.08</u>

440.20 tons of Class "C" crushed gravel and
161.05 tons of Class "A" crushed gravel was used in
the maintenance and repairs to Gravel Roads under
Roads and Streets.

The gravel was purchased from Forbes and
Sloat Limited at a contract price of \$1.75 per ton
for Class "A" crushed gravel and \$1.55 per ton for
Class "C" crushed gravel.

A stock pile is placed at the site of the
Old City Dump on Wilsey Road for spring frost boils
and excavation repairs.

ITEM #8

Lincoln Road:-

All work done on the Lincoln Road, other
than work done by the Motor Graders,

The current expenditure incurred on this
Road was as follows:-

Labor	\$ 103.83
Hired Trucks & Machinery	45.00
City Machinery Charges	81.00
TOTAL	<u>\$ 229.83</u>

ITEM #9

Wilsey Road:-

All work done on the Wilsey Road other than work done by the Motor Graders.

Labor	\$ 240.52
City Machinery charges ...	232.00
Hired Trucks & Machinery..	75.50
*Materials (Gravel, Concrete Pipe)49
TOTAL	<u>\$ 548.51</u>

* An entrance to the Artificial Breeding Centre from Wilsey Road was constructed in 1967. This expenditure amounting to \$342.88 was paid for by the N. B. Public Works department.

ITEM #10

Doak Road:-

All work done on the Doak Road, other than work done by the Motor Graders.

The expenditure incurred on this Road was for clearing Right of Way, installing culverts where necessary and graveling a section of the Road, and is made up as follows:-

Labor	\$ 313.17
Hired Trucks & Machinery..	49.50
City Machinery charges ...	241.00
Materials (Gravel, pipe, cement)	<u>307.32</u>
TOTAL	<u>\$ 910.99</u>

ITEMS #11 and #12

New Maryland Road and Rural Roads:-

No expenditures were made on these Roads in 1967.

ITEM #13

Resurfacing Asphaltic Concrete Repairs
and Paving Driveway Entrances:-

Patching and repairing pavement, applying seal coat, light tar or asphalt to pavement and applying asphalt to driveways, (labor cost) - \$ 16,014.89.

Labor	\$ 16,014.89
Hired Truck & Machinery.	1,271.50
City Machinery charges .	5,923.50
Materials	<u>44,426.76</u>
TOTAL	<u>\$ 67,636.65</u>

The Diamond Construction (1961) Limited was awarded a contract in 1967 to lay pavement, surface seal and recap a number of City Streets.

Included in the above Material Charge of \$44,426.76 was an expenditure of \$24,420.36 (1919.78 tons of 1/4" Plant Mix @ \$12.00 per ton and 2766 Gallons of RS-1 @ \$ 0.50 per gallon) for resurfacing the following City Streets by Diamond Construction (1961) Limited:-

<u>Street</u>	<u>Location</u>	<u>Lineal Feet</u>
Carleton	- Campbell St. to Brunswick Street	1,230
Queen	- Church Street to Smythe Street	4,800
St. John	- Churchill Row to MacLeod Avenue	980
York	- Campbell Street to Brunswick Street	1,150
Charlotte	- Odell Avenue to Smythe Street	530
Hayes	- Water Street to Union Street	360
St. Marys	- Union Street to Water Street	350
Water	- St. Marys Street to Bridge Street	300
	TOTAL	<u>9,900</u>

9,900 lineal feet = 1.87 miles

In 1958 a large Aggregate Dryer and Aggregate Conveyor Belt was purchased to facilitate the mixing of patching material in the City Yard. This equipment has resulted in an improvement to the quality of the patching material produced at the Yard and has also accelerated the operation.

When local contractors have plants set up, patching material can be obtained more economically. Patching material, when available, was obtained from Diamond Construction Company (1961) Limited and W. J. Gorman.

The total expenditure for Pavement Repairs and Driveways for 1967, under the above heading (excluding Surface Seal) including Workmen's Compensation, Pension Fund, Holidays, Sick Leave and Depreciation on the plant, amounted to \$47,048.17 and was computed as follows:-

ASPHALT

Stock from 1966:-

1350 Gallons RC ₃	\$ 540.00
1080 Gallons RS ₂	<u>540.00</u>
	\$ 1,080.00

Plus Stock Purchased in 1967

3600 Gallons RC ₃	\$ 1,392.21
2925 Gallons RS ₂	<u>1,103.05</u>
	<u>2,495.26</u>
Total Stock	\$ 3,575.26

Less Stock for use in 1968

720 Gallons RC ₃	\$ 273.60
400 Gallons RS ₂	<u>152.00</u>
	\$ 425.60
Less - Credit on Return of Drums	<u>799.00</u>
<u>Net Cost of Liquid Asphalt used</u> ..	<u>\$ 2,350.60</u>

Cost of Hot Mix Asphalt in patching streets and driveways, obtained from Diamond Construction Company (1961) Limited and W. J. Gorman

\$ 14,980.83

Total Hot Mix Asphalt Cost	\$ 14,980.83
Liquid Asphalt	2,350.60
Kerosine (1266 Gallons)	402.59
Crusher Rock (174.75 tons)	611.62
Crusher Dust (868.05 tons)	1,953.13
Depreciation on Conveyor, Hopper and Dryer	652.67
Maritime Electric Company	113.10
Repairs to Plant	72.47
Propane Gas	12.00
City Labor (City employees, including Pension Fund, Workmen's Compensation and Holiday Account).	18,897.57
Hired Trucks and Machinery	1,271.50
City Machinery	5,923.50
Miscellaneous (Pickaxes, Shovels, Water Cans, Valves, etc.)	<u>204.03</u>
<u>Total Gross Expenditure</u> ...	<u>\$ 47,445.61</u>

LESS CREDITS

Government of Canada (Patching, Research Station)	\$ 279.00
Atlas Construction Co. (Patching Beaverbrook Street)	42.36
Journal Voucher (Sale of Crushed Rock and Dust to other City Departments)	<u>76.08</u>
<u>TOTAL NET COST</u>	<u>\$ 47,048.17</u>

Materials in Stock, December 31, 1967:-

720 Gallons RC ₃ @ 38¢ per Gallon\$	273.60
400 Gallons RS ₂ @ 38¢ per Gallon	152.00
50 tons 1/2" Chips @ \$ 3.50 per ton	175.00
81.25 tons 0-1/4" Rock Dust @ \$2.25 per ton	<u>182.81</u>
TOTAL	<u>\$ 783.41</u>

ITEM #14

City Road Graders:-

Operators' Wages	\$ 978.67
Machinery Charges	<u>2,891.00</u>
Total for Labor and Machinery	<u>\$3,869.67</u>

The repair costs for City Graders will be found on page 17 of this report under the heading "Roads and Streets."

ITEM #15

Parking Lots:-

Under this heading, one Parking Area was extended, located on Queen Street, west of the Canadian Legion Building and at the rear of the Fredericton Pumping Station.

The expenditure for the extended Parking Area was as follows:-

Labor	\$ 366.65
City Machinery	<u>938.50</u>
TOTAL	<u>\$ 1,305.15</u>

ITEM #16

Sign Department:-

Purchasing, repairing and installing street signs on City Streets.

The total expenditure under this heading amounted to \$2,230.35, made up as follows:-

Labor	\$ 815.43
Materials	<u>1,414.92</u>
TOTAL	<u>\$ 2,230.35</u>

Other Expenditures:-

In addition to the above expenditure included under "Roads and Street", there is an expenditure of \$17,664.55 which does not show in any of the above accounts and is made up as follows:-

Workmen's Compensation	\$ 6,250.00
Mobile Radio (Telephone Company)	652.89
Telephone Company (Telephones)	55.79
Unemployment Insurance Commission	2,069.96
Receiver General (Canada Pension)	5,337.86
Province of N. B. (Registration of Vehicles & Licenses)	84.50
Car Allowance	120.00
Horsnell's Ltd.	53.89
J. S. Neill & Sons Ltd.	72.24
Sansom Equipment	60.42
Auto Machinery and General Supply Co. Ltd.	32.78
Elm City Chrysler	6.00
Battery and Electric	6.28
Parlee's Woodworking	1.50
N. B. Department of Labor	7.50
City Tire Service	56.18
Chippin's Clothing	159.10
Maritime Accessories	5.12
Brunswick Oxygen and Supply	25.00
Journal Voucher (To cancel labor and pension - Hillcrest Home)	2.15
City of Fredericton (City pension)	10,416.91
Journal Voucher (Portion of L. P. McNeill's salary)....	<u>1,000.00</u>
TOTAL	\$ 26,476.07

Less Credits:-

E. R. Buckingham (Sale of scrap iron and batteries)	\$ 103.09
Raymond Spencer (sale of Hard Hat)	5.00
To account for old cheques not cashed..	11.36
Journal Voucher (re pension contribution)	<u>8,691.26</u>
NET EXPENDITURE	<u>\$ 17,664.55</u>

TABLE COMPARING YEARLY COSTS OF LABOR AND HIRED MACHINERY ON ROADS AND STREETS ITEMS

ITEM	1964	1965	1966	1967
1. Sanding Streets	\$ 14,208.56	13,704.55	9,671.90	14,540.33
2. Snowplowing Sidewalks	3,630.44	2,507.92	2,698.66	6,301.80
3. Snow Control	56,329.93	50,316.95	42,852.10	141,990.38
4. Streets Account	39,880.00	34,854.56	36,796.51	44,879.18
5. Surface Sewer	5,748.64	5,303.24	7,123.47	8,864.87
6. Yard	3,653.21	4,270.00	4,215.80	4,669.36
7. Grading and Gravelling	-----	1,336.70	437.18	932.41
8. Lincoln Road	159.40	-----	1,250.51	148.83
9. Wilsey Road	1,380.57	130.40	709.41	316.02
10. Doak Road	201.75	2,048.55	1,250.76	362.67
11. Maryland Road	-----	660.62	-----	-----
12. Rural Roads	-----	-----	165.40	-----
13. Asphalt Repairs	8,418.73	14,457.25	12,850.74	17,286.39
14. Road Graders	933.98	1,002.73	1,132.76	978.67
15. Parking Lots	96.41	-----	1,266.71	366.65
16. Paint Department	1,050.17	983.25	1,245.29	815.43
17. Clearing along Right of Way	805.46	789.62	63.94	-----
18. (Chip Seal (Surface Seal	-----	1,415.16	745.74	-----
TOTALS =	\$ 136,497.25	133,781.50	124,804.66	242,452.99

The following items of machinery were purchased this year and charged to Roads and Streets:-

- 1 - 1967 Dodge D500, 3 ton,
8 cylinder, 175" Wheel Base
Serial No. D5L2988845\$ 4,950.00
Less trade in on 1961
 International 3 Ton 1,475.00
 \$ 3,475.00
 Plus 6% S.S. & E. Tax 208.50 \$ 3,683.50
- 1 - 1967 Dodge $\frac{1}{2}$ Ton, 6 cylinder
128" Wheel Base, Serial No.
D1B2988397\$ 3,235.00
Less trade in, 1959
 International 1 Ton 1,100.00
 \$ 2,135.00
 Plus 6% S.S. & E. Tax 128.10 2,263.10
- 1 - Case Model W9B, Diesel Front
End Loader with Cab, Serial
No. 9805576\$ 20,844.00
Less trade in on 1958
 Pettibone Loader 9,844.00
 \$ 11,000.00
 Plus 6% S.S. & E. Tax ... 660.00 11,660.00

1 - Kaiser Jeep, 1967, Model
 C.J.5 Meyers - 1/2 Cab
 Serial No. 8305-C14-230938
 Motor No. 4J460306 \$ 3,195.00
Less trade in on 1963 Jeep,
 Type CJ5, Serial No.
 57548-142569 595.00
\$ 2,600.00
 Plus 6% S.S. & E. Tax 156.00 \$ 2,756.00
TOTAL \$ 20,362.60
=====

The following is a list of vehicles and
 machinery used in the Roads and Streets Department,
 together with the repair costs for 1966 and 1967,
 including tires and tubes.

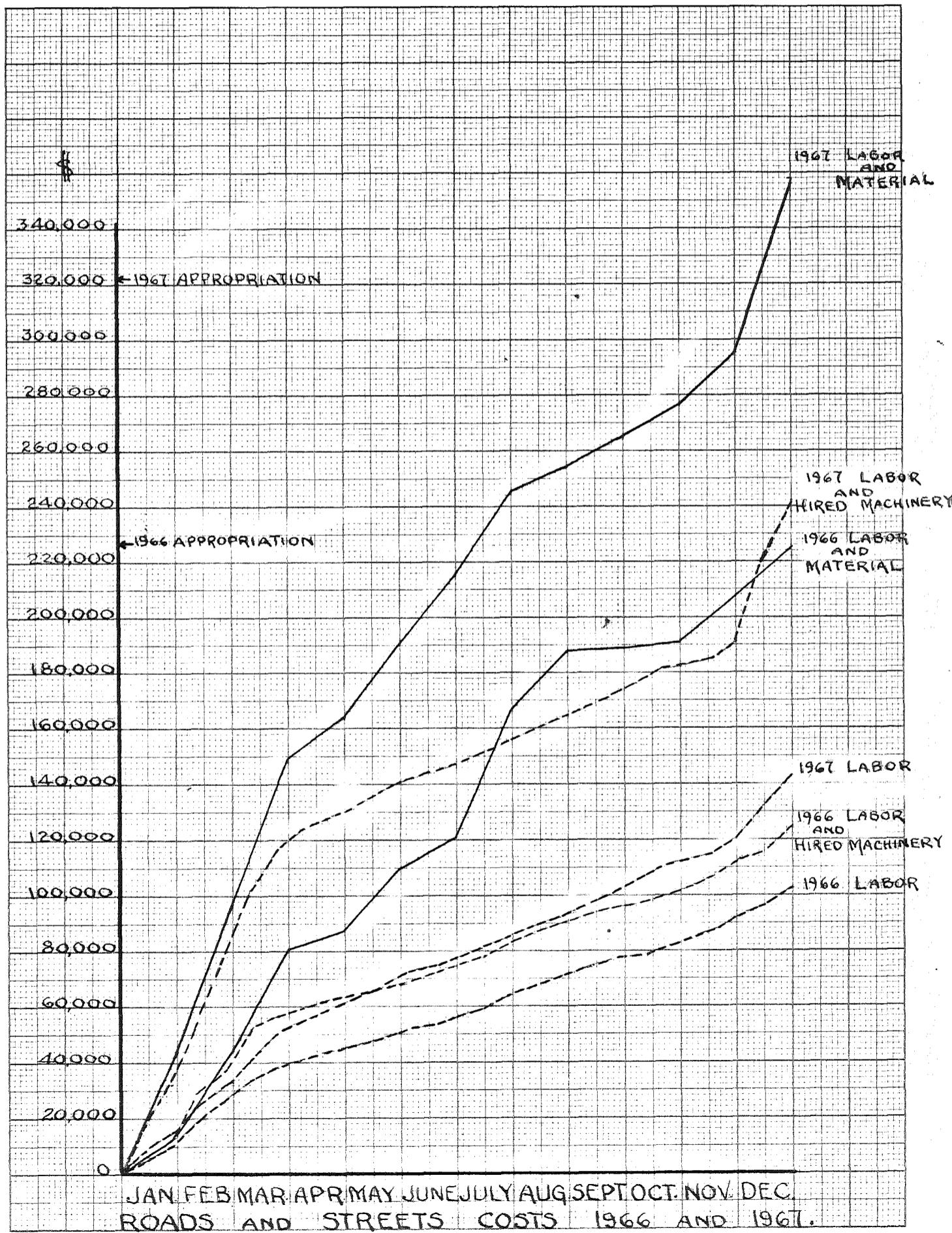
<u>Name of Vehicle</u>	<u>Year Purchased</u>	<u>Repairs 1966</u>	<u>Repairs 1967</u>
Austin Western Grader (300 Pacer)	1962	\$ 1,615.12	1,371.55
Allis Chalmers Grader (Traded in 1966)	1955	488.78	-----
Galion Grader	1961	1,892.82	2,448.40
Galion Grader Model 118	1966	62.03	2,014.10
Caterpillar D-6 Bulldozer	1953	2,538.62	6,337.68
Case 420 Crawler Tractor	1961	1,550.29	960.21
Case 420 Crawler Tractor	1962	1,973.51	478.39
TD5 International Crawler Tractor	1963	1,535.02	1,878.54
Case 750 D. Bulldozer	1965	798.74	4,025.19
Hy Hoe 3/8 yard Backhoe	1964	1,363.85	886.56
Unit 3/4 yard Backhoe	1957	4,005.39	3,907.86
Pettibone Mulliken Loader (Traded in 1967)	1958	1,780.22	421.50
Case W9 Front End Loader	1967	-----	421.30
Hough 50 Model Loader	1963	620.23	2,862.68
Airpic Compressor	1953	230.73	45.65
Ingersol Rand Compressor	1957	56.87	59.57
Copco Compressor	1964	22.15	21.05
Tarvia Roller Model #157	1955	502.98	628.38
Willys Jeep #11 (Traded in 1966)	1961	100.81	-----
Willys Jeep #11	1966	17.90	183.68
Willys Jeep #12 (Traded in 1967)	1962	409.85	84.88
Willys Jeep #12	1967	-----	27.87
Willys Jeep #17	1965	114.30	134.27
Willys Jeep #40	1962	209.36	663.31
Dodge 3 ton	1963	572.09	662.21
G.M.C. 3 ton	1962	204.12	722.75
International 3 ton (Traded in 1967)	1961	770.01	153.79
Dodge 3 ton D500	1967		500.32

<u>Name of Vehicle</u>	<u>Year Purchased</u>		<u>Repairs 1966</u>	<u>Repairs 1967</u>
Chevrolet 3 ton	1960	\$	236.81	409.03
Chevrolet 3 ton	1965		135.30	310.54
International ½ ton (Traded in 1966)	1964		75.48	----
Chevrolet ½ ton	1966		42.66	340.41
International 1 ton (Traded in 1967)	1959		306.50	61.89
Chevrolet Panel	1963		210.65	648.99
Chevrolet ½ ton	1965		79.53	305.55
Dodge ½ ton	1967		-----	16.94
Ford Tudor 300 (Traded in 1966)	1963		13.20	
Ford	1966		90.84	168.48
Expendable Accessories (Grader Blades, Bolts, Nuts, Bulldozer Blades and Corners, Tools, etc.)			<u>5,641.73</u>	<u>6,342.95</u>
TOTAL COST		\$	<u>30,268.39</u>	<u>40,506.47</u>

The following equipment is used on Snow Control and the repair and maintenance cost for this equipment is shown as follows:-

<u>Name of Vehicle</u>	<u>Year Purchased</u>		<u>Repairs 1966</u>	<u>Repairs 1967</u>
Sicard Snow Blower #30	1949	\$	4,384.27	620.76
Sicard Snow Blower #39 1952 Model	1961		728.62	6,284.80
Sicard Snow Blower #47	1963		122.87	3,761.23
Ford Sand Spreader	1960		<u>741.38</u>	<u>1,570.61</u>
TOTAL COST		\$	<u>5,977.14</u>	<u>12,237.40</u>

HUGHES OWENS 404G



CAPITAL ACCOUNT CURB AND GUTTER

The net expenditure under this heading amounted to \$52,740.06.

For the above expenditure of \$52,740.06, concrete curb and gutter was constructed at the following locations:-

<u>Location</u>	<u>Lineal Feet</u>
Massey Street, Lorne St. to Bessborough St. (both sides)	1,663
Lorne Street, Bessborough St. to Massey St. (both sides)	561
Liverpool St., Southampton Drive to Vanier Highway (both sides)	1,406
Canterbury Drive, Cambridge Crescent to existing curb (both sides)	1,193
Waggoner's Lane, Rookwood Avenue to west limits (both sides)	2,750
York Street, Mansfield St. to Lisgar Street (both sides)	1,439
Irvine St., existing east to existing west (both sides)	2,819
Regent St., Priestman St. to Trans Canada Highway (east side)	1,126
Norfolk Drive (both sides)	2,819
Bristol Street (both sides)	741
Lynhaven St., Smythe St. towards Studholm (north side)	489
Oxford St., Mansfield St. ^{Smythe Court} to Lisgar St. ^{EGLINTON ST.} (both sides)	1,031
Eglinton St., Oxford St. to Studholm St. (north side)	370
Studholm Street (east side)	355
TOTAL	=
	<u>18,762</u>

All the above listed Curb and Gutter was constructed by City crews.

All the concrete poured was purchased ready-mixed from the firm of Elmtree Concrete Limited at a price of \$14.42 per cubic yard.

The unit cost of one lineal foot of Curb and Gutter, found by dividing the total length laid, which equals 18,762 lineal feet, into the total cost of \$52,740.06 is \$2.81 per lineal foot.

The topsoiling of Boulevards is included in the above cost.

CAPITAL ACCOUNT PAVING

As previously stated in this report, the Diamond Construction Co. (1961) Limited was awarded a contract to lay pavement, resurface and recap a number of City Streets. The material cost amounted to \$68,045.29 and was made up as follows:-

Diamond Construction (1961) Limited

3/4" Dense Mix, 4,098.95 tons @ \$7.90 per ton ...	\$32,381.71
656.50 tons 1/2" Dense Mix @ \$9.75 per ton	6,400.88
1919.77 tons 1/4" Plant Mix @ \$12.00 per ton	23,037.24
2767 Gallons RS-1 Tack Coat @ 50¢ per Gallon	<u>1,383.50</u>
	63,203.33

Forbes and Sloat Limited

126.8 tons Class "A" Gravel @ \$1.75 per ton	221.90
--	--------

W. J. Gorman

58.60 tons Base Asphalt @ \$8.00 per ton	\$ 468.80
60.55 tons Seal Asphalt @ \$9.00 per ton	<u>544.95</u>
	1,013.75

Miscellaneous (Gas, Brick, Cement Flares, Manholes, Pension Fund contribution and portions of staff salaries)

TOTAL	\$ 68,045.29
-------------	--------------

The Street preparatory work, other than laying in place of the premixed material, was done by regular City Crews at an expenditure of \$9,934.53, made up as follows:-

City Labor	\$ 5,150.51
Hired Trucks & Machinery	589.02
City Machinery	<u>4,195.00</u>
TOTAL	<u>\$ 9,934.53</u>

The total expenditure under this heading amounted to \$77,979.82 and was made up as follows:-

City Labor	\$ 5,150.51
Hired Trucks and Machinery	589.02
City Machinery	4,195.00
Diamond Construction (1961) Ltd., Forbes and Sloat and W.J.Gorman	64,438.98
Miscellaneous	<u>3,606.31</u>
TOTAL	<u>\$ 77,979.82</u>

The above expenditure of \$77,979.82 was made up as follows:-

- 1) New Pavement, 3/4" Dense Hot Mix
- 2) Recap, 1/2" minus
- 3) Surface Seal, 1/4" minus

1) New Pavement:-

The following streets were paved with 3/4" Hot Mix by the Diamond Construction (1961) Limited:-

<u>Street</u>	<u>Location</u>	<u>Lineal Feet</u>
Liverpool St.	- Southampton Drive to Vanier Highway	881
Canterbury Drive	- End of existing to Cambridge Cres.	639
Massey Street	- Bessborough St. to Lorne Street	890
Lorne Street	- Bessborough St. to Massey Street	276
York Street	- Mansfield Street to Lisgar Street	710
Irvine Street	- Existing east to existing west	1,375
Waggoner's Lane	- Rookwood Avenue to west	1,282
	TOTAL	= 6,053

6,053 lineal feet = 1.15 miles

In addition, the following were paved under this heading:-

- 1) Strip approximately 6' wide on Regent Street from Priestman Street to Trans Canada Highway, a distance of 1,142 feet (east side of Regent Street), laid by City workmen;
- 2) City Parking Lot on Campbell Street, east of Carleton Street between Carleton Street and Regent Street, by Diamond Construction Co. (1961) Limited;
- 3) Regrading a portion of Gibson Street, a distance of 550 feet, near Irvine Street.

The above listed streets were laid to a thickness of 3". The street grading and preparatory work was done by regular City Crews. The pre-mixed material was supplied by the Diamond Construction (1961) Limited from its plant, situated at Kingsclear on Route #2, Woodstock Road. The company charged the City of Fredericton \$7.90 per ton in place. The total tonnage used for the above construction amounted to 4,098.95.

2) Recap 1/2" Minus

Following is a list of City Streets recapped:-

<u>Street</u>	<u>Location</u>	<u>Lineal Feet</u>
Hanwell Road	- Parkhurst Drive to City line	4,000
Windsor Street	- Albert Street to King's College Rd.	1,460
Graham Avenue		1,460
	TOTAL	= 6,920

6,920 lineal feet = 1.31 miles

The Company charged the City of Fredericton \$9.75 per ton in place.

3) Surface Seal 1/4" Minus

The following City Streets were surface sealed with 1/4" Hot Mix:-

<u>Street</u>	<u>Location</u>	<u>Lineal Feet</u>
Park Street (Bennett)		260
Devon Avenue		1,120
Prince Street		900
Byng Street		500
Henry Street		700
Clark Street, Canadian Pacific track to MacLaren Ave.		1,000
Ryan Court		340
MacLeod Avenue		720
Odell Avenue		1,110
Grey Street		1,260
Saunders St., Odell Avenue to Smythe Street		530
Campbell St., West side of Phoenix Square to Carleton Street		800
TOTAL	=	<u>9,240</u>

9,240 lineal feet = 1.75 miles

In addition, the City Parking Lot at the rear of the City Hall was surface sealed. The company charged the City of Fredericton \$12.00 per ton in place. The total tonnage used was 1,919.77.

CAPITAL ACCOUNT DOMESTIC SEWER

Gross Expenditure and Stocked Material	\$ 58,839.09
Less Inventory, December 31, 1967	<u>2,825.99</u>
	\$ 56,013.10
Credits	<u>43,564.28</u>
Net Expenditure	<u><u>\$ 12,448.82</u></u>

Included in the net expenditure of \$12,448.82 is the amount of \$1,378.95 holdback from jobs completed in 1966 and showing in 1967 accounts.

The above credits are made up as follows:-

Hill Bros. Willingdon St., Massey St.) to Stanley Street)	\$ 7,404.25
City of Fredericton, portion of) Local Willingdon Street) Improvement	2,709.64
F'ton Housing Ltd., Southampton Drive) Charges	4,576.15
Greendale Ltd., portion of Oxford St.)	8,350.00
Parkside Development, Prospect Street)	13,143.26
F'ton Housing Ltd., Topcliffe Cres. and Canterbury Drive)	4,774.29
Work done and materials sold to Private Parties	595.44
Journal Voucher (Materials paid for by Capital Account Domestic Sewer and charged to other City Departments)	<u><u>2,011.25</u></u>
TOTAL	= \$ 43,564.28

Domestic Sewer Mains were constructed at the following locations:-

Location	Lineal Feet	
	10" Transite	8" Transite
Fredericton Housing Ltd. - Southampton Dr.		1,169
Fredericton Housing Ltd. - Topcliffe Cr. & (1967-1968) extension to Canterbury Drive. Installation by City Workmen		652
Fredericton Housing Crew		740
Hill Bros. and City of Fredericton, Willingdon St., Massey to Stanley		1,480
Greendale Ltd., Oxford St., Eglinton to Eglinton Street		1,104
Greendale Ltd., easement Oxford to Montgomery Street		284
Priestman St., Regent Street east		617
Parkside Development, Prospect St.	725	906
TOTALS =	725	6,952

Scott Wheaton Construction Company installed Domestic Sewers in Oxford Street and in easement between Oxford Street and Montgomery Street and in Prospect Street.

Ashfield Construction Company installed Domestic Sewer in Willingdon Street, from Massey Street to Stanley Street.

Fredericton Housing Limited installed Domestic Sewers in Topcliffe Cres. and the extension of Canterbury Drive with company equipment and crew.

City Machinery and City Crews installed Domestic Sewer in Southampton Drive and extended the Domestic Sewer on Woodbridge Street to Topcliffe Cres.

Everett Farris installed Domestic Sewer in a portion of Priestman Street from Regent Street east.

The actual cost of installing the above listed Sewer Mains was as follows:-

Location	Payment to Contractors Including Reserve for Holdbacks	City Labor and Machinery	Materials	Total
F'ton Housing Ltd. (Southampton Drive	\$ 1,737.51		2,838.64	4,576.15
F'ton Housing Ltd. (1967-1968)				
Installation by: City Crew F'ton Housing Crew*		2,070.31	1,289.54	3,359.85
Hill Bros. and City of Fredericton (Willingdon St.- Massey to Stanley)	9.78		1,328.16	1,337.94
Greendale Ltd. (portion of Oxford Street)	7,104.00	133.14	2,876.75	10,113.89
City (easement)	5,879.50	157.75	2,312.75	8,350.00
Priestman Street	1,414.50	141.46	426.00	1,981.96
Parkside Development (Prospect Street)	3,683.75	119.97	1,140.16	4,943.88
TOTALS =	\$ 27,321.25	4,592.10	15,891.58	47,804.93

* Installation by Fredericton Housing - Labor and machinery supplied by Fredericton Housing Ltd. and therefore not shown on City Accounts.

All above costs include any holdback payments, thus showing the actual cost of construction greater than the net expenditure. To arrive at the cost per foot of construction, the cost of \$46,466.99 (\$47,804.93 - \$1,337.94) must be used for determining same.

Total Lineal feet laid 7,677

Average cost per foot $\frac{\$46,466.99}{(7,677 - 740)}$ = \$6.70

Cost by Contractor - per Lineal Foot

Location	Size of Pipe	
	8"	10"
Hill Bros. and City of Fredericton (Willingdon Street, Massey to Stanley Streets)	\$ 6.83	
Greendale Ltd. (Portion of Oxford Street)	7.56	
City (Easement, Oxford to Montgomery)	7.00	
Priestman Street	8.01	
Prospect Street	7.84	8.32

Cost by City Crews and Machinery per Lineal Foot

Location	Size of Pipe	
	8"	
Fredericton Housing Ltd. (Southampton Drive)	\$ 3.91	
Fredericton Housing Ltd.- 1967-1968 (Woodbridge Street to Topcliffe Cres.)		5.15 (C.T.)

C.T. - Common Trench

Materials in Stock, December 31, 1967:-

462½ lineal feet of 8" Terra Cotta Pipe : \$0.86 per ft.	\$ 397.75
35 lineal feet of 12" Terra Cotta Pipe @ \$1.55 per ft.	54.25
804 lineal feet of 8" Asbestos Pipe @ \$1.50 per ft.	1,206.00
327 lineal feet of 10" Asbestos Pipe @ \$1.98 per ft.	647.46
160 lineal feet of 12" Asbestos Pipe @ \$2.40 per ft.	384.00
3 Manhole Covers and Frames @ \$45.51 each	<u>136.53</u>
TOTAL	= <u>\$ 2,825.99</u>

CAPITAL ACCOUNT SURFACE SEWER

Gross Expenditure and	
Stocked Material	\$ 108,395.90
Less Inventory,	
December 31, 1967 ...	<u>5,760.02</u>
	\$ 102,635.88
Credits	<u>69,639.67</u>
Net Expenditure	\$ 32,996.21

Included in the net expenditure of \$32,996.21
is the amount of \$1,742.43 holdback from jobs
completed in 1966 and showing in 1967 accounts.

The above credits are made up as follows:-

Hill Bros., Willingdon St. - Massey St.)		\$ 12,610.29
to Stanley Street)	
City of Fredericton, portion of)	5,201.73
Willingdon Street)	
Fredericton Housing Ltd.,)	8,436.22
Southampton Drive)	
Greendale Ltd., portion of)	13,398.85
Oxford Street)	
Parkside Development, Prospect Street)	17,702.50
Fredericton Housing Ltd., Topcliffe)	5,531.48
Crescent and Canterbury Drive)	
Work done and materials sold to Private Parties		1,131.65
Journal Voucher (Materials paid for by Capital		
Account Surface Sewer and sold to		
other City Departments)		<u>5,626.95</u>
TOTAL	=	\$ 69,639.67

Under this heading Surface Sewer Mains and
laterals were constructed at the following locations:-

Location	Concrete Pipe						
	10"	12"	15"	18"	24"	36"	60"
Back Drain Diversion (Odell Park)	150	44					448
F'ton Housing Ltd. (Southampton Dr.)	54	1,160					
F'ton Housing Ltd. (1967-68) City Crew		96	570				
F'ton Housing Ltd. Crew		774					
Hill Bros. & City of F'ton (Willingdon St., Massey to Stanley Streets)	108	625	875				
Greendale Ltd. (Portion of Oxford Street)	110	422	290	430			
City (Easement)				271			
Storm Sewer, Montgomery St. to Massey St., through Everett Farris' property						500	
Priestman St., Regent St. east	72	336	284				
Parkside Development (Prospect Street)	190	225	600	592	224		
TOTALS =	684	3,682	2,619	1,293	224	500	448

Total Lineal Feet = 9,450

An itemized account was kept of installing Surface Sewers at the following locations and expenditures were made up as follows:-

Location	Payment to Contractors Including Reserves for Holdbacks	City Labor and Machinery	Materials	Total
Back Drain Diversion (Odell Park)	\$ 2,903.82		11,224.12	14,127.94
Fredericton Housing Ltd. (Southampton Drive)		4,570.54	3,865.68	8,436.22
Fredericton Housing Ltd. 1967-1968, City Labor and Machinery		2,434.91	1,742.61	4,177.52
*Fredericton Housing Crew			1,353.96	1,353.96
Hill Bros. and City of Fredericton Willingdon St. -	13,405.00	329.54	4,077.48	17,812.02
Massey to Stanley				
Greendale Ltd. (portion of Oxford St.)	8,517.00	722.77	4,159.08	13,398.85
City (Easement)	1,674.37	229.60	696.83	2,600.80
Montgomery to Priestman Street, through E. Farris property		3,549.15	5,656.58	9,205.73
Priestman St. (Regent Street east)	4,626.50	309.50	1,670.81	6,606.81
Parkside Development (Prospect St.)	11,363.75	522.69	5,816.06	17,702.50
TOTALS +=	\$ 39,586.62	15,572.52	40,263.21	95,422.35

* Labor and Machinery was supplied by Fredericton Housing Ltd. and does not appear on City Accounts.

Scott Wheaton Construction Company installed Surface Sewers in Oxford Street and easement between Oxford and Montgomery Streets and on Prospect Street.

Ashfield Construction Company installed Surface Sewer in Willingdon Street, from Massey Street to Stanley Street.

Fredericton Housing Ltd. installed Surface Sewers on Topcliffe Cres. and Canterbury Drive.

Everett Farris installed Surface Sewer in Priestman Street east of Regent Street.

City Crews and Machinery installed Surface Sewers at Odell Park (completing the piping of the Back Drain Diversion) extension of Woodbridge Street to Topcliffe Cres. Southampton Drive and through easement from Montgomery Street to Priestman Street through Everett Farris' property.

All above costs include any holdback payments which will appear in 1968 accounts.

Following is the cost for laying various sizes of pipe, including Catch Basins in place by contractors and City workmen and hired machinery.

Cost by Contractors per Lineal Foot

Location	Concrete Pipe				
	10"	12"	15"	18"	24"
Hill Bros. and City of Fredericton (Willingdon St., Massey Street to Stanley Street)	\$10.24	10.48	11.61		
Greendale Ltd. (Portion of Oxford St.)	9.33	9.57	11.20	11.82	
City (Easement, Oxford to Montgomery)				9.60	
Priestman Street	9.02	9.26	9.89		
Prospect Street	7.71	7.95	9.33	9.95	12.18

Cost by City Crews and Machinery per Lineal Foot

Location	Concrete Pipe				
	10"	12"	15"	36"	60"
Back Drain Diversion					31.53
Fredericton Housing Ltd. (Southampton Drive)	6.71	6.95			
Fredericton Housing Ltd. (extension of Woodbridge Street to Topcliffe Cres.) (C.T.)		5.64	6.27		
Drain from Montgomery to Priestman Streets				18.41	

Stock on hand, December 31, 1967:-

413	lineal feet of 10" Concrete Pipe @ \$1.04 per foot	\$ 429.52
764	lineal feet of 12" Concrete Pipe @ \$1.28 per foot	977.92
731	lineal feet of 15" Concrete Pipe @ \$1.91 per foot	1,396.21
217	lineal feet of 18" Concrete Pipe @ \$2.53 per foot	549.01
76	lineal feet of 24" Concrete Pipe @ \$4.76 per foot	361.76
88	lineal feet of 30" Concrete Pipe @ \$6.32 per foot	556.16
80	lineal feet of 36" Concrete Pipe @ \$9.35 per foot	748.00
14	Catch Basins (Covers and Frames) @ \$46.94 each	657.16
7	Pre-Cast Bottoms @ \$12.04 each	<u>84.28</u>
	TOTAL	<u>\$ 5,760.02</u>

CAPITAL ACCOUNT WATER

Gross Expenditure and Stocked Material	\$ 124,238.39
Less Inventory, December 31, 1967 ...	34,281.12
	89,957.27
Less Credits	57,800.52
Net Expenditure	\$ 32,156.75

Included in the net expenditure of \$32,156.75 is the amount of \$4,218.41 holdback from jobs completed in 1966 and shown in 1967 accounts.

The above credits are made up as follows:-

Hill Bros. (Willingdon Street, Massey)	\$ 10,814.60
to Stanley Streets)	
City of Fredericton (Portion of Willingdon Street)	3,917.00
Fredericton Housing Ltd. (Southampton Drive)	8,056.95
Greendale Ltd. (portion of Oxford Street)	10,462.74
Parkside Development (Prospect St.)	17,533.43
Fredericton Housing Ltd. (Topcliffe and Canterbury Drive)	5,426.84
Work done and materials sold to Private Parties	1,577.76
Journal Voucher (Material paid for by Capital Account Water and sold to other City Departments	11.20
TOTAL	\$ 57,800.52

Water Main installations were made at the following locations:-

Location	Size of C.I. Pipe				
	4"	6"	8"	10"	12"
Fredericton Housing Ltd. (Southampton Drive)		18'	1275'		
Fredericton Housing Ltd. (Topcliffe Cr. and Canterbury Dr.)		355'		510'	
Hill Bros. (Willingdon St., Massey St. to Stanley St.)		36'	1072'		
City of Fredericton (portion of Willingdon Street)		18'	408'		
Greendale Ltd. (portion of Oxford Street)	36'	1105'	18'		
Priestman Street		24'			
Prospect Street		138'	540'	1050'	601'
TOTAL	=	36'	1694'	3313'	1560'
					601'

Total Lineal Feet all sizes - 7,204

An itemized account was kept of installing Water Mains at the following locations and expenditures were made as follows:-

Location	Payment to Contractors Including Reserves for Holdbacks	City Labor and Machinery	Materials	Total
Fredericton Housing Ltd. (Southampton Drive)	\$ 1,966.72		6,090.23	8,056.95
Fredericton Housing Ltd. (1967-1968)		9.78	5,417.06	5,426.84
*F'ton Housing Crew				
Hill Bros. and City of Fredericton (Willingdon St., Massey to Stanley)	7,339.50	133.14	7,258.96	14,731.60
Greendale Ltd. (Portion of Oxford Street)	4,341.50	170.11	5,951.13	10,462.74
Priestman Street	3,805.75	155.42	4,870.06	8,831.23
Prospect Street	7,109.00	220.93	10,203.50	17,533.43
TOTALS =	\$ 22,595.75	2,656.10	39,790.94	65,042.79

* Labor and Machinery was supplied by Fredericton Housing Limited and does not show on City Accounts.

All above costs include any holdback payments which will appear in 1968 accounts.

Fredericton Housing Ltd. installed Water Mains in Topcliffe Cres. and Canterbury Drive.

Ashfield Construction Company installed the Water Main in Willingdon Street; Massey Street to Stanley Street.

E. W. Farris installed the Water Main in Priestman Street.

City Crews and Machinery installed the Water Main in Southampton Drive.

Scott Wheaton installed Water Mains in Oxford (portion of Oxford) and Prospect Streets.

The following shows the cost per foot for laying various sizes of Cast Iron Pipe by Contractors and City Workmen and includes gates and manholes, but does not include fire hydrants.

Cost by Contractor per Lineal Foot

Location	Size of Pipe				
	4"	6"	8"	10"	12"
Hill Bros. and City of Fredericton (Willingdon Street, Massey to Stanley Streets)			10.11	9.58	
Greendale Ltd. (Portion of Oxford Street)	\$ 8.03	9.32	11.79		
Priestman Street		10.47			14.28
Prospect Street		7.91	9.38	10.84	

Cost by City Workmen and Machinery per lineal foot was \$6.23 for installing 8" Water Main in Southampton Drive. This cost per foot does not represent all the costs as Fredericton Housing Ltd. labor and machinery was used whenever available and does not show in City Cost Book.

In addition to the laying of the above listed Water Mains the following is included under this heading:-

- 1) Installation of Pump, Pump Connections and Instrumentation at Cameron Court Pump House;
 - 2) Water High Level Reservoir;
 - 3) Repairing Water Trench, Hanwell Road;
 - 4) Surveying Relocation of Water Main, Union Street;
 - 5) Water Exploration.
- 1) Installation of Pump, Pump Connections and Instrumentation in Cameron Court Pump House.

In 1966 a Well was drilled and tested in Cameron Court by Aden Sullivan at a cost of \$5,515.00. A Prestressed Reservoir was constructed and put in operation on October 18, 1966 at a cost of \$19,383.45. In 1967 an electrical service was installed from the Pump House to the Reservoir by Richards Electric Co. at an expenditure of \$272.40, thus making the completed cost for the Reservoir for 1966 and 1967 of \$19,655.85.

In 1966 a Pump House was constructed and the connection from the Main on Cameron Court to the Pump House was made. The Pump, Pumping Connections and Instrumentation were installed in 1967.

Following is the expenditure for the above for 1966 - 1967:-

T. McAvity and Sons (1 Check Valve)	\$ 79.18
Construction of Pump House (Fredericton Housing Ltd.)	9,885.00
Canadian General Electric (Transformer Starter Switch)	670.53
International Water Supply (Supplying and Installing Pump) ..	5,262.00
Moncton Foundry (1,000 Gallon Storage Tank)	173.66
P. C. Chown (Instruments)	3,278.80
Forbes and Sloat (Back Filling, Pump House)	211.75
Connections inside Pump House (Labor, materials and machinery)	1,304.86
Journal Voucher (Labor, machinery and connections from Main to Pump House)	261.39
TOTAL	\$21,127.17

Water from the Well at Cameron Court was turned into the Cameron Court System on June 7, 1967.

2) Water - High Level Reservoir

Expenditure\$ 124.10

The above expenditure was to Seaboard Surveys Ltd. to surveying and supplying a plan for a future reservoir site on Regent Street, near Trans Canada Highway.

3) Repairing Water Trench, Hanwell Road

In 1966 a Water Main was laid from Parkhurst Drive to the City Limits on Hanwell Road. In 1967 repairs to this trench line were done by Diamond Construction (1961) Ltd. at an expenditure of \$5,111.40, made up as follows:-

501.60 tons Dense Mix @ \$9.75 per ton ...\$ 4,890.60
18.40 tons 3/8 Plant Mix @ \$12.00 per ton 220.80
TOTAL\$ 5,111.40

4) Surveying Relocation of Water Main, Union Street

Due to the construction of a new bridge over the Nashwaak River in 1967, a portion of the Water Main on Union Street will have to be relocated in 1968. The expenditure this year amounted to \$95.85 and was for surveying new location.

5) Water Exploration

The expenditure under this heading amounted to \$6,788.70 and was made up as follows:-

J. F. MacLaren Ltd. (report on future Water Supply)\$ 5,759.42
J. F. MacLaren Ltd. (report on Proposed New Well) 442.78
Sub Surface Survey (Drilling St. Anne's Point) 442.50
Associated Designers (Tests) 144.00
TOTAL\$ 6,788.70

In 1967, investigation continued into the location of a future Well to augment the present supply of water for the south side of the City.

Core sampling of the proposed site at St. Anne's Point Barracks was carried out to determine the porosity of the gravel formation, which controls the amount of water available.

As a result of the investigation it is estimated that 900 I.G.P.M. may be the safe yield from this site.

At the time of writing this report, negotiations for permission to develop a Well on this site are being carried out with the Provincial Government, the owners of the property. Providing the negotiations are successfully concluded, it is recommended that a new Well be developed on the proposed site in 1968.

A summary of ground water explorations and development costs from 1953 to date is as follows:-

Cost of Well Water Supply to Date (South Side)

1953	Test Hole Program	\$ 7,500.00
1954	Supply line and partial development #1 Well	42,271.16
1955	Develop, House and Connecting of #1 Well	22,883.05
1956	Remote Control and Landscaping	3,048.33
1957	Develop, House and Connecting of #2 Well	44,217.72
1958	Holdbacks, etc.	7,641.01
1958-1959	Test Hole Program	24,294.40
1960-1961	Develop, House and Connecting of #3 Well	46,554.32
1961	Develop, House and Connecting of #4 Well	42,834.45
1962	Remote Control and Landscaping of #4 Well	1,011.41
1965	Test Hole Program (Water Exploration)	13,597.08
1966-1967	Develop, House and Connecting Cameron Court Well	26,642.17
1966	Test Hole Program (Continuation of 1965 Program) ..	5,143.07
1966-1967	Drilling and Testing Well, St. Anne's Point, Woodstock Road, together with Report on future supply	6,919.28
	TOTAL	<u>\$294,557.45</u>

Capacity available 2,600 I.G.M.
Present average demand 1,281 I.G.M.
Maximum demand 1,510 I.G.M.

In 1967 J. F. MacLaren Ltd. submitted to the City of Fredericton a report of future Water Supply for the greater Fredericton Area, at a cost of \$5,759.42. - *All previous page* This report was distributed to the members of City Council in 1967 and has been under review by the Public Works Committee.

CAPITAL ACCOUNT GRAVEL ROADS

Gross Expenditure	\$ 119,575.37
Credits	<u>64,392.88</u>
Net Expenditure	\$ 55,182.49

The above credit of \$64,392.88 is made up as follows:-

Hill Bros. (Willingdon St, Massey St. to Stanley Street)	\$ 11,136.97
City of Fredericton (portion of Willingdon Street)	Local 4,458.84
Fredericton Housing Ltd. (Southampton Drive)	Improvement 10,572.90
Greendale Ltd. (portion of Oxford St.)	Charges 14,329.51
Parkside Development (Prospect St.)	23,397.60
Fredericton Housing Ltd. (Topcliffe Crescent and Canterbury Drive)	97.26
Government of Canada (Winter Works N.B.-54)	363.05
Journal Voucher (Gravel from Roads and Streets)	<u>36.75</u>
TOTAL	\$ 64,392.88

Included in the above expenditures are:-

- 1) Grading and Gravelling Curbed Streets;
- 2) Gravel Road Construction.

1) Grading and Gravelling Curbed Streets

The list of Streets under this heading will be found under "Capital Account Curb and Gutter" which is contained in the body of this report on page 19.

2) Gravel Road Construction

The following Streets were constructed and gravelled under this heading:-

<u>Location</u>	<u>Lineal Feet</u>
Southampton Drive, Dover Crescent to Liverpool Street ...	1,250
Oxford Street, Eglinton St. to Eglinton Street.....	1,135
Willingdon Street, Massey Street to Stanley Street	1,523
Cameron Court, portion from Pump House to rear of Cameron Court	570
+ Priestman Street, Regent Street east	600
* Prospect Street, Station 11 + 50 to City Limits	<u>3,000</u>
TOTAL	8,078

+ Previously included in City Mileage.

* Mileage not included in 1967 as construction was only partly completed.

New Road Construction completed in 1967 - .85 miles

An itemized account was kept of constructing and graveling streets at the following locations:-

Location	Payment to Contractor	City Labor and Machinery	Materials	Total
Southampton Drive (Dover Cres. to Liverpool St.)	\$	1,592.88	8,980.02	10,572.90
Oxford St. (Eglinton to Eglinton)		8,370.06	5,959.45	14,329.51
Willingdon (Massey St. to Stanley St.)		7,229.81	8,366.00	15,595.81
Cameron Court (portion)		2,609.98	3,457.19	6,067.17
Priestman St. (portion)		3,607.59	1,224.18	4,831.77
Prospect St. (Sta. 11+50 to City Line)	42,960.62	503.74	745.22	44,209.58
TOTALS =	\$ 42,960.62	23,914.06	28,732.06	95,606.74

44,209.58
23,397.60
\$ 20811.98 CITY

CAPITAL ACCOUNT FOREST HILL ACCESS ROAD

In 1964 the City of Fredericton entered into a contract with Diamond Construction (1961) Ltd. to construct a new access Road to Forest Hill.

The construction was commenced in 1964. Preliminary work such as acquiring certain properties and surveying by Anric Engineering Limited was done in 1963.

In 1967 a concrete sidewalk was laid on the north side of Waterloo Row from Elmcroft Place to a distance of 900 feet east, by City Workmen and 600 feet of Asphalt curbing was constructed by Diamond Construction (1961) Ltd. on the north side of Waterloo Row adjacent to the new Forest Hill Access Road.

The expenditure for 1967 under this heading amounted to \$6,854.63 and was made up as follows:-

Dr. Frank Morris (Balance of land payment)	\$ 692.00
Diamond Construction (1961) Ltd. (Curbings)	900.00
J. C. Risteen Co. (Stakes)	12.88
Elmtree Concrete	1,008.99
W. R. and W. W. Thomas (Sand, Topsoil)	394.80
Forbes and Sloat (Gravel)	123.47
Seaboard Surveys Ltd.	32.10
Journal Voucher (Pension Contribution)	61.23
Journal Voucher (Manhole)	32.89
Journal Voucher (Machinery)	345.50
Journal Voucher (Cement, Brick)	15.65
Journal Voucher (City Labor)	<u>3,235.12</u>
TOTAL	\$ 6,854.63

Expenditure to December 31, 1967 is made up as follows:-

Expenditure 1963	\$ 10,285.34
Expenditure 1964	48,363.81
Expenditure 1965	69,837.87
Expenditure 1966	13,483.28
Expenditure 1967	<u>6,854.63</u>
Total Expenditure ...	\$ 148,824.93
Less Credits 1966 (Board of Transport and C.N. & C.P. Railways)	<u>7,470.39</u>
	\$ 141,354.54
Less shared cost items submitted to Provincial Gov't (1963-1965)	<u>45,270.77</u>
	\$ 96,083.77
Plus non-shareable	<u>742.77</u>
<u>Total Net Cost to City of Fredericton 1963-1964 ...</u>	<u>\$ 96,826.54</u>

For the above expenditure, previous to 1967, the Road was constructed and paved, curb and gutter was laid, an asphalt sidewalk was constructed along the south side of the Road and signal lights were installed at the Railway Crossing. Surface Sewers were also installed where necessary.

CAPITAL ACCOUNT TRAFFIC LIGHTS

On the recommendations of a report in 1966 by Cameron, Grant and Associates traffic lights were installed at the corner of Beaverbrook and Regent Streets. A flashing light was also installed at the corner of King's College Road and York Street.

The expenditure under this heading amounted to \$10,445.75 and was made up as follows:-

Bond Discount	\$ 525.75
Stan Cassidy Ltd. .	<u>9,920.00</u>
TOTAL	<u>\$10,445.75</u>

CENTENNIAL PROJECTS

The Fredericton City Council in 1965 accepted the recommendations of the Centennial Committee to carry out works in Odell Park and on an area at the intersection of McEvoy and Noble Streets, as the Centennial Projects to commemorate the centenary of Confederation.

The Federal and Provincial Governments initiated the commemoration of the Centennial by assisting municipalities to the extent of one dollar per capita from each level of Government towards the projects.

CAPITAL ODELL PARK CENTENNIAL - 1967

Gross Expenditure ...	\$32,408.23
Credit	<u>26,335.50</u>
Net Expenditure	<u>\$ 6,072.73</u>

The above credits of \$26,335.50 was the amount from Centennial Administration Claims Projects N.B.C.2 and N.B.C.3.

The Gross Expenditure of \$32,408.23 was made up as follows:-

Topmar Housing (Construction of Building - Prog. Payments)	\$ 23,435.31
Scott Concrete Works (Concrete slabs)	598.35
Maritime Electric (Service to Building)	40.20
J. S. Neill and Sons (Oil, Paint, etc.)	143.63
Elmtree Concrete	100.94
Diamond Construction (1961) Ltd. (Rock Dust)	457.42
Lansdowne Nursery (Trees, shrubs)	68.70
James H. Matthews (Bronze Plaque and Tablet)	412.72
Topmar Housing (Erecting Plaque and Base)	2,370.00
Sutton House (Carpet)	120.79
Provincial Secretary Treasurer (Tax on Plaque)	24.77
J. C. Ristein (Paint)	32.72
Jardine Renovations (Installing gates and painting)	200.00
Bemrose and Kilburn (Sodding)	452.50
Bank Discount	287.41
Tractors and Equipment (Hauling and piling lumber)	923.00
E. M. Young (Brushes, paint, etc.)	158.64
W. W. and W. R. Thomas (Topsoil)	1,208.90
H. S. Gill and Sons (Spikes, cedar posts)	74.02
Maritime Accessories (Paint)	2.39
Atlas Building Supplies (Floor paint, lumber)	43.79
Journal Voucher (Cement, varsol)	12.20
Journal Voucher (Machinery)	22.00
Journal Voucher (Pension Fund)	28.12
Journal Voucher (City Labor)	<u>1,189.71</u>
TOTAL	<u>\$ 32,408.23</u>

A contract was awarded to Topmar Housing Construction in 1966 for the construction of a building; namely, Odell Park Centre in the Park, which will serve as a meeting place for groups using the facilities of the Park as well as a nature interpretation centre and was completed in 1967.

On July 12, 1967 the Odell Park Centre was officially opened by Her Royal Highness Elizabeth, The Queen Mother.

Following is the cost of the above building including Water and Sewer installations, regrading, topsoiling and seeding:-

Jas. H. Matthews (Bronze tablet, including tax)	\$ 197.08
B. A. Ackroyd (Timber from Catholic Church)	200.00
W.R. and W.W. Thomas (Topsoiling)	1,687.70
Capital Garden Supply (Grass seed)	56.25
Topmar Housing Construction (Construction of Building)...	37,464.31
Scott Concrete (Curbing and Patio Slabs)	598.35
Maritime Electric (Service to Building)	40.20
J. S. Neill & Sons (Oil, Paint, etc.)	143.63
Diamond Construction (1961) Ltd.	457.42
Elmtree Concrete (Walk)	100.94
Lansdowne Nursery (Trees, shrubs)	68.70
Sutton House (Carpet)	120.79
J. C. Ristein (Paint)	<u>32.72</u>
Forward	\$ 41,168.09

	Carried Forward	\$ 41,168.09
Bemrose and Kilburn (sodding at Odell Park)	452.50	
Tractors and Equipment (Hauling and storing lumber)	923.00	
E. M. Young (Brushes, paint)	158.64	
H. S. Gill and Sons (Spikes, Cedar Posts)	74.02	
Maritime Accessories (Paint)	2.39	
Atlas Building Supplies (Paint, Lumber)	43.79	
Journal Voucher (Cement, sand, pipe, etc.)	1,674.15	
Journal Voucher (City Machinery)	744.50	
Journal Voucher (Pension contribution)	28.12	
Journal Voucher (City Labor)	<u>1,761.84</u>	
TOTAL	\$ 47,031.04	
	<u> </u>	<u> </u>

In addition a Bronze Memorial Plaque was purchased from Jas. H. Matthews Company and placed on a base at the entrance to the Odell Park, at the corner of Rookwood Avenue and Waggoner's Lane, by Topmar Construction at a cost of \$2,610.41, made up as follows:-

J. H. Matthews Company (Engraved bronze plaque, including tax)	\$ 240.41
Topmar Construction (Construction of base with memorial plaque)	<u>2,370.00</u>
TOTAL	\$ 2,610.41
	<u> </u>

Gates were installed and painted at the entrance to the Centre by Jardine Renovations at a cost of \$200.00.

To date the expenditure on this project is as follows:-

1965 Expenditure	\$ 18,788.13
1966 Expenditure	17,720.63
1967 Expenditure	<u>32,408.23</u>
Total Expenditure	\$ 68,916.99
(1965 - 1967)	

Less Credits:

1965 Centennial Administration (25% of Federal- Provincial Grant)	\$ 8,778.50
1967 (Centennial Administration Claim #2, re project N.B.C.2)... (Centennial Administration Claim #3 re project N.B.C.2) ...	8,778.50
	<u>17,557.00</u>
Total Net Expenditure (1965-1967)	\$ 33,802.99
	<u> </u>

CENTENNIAL PARK - CARLETON WARD

Expenditure\$ 1,610.41

In 1967 a Bronze Inscribed Memorial Plaque and base was constructed at the corner of McEvoy and Noble Streets for the Centennial Park, at a cost of \$1,610.41 and was made up as follows:-

Topmar Housing (Constructing of Memorial Base and Plaque)	\$ 1,370.00
Jas. H. Matthews Company (Bronze Plaque, including tax) ...	<u>240.41</u>
TOTAL	\$ 1,610.41

The above expenditure completed the preparation of the Park, which began in 1965 with grading, topsoiling and seeding for the future development of an athletic field.

The expenditure on this project was as follows:-

1965 Expenditure	\$ 6,391.30
1966 Expenditure	9,927.24
1967 Expenditure	<u>1,610.41</u>
Total Expenditure (1965-1967)	\$ 17,928.95
Less Credits:	
1965 Centennial Administration (25% of Federal-Provincial Grants)	\$ 1,326.50
1967 (Centennial Administration Claim #2, re project NBC ₂ 1,326.50 (Centennial Administration Claim #3, re project NBC ₂ <u>2,653.00</u>	
Total Credits (1965-1967)	<u>\$ 5,306.00</u>
Total Net Expenditure (1965-1967)	\$ 12,622.95

The final development of this Park is under the heading "Capital Fisher Park Development."

CAPITAL FISHER PARK DEVELOPMENT

Expenditure \$ 9,226.57

The above expenditure is made up as follows:-

Bemrose and Kilburn (1222 yards fill, roller and tractor)....	\$ 1,291.00
W.W. and W. R. Thomas (364 yards topsoil)	618.80
H. S. Gill and Sons (Lumber, stakes)	592.07
Horsnell's Machine & Iron Works (Work on bleacher brackets).	6.00
J. C. Risteen (Stakes)	6.20
N. B. Wire Fence Co. (600 lineal feet of fencing, lawn gates)	148.99
Donahue Transfer (Cartage on fencing)	8.21
C. P. Express Co. (Playground equipment)	15.74
Capital Garden Supply (Grass seed)	60.00
Neill's Wholesale (Pentox, brushes, wire, fence staples, paint, enamel)	128.93
Daily Gleaner (Advertisement re installation of Plaque)	7.84
Paris Playground Equipment (Bleachers and backstops)	2,709.82
Lansdowne Nursery (Trees)	141.75
Journal Voucher (Pension contribution)	60.95
Journal Voucher (Materials, cement, brick, etc.)	228.23
Journal Voucher (City Machinery)	548.00
Journal Voucher (City Labor)	<u>2,654.04</u>
TOTAL	\$ 9,226.57

For the above expenditure, the Park was developed as a Baseball Field, equipped with bleachers and backstops.

CAPITAL ACCOUNT INDUSTRIAL AREA

Expenditure \$ 6,381.11

MacLaren Atlantic Ltd. (Preparing brief)	\$ 1,889.39
J. C. Risteen Co. (Stakes)	10.02
Seaboard Surveys (Surveying)	2,390.29
Geo. S. F. Bridges (Appraisals)	900.00
John Jensen (Ditching)	897.00
Journal Voucher (Pension contribution)	7.34
Journal Voucher (City labor)	<u>287.07</u>
TOTAL	\$ 6,381.11

The above expenditure includes the surveying of properties acquired by the City of Fredericton on Wilsey Road, surveying new road through Industrial Park, appraisal on newly acquired properties and the digging of a ditch on Wilsey Road between the property owned by the City of Fredericton and Victory Meat Market.

CAPITAL ODELL PARK DEVELOPMENT

Under this heading a caretaker's residence was constructed under the supervision of Associated Designers and further progress was made on the construction of a future Athletic Field. The Field is situated in the southerly section of the Odell Park Property with an entrance from Smythe Street, adjacent to Willingdon Street.

Expenditure \$ 20,034.26

The above expenditure was made up as follows:-

Topmar Construction (Progress Payments)	\$ 9,986.28
Associated Designers (Preparing Plans and Supervision) ...	883.31
Journal Voucher (Pension contribution)	76.12
Journal Voucher (Materials, dynamite, pipe, gravel, detonators)	506.97
Journal Voucher (Machinery)	4,146.00
Journal Voucher (City Labor)	<u>4,435.58</u>
TOTAL	\$ 20,034.26

Cost of Caretaker's Residence to December 31, 1967 ... \$ 10,869.59

Expenditure to date on Athletic Field:-

1965 Expenditure (Less Credits)	\$ 3,161.64
1966 Expenditure	<u>9,164.67</u>
Net Expenditure (1965-1967)	\$ 12,326.31

LOCAL IMPROVEMENT

In 1966 the Local Improvement By-Law was amended to full cost of initial services to the subdivider.

The following summary of Local Improvement Projects undertaken in 1967, shows the actual cost of construction, which was paid for by the Subdivider, including holdback payments.

<u>Location</u>	<u>Service</u>	<u>Cost</u>	<u>Number of Lots</u>
Fredericton Housing Southampton Drive Phase #1	Water Domestic Sewer Storm Sewer Gravel Road Sidewalk	\$ 8,056.95 4,576.15 8,436.22 10,572.90 <u>3,135.25</u>	
	TOTAL	<u>\$ 34,777.47</u>	
Hill Brothers Willingdon Street	Water Domestic Sewer Storm Sewer Gravel Road Sidewalk	\$ 10,814.60 7,404.25 12,610.29 11,136.97 <u>2,871.00</u>	29
	TOTAL	<u>\$ 44,837.11</u>	
City of Fredericton Willingdon Street	Water Domestic Sewer Storm Sewer Gravel Road Sidewalk	\$ 3,917.00 2,709.64 5,201.73 4,458.84 <u>800.00</u>	9
	TOTAL	<u>\$ 17,087.21</u>	
Greendale Limited Oxford Street	Water Domestic Sewer Storm Sewer Gravel Road Sidewalk	\$ 10,462.74 8,350.00 13,398.85 14,329.51 <u>2,619.00</u>	20
	TOTAL	<u>\$ 49,160.10</u>	
Parkside Development Prospect Street (Incomplete)	Water Domestic Sewer Storm Sewer Gravel Road Sidewalk	\$ 17,533.43 13,143.26 17,702.50 23,397.60 <u>4,500.00</u>	32
	TOTAL	<u>\$ 76,276.79</u>	
Fredericton Housing Canterbury Drive Topcliffe Crescent Incomplete, Dec. 30/67 Phase #2	Water Domestic Sewer Storm Sewer Gravel Road Sidewalk	\$ 5,426.84 4,774.29 5,531.48 97.26 <u>3,554.25</u>	24
	TOTAL	<u>\$ 19,384.12</u>	

SUMMARY OF COSTS TO
SUBDIVIDERS FOR SERVICES - 1967

<u>Service</u>	<u>Cost</u>	<u>No. of Lots</u>
Water	\$ 56,211.56	
Domestic Sewer	40,957.59	
Storm Sewer	62,881.07	143
Gravel Road	63,993.08	
Sidewalk	<u>17,479.50</u>	
TOTAL =	<u><u>\$ 241,522.80</u></u>	

NOTE:- Fredericton Housing Limited supplied and operated their own machinery on certain phases of projects, when required and available.

PUBLIC WORKS

Gross Expenditure	\$ 46,387.12
Credits	<u>3,161.65</u>
Net Expenditure	\$ 43,225.47
1967 Appropriation	<u>46,260.00</u>
Credit	\$ 3,034.53

The credits of \$3,161.65 are made up as follows:-

Sale of Maps to Private Parties (City of Fredericton)	\$ 29.13
Damage to Green	5.00
Damage to Post	5.00
Paul J. Paul (Rental on Stumper)	24.72
Dr. Robert Ogilvie (Removal of Tree Stumps)	78.52
Journal Voucher (Machinery)	1,713.50
Journal Voucher (Mobile Phones)	<u>1,305.78</u>
TOTAL	\$ 3,161.65

The labor, hired trucks and city machinery charges under Public Works expenditure was incurred as follows:-

<u>Item</u>	<u>Labor</u>	<u>Hired Trucks</u>	<u>City Machinery</u>
Trees	\$ 10,979.53	\$ 505.12	\$ 3,675.50
Back Drain	14.17		
Survey	623.46		
Surface Sewer	362.33	19.08	119.00
Unforseen	4,825.74	378.50	689.00
Casuals' Vacation Pay	<u>3,799.93</u>		
TOTAL =	<u>\$ 20,605.16</u>	<u>\$ 902.70</u>	<u>\$ 4,483.50</u>

TREES:-

Expenditure\$ 20,688.77

The above expenditure is made up as follows:-

Labor	\$ 10,979.53
Hired Trucks	505.12
City Machinery	3,675.50
Materials	4,928.62
Mr. Charles Smith (Honorary for services rendered) ...	<u>600.00</u>
TOTAL	\$ 20,688.77

In 1967, 113 trees were removed on the recommendation of the Fredericton Tree Commission. The condemned trees were either in a decadent condition, a menace to public safety or possible breeding places for the Elm Bark Beetle.

Following is a list of trees removed in 1967:-

<u>Species</u>	<u>Number Removed</u>
Elm	91
Maple	7
Ash	3
Chinese Elm	1
Hornbeam	1
Cherry	1
Poplar	1
Locust	1
Spruce	3
Pine	3
Tamarack	1
TOTAL	<u>113</u>

The procedure followed at the present time is as follows:-

The trees are condemned by four members of the Fredericton Tree Commission. The list, signed by the four members of the Commission, is then forwarded to the office of the City Engineer.

Trees on private property which are condemned as possible breeding places for the Elm Bark Beetle, which carries the fungus of Dutch Elm Disease, are also removed by City Crews. Following is a list of trees which were confirmed as Dutch Elm Disease trees:-

<u>Location</u>	<u>Number of Trees</u>
Woodstock Road (Brick Yard Area)	10
Lincoln Road (Nelson Adams property)	3
Research Station (Lincoln Road)	2
Hanwell Road	1
Rookwood Avenue	1
175 St. John Street	1
TOTAL	<u>18</u>

Following is the number of trees removed from 1961 to 1967 with Dutch Elm Disease:-

1961	2
1962	2
1963	1
1964	14
1965	8
1966	12
1967	<u>18</u>
TOTAL	<u>57</u>

Permission for the removal of trees on private property, as well as a statement to the effect that no claim for damages will be filed by the property owner, are obtained before proceeding with this work.

The system is working very well, with a minimum of delay, after the tree has been condemned.

A considerable number of trees were pruned (601) during the year as well as the usual planting program.

Spraying of Mountain Ash at various locations in the City of Fredericton was carried out in 1967 to keep down the defoliation of these trees, due to Beetles.

Trees were planted at the following locations:-

<u>Location</u>	<u>Number of Trees</u>
Squires Street	12
Mansfield Street	6
Rochester Street	25
Leeds Drive	50
Oxford Street, York St. to Simcoe Court	13
Simcoe Court	24
Lorne Street, Massey St. to Bessborough St..	1
Bessborough St., Lorne St. to Massey Street.	33
Massey Street, Bessborough St. to Smythe St.	4
Folkestone Court	14
Southampton Drive, Liverpool St. to Leeds Drive	8
Liverpool Street, Southampton Drive to Vanier Highway	11
Irvine Street, Noble Street east	8
Hillcrest Drive, Clark Street to Forbes St..	11
Bailey Drive	10
Kennedy Court	6
Windsor Street, Fenety St. to Montgomery St.	5
TOTAL	241
<hr/>	

88 trees were replaced in 1967 at various locations in the City due to loss through dry weather or vandalism.

Under the above heading the following trees were purchased in 1967 from Lansdowne Nursery:-

75	Norway Maples (8'-10') @ \$5.10 each	\$ 380.00
22	Norway Maples (7'-8') @ \$4.25 each	93.50
50	Silver Maples (8'-10') @ \$5.00 each	250.00
35	Crimson King Maples @ \$5.50 each	192.50
7	Sugar Maples (8'-10') @ \$4.80 each	33.60
20	Red Oaks (8'-10') @ \$3.00 each	60.00
6	Tilia Americana (8'-10') @ \$3.50 each	21.00
52	Tilia Cordata (8'-10') @ \$4.90 each	254.80
3	Tilia Cordata (7'-8') @ \$3.75 each	11.25
6	Tilia Pallida (7'-8') @ \$3.75 each	22.50
50	Tilia Pallida (8'-10') @ \$4.65 each	232.50
3	Lombards Poplar (5'-6') @ \$1.50 each	4.50
	TOTAL	\$ 1,556.15
<hr/>		

In 1965 the City of Fredericton purchased a Power-R-Stumper at a cost of \$5,746.16.

With the addition of this machine, 47 stumps were removed at various locations in the City at an expenditure of \$570.45 and was made up as follows:-

Labor	\$ 468.40
Machinery charges	164.00
Materials	<u>43.29</u>
Total Expenditure	\$ 675.69
Less Credits (Removal of Stumps and Rental on Stumper)	<u>103.24</u>
Net Expenditure	\$ 572.45

In 1967, Mr. David Urquhart was appointed Supervisor of Parks and Trees, responsible to the City Engineer. It is anticipated that with this addition to staff, that this branch of the Public Works Department will be more efficiently operated, with beneficial results in the beautification of the public parks and recreational areas of the City as well as improved tree care.

BACK DRAIN:-

The expenditure under this heading amounted to \$14.17 and was for general maintenance of the Drain.

SURVEYING:-

Under this heading, expenditures amounted to \$992.78 made up as follows:-

Labor	\$ 623.46
Materials	<u>369.32</u>
TOTAL	\$ 992.78

The labor charge of \$623.46 was for helpers with the Engineers during the course of their work during 1967, on other than programmed projects.

The material cost of \$369.32 was made up as follows:-

J. S. Neill Wholesale (varnish, crayons, nails, twine, tape, etc.)	\$ 52.65
Kelvin Hughes (Rental on Level)	120.75
C. W. Hall (Field Books)	17.17
John Trainor (Survey John Bidlake Property)	174.90
C. P. Express Co. (Return of Level to Kelvin Hughes)	<u>3.85</u>
TOTAL	\$ 369.32

SURFACE SEWERS:-

Expenditure \$ 1,090.95

The total expenditure is made up as follows:-

Labor	\$ 362.33
Hired Trucks	19.08
Machinery Charges	119.00
Materials	<u>590.54</u>
TOTAL	<u>\$ 1,090.95</u>

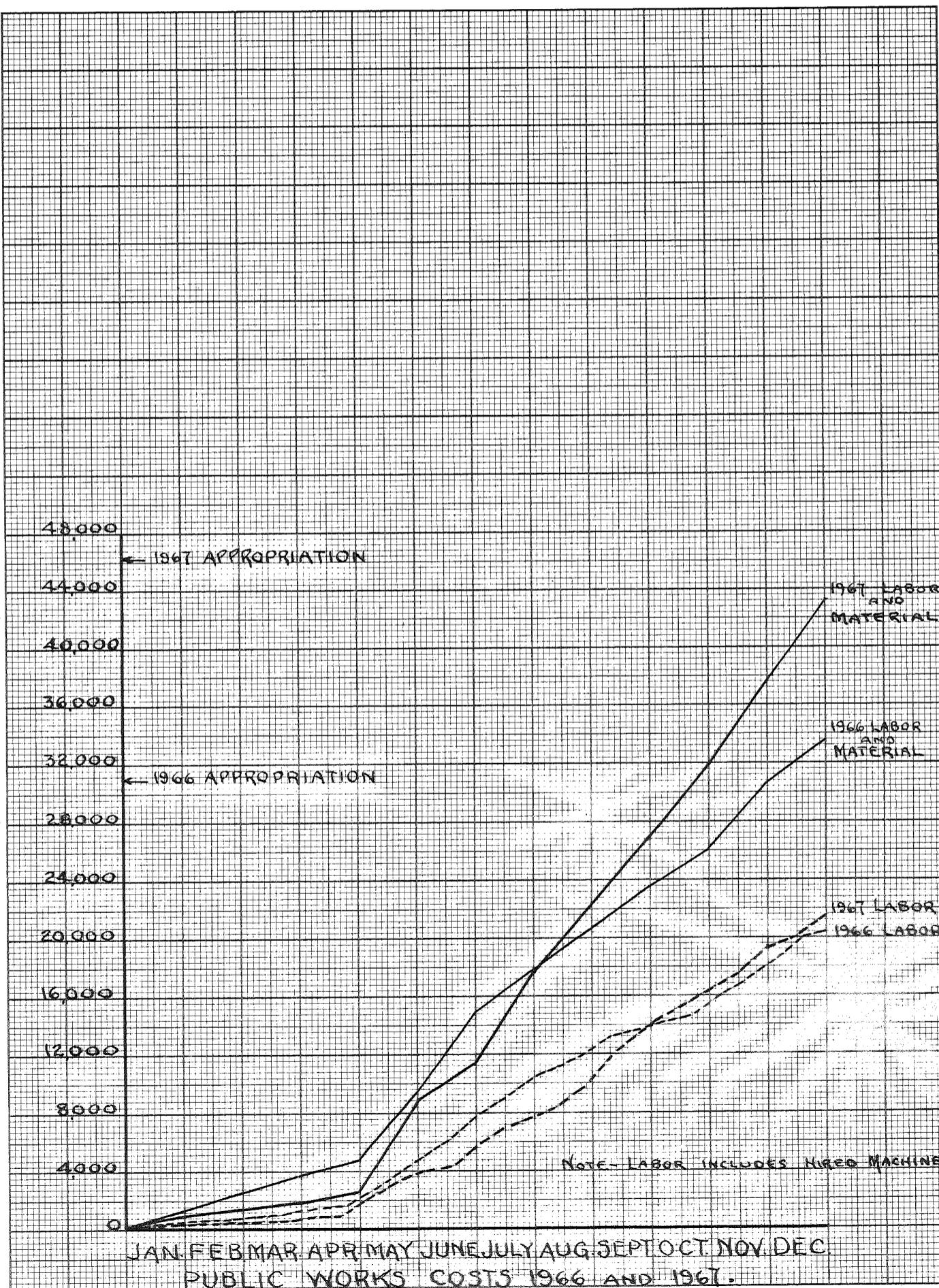
For the above expenditure Surface Sewer Mains were extended from existing locations to the St. John River due to extensions of fill being added to the River Bank for Parking Area. Extensions were made on Smythe Street, Court House Square, St. John Street and from a main situated between Smythe and Northumberland Streets.

UNFORSEEN ACCOUNT - LABOR AND HIRED TRUCKS:-

Removal of Christmas Trees from City Streets ...	\$ 277.95
Marking Domestic Sewer Outlet, St. John River ..	12.47
Drilling Course, sponsored by Rosser Sales	52.16
Benches (Painting and Repairs)	363.85
Greens (Cutting, raking, seeding, topsoil, etc.)	4,018.97
Removing Bus Shelter	53.75
Sir James Dunn Fountain	46.42
Civic Election	124.66
Taking of Inventory 1967	43.93
Cleaning Wharf	33.96
Armistice Stand	63.48
Clearing Rifle Range Road	<u>112.64</u>
TOTAL	<u>\$ 5,204.24</u>

The total expenditure amounted to \$16,638.88 and was made up as follows:-

Labor	\$ 4,825.74
Hired Trucks	378.50
City Machinery	689.00
Purchase of 25 Cement Benches @ \$32.00 each ..	800.00
Other Materials	<u>9,945.64</u>
TOTAL	<u>\$ 16,638.88</u>



CASUALS' VACATION PAY

The total amount under this heading was \$3,799.93 for Casual Labor Vacation Pay.

ODELL PARK

Gross Expenditure	\$ 11,149.90
Credit	<u>223.78</u>
Net Expenditure	\$ 10,926.12

The above credit is made up as follows:-

W. Wendell Thomas (Sale of 13.5 cords pulpwood @ \$5.00 per cord)	\$ 67.50
Government of Canada (Credit re Winter Works N.B.-53)....	80.28
Journal Voucher (Rental on Tractor to Public Works Department)	42.00
Journal Voucher (Rental on Tractor to Recreation Dept.)..	24.00
Journal Voucher (Incorrect entry)	<u>10.00</u>
TOTAL	\$ 223.78

The above expenditures are made up as follows:-

J. S. Neill Wholesale (Plastic pipe, paint, files, axes, etc.)	\$ 87.17
W. R. and W. W. Thomas (Topsoil and gravel)	1,353.80
Auto Machinery (Fan belts, seals, bearings)	31.06
N. B. Telephone Co. (Telephone)	57.15
Minister of Finance N.B. (1 vehicle registration)	2.00
Workmen's Compensation (Assessment for 1967)	200.00
Forbes and Sloat (Gravel)	389.38
Millar Motors (Purchase of lawn mower and repairs to mowers and chain saw)	125.82
Miles Tire Ltd. (Repairing tires on tractor)	10.00
Duke Lawn Equipment Co. (18 shims for Mott Mower)	5.53
Frank A. Blaney (Oil, filter and guard section c/w rivets)	33.28
Topmar Housing (Installing outside tap)	39.31
Atlas Building Supplies (Lumber for sign posts)	19.82
E. M. Young (Shovel, scrapers)	8.32
Moore Water Gardens (Various flowers for Pond)	47.25
Canadian Pacific Railway (Freight on flowers)	3.25
Scott's Nursery (Flowers)	193.50
Gould's Nursery (6 Water Plants)	27.00
Capital Garden Supplies (Grass seed and flower bulbs)....	125.00
Jardine Renovations (Making 9 boxes for Lily Pond)	38.36
Journal Voucher (Pension contributions)	287.94
Journal Voucher (Brick, cement, catch basin and signs)...	212.76
Journal Voucher (Gas, Oil, Diesel)	24.47
Journal Voucher (City Machinery)	939.50
Journal Voucher (Labor)	<u>6,888.23</u>
TOTAL	\$11,149.90

For the above expenditure, trees were cut and pruned where necessary, flower beds constructed and flowers planted, underbrush was cleared, paths were constructed and the grass was mowed.

The following was purchased under this heading:-

1 - Model 7217 Lawn Boy Mower	\$ 106.95
Less Discount	<u>10.70</u>
	\$ 96.25
Plus 6% Sales Tax	<u>5.78</u>
TOTAL	<u><u>\$ 102.03</u></u>

CARLETON PARK

Expenditure\$ 3,859.78

Neill's Wholesale (Paint, brushes, seythe stones, rose dust)	\$ 27.34
Marathon Realty (Park rental)	700.00
Capital Garden Supplies (Flower bulbs and tulips)	209.00
W. R. and W. W. Thomas (Topsoil)	95.20
E. M. Young (Paint)	19.74
Craig Electric (Repairs to mower)	19.34
John Gibson and Sons (Fertilizer)	60.50
H. S. Gill (Lumber for benches)	6.34
Journal Voucher (Rock dust and cedar posts)	15.52
Journal Voucher (Gas)	6.00
Journal Voucher (Pension contributions)	110.40
Journal Voucher (Machinery)	428.50
Journal Voucher (Labor)	<u>2,161.90</u>
TOTAL	<u><u>\$ 3,859.78</u></u>

WILMOT PARK

Gross Expenditure	\$ 7,936.68
Credits	<u>2,006.71</u>
Net Expenditure	<u><u>\$ 5,929.97</u></u>

The above credits are made up as follows:-

A. R. Menzies and Sons (Replacing posts)	\$ 8.84
Damage to Flowers	50.00
Journal Voucher (Credit re tree work)	<u>1,947.87</u>
TOTAL	<u><u>\$ 2,006.71</u></u>

The expenditure of \$7,936.68 is made up as follows:-

Materials used on Lawns and Flower Beds	\$ 164.21
Supplies and Repairs to Lawn Mowers	30.60
Material and Labor charges expended on Caretaker's House	118.12
Lighting Wilmot Park (14 - 4' Fluorescent Lamps)	840.00
Journal Voucher (Machinery)	769.00
Journal Voucher (Posts)	26.50
Journal Voucher (Oil)	3.85
Journal Voucher (Pension contributions)	194.99
Journal Voucher (Labor)	5,750.41
Journal Voucher (Water 1967)	30.00
Journal Voucher (Sewer rental 1967)	9.00
TOTAL	\$ 7,936.68

CLEARING PARK AREAS

Gross Expenditure	\$ 3,579.94
Credits	<u>185.07</u>
Net Expenditure	\$ 3,394.87

The above credits are made up as follows:-

Government of Canada (credit re Winter Works N.B.-51)	\$ 141.57
Journal Voucher (Cedar Posts)	<u>43.50</u>
TOTAL	\$ 185.07

For the above expenditure, pedestrian walkways were constructed in Skyline Acres Sub-division and in the Park Area of formerly Montgomery-Campbell property. Crusher dust was applied to the paths and topsoil added to the edges of the paths. The sidelines of the pathways were fenced where it was practical to do so.

RECREATION

Expenditure \$ 2,076.70

The above expenditure does not include all playground expenditure, but only those which appear on department payrolls or costs of materials ordered through the office of the City Engineer. The salaries of the Recreation Director and Playground Supervisors hired for the summer months are not in the above costs, nor does the cost of equipment on the playgrounds appear here.

The expenditure of \$2,076.70 is made up as follows:-

Journal Voucher (Gas and Oil)	\$ 249.77
Journal Voucher (Machinery)	496.00
Journal Voucher (Cedar poles, brooms)	33.64
Journal Voucher (Labor)	526.09
Journal Voucher (Water used in 1967 Swimming Pools)	500.00
Journal Voucher (Water used in 1967 Wading Pools)	250.00
Journal Voucher (Pension contributions)	21.20
TOTAL	\$ 2,076.70

The above labor and hired truck charges of \$526.09 are made up as follows:-

Outdoor Rinks	\$ 43.67
Playgrounds	459.23
Henry Park	10.92
Beaverbrook Rink	2.12
Coliseum	10.15
TOTAL	\$ 526.09

CITY HALL

Expenditure \$ 296.85

The above cost is of course, only the expenditure for the City Hall made through the office of the City Engineer and is not the total expenditure made on City Hall.

The expenditure of \$296.85 is made up as follows:-

Neill's Wholesale (Paint)	\$ 32.90
E. M. Young (Putty knives, scrapers, and brushes)	1.91
Journal Voucher (Machinery)	2.00
Journal Voucher (Labor)	163.52
Journal Voucher (Pension contributions)	6.52
Journal Voucher (Sprinkler charge 1967)	90.00
TOTAL	\$ 296.85

DOMESTIC SEWER

Labor Cost	\$ 15,053.20
Hired Trucks and Machinery Costs	415.46
City Machinery cost	6,317.75
Material cost	<u>11,709.11</u>
Gross Expenditure ...\$	33,495.52
Credit	<u>17,586.88</u>
Net Expenditure	\$ 15,908.64

The above credits are made up as follows:-

Material, Labor and Machinery supplied for house connections	\$ 16,656.24
Work done for Private Parties (cleaning floor drains and pumping out ducts)	563.42
Capital Garage (35# Sanfax @ 75¢)	26.25
C. P. Express (Claim for damages 4" Pipe)	24.50
Workmen's Compensation (cheque re Arnold Hubble)	109.52
Horsnell's Ltd. (60' - 4" A. C. pipe, 1 - 4" Adapter)...	26.90
Crowle Fittings Ltd. (Credit re charge on Federal Sales Tax)	6.05
Department of Fisheries (4 - 4" A.C. Adapters)	8.00
Journal Voucher (Sand)	7.00
Journal Voucher (Sewer rental, Fire Department)	150.00
Journal Voucher (Sewer rental, Wilmot Park)	9.00
TOTAL	\$ 17,586.88

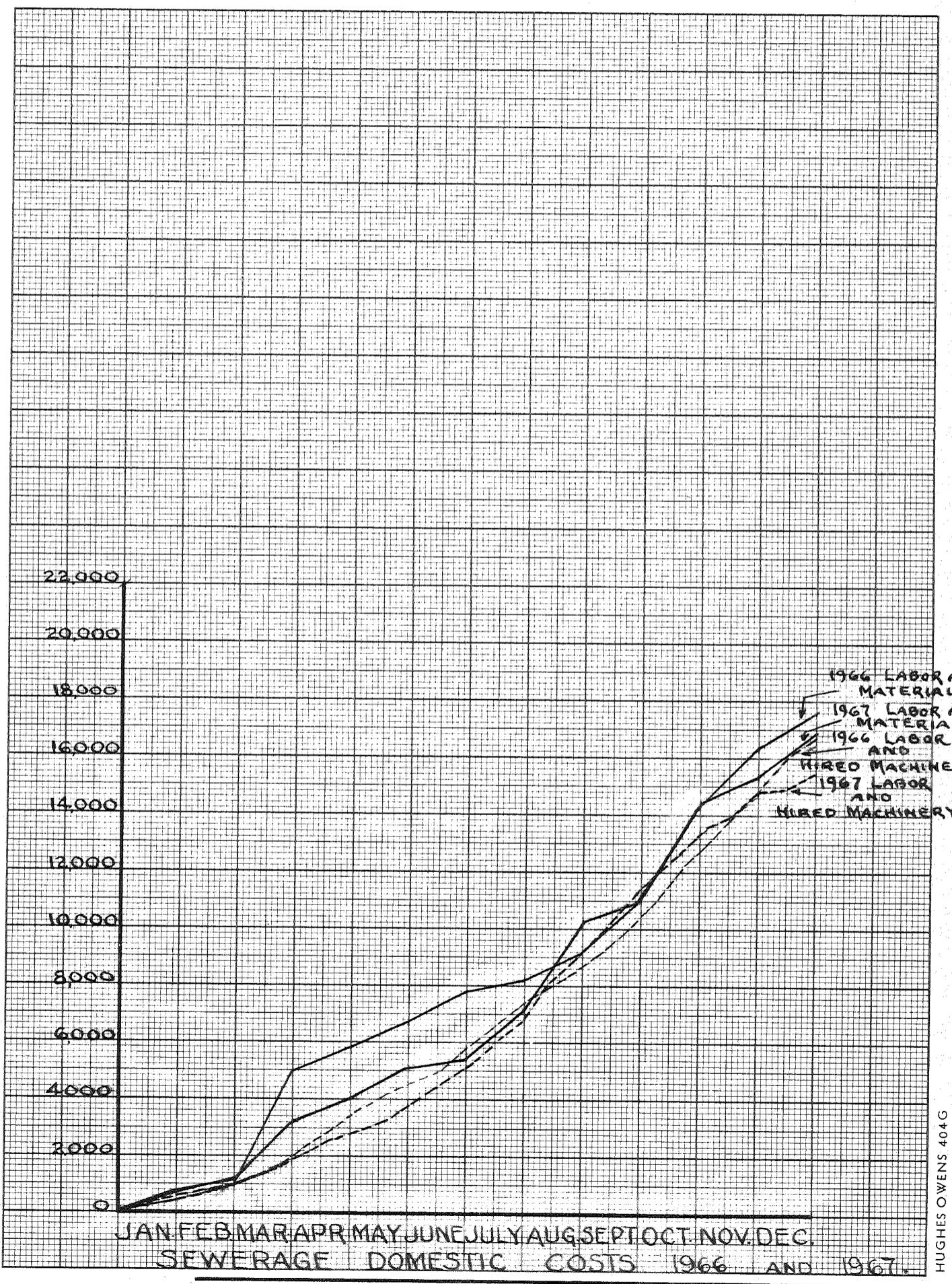
New customers connected to the City Sewer System in 1967 totalled 146.

No Domestic Sewer extensions were made under this heading but do appear under "Capital Account Sewer Domestic".

All Sewer Mains were cleaned and flushed in 1967.

The Fredericton Domestic Sewer System consists of 62.39 miles (12.46 miles in Carleton Ward and 49.93 miles in the City proper) of Sewer Mains and are made up as follows:

36" Armco Pipe	0.05 miles
36" Concrete Pipe	0.84 miles
30" Concrete Pipe	0.20 miles
24" Terra Cotta Pipe	0.54 miles
18" Terra Cotta Pipe	1.29 miles
15" Terra Cotta Pipe	1.63 miles
12" Terra Cotta Pipe	6.27 miles
10" Terra Cotta Pipe92 miles
8" Terra Cotta Pipe	<u>35.38</u> miles
Forward	47.12 miles



Carried Forward	47.12 miles
12" Transite Pipe	0.53 miles
12" Corrugated Iron Pipe	0.07 miles
10" Transite Pipe	1.38 miles
8" Transite Pipe	12.93 miles
8" Cast Iron Pipe	0.04 miles
6" Transite Pipe	0.02 miles
6" C. I. Force Main	<u>0.30</u> miles
TOTAL	62.39 miles
	<u> </u>

OLD BURIAL GROUND

The Old Burial Ground between Brunswick and George Streets were kept in good condition in 1967.

The tombstones that could be repaired and were not too seriously damaged by vandals were repaired. The grass was kept mowed and sodding and seeding was done where necessary. A bird bath, donated by the Kindness Club, was erected and connected to the water system.

Gross Expenditure	\$ 4,116.48
Credits	<u>710.31</u>
Net Expenditure	\$ 3,406.17
	<u> </u>

The above credits are made up as follows:-

Interest on Trust Fund and Bonds	\$ 338.99
Journal Voucher (Credit re tree work)	<u>371.32</u>
TOTAL	\$ 710.31
	<u> </u>

The expenditures on the Old Burial Ground were as follows:-

Maritime Electric Co. (6 Fluorescent Lights)	\$ 450.00
Maritime Accessories (Plug for mower)71
J. L. Simms (2 sheets 5/8" Underlay)	16.43
Neill's Wholesale (Paint, roofing, pipe, etc.)	60.65
L. E. Shaw (Blocks)	2.80
Battery and Electric (1 mower)	106.00
Simpson Sears Ltd. (Broom, pail)	7.18
Scott Concrete (1 bag Impact Cement)	4.24
Perley's B. A. Service (Oil and gasoline)	35.78
Journal Voucher (Materials, rock dust, cement, pipe)	51.94
Journal Voucher (City Machinery)	208.50
Journal Voucher (Pension contribution)	57.79
Journal Voucher (City Labor)	<u>3,114.46</u>
TOTAL	\$ 4,116.48
	<u> </u>

Purchased under this heading was the following:-

1 - Catalogue No. 6252 Commercial	
Mower	\$ 122.50
Less Trade in	<u>22.50</u>
	\$ 100.00
Plus 6% Sales Tax	<u>6.00</u>
TOTAL COST	\$ 106.00
	<u> </u>

FIRE DEPARTMENT

Expenditure\$ 58,662.71

Journal Voucher (2550.2 gallons gasoline)	\$ 586.50
Journal Voucher (480 hydrants - rental)	57,600.00
Journal Voucher (City Machinery)	6.00
Journal Voucher (Pension contributions)35
Journal Voucher (City labor)	19.86
Journal Voucher (Sewer Rental 1967)	150.00
Journal Voucher (Water consumption 1967)	300.00
TOTAL	\$58,662.71
	<u> </u>

CEMENT WALKS

Expenditure\$ 19,694.77

For the above expenditure, concrete sidewalks were laid at the following locations:-

<u>Location</u>	<u>Lineal Feet</u>
Massey Street, Lorne St. to Bessborough St. (north side)	854
Lorne Street, Bessborough St. to Massey St. (west side)	271
Liverpool St., Southampton Dr. to Vanier Highway (west side)	680
Canterbury Dr., Cambridge Cres. to existing (north side)	602
Waggoner's Lane, Rookwood Ave. to Senior Citizens (south)	1,205
York St., Mansfield St. to Lisgar St. (west side)	690
Irvine St., Existing east to existing west (north side)	1,315
Norfolk Drive, Liverpool St. to Bristol St. (east side)	458
Bristol Street (north side)	375
Smythe St., King's College Rd. to Lynhaven St. (east side)	810
Lynhaven St., Smythe St. towards east (north side)	463
Oxford St., Simcoe Court to Eglinton St. (north side) ..	537
Eglinton St., Oxford St. to Studholm St. (north side) ..	<u>384</u>
TOTAL	\$ 19,694.77
	<u> </u>

The cost of the above sidewalk is apportioned; one-half to the City and one-half to the property owner, except where Local Improvement agreements are in effect with the subdividers.

The concrete for the above construction of sidewalks was obtained from Elmtree Concrete Limited @ \$14.42 per cubic yard.

The property owner was charged \$1.14 per lineal foot which does not include Compensation, Pension Fund and Holiday Fund.

SANITATION

Gross Expenditure	\$ 123,230.51
Credit	<u>107.42</u>
Net Expenditure	<u>\$ 123,123.09</u>

The above credit is made up as follows:-

Journal Voucher (Rental on Flusher)	\$ 96.82
Journal Voucher (4 Brooms to Recreation Department)	<u>10.60</u>
TOTAL	<u>\$ 107.42</u>

Under the heading "Sanitation" the following projects are included:-

- 1) Garbage Collection
- 2) Sanitary Land Fill
- 3) Street Cleaning

1) Garbage Collection

The Garbage Collection was operated by the Capital Sanitation Company. The amount paid for this operation was \$50,800.65 in 1967.

2) Sanitary Land Fill

Expenditure\$ 14,701.66

The above expenditure is made up as follows:-

Daily Gleaner (Advertisement for garbage and landfill)....	\$ 147.84
Raymond Savage (Keys)	1.00
E. M. Young (Warfarin)	12.21
Journal Voucher (City Machinery)	754.00
Journal Voucher (Pension contributions)	59.20
Journal Voucher (City labor)	1,302.01
Journal Voucher (Diesel fuel)48
Shiretown Construction Company	<u>\$ 12,424.92</u>
TOTAL	<u>\$14,701.66</u>

In 1966 a five year contract for bulldozing services at the Sanitary Land Fill was awarded to Shiretown Construction Company at a cost of \$12,424.92 per year.

3) Street Cleaning

Gross Expenditure	\$ 57,728.20
Credits	<u>107.42</u>
Net Expenditure	\$ 57,620.78
	<u> </u>

The Gross Expenditure is made up as follows:-

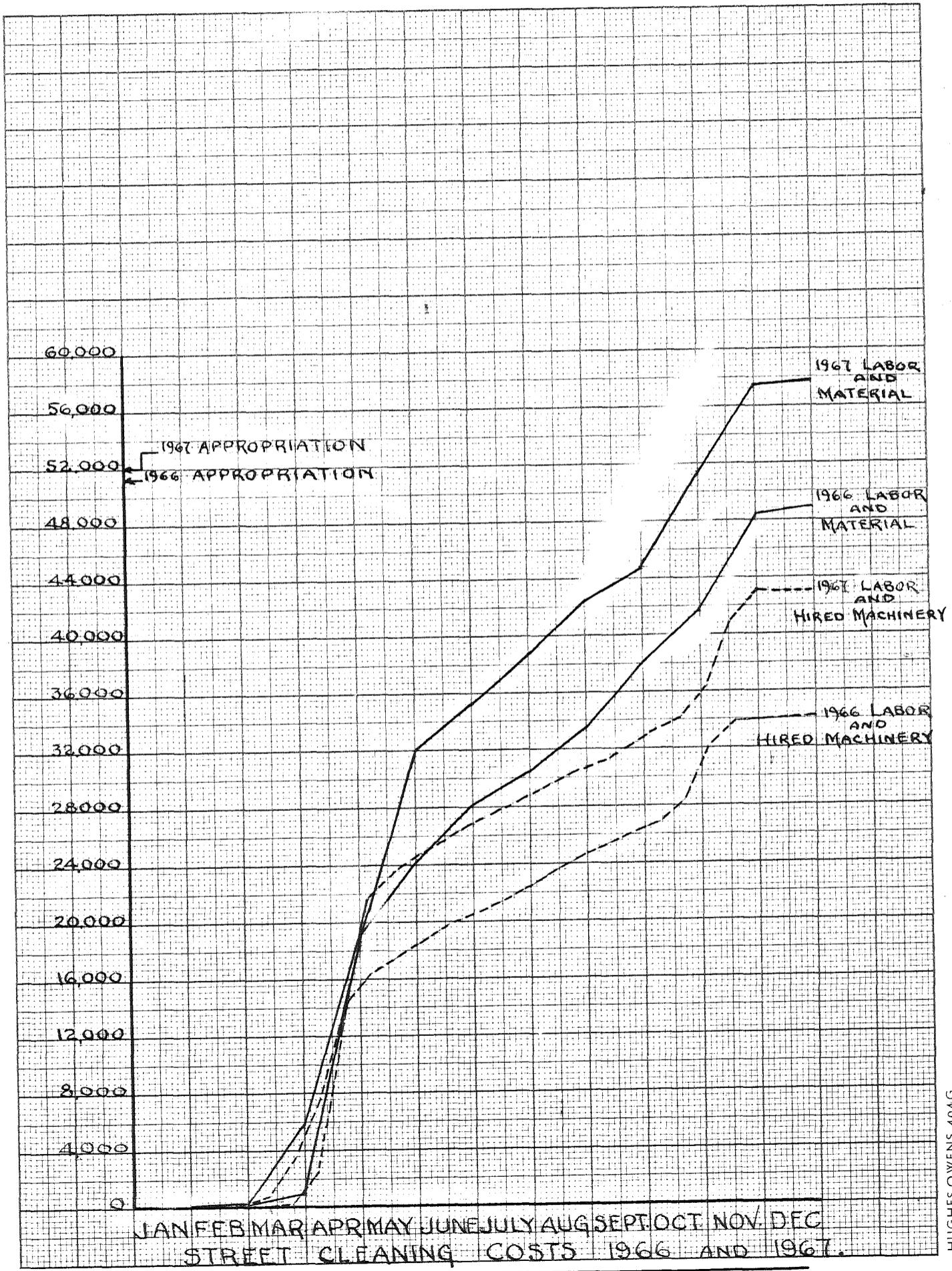
Labor	\$ 36,921.22
Hired Trucks & Machinery	6,253.94
City Machinery	4,200.00
Materials	<u>10,353.04</u>
TOTAL	\$ 57,728.20
	<u> </u>

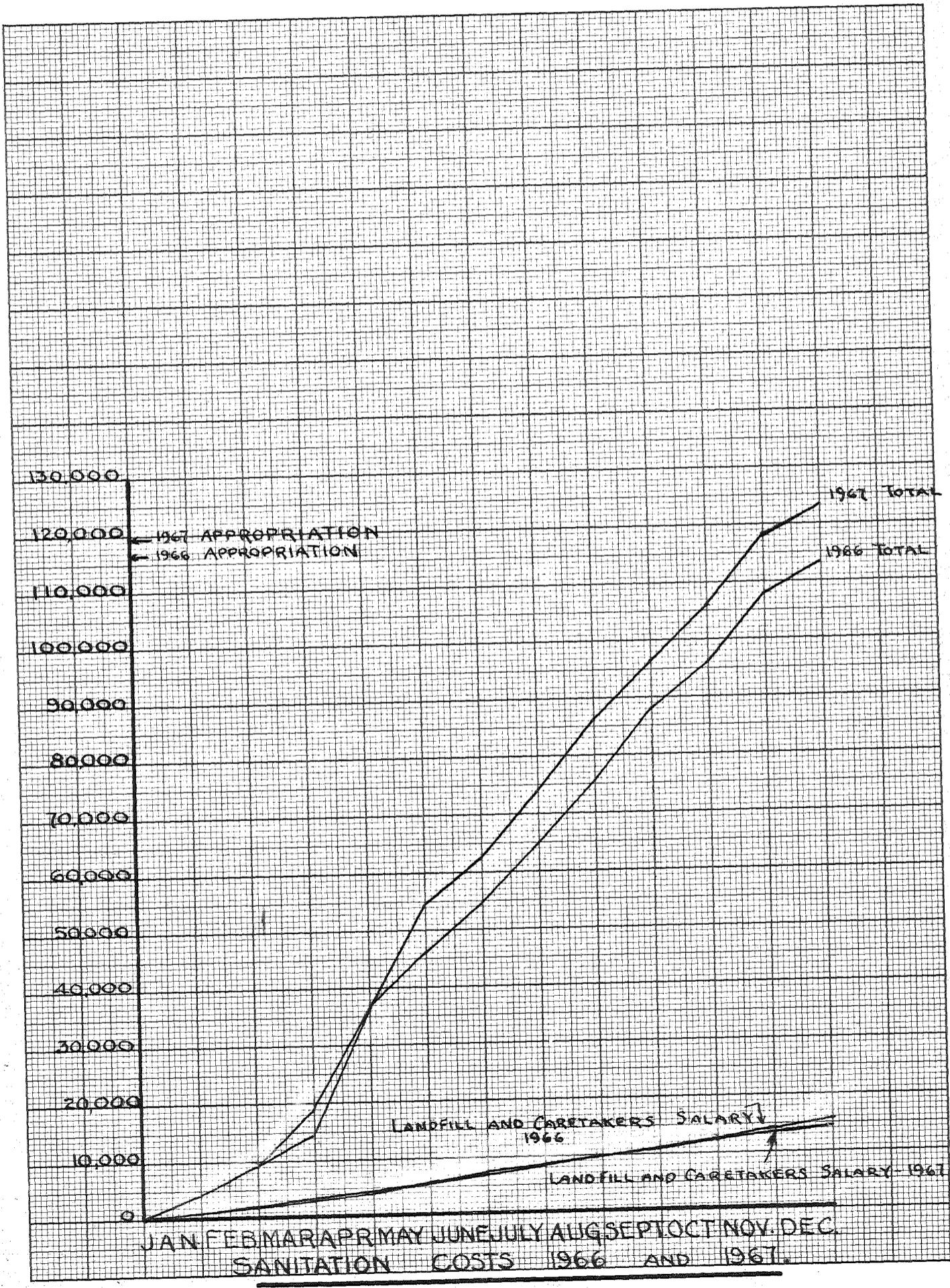
City Machinery and material charges amounted to \$14,553.04 and are made up as follows:-

Purchase of cans, hand brooms, shovels, rakes, forks, scrapers, repairs to carts, etc...\$ 1,252.73	
Main Broom Wire 2,344.42	
Gutter Broom Wire 659.00	
Labor and repair charges on 1960 Elgin Sweeper 2,750.11	
Labor and repair charges on Sicard Flusher 347.94	
Purchase of Hose, Millar Motors (2 x 50' lengths, 2½" Snakeskin Hose) 223.80	
Gas and Oil:- 4704.00 Gallons Gas# 1,081.93	
186 Quarts Oil 65.10	
17 Quarts Oil <u>14.96</u> 1,161.99	
Wilson and Cousins (Purchase of 2 - 2½ valve connections, including tax and express...) 128.27	
Journal Voucher (Machinery) 4,200.00	
Journal Voucher (Antifreeze - 8 Gallons) 20.32	
Journal Voucher (Pension contributions) 1,382.62	
Miscellaneous (Car Allowance, printing) <u>81.84</u>	
TOTAL \$ 14,553.04	
	<u> </u>

The Elgin Sweeper (purchased in 1960) worked 1105 hours. The actual cost for cleaning streets with this machine was \$8,911.67 and was calculated as follows:-

Labor and Repairs on 1960 Elgin Sweeper\$ 2,750.11	
Main Brooms 2,344.42	
Gutter Broom Wire 659.00	
Gasoline (1272.70 Gallons) 292.72	
Oil (47 Quarts, 17 quarts hydraulic) 31.41	
Antifreeze (2 Gallons) 5.08	
Water (375,700 Gallons) 202.25	
Insurance on 1960 Street Sweeper 58.00	
Labor (including Workmen's Compensation, Holiday and Pension Fund - Operator) <u>2,568.68</u>	
TOTAL \$ 8,911.67	
	<u> </u>





The operating dates for the above machine (Sweeper) were from April 17, 1967 to November 22, 1967.

In 1955 the City of Fredericton purchased a Sicard Master Flusher with a capacity of 2,150 Imperial Gallons. The price of this machine was \$19,435.00 and was paid for in 1956. The operating dates for the above mentioned machine (Flusher) were from April 20, 1967 to November 6, 1967.

The Flusher worked 969 hours. The actual cost for flushing streets with this machine was \$5,589.26 and was computed as follows:-

Labor and Repairs to Flusher	\$ 347.94
Gasoline (3431.30 Gallons)	789.20
Oil (139 Quarts)	48.65
Antifreeze (6 Gallons)	15.24
Water (4,360,500 Gallons)	2,194.75
Insurance on Flusher	60.00
Labor (including Workmen's Compensation, Holiday and Pension Fund - Operator)	<u>2,133.48</u>
TOTAL	<u>\$ 5,589.26</u>

The following is a list of machinery used in the Sanitation Department together with the repair costs, showing a comparison of costs for 1966 and 1967, including tires and tubes.

Name of Machine	Year Purchased	Repairs 1966	Repairs 1967
Elgin Street Sweeper	1960	\$ 2,572.57	\$ 2,750.11
Sicard Flusher (2250 I.G.)	1955	<u>2,022.54</u>	<u>347.94</u>
TOTALS =		<u>\$ 4,595.11</u>	<u>\$ 3,098.05</u>

ADMINISTRATION OF JUSTICE

Gross Expenditure	\$ 1,858.38
Credit	<u>187.86</u>
Net Expenditure	<u>\$ 1,670.52</u>

The above credit is made up as follows:-

Journal Voucher (signs for Odell Park)	\$ 39.43
Journal Voucher (painting lines - Campbell Street Parking Lot)	<u>148.43</u>
TOTAL	<u>\$ 187.86</u>

The above expenditure of \$1,858.38 is made up as follows:-

Journal Voucher (7547.9 Gallons gasoline)	\$ 1,736.03
Journal Voucher (151 Quarts Oil)	52.11
Journal Voucher (Decals, cement, crushed rock)	59.28
Journal Voucher (Pension contribution)53
Journal Voucher (Labor)	<u>10.43</u>
TOTAL	\$ 1,858.38

LOYALIST BURIAL GROUND

On the recommendations of the Park Committee of the Fredericton Town Planning Commission, the Loyalist Cemetery on the "Flats", adjacent to the back lots in Elmcroft Place, was improved in 1958.

In 1967 the upkeep expenditure amounted to \$82.79, made up as follows:-

Labor	\$ 37.87
City Machinery	44.00
Journal Voucher (Pension contributions)	<u>.92</u>
Total	\$ 82.79

This area continues to be of historic interest and is also a tourist attraction with pedestrian traffic only, from the Little League Ball Field on the "Flats" to the site.

J. T. CLARK MEMORIAL BUILDING

Expenditure\$ 683.01

The above expenditure was for extra help required due to absence of the Caretaker (Holidays and Sickness) and snowplowing and removal of snow at the rear of the J. T. Clark Library Building during winter months.

CONTINGENT

Expenditure \$ 5,370.14

The above expenditure is made up as follows:-

Labor	\$ 187.88
City Machinery	22.00
Materials	<u>5,160.26</u>
Total	\$ 5,370.14

The above labor charge was for cutting right-of-way for Power line for Maritime Electric Company, decorating Caretaker's House at Odell Park and cleaning streets due to Fredericton Centennial Parade.

The material charge of \$5,160.26 was made up as follows:-

Atlas Building Supplies (56' Dowelling)	\$ 11.28
Seaboard Surveys (Work re Hanwell Road subdivision)	37.24
Seaboard Surveys (re Lot #15 York Street)	131.20
Seaboard Surveys (surveying Regent Street, Campbell Street to MacLeod Avenue)	4,500.00
Seaboard Surveys (Surveying Lots #28 - 29, York Street)	51.35
Neill's Wholesale (Rabbit wire, 2# Nails)	1.16
Trainor Surveyors Ltd. (Plan of subdivision for exchange with Hill Bros. and preparing plan for Willingdon Street)	82.00
Seaboard Surveys Ltd. (Survey, posting and plans of lots on York Street)	335.82
Journal Voucher (Pension contribution)	<u>10.21</u>
TOTAL	\$ 5,160.26

MUNICIPAL PARKING LOTS

Expenditure \$ 8,935.62

Included under the above heading are the following:-

- 1) Municipal Parking Lot - Brunswick Street
- 2) Municipal Parking Lot - Campbell Street

1) Municipal Parking Lot - Brunswick Street

In 1958 the City of Fredericton constructed a Parking Area on the north side of Brunswick Street, between York Street and Carleton Street, just east of J. T. Clark and Sons property. (T. Eaton Company property).

In February 1967, Food City Limited (Sobeys) acquired the above property from T. Eaton Realty Company, thus cancelling the Brunswick Street Parking Lot operated by the City of Fredericton. At present the Parking Lot is being operated by Food City Limited (Sobeys).

The expenditure for the upkeep of the above Parking Lot from January 1, 1967 to May 31, 1967 as shown through the office of the City Engineer was \$851.38 and was made up as follows:-

Labor	\$ 137.74
Hired Truck and Machinery	413.00
City Machinery	292.00
Journal Voucher (Pension contributions)	<u>8.64</u>
TOTALS	\$ 851.38
	<u> </u>

2) Municipal Parking Lot - Campbell Street

In 1966 the City Council authorized the changing of the free parking area at the rear of the City Hall to a paid parking area, in order to give better parking facilities to the shopping public.

In 1966 a wooden fence was erected from the Fredericton Highway Bridge, west to near Phillips and Pringle Building, and a coin activated gate was installed to control the entrance and exit of vehicles to the Parking Lot.

In 1967 the wooden fence was painted, a coin activated gate controlling traffic to and from the Parking Area was completed, parking lines were painted and general maintenance carried out on this Parking Area. This Parking Lot was put in operation on January 5, 1967.

The 1967 expenditure for the above amounted to \$8,084.22 and was made up as follows:-

Neill's Wholesale (bolts, nuts, nails, metal letters, etc.)\$	25.22
H. S. Gill and Sons (Lumber)	41.62
J. L. Simms (Plywood)	34.60
Phillips and Pringle (wrench)	4.45
Horsnell's Ltd. (Welding on cash box)	10.00
E. M. Young (Paint and Brushes)	35.39
Cameron Grant Inc. (Coin rejector accumilator freight charge)	3.20
Cameron Grant Inc. (Progress payment on gates)	5,800.00
Cameron Grant Inc. (Spare cash box)	20.90
C. P. Express (Parts to Cameron Grant Inc.)	8.70
Stan Cassidy (Hooking up entrance gates, checking and repairing gates)	563.72
Auto Machinery (Grease gun and hose)	8.72
Journal Voucher (Lines painted by Police Department)	148.43
Journal Voucher (1 Cedar Pole)50
Journal Voucher (Hired trucks and machinery)	9.00
Journal Voucher (City labor)	858.45
Journal Voucher (Pension contribution)	35.32
Journal Voucher (City machinery)	476.00
TOTAL	\$8,084.22
	<u> </u>

The total expenditure for 1966 and 1967 on this Parking Lot amounted to \$13,360.93 and was made up as follows:-

Cameron Grant Inc. (5,000 Brass tokens)	\$ 994.47
Cameron Grant Inc. (Payment on Gates)	8,142.91
Atlantic Rentals (Rental on post hole digger)	32.96
H. S. Gill and Sons (Lumber, posts)	486.74
J. S. Neill & Sons Wholesale (Roofing nails, spikes, etc.)	35.39
Auto Machinery (Bolts, grease gun and hose)	10.94
J. L. Simms (Plywood)	34.60
Phillips and Pringle (Wrench)	4.45
Horsnell's Ltd. (Welding cash box)	10.00
E. M. Young (Paint and brushes)	35.39
Cameron Grant Inc. (Coin rejector accumulation freight charge)	3.20
Cameron Grant Inc. (Spare cash box)	20.90
C. P. Express (Parts to Cameron Grant Inc.)	8.70
Stan Cassidy (Hooking up entrance gates, checking and repairing gates)	563.72
Journal Voucher (Lines painted by Police Department)	148.43
Journal Voucher (1 Cedar Pole)50
Journal Voucher (Hired trucks and machinery)	17.00
Journal Voucher (City Labor)	1,663.31
Journal Voucher (Pension contributions)	35.32
Journal Voucher (City machinery)	1,112.00
TOTAL	<u>\$13,360.93</u>

TOURIST and INDUSTRY

Expenditure\$ 172.85

The above expenditure was for replacement bulbs, labor and lighting of two signs supplied by the "Tourist and Industrial Committee"; one placed at the junction of Woodstock Road and Golf Club Road, the other on the Lincoln Road near the City Limits.

The expenditure was made up as follows:-

Neill's Wholesale (12 - 150 Watt Bulbs)	\$ 3.65
Mr. Aubrey Owens (Labor on Centennial Float)	26.00
Maritime Electric Co. (Light bill)	103.02
Richards Electric (6 - 150 Watt Bulbs)	2.93
Journal Voucher (Pension contribution)	1.18
Journal Voucher (City Labor)	28.07
Journal Voucher (City Machinery)	8.00
TOTAL	<u>\$ 172.85</u>

YORK ARENA

The expenditure under this heading amounted to \$24.42 and was made up as follows:-

Journal Voucher (Sale of 17 gallons Varsol)	\$ 7.60
Journal Voucher (Labor and trucking)	<u>16.82</u>
TOTAL	\$ 24.42
	<u> </u>

CENTENNIAL COMMITTEE

Expenditure\$ 345.51

The above expenditure was for City Labor, Machinery and Materials for the Centennial Celebrations for 1967.

The above expenditure is made up as follows:-

Labor	\$ 226.79
City Machinery	48.00
Materials (Flags and Bunting)	63.52
Journal Voucher (Pension contributions) ...	<u>7.20</u>
TOTAL	\$ 345.51
	<u> </u>

BEAVERBROOK RINK

Expenditure\$ 1.00

The above expenditure was for the sale of one bag of salt to the Beaverbrook Rink.

STREET LIGHTS

The City Street Lighting System on December 31, 1967 consisted of:-

- 1 - A Series Lighting System on the south side of the Saint John River;
- 2 - A Multiple Lighting System on the south side of the Saint John River;
- 3 - A Multiple Lighting System in the C.N.R. Subway;
- 4 - A Series Lighting System in Carleton Ward;
- 5 - A Multiple Lighting System in Carleton Ward.

System #1

The Series Lighting System consists of some 18.48 miles of line and 72 lamps. This system is divided into two circuits; one of which is controlled by a 25 K.W. constant current transformer, the other by a 15 K.W. constant current transformer. One of these transformers along with the main switchboard is housed in a building on Carleton Street, south of Needham Street. The second transformer is on a pole situated on Regent Street, between King's College Road and Albert Street and controls the circuit for Maryland Heights.

The two circuits are made up as follows:-

<u>Upper Rear Circuit</u>	<u>Load</u>	<u>Transformer Size</u>
6 - 250 C. P. Lamps @ .160 K.W. demand	.96	
16 - Fluorescent Lamps @ .50 K.W. demand	<u>8.00</u>	
	8.96	25 K.W.

Maryland Heights

11 - 600 C.P.Lamps @ .350 demand	3.85	
39 - 250 C.P.Lamps @ .160 demand	6.24	
	<u>10.09</u>	15 K.W.

System #2 and #5

The Multiple Lighting System as of December 31, 1967 was as follows:-

254-500 Watt Incandescent Units @ \$60.00 per light per year
145 - 200 Watt Incandescent Units @ \$40.00 per light per year
141 - 400 Mercury Vapor Units @ \$90.00 per light per year
292 - 250 Mercury Vapor Units @ \$60.00 per light per year
186 - 4' Fluorescent Units @ \$60.00 per light per year
64 - 6' Fluorescent Units @ \$75.00 per light per year

Each of the units excepting the Fluorescents consists of either a 500, 400 Mercury, 250 Mercury or 200 Watt 150 Volt Lamp, set in a nouxalex luminar fixture and hung on a bracket attached to the pole. These units are controlled by a control switch, which is energized by the Series Lighting System. The System was installed and is maintained by the Maritime Electric Company; the City paying the Company \$60.00 per year for each 500 Watt Unit; \$40.00 per year for each 200 Watt Unit; \$90.00 per year for each 400 Mercury Vapor Lamp; \$60.00 per year for each 250 Mercury Vapor Lamp; \$60.00 per year for each 4' Fluorescent Lamp and \$75.00 per year for each 6' Fluorescent Lamp.

System #3

System #3 consists of 4 Multiple Lights, each of 150 Watt strength, located in the C.N.R. Subway. This system is also controlled by a control switch which is energized by the Series Lighting System.

System #4

System #4 is a Series Lighting System which had formerly been installed in the Town of Devon and consists of 8.59 miles of line and 181 lamps. The System originally comprised three circuits but in 1960 a new circuit was added due to the change from 2500 Lumen Series Lamps. The three former circuits are controlled by three 15 K.W. constant current transformers, located on a pole platform on Pine Street, while the new circuit is controlled by a 15 K.W. constant current transformer, situated on a pole on the Road leading from MacLaren Avenue to the Carleton Ward School.

The four circuits comprise the following:-

- | | | |
|-------------------------|---|---|
| Carleton Ward (Up) | - | mainly from Hughes Street west; |
| Carleton Ward (Central) | - | mainly between Hughes Street and Pine Street, including Dobie subdivision; |
| Carleton Ward (Down) | - | Pine Street east to Irving Oil Company premises and between the Canadian Pacific Railway tracks and Union Street; |
| Carleton Ward (Rear) | - | including Gibson Street from Devon Avenue to the City Line and the easterly extremities of the Dobie subdivision. |

<u>Carleton Ward (Up)</u>	<u>Load</u>	<u>Transformer Size</u>
2 - 600 C.P.Lamps @ .350 demand	.70	
39 - 250 C.P.Lamps @ .160 demand	6.24	
15 Fluorescent Lamps @ .50 demand	<u>7.50</u>	
	14.44	15 K.W.

<u>Carleton Ward (Central)</u>	<u>Load</u>	<u>Transformer Size</u>
1 - 600 C.P.Lamp @ .350 demand	.35	
44 - 250 C.P.Lamps @ .160 demand	7.04	
12 Fluorescent Lamps @ .50 demand	<u>6.00</u>	
	13.39	15 K.W.

<u>Carleton Ward (Down)</u>		
13 - 250 C.P.Lamps @ .160 demand	2.08	
14 - Fluorescent Lamps @ .50 demand	<u>7.00</u>	
	9.08	15 K.W.

<u>Carleton Ward (Rear)</u>		
1 - 600 C.P.Lamp @ .350 demand	.35	
19 - 250 C.P.Lamps @ .160 demand	3.04	
21 Fluorescent Lamps @ .50 demand	<u>10.50</u>	
	13.89	15 K.W.

All materials such as wire, poles, pole fixtures, lamps, lamp fixtures, transformers, etc. are paid for by the City, installed by the Maritime Electric Company under their contract price for maintenance. Any new installations that require an enlargement of circuits must be paid for by the City of Fredericton, including labor and material.

The Street Lighting costs for the year 1967 are as follows:-

Gross Expenditure	\$ 74,192.50
Credit	<u>175.00</u>
Net Expenditure	\$ 74,017.50
1967 Appropriation	<u>73,010.00</u>
Debit	<u><u>\$ 1,007.50</u></u>

The above credit of \$175.00 was for the amount received for damage to a light standard.

The Street Lighting expenditure of \$74,192.50 is made up as follows:-

Bulb Replacements

86 - F48T12/CW/HO Fluorescent Lamps ...	\$ 276.34
12 - F72T12/CW/HO Fluorescent Lamps ...	36.36
120-600 C.P.Series Lamps	131.99
358-250 C.P.Series Lamps	<u>230.22</u> \$ 675.02)

Power Costs for Subways and Series

Lighting December 31, 1966 to	
December 28, 1967 - 236,900 K.W.Hours	5,995.47)

<u>Maintenance and Contract of pole lines</u>	\$ 496.32)
<u>Maintenance of Lamp Fixtures</u> , including such articles as lamp standards, lamp brackets, heads, sockets, shades, cut-outs, line switches, etc.)
	304.74) Series
<u>Light Bill, Fredericton Highway Bridge</u>	631.44) Lighting
<u>Cenotaph, Light Bill</u>	146.58)
)
Charges on Multiple Fixtures, owned and operated by the Maritime Electric Company at \$40.00, \$60.00, \$75.00 and \$90.00 per light per year	65,304.48
Maintenance and Labor used in major repairs and new installations	<u>638.45</u>
TOTAL =	<u><u>\$ 74,192.50</u></u>

Total Cost of Series System ... \$ 8,249.57

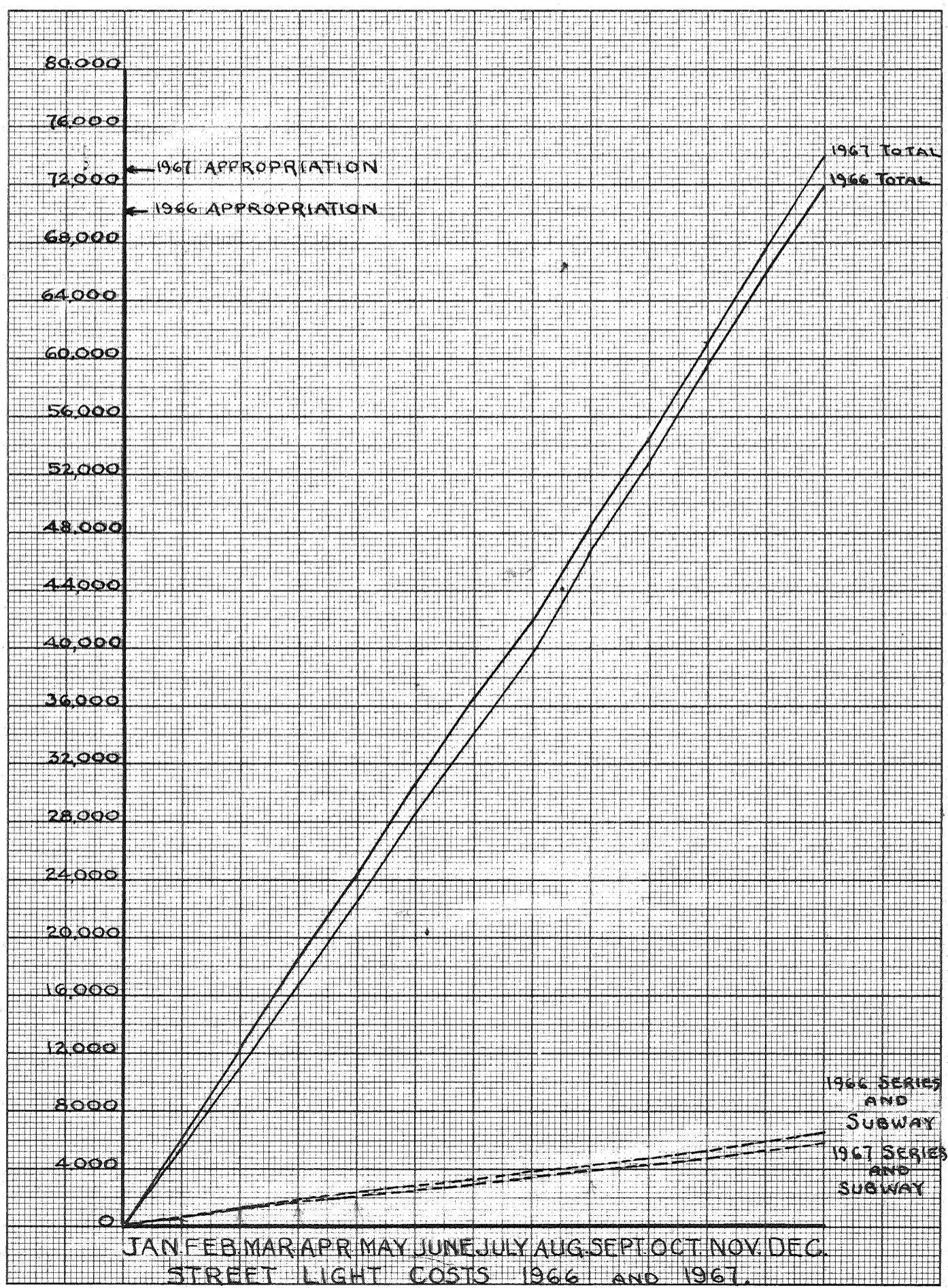
During the year 1967, various changes and extensions were made to the City of Fredericton Street Lighting System. These additions, transfers and removals are shown on a Map in the office of the City Engineer.

The total per capita charge for Street Lighting for 1967 population, 22,158 as per 1966 census is:-

$$\frac{74,192.50}{22,158} = \$ 3.35$$

TABLE SHOWING COMPARATIVE YEARLY COST IN STREET LIGHTING

<u>Year</u>	<u>Total Yearly Cost</u>	<u>Yearly Appropriation</u>
1953	\$ 25,487.71	\$ 27,000.00
1954	23,812.54	27,000.00
1955	28,542.77	27,000.00
1956	31,877.10	27,700.00
1957	33,101.56	29,000.00
1958	36,038.79	33,500.00
1959	39,907.64	37,500.00
1960	44,481.71	44,010.00
1961	46,835.74	46,965.00
1962	46,989.38	47,875.00
1963	52,400.10	51,975.00
1964	57,682.43	56,930.00
1965	63,526.25	62,874.90
1966	72,083.35	70,180.00
1967	74,017.50	73,010.00



WATER

There are two separate water systems in the City of Fredericton.

1 - During 1967 the south side of the Saint John River derived its water from three Gravel Wall Wells, located in Wilmot Park; namely, No. 1, No. 3 and No. 4 and from a Rock Wall Well in Cameron Court. The supply from this Well was turned into the system on June 7, 1967 and supplies approximately three quarters of the residences on Hanwell Road.

Number 2 Well on Saunders Street cannot be used in its present state because of prohibitive manganese content, which causes "Red" water and stains linens, etc. and is not acceptable as a Municipal supply.

2 - The water supply on the north side of the Saint John River is derived from three Wells; two of these Wells are outside the City limits and pump directly into the system and a 1,000,000 Gallon Reservoir. The third Well is located on Bridge Street. Bridge Street Well is on standby service only, due to the marginal chemical characteristics. The Range Well is no longer a source of supply; due to lack of recharge.

In 1964 a third Well was put in operation to correct the condition in the Carleton Ward Water Supply as explained in the 1963 annual report; namely, to ensure an ample supply of water for Carleton Ward which is chemically acceptable as a domestic supply.

Chlorine has been added to the Water in Carleton Ward since the reports from the City Analyst showed objectionable Coliform in the water. A liquid solution (HTH) is added at the Killarney Road Well.

The water costs for the City of Fredericton are divided as follows:-

- 1 - Water Ordinary
- 2 - Water Administration (Salaries of staff and office equipment)
- 3 - Hydrant Revenue
- 4 - Water Pumping Station

Gross Expenditure	\$ 209,847.80
Credits	<u>31,173.26</u>
Net Expenditure	\$ 178,674.54

This account includes all expenditures, other than Capital Expenditure for water, expenditures other than the Main Pumping Station, cost of supply from Wells and salaries and office equipment. These items will appear later under their various headings. Also included are all current Water Expenditures in Carleton Ward.

1 - Water Ordinary

The expenditure under this heading is made up as follows:-

Gross Expenditure	\$ 110,582.77
Credit	<u>16,920.80</u>
Net Expenditure	<u>\$ 93,661.97</u>

The credits are made up as follows:-

Work done and materials sold to private parties when installing a water service over ground other than City property or when the materials are used on parts of the system which do not belong to the City \$ 15,191.20
Thomas Transfer Co. Ltd. (Repairs to Hydrant) 51.96
Workmen's Compensation (A. Hubble salary) 109.51
Insurance Claim 31.50
Collection costs 9.50
Mr. Clifford Kitchen (Fittings) 14.21
Mr. Edward Perkins (Repairs to Hydrant) 54.27
Irving Oil Co. Ltd. (Repairs to Water Main, Union St.).. 51.39
Village of Barker's Point (Cutting water main) 13.56
University of N.B. (Tapping water mains and hydrant extension) 107.29
Power Bros. Ltd. (Cutting water main) 50.10
W. H. Reynolds and Son Ltd. (Fittings) 1.62
Nashwaaksis Local Improvement (Pipe and repair sleeve).. 45.15
Journal Voucher (Materials) 19.54
Journal Voucher (Water supplied to City owned buildings, swimming pools and wading pools) 1,170.00
TOTAL \$ 16,920.80

The Gross Expenditure is made up as follows:-

City Payroll for Hydrants	\$ 4,487.91
City Payroll for Meters	7,622.74
City Payroll for Water Ordinary	25,434.87
City Payroll for Carleton Ward Pumping Station	2,063.59
City Payroll for Lincoln Road Pumping Station	468.08
City Payroll for Smythe Street (Booster Station)	491.87
City Payroll for Montgomery Street (Booster Station) ...	<u>461.87</u>
Total Payroll	\$ 41,030.93
Materials and other charges	<u>69,551.84</u>
GROSS EXPENDITURE	<u>\$ 110,582.77</u>

No water extensions were laid under this heading in 1967. They appear under "Capital Account Water".

No Sprinkler Systems were installed in 1967.

There are at present 71 Sprinkler Systems in the City. The City charge for Water supplied for Sprinkler Systems was \$120.00 per year in 1967.

Hydrants

There are in the City, 489 hydrants; 381 on the south side of the Saint John River and 108 on the north side.

The hydrant rental on the above hydrants amounted to \$57,600 which will appear in this report later and is not included in credits to Water Ordinary.

Hydrants were installed at the following locations:-

<u>Location</u>	<u>Number</u>
Southampton Drive	1
Priestman Street	1
Oxford Street	1
Willingdon Street	3
Prospect Street	3

Meters

On December 31, 1967 there were 4,582 services on Meter and 405 services on Flat Rate, making a total of 4,987.

The labor cost per meter for installing, reading, repairing, etc. is \$1.66 for 1967.

214 Meters were installed in 1967.

In 1967, 26 discontinued services were dug out and shut off at the main.

In 1967 all meters were read three times and bills were sent out three times during the year. 250 Meters are read once a month although they are billed four times a year. These are consumers who ordinarily have large consumption and where a stopped meter or meter digit, turned over without being noticed, would mean a considerable loss of revenue to the City. All meters on Military Buildings are included in the group of monthly meter readings.

Meters in stock, December 31, 1967:-

5/8" Meters - repaired and fit for service	62
1/2" Meters - repaired and fit for service	6
3/4" Meters - repaired and fit for service	1
1" Meters - repaired and fit for service	1
1 1/4" Meters - repaired and fit for service	2
New 5/8" Meters	38
New 1" Meters	5
New 1 1/2" Meters	4
New 2" Meters	3
New 3" Meters	1

Distribution System

New Services installed in 1967	145
Old Services relayed in 1967	21
Frozen Services that had to be thawed	21

The Fredericton distribution system consists of 65.10 miles of Water Main made up as follows:-

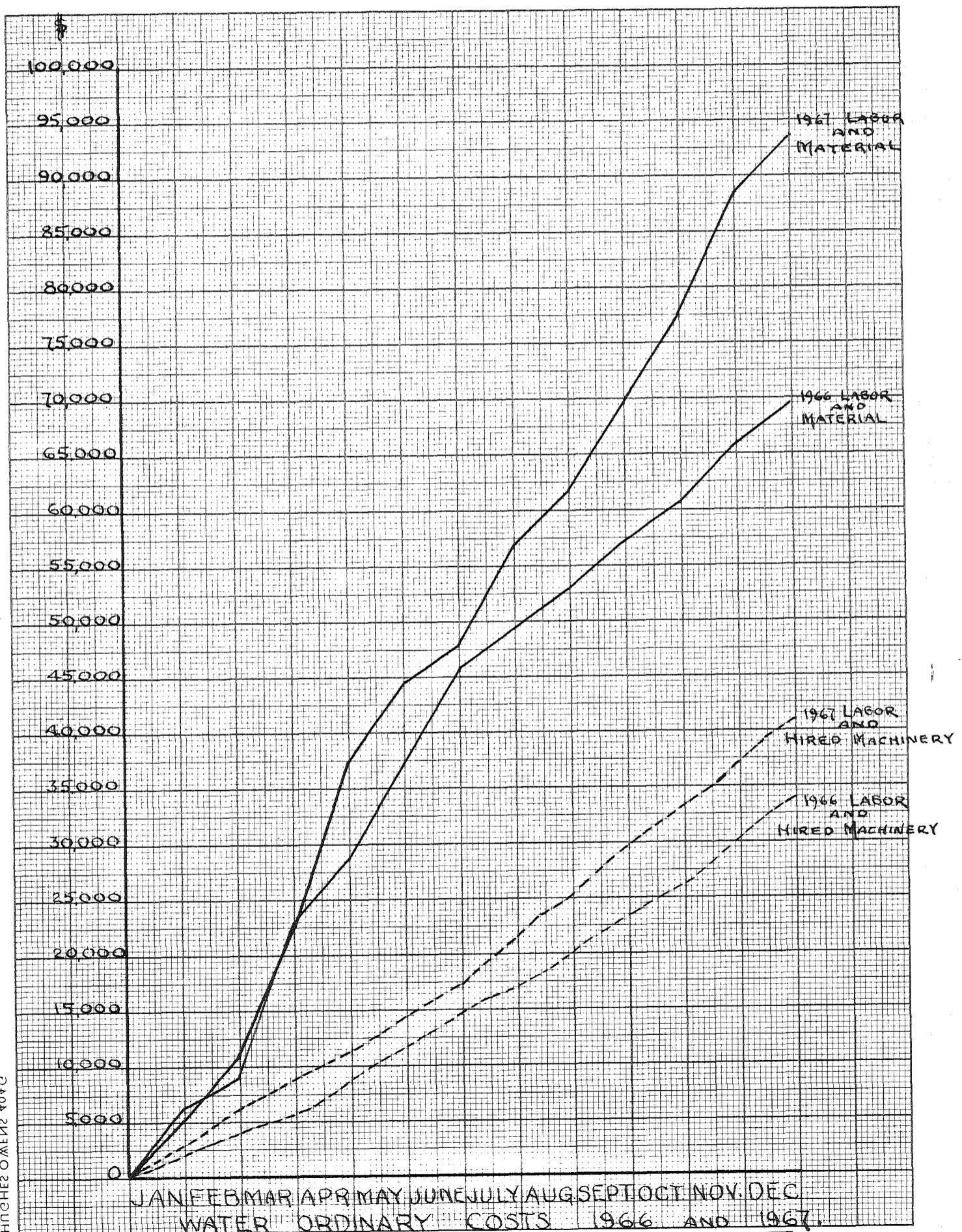
18" Main	0.98 miles
14" Main	0.33 miles
12" Main	5.45 miles
10" Main	6.71 miles
8" Main	15.79 miles
6" Main	29.73 miles
4" Main	5.84 miles
3" Main	<u>0.27</u> miles
TOTAL	<u>65.10</u> miles

This does not include the water mains installed by the National Defence at the Exhibition Grounds, University of New Brunswick, St. Thomas College and Teachers' College, and St. Anne's Point Barracks (so-called) on Woodstock Road.

The supply system consists of 0.36 miles of 14" Cast Iron Pipe, extending from the Well site at Wilmot Park to the Pumping Station and 0.10 miles of 15" Steel Pipe extending from the Intake Pier in the Saint John River to the Pumping Station. This latter supply has not been used in the City Water Mains since 1957.

Also included in the above expenditure was the purchase of the following meters from Neptune Meters Limited and Rockwell Manufacturing Company:-

- 1 - 4" Trident Compound, cold water meter, flanged, straight reading, imperial gallons, complete with companion flanges included.
- 2 - 3" Scaled Register Compound, cold water meter, flanged, straight reading, imperial gallons, complete with companion flanges included.
- 3 - 2" Scaled Register, water meters, imperial gallons, complete with screwed connections.
- 200 - 5/8" x 3/4" Trident seal, frost proof, cold water meters, straight reading, imperial gallons, complete with couplings.



Following is the list of vehicles used and charged to "Water Ordinary" showing a comparison of repair charges for 1966 and 1967, including tires and tubes.

<u>Name of Vehicle</u>	<u>Year Purchased</u>	<u>Repairs 1966</u>	<u>Repairs 1967</u>
Chevrolet ½ ton #5 (Traded in 1967)	1963	\$ 203.24	215.94
Dodge ½ ton #5	1967	-----	61.83
Chevrolet ½ ton #2	1964	685.09	693.97
Chevrolet ½ ton #32 (Traded in 1966)	1959	18.66	-----
Ford ½ ton #32	1966	49.64	12.90
TOTALS		\$ 956.63	984.64

The following truck was purchased this year and charged to Water Ordinary:-

1 - 1967 Dodge ½ ton, 6 cylinder, 128"	
wheel base, serial no. D1B2988305	\$ 3,235.00
Less Trade in 1963 Chevrolet ½ ton ..	<u>1,500.00</u>
	\$ 1,735.00
6% Sales Tax	<u>104.10</u>
TOTAL	\$ 1,839.10

2 - Water Administration (Salaries and Office Equipment)

Gross Expenditure	\$ 46,136.17
Credit	<u>13,873.00</u>
Net Expenditure	\$ 32,263.17

The above credits were made up of Journal Vouchers for portions of L. E. Keenan, E. L. Coy, L. P. McNeill and D. Urquharts salaries.

The salaries for water administration (office staff) amounted to \$26,419.04.

Expenditure for Office Rental and Equipment was \$5,844.13 and was made up as follows:-

Burrough Business Machine (repairs and ribbon)	\$ 45.36
Covey the Stationer (2 rubber stamps)	2.65
C. W. Hall & Co. (ribbons, ledger sheets, file boards and punch)	20.89
Unipress (Printing water and sewer statements, envelopes, etc.)	429.31
Addressograph Multigraph Ltd. (5000 top plates)	41.34
C. P. Express Co. (Express on plates)	3.25
Daily Gleaner (advertising for male clerk)	33.60
R. L. Crain (Printing and supplying forms)	190.25
Fraser H. Hazlett (printing and supplying cards)	141.12
Pitney Bowes Ltd. (Rental on postage machine)	136.36
Journal Voucher (office rent for 1967)	4,800.00
TOTAL	\$ 5,844.13

3 - Hydrant Revenue

Hydrant revenue amounting to \$57,600.00 was rental on hydrants in the City of Fredericton, charged to the Fire Department at \$120.00 per hydrant per year.

In addition there are 11 private hydrants and the revenue on these amounted to \$2,400.00, thus making the total Hydrant Revenue \$60,060.00.

4 - Water Pumping Station

Gross Expenditure	\$ 53,128.86
Credit	<u>379.46</u>
Net Expenditure	\$ 52,749.40

The above credit of \$379.46 was for payment to the City for damages to Aerators at the Pumping Station by Mr. William Simms.

The above expenditure is divided as follows:-

City Payrolls for salaries of employees at Pumping Station	\$ 24,074.10
Work done by City employees in and around the Pumping Station	57.24
Material Charges	<u>28,618.06</u>
TOTAL	\$ 52,749.40

The material cost of \$28,618.06 is itemized as follows:-

Item 1 - Light and power supplied by Maritime Electric Company (719,400 K.W.Hrs.)	\$ 13,567.57
Item 2 - Light and power supplied by Maritime Electric Co. at Wells in the Park and Cameron Court	7,645.89
Item 3 - Heating (3961.7 Gallons)	539.84
Item 4 - Diesel Fuel (3000 Gallons)	447.00
Item 5 - Liquid Chlorine (900#)	131.85
Item 6 - Oil (6 Gallons H.D.40, 45 Gallons Esstic 43, 45 Gallons Mobil F.A, 6 Gallons H.D.10)	128.66
Item 7 - Maintenance and repairs to buildings and equipment	1,296.71
Item 8 - Supplies, packing rags, lamps, tools, etc...	513.03
Item 9 - Stationery forms, charts, chemicals, ink,etc.	183.49
Item 10 - Workmen's Compensation	625.00
Item 11 - E. W. Hagerman (City Analyst Salary) Journal Voucher (Gas, Oil and Varsol) Journal Voucher (Salt) Miscellaneous (Telephone, uniforms, pension contributions, etc.)	1,800.00 7.36 2.00 <u>1,729.66</u>
TOTAL	\$ 28,618.06

Following is a further explanation of some of the above items:-

Item 3 - Heating

Following is the yearly consumption and costs of heating at the Fredericton Pumping Station Plant for the last ten years:-

<u>Year</u>	<u>Gallons</u> <u>Furnace Oil</u>	<u>Cost</u>
1958	4,513.4	\$ 766.10
1959	6,110.8	1,005.50
1960	6,165.5	1,012.19
1961	4,513.8	709.01
1962	5,079.1	763.10
1963	5,592.8	822.48
1964	5,355.4	762.55
1965	5,067.2	707.75
1966	5,583.1	769.80
1967	3,961.7	539.84

Item 7 - Maintenance and Repairs

In reference to Item #7, the following is included:-

- 1) Painted Filter Room and cleaned all Filters
- 2) Repaired fire fence outside building
- 3) Painted outside of Well House at Pumping Station
- 4) Painted buildings housing Aerators
- 5) Painted floors of all Pump Houses in Wilmot Park

The Pumping Station Plant at the present time has all the Wells operating automatically on demand with the exception of the Cameron Court Well which is operated manually. The Saint John River supply operates manually and the supply must pass through the Filter Plant for purification. This supply will only be used in an emergency, that is, when the Wells are not operating due to failure, etc. or when the demand for water is higher than the Wells can produce or during a prolonged electrical interruption, probably longer than 24 hours.

During a 24-hour interruption, the 2,000,000 Imperial Gallon Reservoir will supply the system unless there is a serious break or a fire, when a high consumption of water is required.

COMPARISON OF WATER PUMPED AND COSTS
FOR SOUTH SIDE OF RIVER
FOR LAST NINETEEN YEARS

<u>Year</u>	<u>Imperial Gallons Produced</u>	<u>Production Expenditures</u>	<u>Production Costs per 1,000 Gallons</u>
1949	345,320,000	30,513.39	9.8 cents
1950	372,412,000	44,548.09	11.9 cents
1951	367,130,000	35,058.09	9.5 cents
1952	339,330,000	40,476.10	11.9 cents
1953	351,310,000	36,179.74	10.3 cents
1954	388,540,000	40,403.81	10.4 cents
1955	376,591,000	48,063.07	12.7 cents
1956	448,096,000 (13 Months)	41,351.18	9.2 cents
1957	469,185,000	42,465.50	9.0 cents
1958	454,765,000	42,888.56	9.4 cents
1959	487,704,000	47,923.19	9.8 cents
1960	520,081,000	50,280.09	9.6 cents
1961	510,250,000	45,081.88	8.8 cents
1962	499,880,000	48,298.53	9.7 cents
1963	519,168,000	48,441.10	9.3 cents
1964	544,650,000	52,431.23	9.6 cents
1965	605,170,000	50,915.76	8.4 cents
1966	634,501,000	50,519.49	8.0 cents
1967	668,514,000	52,749.40	7.9 cents

The columns in the preceding comparison, showing Imperial Gallons produced does not include water used from Wells in Carleton Ward.

The total water consumption of Wells in Carleton Ward for 1967 was 133,039,520 Gallons.

The total amount of water pumped from January 1, 1967 to December 31, 1967 therefore, for the whole City, is 801,553,920 Imperial Gallons.

The total net water expenditure (operating) for the City from January 1, 1967 to December 31, 1967 is \$146,411.37.

Therefore the net cost to pump and deliver to the customer 1,000 Imperial Gallons of water, from January 1, 1967 to December 31, 1967 is $\frac{146,411}{801,553} = 18.3$ cents.

All the preceding costs shown under "Water Pumping Station" and "Water Ordinary" do not include bond payments or sinking fund charges.

The cost of 1,000 Gallons of water delivered, including principal and interest, was as follows:-

WATER and SEWER REVENUE 1967

<u>Revenue</u>	<u>Expenditure</u>
Hydrant Revenue \$ 60,060.00	Water Ordinary \$178,674.54
Water & Sewer	
Revenue 437,087.32	Domestic Sewer 15,908.63
	Principal & Int. 204,763.24
<u>\$497,147.32</u>	<u>\$399,346.41</u>

Total cost of Water per thousand gallons:-

$$\frac{373,437.78}{801,553} = \frac{47.8}{46.6} \text{ cents}$$

Principal and Interest Costs:-

$$\frac{204,763.24}{801,553} = 25.5 \text{ cents/1,000 I.G.}$$

Administration and Operating Costs:-

$$\frac{178,674.54}{801,553} = 22.3 \text{ cents/1,000 I.G.}$$

The Water Pumping Station was under the supervision of Plant Superintendent, Mr. George Clark.

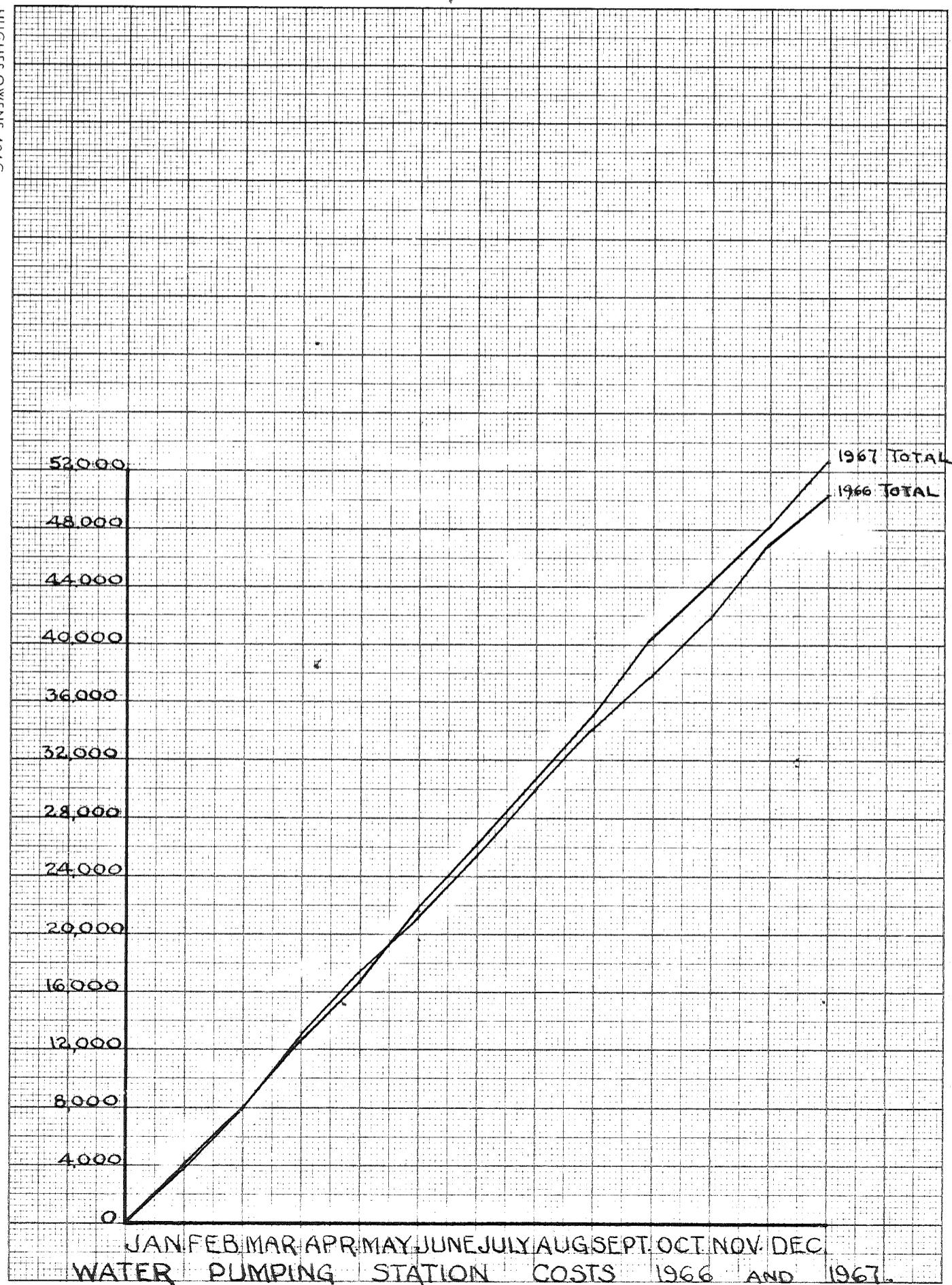
Accompanying this report is the report of Mr. E. W. Hagerman, City Analyst, on the Fredericton Water Supply from January 1, 1967 to December 31, 1967.

Respectfully submitted,

W. L. Barrett

City Engineer.

HUGHES OWENS 404G



FREDERICTON WATER SUPPLY

Year 1967

January 1st to December 31st

Fredericton's water supply for 1967 was all taken from Wells, three on the north and four on the south sides of the river. Wells have been the source of supply since July 29, 1955. The old filter plant did supply a small quantity to supplement the Well in the summer of 1957. Since this date filtered water has not been used; the filter plant serving as an emergency standby only.

A small quantity of chlorine is added to the almost sterile Well water giving it a free chlorine residual of 0.1 to 0.15 parts per million as it enters the mains. A like amount is added to the Carleton Ward supply at the Killarney Road Well.

These residuals do not persist to the ends of the systems, disappearing proportionately, more or less, as the distance from the center of application increases.

New sections of pipe are sterilized locally as laid but occasionally an organism escapes this treatment. Without residual chlorine present it reproduces itself in the area and a positive test results as on November 6th at 105 Prospect Street, a new development. Local chlorination quickly sterilized the area.

Bacteriological tests were made on the new Hanwell Well throughout its development. From May to July results were negative but in August positives appeared. Continuous chlorination was installed on August 8th.

The hardness of the water from the south side supply is about 90 parts per million (6 - 7 grains per gallon) as calcium carbonate while that of Carleton Ward is higher varying around 120 parts per million (8 - 9 grains per gallon). The variation in hardness depends on the combination of Wells in use.

Manganese causes purple stains in laundry and brown stains on plumbing. It is present in our Wells in very small quantities varying from .02 to .04 parts per million, too little to require removal. Iron is present in still smaller quantities.

Seventy samples were collected from various parts of the City for bacteriological examination. From each sample, 5 - 10 cc. portions are put on test, making 350 portions tested during the year.

Attached is a condensed version of the United States Treasury Standards specifications for potable water, applicable to Fredericton. A list of stations showing date and where the samples were taken is also included.

February 7, 1968.

(Signed) E. W. Hagerman
City Analyst.

EXTRACTS FROM UNITED STATES TREASURY STANDARDS
APPLICABLE TO FREDERICTON WATER SUPPLY

- 1 - A sample of one hundred cubic centimeters (cc.) is collected;
- 2 - Five 10 cc. portions of the collected sample are tested;
- 3 - The confirmed test is used to show presence or absence of the Coliform Group;
- 4 - The Primary media is Lactose Broth and the Confirmatory media is 2% Brilliant Green Bile.

Application of Test

- 1 - Of all the 10 cc. portions examined per month, not more than 10% shall show positive.
- 2 - When less than 20 samples per month are examined, one sample may have 3 positive portions.
- 3 - Using a standard sample of 5 portions provides for an estimation of the Most Probable Number (M.P.N.) of Coliform bacteria per 100 cc. of sample as shown in the table below.

<u>Negative</u>	<u>Positive</u>	<u>When five 10 cc. portions are tested</u>
5	0	Less than 2.2 per 100 is the M.P.N.
4	1	2.2 per 100 is the M.P.N.
3	2	5.1 per 100 is the M.P.N.
2	3	9.2 per 100 is the M.P.N.
1	4	16 per 100 is the M.P.N.
0	5	More than 16 per 100 is the M.P.N.

Following is a list of sampling points used in
1967:-

<u>DATE OF SAMPLE</u>	<u>ORIGIN OF SAMPLE</u>	<u>POSITIVE RESULTS ONLY WILL BE NOTED ALL OTHERS ARE O. K.</u>
January 5	Boat Club Service Station	
14	99 Smith Street, Carleton Ward	
18	377 Gibson St., Carleton Ward	
21	U.N.B. Engineering Building	
26	Greer and Lawson, 377 Gibson St.	
February 4	U.N.B. Engineering Building	
9	MacLaren Avenue Fire Station	
17	Fire Station, College Hill Rd.	
21	York Structural Steel, Lincoln	
March 8	99 Smith St., Carleton Ward	
22	York Structural Steel, Lincoln	
29	377 Gibson St., Carleton Ward	
April 3	99 Smith St., Carleton Ward	
10	Beaverbrook Hotel	
18	Eastern Bakery, Smythe Street	
27	Union Motors, Union Street Carleton Ward	
May 5	99 Smith St., Carleton Ward	
11	99 Smith St., Carleton Ward	
20	F'ton Pony Club, Odell Park	
24	MacLaren Ave. Fire Station	
30	Hanwell Road Pump - To Waste, No Chlorine	
June 2	Hanwell Road Pump - To Waste, No Chlorine	
5	99 Smith St., Carleton Ward	
12	MacLaren Avenue Fire Station, Carleton Ward	
21	Union Motors, Union Street, Carleton Ward	
26	Boat Club Service Station	
July 6	Hanwell Well into system, No Chlorine	
10	Rural Cemetery Extension	
17	Hanwell Road Well into system, No Chlorine	
21	Raw Wells - Odell Park	
27	161 Henry St., Carleton Ward	
August 2	377 Gibson St., Carleton Ward	
3	Hanwell Well -	2 Plus
5	682 Hanwell Road	Chlorine Added
5	Hanwell Well	5 Plus
7	510 Hanwell Road	O. K.
7	Hanwell Well	2 Plus
8	Hanwell Reservoir	5 plus
10	Hanwell Well - O.K., Continuous Chlorination	
16	Boat Club Service Station	
20	Hanwell Well	O.K.
20	MacLaren Ave. Fire Station	

DATE OF
SAMPLEORIGIN OF SAMPLE

POSITIVE RESULTS ONLY
WILL BE NOTED
ALL OTHERS ARE O. K.

Sept. 1	Greer & Lawson, Gibson St.	
5	Hanwell Road Well - Chlorine increased	1 Plus
7	Hanwell Main ahead of pump	O.K.
14	Hanwell Main ahead of pump	O.K.
15	99 Smith St., Carleton Ward	
18	G. E. Barbour Co., 343 Argyle St. (Report oily taste)	O.K.
21	Hanwell Well	
23	Hanwell Well	
27	Hanwell Well Chlorine increased	5 Plus
28	Hanwell Well	O.K.
Oct. 1	MacLaren Ave. Fire Station	
5	99 Smith St., Carleton Ward	
11	Boat Club Service Station	
17	Hanwell Well	
24	U.N.B. Engineering Building	
30	127 Charlotte Street	
Nov. 6	105 Prospect Street	2 Plus
9	Motel, Smythe Street	
18	Motel, Smythe Street	
20	105 Prospect Street	O.K.
23	105 Prospect Street	O.K.
30	Hanwell Road	
Dec. 5	377 Gibson St., Carleton Ward	
12	U.N.B. Engineering Building	
18	99 Smith St., Carleton Ward	
18	Hanwell Well	
24	MacLaren Ave., Carleton Ward	
31	Raw water tap, Pumping Station	

WATER SERVICE INSTALLATIONS 1967.

1.	Fred Jardine	Exhibition Grounds	April 19	5/8" Cop.
2.	Gordon S? Thorne	889 Grandame Street	May 1	3/4" Cop.
3.	Donald E. Wilson	435 Kings College Road	May 2	3/4" Cop.
4.	Highland Co. Ltd.	475 Lisgar Street	May 10	3/4" Cop.
5.	Suburban Construction Co.	245 Eglinton Street	May 11	3/4" Cop.
6.	Donald E. Wilson	210 Eglinton Street	May 11	3/4" Cop.
7.	Fredericton Housing Ltd.	398 Canterbury Drive	May 23	3/4" Cop.
8.	Fredericton Housing Ltd.	111 Dover Crescent	May 24	3/4" Cop.
9.	William K. Kolding	406 Mansfield Street	May 25	3/4" Cop.
10.	Hill Bros. Ltd.	60 Lorne Street	May 29	3/4" Cop.
11.	Fredericton Housing Ltd.	265 Westmorland Street	June 1	3/4" Cop.
12.	Donald Hill	146 Willingdon Street	June 2	3/4" Cop.
13.	E. B. Billings Ltd.	1079 York Street	June 5	3/4" Cop.
14.	Ralph Wilson Jr.	231 Hanwell Road	June 7	3/4" Cop.
15.	Alwyn Cameron	360 Hanwell Road	June 7	3/4" Cop.
16.	Hill Bros. Ltd.	208 Stanley Street	June 9	3/4" Cop.
17.	D. G. Sedgewick	21 Forest Acres Court	June 9	5/8" Cop.
18.	Wayne Hill	163 Eglinton Street	June 9	3/4" Cop.
19.	Fredericton Housing Ltd.	185 Southampton Drive	June 12	5/8" Cop.
20.	Fredericton Housing Ltd.	175 Southampton Drive	June 13	5/8" Cop.
21.	Fredericton Housing Ltd.	101 Dover Crescent	June 13	5/8" Cop.
22.	Fredericton Housing Ltd.	81 Dover Crescent	June 13	5/8" Cop.
23.	Fredericton Housing Ltd.	21 Dover Crescent	June 14	5/8" Cop.
24.	Fredericton Housing Ltd.	18 Dover Crescent	June 15	5/8" Cop.
25.	Fredericton Housing Ltd.	91 Dover Crescent	June 15	5/8" Cop.
26.	Carl S. Hay	729 Irvine Street	June 19	3/4" Cop.
27.	James C. Fraser	251 Sewell Street	June 19	3/4" Cop.
28.	Highland Co. Ltd.	445 Lisgar Street	June 20	3/4" Cop.
29.	Highland Co. Ltd.	155 Lisgar Street	June 20	3/4" Cop.
30.	R. J. Wallace	3 Heather Terrace	June 21	3/4" Cop.
31.	Highland Co. Ltd.	875 Grandame Street	June 22	3/4" Cop.
32.	Topmar Housing Ltd.	867 Grandame Street	June 22	3/4" Cop.
33.	Topmar Housing Ltd.	861 Grandame Street	June 22	3/4" Cop.
34.	R. A. Chaisson	756 Hanwell Road	June 27	3/4" Cop.
35.	Maritime Engineering Ltd.	249 Lynhaven Street	June 28	3/4" Cop.
36.	Topmar Housing Ltd.	855 Grandame Street	June 28	3/4" Cop.
37.	Hill Bros. Ltd.	139 Stanley Street	June 30	3/4" Cop.
38.	Hill Bros. Ltd.	149 Stanley Street	July 4	3/4" Cop.
39.	Topmar Housing Ltd.	595 Montgomery Street	July 5	3/4" Cop.
40.	Hill Bros. Ltd.	154 Lynhaven Street	July 5	3/4" Cop.
41.	Carl S. Hay	752 Irvine Street	July 6	3/4" Cop.
42.	Fredericton Housing Ltd.	365 Southampton Drive	July 7	3/4" Cop.
43.	A. Broome	738 Irvine Street	July 7	3/4" Cop.
44.	Fredericton Housing Ltd.	345 Southampton Drive	July 10	5/8" Cop.
45.	Suburban Construction Co.	279 Oxford Street	July 11	3/4" Cop.
46.	Robert Hughes	727 Gregg Court	July 13	3/4" Cop.
47.	Fredericton Housing Ltd.	106 Dover Crescent	July 14	5/8" Cop.
48.	Fredericton Housing Ltd.	355 Southampton Drive	July 10	5/8" Cop.
49.	Fredericton Housing Ltd.	86 Dover Crescent	July 14	5/8" Cop.
50.	Fredericton Housing Ltd.	96 Dover Crescent	July 14	5/8" Cop.
51.	Alfred Horsnell	380 King Street	Aug. 1	3/4" Cop.
52.	Topmar Housing Ltd.	684 York Street	Aug. 1	3/4" Cop.
53.	Fredericton Housing Ltd.	360 Southampton Drive	July 10	5/8" Cop.
54.	Fredericton Housing Ltd.	70 Dover Crescent	July 10	5/8" Cop.
55.	Fredericton Housing Ltd.	41 Dover Crescent	July 27	5/8" Cop.
56.	Fredericton Housing Ltd.	31 Dover Crescent	July 27	5/8" Cop.
57.	Diamond Construction Co. Ltd.	249 Rockwood Avenue	July 28	1" Cop.
58.	A. Hanson	239 Lynhaven Court	July 31	3/4" Cop.
59.	Fredericton Housing Ltd.	61 Dover Crescent	Aug. 2	5/8" Cop.
60.	Fredericton Housing Ltd.	116 XX Dover Crescent	Aug. 3	5/8" Cop.

61.	FREDERICTON HOUSING LTD.	71	DOVER CRESCENT	Aug. 3	5/8" Cop.
62.	Maritime Engineering Ltd.		N. B. Tel Priestman Street	Aug. 4	1" Cop.
63.	Fredericton Housing Ltd.	335	Southampton Drive	Aug. 4	5/8" Cop.
64.	Spencer Carr		Priestman Street	Aug. 7	3/4" Cop.
65.	Maritime Engineering Ltd.	835	Churchill Row	Aug. 7	1" Cop.
66.	S. C. R. Construction Ltd.	90	Alexandra Street	Aug. 9	3/4" Cop.
67.	Donald Hill	171	Willingdon Street	Aug. 15	3/4" Cop.
68.	HIGHLAND CO. LTD.	992	YORK STREET	Aug. 15	3/4" Cop.
69.	S. C. Richardson	880	Grandame Street	Aug. 16	3/4" Cop.
70.	Donald E. Wilson	267	MONTGOMERY STREET	Aug. 17	3/4" Cop.
71.	Fredericton Housing Ltd.	325	SOUTHAMPTON DRIVE	Aug. 17	5/8" Cop.
72.	Fredericton Housing Ltd.	28	DOVER CRESCENT	Aug. 17	5/8" Cop.
73.	Fredericton Housing Ltd.	265	SOUTHAMPTON DRIVE	Aug. 21	5/8" Cop.
74.	YORK STRUCTURAL STEEL CO.		INDUSTRIAL PARK	Aug. 23	1" Cop.
75.	Topmar Housing Ltd.	794	SMYTHE STREET	Aug. 24	3/4" Cop.
76.	Fredericton Housing Ltd.	255	SOUTHAMPTON DRIVE	Aug. 25	5/8" Cop.
77.	Fredericton Housing Ltd.	260	SOUTHAMPTON DRIVE	Aug. 28	5/8" Cop.
78.	Topmar Housing Ltd.	864	SMYTHE STREET	Aug. 29	3/4" Cop.
79.	Topmar Housing Ltd.	804	SMYTHE STREET	Aug. 29	3/4" Cop.
80.	HILL HOUSING LTD.	160	EGLINTON STREET	Aug. 30	3/4" Cop.
81.	HILL BROS. LTD.	265	STANLEY STREET	Aug. 31	3/4" Cop.
82.	HILL BROS. LTD.	188	STANLEY STREET	Aug. 31	3/4" Cop.
83.	HILL HOUSING LTD.	292	MASSEY STREET	Sep't. 1	3/4" Cop.
84.	HILL HOUSING LTD.	211	WILLINGDON STREET	Sep't. 5	3/4" Cop.
85.	Fredericton Housing Ltd.	315	SOUTHAMPTON DRIVE	Sep't. 6	5/8" Cop.
86.	Fredericton Housing Ltd.	11	DOVER CRESCENT	Sep't. 6	5/8" Cop.
87.	Carl S. Hay	731	IRVINE STREET	Sep't. 7	3/4" Cop.
88.	Stewart R. Kirk	757	IRVINE STREET	Sep't. 7	3/4" Cop.
89.	Alfred Schmelzeisen	700	HANWELL ROAD	Sep't. 7	3/4" Cop.
90.	Fredericton Housing Ltd.	278	SOUTHAMPTON DRIVE	Sep't. 12	5/8" Cop.
91.	Fredericton Housing Ltd.	195	SOUTHAMPTON DRIVE	Sep't. 12	5/8" Cop.
92.	HILL BROS. LTD.	119	STANLEY STREET	Sep't. 13	3/4" Cop.
93.	Weldon Levine	224	LYNHAVEN STREET	Sep't. 14	1" Cop.
94.	Louis Levine	30	STUDHOLM STREET	Sep't. 15	3/4" cop.
95.	Topmar Housing Ltd.		CARETAKER, Cdell Ave.	Sep't. 15	3/4" Cop.
96.	Est. Wilfred H. Sullivan		PRIESTMAN STREET	Sep't. 15	3/4" Cop.
97.	Ian Brown	740	Mitchell Street	Sep't. 18	3/4" Cop.
98.	Mrs. Thomas Smith	515	Hanwell Road	Sep't. 19	3/4" Cop.
99.	Fredericton Housing Ltd.	200	SOUTHAMPTON DRIVE	Sep't. 20	5/8" Cop.
100.	Fredericton Housing Ltd.	240	SOUTHAMPTON DRIVE	Sep't. 21	5/8" Cop.
101.	Fredericton Housing Ltd.	190	SOUTHAMPTON DRIVE	Sep't. 21	5/8" Cop.
102.	Fredericton Housing Ltd.	130	SOUTHAMPTON DRIVE	Sep't. 21	5/8" Cop.
103.	Fredericton Housing Ltd.	205	SOUTHAMPTON DRIVE	Sep't. 22	5/8" Cop.
104.	Fredericton Housing Ltd.	215	SOUTHAMPTON DRIVE	Sep't. 22	5/8" Cop.
105.	Fredericton Housing Ltd.	225	SOUTHAMPTON DRIVE	Sep't. 25	5/8" Cop.
106.	Fredericton Housing Ltd.	308	SOUTHAMPTON DRIVE	Sep't. 26	5/8" Cop.
107.	Fredericton Housing Ltd.	288	SOUTHAMPTON DRIVE	Sep't. 26	5/8" Cop.
108.	Fredericton Housing Ltd.	298	SOUTHAMPTON DRIVE	Sep't. 26	5/8" Cop.
109.	Eastern Construction Co.		SMYTHE STREET	Sep't. 26	8" C. I.
110.	Fredericton Housing Ltd.	285	SOUTHAMPTON DRIVE	Sep't. 27	5/8" Cop.
111.	Donald Wilson	221	MONTGOMERY STREET	Sep't. 27	3/4" Cop.
112.	Myles. E. Chown	254	OXFORD STREET	Sep't. 28	3/4" Cop.
113.	Hans. K. Larsen	248	WILLINGDON STREET	Sep't. 28	3/4" Cop.
114.	Wendell Farris	5	Heather Terrace	Sep't. 29	3/4" Cop.
115.	Leachman's Plumbing Ltd.		Bldg. 14, R.C.M.P. Woodstock Rd.	Oct. 3	3/4" Cop.
116.	Fredericton Housing Ltd.	247	CHARLOTTE STREET	Oct. 3	1" Cop.
117.	W. J. Beairsto Co. Ltd.		Shell Co. York Street	Oct. 6	1" & 3/4" Cop.
118.	Donald Hill	163	EGLINTON STREET	Oct. 6	3/4" Cop.
119.	Donald K. Wilson	369	MONTGOMERY STREET	Oct. 12	3/4" Cop.
120.	C. L. Dow	326	MASSEY STREET	Oct. 13	3/4" Cop.

121.	Kenneth W. Howlett	736	Irvine Street	Oct. 23	3/4" Cop.
122.	Carl S. Hay	745	Irvine Street	Oct. 24	3/4" Cop.
123.	J. A. Dixon	727	Irvine Street	Oct. 24	3/4" Cop.
124.	Dep't. Indian Affairs		Lot.3, Blk.5, St. Marys Reserve	Oct. 25	5/8" Cop.
125.	Kenneth W. Howlett	763	Irvine Street	Oct. 26	3/4" Cop.
126.	C. W. Gross	748	Forest Hill Road	Oct. 30	3/4" Cop.
127.	Fredericton Housing Ltd.	235	Southampton Drive	Oct. 31	5/8" Cop.
128.	Fredericton Housing Ltd.	275	Southampton Drive	Nov. 1	5/8" Cop.
129.	Fredericton Housing Ltd.	245	Southampton Drive	Nov. 1	5/8" Cop.
130.	Donald Hill	306	Willingdon Street	Nov. 3	3/4" Cop.
131.	Hill Bros. Ltd.	314	Willingdon Street	Nov. 6	3/4" Cop.
132.	Suburban Construction Co.	178	Eglinton Street	Nov. 10.	3/4" Cop.
133.	Miles Tire Ltd.		McLeod Lane	Nov. 16	1" Cop.
134.	Mrs. Ernest Cusack	280	Dunn Road	Nov. 16	3/4" Cop.
135.	Topmar Housing Ltd.	518	Westmorland Street	Nov. 22.	3/4" Cop.
136.	Highland Co. Ltd.	430	Lisgar Street	Nov. 23	3/4" Cop.
137.	Frede Herkert	418	Lisgar Street	Nov. 24	3/4" cop.
138.	Myles E. Chown	221	Oxford Street	Nov. 27	3/4" Cop.
139.	Myles E. Chown	244	Oxford Street	Nov. 29	3/4" Cop.
140.	Donald E. Wilson	244	Lynhaven Street	Nov. 29	3/4" Cop.
141.	Fred e Herkert	406	Lisgar Street	Nov. 30	3/4" Cop.
142.	Fredericton Housing Ltd.	305	Southampton Drive	Dec. 22	5/8" Cop.
143.	Atlantic Building Contractors		Teachers Assoc. Bldg. U.N.B. Campus	Dec. 22	1" Cop.
144.	Lewis Lamb	742	Irvine Street	Dec. 27.	3/4" Cop.
145.	Fredericton Housing Ltd.	295	Southampton Drive	Dec. 28	5/8" Cop.

DOMESTIC SEWER INSTALLATIONS 1967.

1.	Fred Jardine		Exhibition Grounds	Apr. 19/67	4" Transite
2.	Ernest J. Bourque	402-404	Union Street	Apr. 19	"
3.	Grodon S. Thorne	889	Grandame Street	May 1	"
4.	Donald E. Wilson	435	Kings College Road	May 2	"
5.	Highland Co. Ltd.	475	Lisgar Street	May 10	"
6.	Suburban Construction Co.	245	Eglinton Street	May 11	"
7.	Donald E. Wilson	210	Eglinton Street	May 11	"
8.	Fredericton Housing Ltd.	398	Canterbury Drive	May 23	"
9.	Fredericton Housing Ltd.	111	Dover Crescent	May 24	"
10.	William K. Kolding	406	Mansfield Street	May 25	"
11.	Hill Bros. Ltd.	60	Lorne Street	May 29	"
12.	Fredericton Housing Ltd.	265	Westmorland Street	June 1	"
13.	Donald Hill	146	Willingdon Street	June 2	"
14.	E. B. Billings Ltd.	1079	York Street	June 5	"
15.	Ralph Wilson Jr.	231	Hanwell Road	June 7	"
16.	Alwyn Cameron	360	Hanwell Road	June 7	"
17.	Hill Bros. Ltd.	208	Stanley Street	June 9	"
18.	D. G. Sedgewick	21	Forest Acres Court	June 9	"
19.	Wayne Hill	163	Eglinton Street	June 9	"
20.	Fredericton Housing Ltd.	185	Southampton Drive	June 12	"
21.	Fredericton Housing Ltd.	175	Southampton Drive	June 13	"
22.	Fredericton Housing Ltd.	101	Dover Crescent	June 13	"
23.	Fredericton Housing Ltd.	81	Dover Crescent	June 13	"
24.	Fredericton Housing Ltd.	21	Dover Crescent	June 14	"
25.	Fredericton Housing Ltd.	18	Dover Crescheht	June 15	"
26.	Fredericton Housing Ltd.	91	Dover Crescent	June 15	"
27.	Carl S. Hay	929	Irvine Street	June 19	"
28.	James C. Fraser	251	Sewell Street	June 19	"
29.	Highland Co. Ltd.	445	Lisgar Street	June 20	"
30.	Highland Co. Ltd.	455	Lisgar Street	June 20	"
31.	R. J. Wallace	3	Heather Terrace	June 21	"
32.	Highland Co. Ltd.	875	Grandame Street	June 22	"
33.	Topmar Housing Ltd.	867	Grandame Street	June 22	"
34.	Topmar Housing Ltd.	861	Grandame Street	June 22	"
35.	R. A. Chaisson	756	Hanwell Road	June 27	"
36.	Maritime Engineering Ltd.	249	Lynhaven Street	June 28	"
37.	Topmar Housing Ltd.	855	Grandame Street	June 28	"
38.	Hill Bros. Ltd.	139	Stanley Street	June 30	"
39.	Hill Bros. Ltd.	149	Stanley Street	July 4	"
40.	Topmar Housing Ltd.	595	Montgomery Street	July 5	"
41.	Hill Bros. Ltd.	154	Lynhaven Street	July 5	"
42.	Carl S. Hay	752	Irvine Street	July 6	"
43.	Fredericton Housing Ltd.	365	Southampton Drive	July 7	"
44.	A. Broome	738	Irvine Street	July 7	"
45.	Fredericton Housing Ltd.	345	Southampton Drive	July 10	"
46.	Suburban Construction Co.	279	Oxford Street	July 11	"
47.	Robert Hughes	727	Gregg Court	July 12	"
48.	Fredericton Housing Ltd.	70	Dover Crescent	July 10	"
49.	Fredericton Housing Ltd.	106	Dover Crescent	July 14	"
50.	Fredericton Housing Ltd.	355	Southampton Drive	July 10	"
51.	Fredericton Housing Ltd.	86	Dover Crescent	July 14	"
52.	Fredericton Housing Ltd.	96	Dover Crescent	July 14	"
53.	Fredericton Housing Ltd.	41	Dover Crescent	July 27	"
54.	Fredericton Housing Ltd.	31	Dover Crescent	July 27	"
55.	Diamond Construction Co.		Hartt Shoe Co., York Street	July 28	"
56.	Diamond Construction Co. Ltd.	249	Rookwood Avenue	July 28	"
57.	A. Hanson	239	Lynhaven Court	July 31	"
58.	Alfred Horsnell	380	King Street	Aug. 1	"
59.	Topmar Housing Ltd.	684	York Street	Aug. 1	"

61.	Fredericton Housing Ltd.	61	Dover Crescent	Aug. 2	4"	Transite
62.	Fredericton Housing Ltd.	116	Dover Crescent	Aug. 3	"	
63.	Fredericton Housing Ltd.	338	Dover Crescent	Aug. 3	"	
64.	Maritime Engineering Ltd.		N. B. Tel, Priestman Street	Aug. 4	6"	"
65.	Fredericton Housing Ltd.	355	Southampton Drive	Aug. 4	4"	"
66.	Spencer Carr		Priestman Street	Aug. 7	"	
67.	Maritime Engineering Ltd.	835	Churchill Row	Aug. 7	6"	"
68.	S. C. R. Construction Co. Ltd.	90	Alexandra Street	Aug. 9	4"	"
69.	Eastern Construction Co. Ltd.	1110	Smythe Street	Sep. 11	6"	"
70.	Donald Hill	171	Willingdon Street	Aug. 15	4"	"
71.	Highland Co. Ltd.	992	York Street	Sep. 15	"	
72.	S. C. Richardson	880	Grandame Street	Aug. 16	"	
73.	Donald E? Wilson	267	Montgomery Street	Aug. 17	"	
74.	Fredericton Housing Ltd.	325	Southampton Drive	Aug. 17	"	
75.	Fredericton Housing Ltd.	28	Dover Crescent	Aug. 17	"	
76.	Fredericton Housing Ltd.	265	Southampton Drive	Aug. 21	"	
77.	York Structural Stlle Co.		Industrial Park	Aug. 23	6"	"
78.	Topmar Housing Ltd.	794	Smythe Street	Aug. 24	4"	"
79.	Fredericton Housing Ltd.	255	Southampton Drive	Aug. 25	"	
80.	Fredericton Housing Ltd.	260	Southampton Drive	Aug. 28	"	
81.	Topmar Housing Ltd.	864	Smythe Street	Aug. 29	"	
82.	Topmar Housing Ltd.	804	Smythe Street	Aug. 29	"	
83.	Hill Bros. Ltd.	160	Eglinton Street	Aug. 30	"	
84.	Hill Bros. Ltd.	265	Stanley Street	Aug. 31	"	
85.	Hill Bros. Ltd.	188	Stanley Street	Aug. 31	"	
86.	Hill Housing Ltd.	292	Massey Street	Sep't. 1	"	
87.	Hill Housing Ltd.	211	Willingdon Street	Sep't. 5	"	
88.	Fredericton Housing Ltd.	315	Southampton Drive	Sep't. 6	"	
89.	Fredericton Housing Ltd.	11	Dover Crescent	Sep't. 6	"	
90.	Carls. Hay	731	Irvine Street	Sep't. 7	"	
91.	Stewart R. Kirk	757	Irvine Street	Sep't. 7	"	
92.	Alfred Schmelzeisen	700	Hanwell Road	Sep't. 8	"	
93.	Fredericton Housing Ltd.	278	Southampton Drive	Sep't. 12	"	
94.	Fredericton Housing Ltd.	195	Southampton Drive	Sep't. 12	"	
95.	Hill Bros. Ltd.	119	Stanley Street	Sep't. 13	"	
96.	Weldon Levine	224	Lynhaven Street	Sep't. 14	6"	"
97.	Louis Levine	30	Studholm Street	Sep't. 15	4"	Transite
98.	Topmar Housing Ltd.	Caretaker,	Odell Park	Sep't. 15	"	
99.	Est. Wilfred H. Sullivan		Ptiestman Street	Sep't. 15	"	
100.	Ian Brown	740	Mitchell Street	Sep't. 18	"	
101.	Mrs. Thomas Smith	515	Hanwell Road	Sep't. 19	"	
102.	Fredericton Housing Ltd.	200	Southampton Drive	Sep't. 20	"	
103.	Fredericton Housing Ltd.	240	Southampton Drive	Sep't. 21	"	
104.	Fredericton Housing Ltd.	190	Southampton Drive	Sep't. 21	"	
105.	Fredericton Housing Ltd.	130	Southampton Drive	Sep't. 21	"	
106.	Fredericton Housing Ltd.	205	Southampton Drive	Sep't. 22	"	
107.	Fredericton Housing Ltd.	215	Southampton Drive	Sep't. 22	"	
108.	Fredericton Housing Ltd.	225	Southampton Drive	Sep't. 25	"	
109.	Fredericton Housing Ltd.	308	Southampton Drive	Sep't. 26	"	
110.	Fredericton Housing Ltd.	288	Southampton Drive	Sep't. 26	"	
111.	Fredericton Housing Ltd.	298	Southampton Drive	Sep't. 26	"	
112.	Fredericton Housing Ltd.	285	Southampton Drive	Sep't. 27	"	
113.	Donald Wilson	221	Montgomery Street	Sep't. 27	"	
114.	Myles E. Chown	254	Oxford Street	Sep't. 28	"	
115.	Hans K. Larsen	248	Willingdon Street	Sep't. 28	"	
116.	Wendell Farris	5	Heather Terrace	Sep't. 29	"	
117.	Fredericton Housing Ltd.	247	Charlotte Street	Oct. 3	6"	"
118.	W. J. Beairsto Co. Ltd.		Shell Bulk Plant, York Street	Oct. 6	4"	"
119.	Donald Hill	163	Eglinton Street	Oct. 6	"	
120.	Donald K. Wilson	369	Montgomery Street	Oct. 12	"	

121.	C. L. Dow	326	Massey Street	Oct. 13	4" Transite
122.	Kenneth W. Howlett	736	Irvine Street	Oct. 23	"
123.	Carl S. Hay	745	Irvine Street	Oct. 24	"
124.	J. A. Dixon	727	Irvine Street	Oct. 24	"
125.	Dep't. Indian Affairs, Lot 3,	Blk 5,	St. Marys Reserve	Oct. 25	"
126.	Kenneth W. Howlett	763	Irvine Street	Oct. 26	"
127.	C. W. Gross	748	Forest Hill Road	Oct. 30	"
128.	Fredericton Housing Ltd.	235	Southampton Drive	Oct. 31	"
129.	Fredericton Housing Ltd.	275	Southampton Drive	Nov. 1	"
130.	Fredericton Housing Ltd.	245	Southampton Drive	Nov. 1	"
131.	Donald Hill	306	Willingdon Street	Nov. 3	"
132.	Hill Bros. Ltd.	314	Willingdon Street	Nov. 6	"
133.	Suburban Construction Co.	178	Eglinton Street	Nov. 10	"
134.	Miles Tire Ltd.		McLeod Lane	Nov. 16	"
135.	Topmar Housing Ltd.	518	Westmorland Street	Nov. 22	"
136.	Highland Co. Ltd.	430	Lisgar Street	Nov. 23	"
137.	Fred Herkert	418	Lisgar Street	Nov. 24	"
138.	Myles E. Chown	271	Oxford Street	Nov. 27	"
139.	Myles E. Chown	244	Oxford Street	Nov. 29	"
140.	Donald Wilson	244	Lynhaven Street	Nov. 29	"
141.	Fred Herkert	406	Lisgar Street	Nov. 30	"
142.	Fredericton Housing Ltd.	305	Southampton Drive	Dec. 22	"
143.	Lewis Lamb	742	Irvine Street	Dec. 27	"
144.	Fredericton Housing Ltd.	295	Southampton Drive	Dec. 28	"

WATER SERVICE RELAYS 1967.

1.	W. W. McCormack	107 Alexandra Street	May 2/67	3/4" Cop.
2.	Robert Hughes	356 Saunders Street	May 10	3/4" Cop.
3.	H. Covert Bates	182 George Street	May 9	3/4" Cop.
4.	Mrs. J. D. MacKay	177 University Avenue	May 23	3/4" Cop.
5.	Leachman's Plumbing & Heating	121 Gibson Street	May 25	Supplied .
6.	Miss L. M. Mitchell	116 Brunswick Street	June 7	3/4" Cop.
7.	Arnold Moore	106 Charlotte Street	July 13	1" Cop.
8.	Laurie Menzies	27 Rockwood Avenue	July 26	3/4" Cop.
9.	W. J. Beairsto Co. Ltd.	80 Carleton Street	July 9	3/4" Cop.
10.	J. E. Pickard	859 Union Street	July 25	3/4" Cop.
11.	Fred W. Fenety	29 Lansdowne Street	Aug. 11	3/4" Cop
12.	G. Stanley Coveney	213 Charlotte Street	Aug. 4	5/8" Cop.
13.	Gordon Daley	XX 534 Union Street	Aug. 9 (Box to House)	3/4" Co
14.	Pater Paul	69 Paul Street	Aug. 4 (Box to House)	5/8" Co
15.	Mrs. W. F. Mooers	402 Needham Street	Aug. 29	1" Cop.
16.	J. C. Risteen Co. Ltd.	102 Queen Street	Sep't. 15	1" Cop.
17.	Fred Leslie	252 Regent Street	Sep't. 21	1" Cop.
18.	George Blank	252 Argyle Street	Sep't. 25	5/8" Cop.
19.	Merle Burse	240 Argyle Street	Oct. 17	5/8" Cop.
20.	Mrs. John Harvey	245 York Street	Nov. 12	3/4" Cop.
21.	Saul Brown	245-247 Brunswick Street	Nov. 16	3/4" Cop.

NEW WATER METERS INSTALLED 1967.

L.	Mrs. Thomas A. Smith	597	Hanwell Road	Jan. 3/67	5/8"
2.	Savage Signs	519	Beaverbrook Court	Jan. 4/67	5/8"
3.	K Kirby J. DeLucry	709	Union Street	Jan. 5/67	5/8"
4.	William L. McNamara	1014	York Street	Jan. 9	5/8"
5.	Barrie Tomilson	1035	York Street	Jan. 9	5/8"
6.	Wayne Hill	209	Stanley Street	Jan. 11	5/8"
7.	Ralph McClellan	573	Montgomery Street	Jan. 11/	5/8"
8.	Fredericton Housing Ltd.	92	Southampton Drice	Jan. 12	5/8"
9.	Fredericton Housing Ltd.	378	Canterbury Drive	Jan. 12	5/8"
10.	Fredericton Housing Ltd.	368	Canterbury Drive	Jan. 12	5/8"
11.	Fredericton Housing Ltd.	388	Canterbury Drive	Jan. 12	5/8"
12.	Fredericton Housing Ltd.	179	Coventry Crescent	Jan. 13/67	5/8"
13.	Fredericton Housing Ltd.	189	Coventry Crescent	Jan. 13	5/8"
14.	Fredericton Housing Ltd.	199	Coventry Crescent	Jan. 13	5/8"
15.	Fredericton Housing Ltd.	159	Coventry Crescent	Jan. 13/	5/8"
16.	Gilbert Williams	111	McNair Drive	Jan. 16	5/8"
17.	Gilbert Williams	123	McNair Drive	Jan. 16/67	5/8"
18.	Gilbert Williams	118	Limerick Road	Jan. 16	5/8"
19.	Myles E. Chown	235	Eglinton Street	Jan. 16	5/8"
20.	Myles E. Chown	248	Eglinton Street	Jan. 16	5/8"
21.	Ralph A. Redmond	245	Kings College Road	Jan. 16	5/8"
22.	Hill Bros. Ltd.	260	Stanley Street	Jan. 16	5/8"
23.	Hill Bros. Ltd.	268	Stanley Street	Jan. 16	5/8"
24.	Hill Bros. Ltd.	129	Stanley Street	Jan. 17	5/8"
25.	Malcolm Cummings	159	Stanley Street	Jan. 17	5/8"
26.	Donald Hill	167	Stanley Street	Jan. 17	5/8"
27.	Hill Bros. Ltd.	218	Stanley Street	Jan. 17	5/8"
28.	Hill Bros. Ltd.	225	Stanley Street	Jan. 17	5/8"
29.	Hill Bros. Ltd.	242	Stanley Street	Jan. 17/67	5/8"
30.	Hill Bros. Ltd.	255	Stanley Street	Jan. 17	5/8"
31.	Hill Bros. Ltd.	125	Willingdon Street	Jan. 17	5/8"
32.	Wallace E. Burlock	484	Hanwell Road	Jan. 25	5/8"
33.	C. W. Ritchie & Sons Ltd.	759	Aberdeen Street	Jan. 25/67	5/8"
34.	Fredericton Housing Ltd.	165	Southampton Drive	Feb. 1	5/8"
35.	Fredericton Housing Ltd.	149	Coventry Crescent	Feb. 3	5/8"
36.	Fredericton Housing Ltd.	169	Coventry Crescent	Feb. 3	5/8"
37.	Fredericton Housing Ltd.	408	Canterbury Drive	Feb. 3	5/8"
38.	Gilbert Williams	90	Limerick Road	Feb. 3/67	5/8"
39.	Gilbert Williams	108	Limerick Road	Feb. 3	5/8"
40.	Kenneth W. Howlett	298	Oxford Street	Feb. 6	5/8"
41.	Suburban Construction Co.	9	Heather Terrace	Feb. 6	5/8"
42.	Douglas Henson	735	Irvine Street	Feb. 8/	5/8"
43.	U. N. B. New Engineering Building		University Campus	Feb. 10	4" Compound
44.	James H. Collyer	8	Heather Terrace	Feb. 10	5/8"
45.	Wayne Hill	189	Stanley Street	Feb. 10	5/8"
46.	Gilbert Williams	100	Limerick Road	Feb. 10	5/8"
47.	Fredericton Housing Ltd.	150	Southampton Drive	Feb. 10	5/8"
48.	Fredericton Housing Ltd.	160	Southampton Drive	Feb. 16	5/8"
49.	Fredericton Housing Ltd.	430	Canterbury Drive	March 1	5/8"
50.	Fredericton Housing Ltd.	120	Southampton Drive	March 1	5/8"
51.	Wayne Hill	290	Kings College Road	March 2	5/8"
52.	Malcolm Cummings	1022	York Street	March 2	5/8"
53.	Malcolm Cummings	1030	York Street	March 2	5/8"
54.	C. W. Williamson	667	Montgomery Street	March 6	5/8"
55.	J. Gordon Petrie	190	Eglinton Street	March 10	5/8"
56.	James Ashfield	558	Hanwell Road	March 15	5/8"
57.	Bruce Urquhart	351	Hanwell Road	April 4	5/8"
58.	W. J. Besirsto	949	York Street	April 6	5/8"
59.	Chippins Real Estate Ltd.	255	Hanwell Road	April 20	5/8"
60.	Dep't. Of Indian Affairs.		Indian School, Reservation	April 21	5/8"

61.	Fredericton Housing Ltd.	155	Southampton Drive	April 21	5/8"
62.	Dr. John S. Bates	64	Lansdowne Street	April 21,	5/8"
63.	Gleaner Ltd.		Industrial Park	April 28	5/8"
64.	City of Fredericton, Centennial Building,		Odell Park	April 28	5/8"
65.	Franks Fish & Chips		Exhibition Grounds	May 1	5/8"
66.	Fredericton Raceway (Stand Pipe)		Exhibition Grounds	May 11	1"
67.	Miss Rose Doherty	230	Gibson Street	May 11	5/8"
68.	R. J. Rowe	680	Charlotte Street	May 12/67	5/8"
69.	E. G. Hunter	263	Gibson Street	May 12	5/8"
70.	William Reynolds	438	Gibson Street	May 12/	5/8"
71.	Fredericton Housing Ltd.	446	Canterbury Drive	May 15/	5/8"
72.	H. Griffin	218	Medley Street	May 15	5/8"
73.	Ronald Embleton	60-62	Smith Street	May 16	5/8"
74.	Highland Co.	475	Lisgar Street	May 23/67	5/8"
75.	William Quigg	582	Brunswick Street	May 23	5/8"
76.	Sterling Burlock	172	Neill Street	May 26	5/8"
77.	Suburban Construction Co.	245	Eglinton Street	May 26	5/8"
78.	Donald E. Wilson	210	Eglinton Street	May 26	5/8"
79.	Mrs. Bessie Denton	870	Barker Street	May 29/	5/8"
80.	Barbara Sampson	301	Hanwell Road	June 8	5/8"
81.	Fredericton Housing Ltd.	265	Westmorland Street	June 9/	5/8"
82.	Donald E. Wilson	435	Woodstock Road	June 13	5/8"
83.	Clifford Giles	111	Forest Hill Road	June 13	5/8"
84.	Mrs. Loretta Cameron	75-77	Smith Street	June 14	5/8"
85.	Gordon S. Thorne	889	Grandame Street	June 14	5/8"
86.	Highland Co. Ltd.	875	Grandame Street	June 27/	5/8"
87.	Topmar Housing Ltd.	867	Grandame Street	June 27	5/8"
88.	Hayward Jewett	496	Hanwell Road	June 28	5/8"
89.	Topmar Housing Ltd.	855	Grandame Street	june 28	5/8"
90.	Topmar Housing Ltd.	861	Grandame Street	June 28/	5/8"
91.	Retarded Children's School	1079	York Street	June 30	5/8"
92.	Topmar Housing Ltd.	595	Montgomery Street	July 14	5/8"
93.	Fredericton Housing Ltd.	81	Dover Crescent	July 18	5/8"
94.	Fredericton Housing Ltd.	101	Dover Crescent	July 18	5/8"
95.	Fredericton Housing Ltd.	111	Dover Crescent	July 18	5/8"
96.	Fredericton Housing Ltd.	398	Canterbury Drive	July 18	5/8"
97.	Fredericton Housing Ltd.	175	Southampton Drive	July 18	5/8"
98.	Fredericton Housing Ltd.	185	Southampton Drive	July 18	5/8"
99.	Julius Grant	332	Church Street	July 18	5/8"
100.	Donald Hill	146	Willingdon Street	July 19	5/8"
101.	Suburban Construction Co.	279	Oxford Street	July 19	5/8"
102.	Maritime Engineering Ltd.	249	Lynhaven Street	July 19	5/8"
103.	Wayne Hill	163	Eglinton Street	July 19	5/8"
104.	Fredericton Housing Ltd.	91	Dover Crescent	July 19	5/8"
105.	Carl Hay	729	Irvine Street	July 19	5/8"
106.	William K. Kolding	406	Mansfield Street	July 26	5/8"
107.	Highland Co. Ltd.	445	Lisgar Street	July 26	5/8"
108.	Fredericton Housing Ltd.	18	Dover Crescent	July 26	5/8"
109.	Fredericton Housing Ltd.	21	Dover Crescent	July 26	5/8"
110.	George Booker	270	St. Marys Street	July 26	5/8"
111.	Harry Watson	162	Regent Street	July 28/67	5/8"
112.	U. N. B. (Tilley Building)		University Campus	Aug. 2	5/8"
113.	A. Hanson	239	Lynhaven Street	Aug. 4	5/8"
114.	Topmar Housing Ltd.	648	York Street	Aug. 4	5/8"
115.	N. B. Telephone Co. Ltd.		Priestman Street	Aug. 7	2"
116.	A. Broome	738	Gibson Street	Aug. 7	5/8"
117.	Mrs. Leila D. Walls	314	St. Marys Street	Aug. 8/	5/8"
118.	John Doherty	203	Hanwell Road	Aug. 9	5/8"
119.	Ralph Wilson Jr.	231	Hanwell Road	Aug. 16	5/8"
120.	Horsnell's Warehouse	380	King Street	Aug. 21	5/8"

121.	Don. E. Wilson	267	Montgomery Street	Aug. 23	5/8"
122.	Spencer Carr		Priestman Street	Aug. 24	5/8"
123.	Mrs. Jean Currie	653	Elizabeth Street	Aug. 28/67	5/8"
124.	Robert Hughes	727	Gregg Court	Aug. 29	5/8"
125.	Topmar Housing Ltd.	794	Smythe Street	Aug. 29	5/8"
126.	R. P. C. Building		Montgomery Street	Sep't. 1	4" Com.
127.	Charles Flynn	499	Hanwell Road	Sep't. 1	5/8"
128.	Highland Co. Ltd.	455	Lisgar Street	Sep't. 5	5/8"
129.	Highland Co. Ltd.	992	York Street	Sep't. 5	5/8"
130.	Orland E. Sanborn	292	Gibson Street	Sep't. 7	1/2"
131.	Topmar Housing Ltd.	864	Smythe Street	Sep't. 7	5/8"
132.	U. N. B. Gymnasium Meter # 2		U. N. B. Campus	Sep't. 7	2"
133.	U. N. B. Gymnasium Meter # 3		U. N. B. Campus	Sep't. 7	3" Com.
134.	National Meat Market Meter # 2	350	Queen Street	Sep't. 7	1"
135.	William Banks	756	Dobie Street	Sep't. 8	5/8"
136.	Fredericton Housing Ltd.	116	Dover Crescent	Sep't. 12	5/8"
137.	Fredericton Housing Ltd.	106	Dover Crescent	Sep't. 12	5/8"
138.	Fredericton Housing Ltd.	71	Dover Crescent	Sep't. 12	5/8"
139.	Fredericton Housing Ltd.	86	Dover Crescent	Sep't. 12	5/8"
140.	Fredericton Housing Ltd.	61	Dover Crescent	Sep't. 12	5/8"
141.	Fredericton Housing Ltd.	31	Dover Crescent	Sep't. 13	5/8"
142.	Fredericton Housing Ltd.	96	Dover Crescent	Sep't. 13	5/8"
143.	Fredericton Housing Ltd.	41	Dover Crescent	Sep't. 13	5/8"
144.	Fredericton Housing Ltd.	28	Dover Crescent	Sep't. 13	5/8"
145.	Fredericton Housing Ltd.	355	Southampton Drive	Sep't. 13	5/8"
146.	Fredericton Housing Ltd.	365	Southampton Drive	Sep't. 13	5/8"
147.	Fredericton Housing Ltd.	335	Southampton Drive	Sep't. 13	5/8"
148.	Fredericton Housing Ltd.	345	Southampton Drive	Sep't. 13	5/8"
149.	Topmar Housing Ltd.	115	Eglinton Street	Sep't. 15	5/8"
150.	Bruce Urquhart	749	Athlone Street	Sep't. 15	5/8"
151.	Khoury	734	Albert Street	Sep't. 18	5/8"
152.	Donald Hill	171	Willingdon Street	Sep't. 18	5/8"
153.	Hill Bros. Ltd.	149	Stanley Street	Sep't. 20	5/8"
154.	Hill Bros. Ltd.	139	Stanley Street	Sep't. 20	5/8"
155.	Hill Housing Ltd.	160	Eglinton Street	Sep't. 20	5/8"
156.	Alwyn Cameron	360	Hanwell Road	Sep't. 20	5/8"
157.	S. C. Richardson	880	Grandame Street	Sep't. 20/	5/8"
158.	Carl S. Hay	752	Irvine Street	Sep't. 21	5/8"
159.	S. R. Mullin	224	Medley Street	Sep't. 21	5/8"
160.	Fredericton Dental Clinic	249	Rookwood Avenue	Sep't. 21	1"
161.	Hill Bros. Ltd.	154	Lynhaven Street	Sep't. 22	5/8"
162.	Fredericton Housing Ltd.	11	Dover Crescent	Sep't. 25	5/8"
163.	Fredericton Housing Ltd.	325	Southampton Drive	Sep't. 25	5/8"
164.	Fredericton Housing Ltd.	265	Southampton Drive	Sep't. 25	5/8"
165.	James C. Fraser	251	Sewell Street	Sep't. 26	5/8"
166.	K. Mart	1110	Smythe Street	Sep't. 27	2"
167.	Dominion Stores Ltd.	1146	Smythe Street	Sep't. 27	2"
168.	Ian Brown	740	Mitchell Street	Sep't. 27	5/8"
169.	Fredericton Housing Ltd.	255	Southampton Drive	Sep't. 28	5/8"
170.	Fredericton Housing Ltd.	260	Southampton Drive	Sep't. 28	5/8"
171.	Maritime Engineering Ltd.	835	Churchill Row	Sep't. 28	1 1/4"
172.	Fredericton Housing Ltd.	200	Southampton Drive	Oct. 5	5/8"
173.	Fredericton Housing Ltd.	195	Southampton Drive	Oct. 5/	5/8"
174.	R. C. M. P. Q. M. Stores		Woodstock Road	Oct. 6	5/8"
175.	York Structural Steel		Industrial Park	Oct. 10	5/8"
176.	Mrs. Thomas Smith	515	Hanwell Road	Oct. 10	5/8"
177.	Donald Wilson	221	Montgomery Street	Oct. 17	5/8"
178.	Stewart R. Kirk	757	Irvine Street	Oct. 17	5/8"
179.	Hill Housing Ltd.	292	Massey Street	Oct. 20	5/8"
180.	Fredericton Housing Ltd.	215	Southampton Drive	Oct. 20	5/8"

181.	Fredericton Housing Ltd.	240	Southampton Drive	Oct. 20	5/8"
182.	Hans K. Larsen	248	Willingdon Street	Oct. 20	5/8"
183.	Thomas J. Hughes	273	Hanwell Road	Oct. 23	5/8"
184.	Carl S. Hay	731	Irvine Street	Oct. 23/	5/8"
185.	A. Schmelzeisen	700	Hanwell Road	Oct. 23/	5/8"
186.	Fredericton Housing Ltd.	278	Southampton Drive	Oct. 25	5/8"
187.	Shell Canada Ltd. (Bulk Plant)		York Street	Oct. 30	5/8"
188.	Mrs. B. L. Bates	125	Miles Street	Nov. 6	5/8"
189.	Fredericton Housing Ltd.	315	Southampton Drive	Nov. 9	5/8"
190.	Myles E. Chown	254	Oxford Street	Nov 16	5/8"
191.	Mrs. Ernest Cusack	286	Dunn Road	Nov. 17	5/8"
192.	Fredericton Housing Ltd.	70	Dover Crescent	Nov. 20	5/8"
193.	Fredericton Housing Ltd.	130	Dover Crescent	Nov. 20	5/8"
194.	Fredericton Housing Ltd.	225	Southampton Drive	Nov. 20	5/8"
195.	Fredericton Housing Ltd.	205	Southampton Drive	Nov. 29	5/8"
196.	Fredericton Housing Ltd.	308	Southampton Drive	Nov. 29	5/8"
197.	Fredericton Housing Ltd.	360	Southampton Drive	Nov. 29	5/8"
198.	City of Fredericton (Odell Caretaker)		Rookwood Avenue	Dec. 4	5/8"
199.	R. M. Hughes	175	Aberdeen Street	Dec. 4/	5/8"
200.	William Depow	183	Argyle Street	Dec. 5	5/8"
201.	David Neill	733	MacLaren Avenue	Dec. 5	5/8"
202.	S. E. Blizzard	748	Beaverbrook Street	Dec. 8	5/8"
203.	Maroon Soffer	215	Regent Street	Dec. 11	5/8"
204.	Hill Housing Ltd.	211	Willingdon Street	Dec. 12	5/8"
205.	Fredericton Housing Ltd.	190	Southampton Drive	Dec. 21	5/8"
206.	Highland Co. Ltd.	430	Lisgar Street	Dec. 13	5/8"
207.	Fredericton Housing Ltd.	247	Charlotte Street	Dec. 14	5/8"
208.	R. C. Clark	XXXXXX	XXXXXX	XXXXXX	5/8"
209.	Orland B. Sanborn	468	Hanwell Road	Dec. 15	5/8"
210.	S. C. R. Construction	166	Odell Avenue	Dec. 20/	5/8"
211.	Lewis Levine	90	Alexandra Street	Dec. 21	1/2"
212.	Fred Herkert	30	Studholm Street	Dec. 27	5/8"
213.	Weldon Levine	406	Lisgar Street	Dec. 27	5/8"
214.	C. L. Dow	224	Lynhaven Street	Dec. 27	1"
		326	Massey Street	Dec. 28	5/8"





