

ANNUAL REPORT OF THE ENGINEERING AND PUBLIC WORKS DEPARTMENT

1973



INDEXPAGE

Letter of Transmittal	1
Total Yearly Expenditure	5
Administration of Justice	55
Beaverbrook Rink	54
Capital Account City Hall	37
Capital Account Curb & Gutter	20 -- 21
Capital Account Domestic Sewer	23 - 26
Capital Account Gravel Roads	36
Capital Account Industrial Park - A. D. B.	38 - 39
Capital Account Library	38
Capital Account Maintenance Depot	37
Capital Account Paving	21 - 23
Capital Account Regent Street Reconstruction-Non-Sharable	39 - 40
Capital Account Shared Cost Projects	40 - 41
Capital Account Surface Sewer	26 - 29
Capital Account Traffic Lights	37
Capital Account Water	29 - 35
Flemming Road Booster Station	32
High Level Reservoir	32
Maple Street Well	32
Exploration	33
Smythe Street Booster Station	33 - 34
Cost of Water Supply to Date	34 - 35
Cement Walks	52
City Hall	53
Domestic Sewer	56 - 57
Environmental Health Services	43 - 44
Fire Department	53
Flood Control & Repairs	44
Land Account (Industrial Park)	55
Land Account (Other)	55
Local Incentives Programs	55 - 56
Local Improvement	41 - 43
Municipal Parking Lots	53 - 54
Campbell Street	53
Arctic Rink Site	54
Public Health & Welfare Services (Cemetaries)	44
Recreation & Cultural Services	45 - 51
Wilmot Park	45 - 46
Odell Park Development	46
Carleton Park	46
Development of Park Areas	46 - 47
Public Works	47
Recreation	52
Transition	45
Transportation Services	5 - 19
Common Services	6
Road Transport	6
Roads & Streets	6 - 18
Street Lighting	18 - 19
Traffic Services	19
Tourist & Industry	54
Tree Removal (Government Assistance)	50
Water	57 - 64
Water Administration	58 - 59
Meters	59
Water Ordinary	59 - 61
Distribution System	61
Water Pumping Station	61 - 64
Hydrant Revenue	64
York Arena	53
Report of E. W. Hagerman, City Analyst	65 - 69

TO HIS WORSHIP THE MAYOR & COUNCILLORS
OF THE CITY OF FREDERICTON

Ladies and Gentlemen:

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

This report covers the period January 1, 1973 to December 31, 1973 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 works:

Concrete Curb and Gutter	2.81 miles
Concrete Sidewalk	0.85 miles
New Street Construction	1.63 miles
New Pavement	1.27 miles
Recap ($\frac{1}{2}$ " Minus)	1.83 miles
Sealing City Streets (3/8" Minus)	6.00 miles
6" Force Main - Domestic Sewer	0.08 miles
8"-10"-12"-16" Gravity Domestic Sewer.	2.39 miles
10"-12"-15"-18"-24"-30"-36"-42"-60"- Storm Sewer	2.31 miles
4"-6"-8"-10"-12" Water Mains	1.95 miles

ALSO

234 Water Services Installed
233 Domestic Sewer Services Installed
7 Sprinklers Installed
31 Services Relayed (Water)
1 Services Relayed (Domestic Sewer)
245 Water Meters Installed

Contractors under contract with the Public Works Department of the City of Fredericton in 1973 constructed, completed construction or began construction on the following projects:

John Kilburn & Sons Ltd.	-	To installation of services on Flemming Road.
Fredericton Housing & Construction Ltd.	-	To installation of services on Parkside Drive and Greenfields Court & Drive.
Fredericton Housing & Construction Ltd.	-	To installation of services on Meadow Green Court.
John Kilburn & Sons Ltd.	-	To installation of services on Weyman Street.
Fredericton Housing & Construction Ltd.	-	To installation of services on Priestman Street.
John Kilburn & Sons Ltd.	-	To installation of services on the Industrial Road between Hilton Road & Vanier Highway.

Fredericton Housing & Construction Ltd.	-	To installation of Storm Sewer on Regent Street.
Stan Cassidy Ltd.	-	To supply and installation of Traffic Lights at the Intersection of York Street and Dundonald Street.
John Kilburn & Sons Ltd.	-	To installation of services on McKeen Street, Fletcher Court and Van Horne Court.
John Kilburn & Sons Ltd.	-	To installation of services on Elgin Street.
John Kilburn & Sons Ltd.	-	To installation of services on Smythe Street Extension.
Forbes & Sloat Ltd.	-	To supply and placement of Asphalt.
Gordon's Ready-Mix Ltd.	-	To supply and delivery of Ready-Mix Concrete.
Wendall Thomas	-	To supply and delivery of Pipe Bedding Sand and Winter Sand.
Harry C. Smith	-	To supply and delivery of Topsoil.
Gorman Construction Co. Ltd.	-	To supply and delivery of gravel.
Domtar Ltd.	-	To supply and delivery of Highway Coarse Bulk Salt.
Canadian Salt Co. Ltd.	-	To supply and delivery of Highway Coarse Bulk Salt.
Gulf Oil Company of Canada	-	To supply and delivery of gasoline and diesel fuel.
Thomas Industrial Sales Ltd.	-	To supply and delivery of Pumping Equipment for Smythe Street Booster Station.

The current expenditures for the twelve-month period January 1, 1973 to December 31, 1973 appear as follows:

	Appropriation	Net Expenditures	Debit	Credit
Common Services	\$202,427.00	\$208,437.38	\$ 6,010.38	-
Road Transport(Adm.)	8,000.00	5,027.73	-	\$ 2,972.27
Roads & Streets	425,800.00	377,707.72	-	48,092.28
Street Lighting	110,000.00	104,877.03	-	5,122.97
Traffic Services	7,000.00	3,838.71	-	3,161.29
Garbage Collection	71,800.00	71,857.70	57.70	-
Garbage Disposal	36,950.00	41,110.86	4,160.86	-
Old Burial Ground	3,546.00	3,837.21	291.21	-

	Appropriation	Net Expenditures	Debit	Credit
Loyalist Burial Grnd.	\$ 133.00	\$ 131.00	\$ -	2.00
*Flood Control & Reps.	-	10,518.06	-	\$10,518.06
Wilmot Park	8,730.00	10,427.15	1,697.15	-
Odell Park	11,920.00	16,578.21	4,658.21	-
Carleton Park	5,980.00	7,219.39	1,239.39	-
Development of Park Areas	5,090.00	2,776.28	-	2,313.72
Public Works	62,250.00	69,147.49	6,897.49	-
TOTALS ..	\$959,626.00	\$ 933,491.92	\$25,012.39	\$72,182.59

* During the spring of 1973, the waters of the St. John River overran its banks and caused considerable flooding of streets in the City of Fredericton. The flood waters crested at an elevation of 28.3 feet above sea level on April 29. The above expenditure of \$10,518.06 was later refunded to the City of Fredericton by the Federal Government.

On July 9, 1973, amalgamation took place between the former City of Fredericton and surrounding areas. The newly amalgamated City occupies a total of some 51 square miles with a population of 44,311.

Following in the body of this report is a detailed statement of the work done, comparative expenditures and unit costs under the various departments for the former City of Fredericton only. The detailed report of any particular department may be found by referring to the index. Accounts for the new areas of the City were kept separately until December 31, 1973.

Respectfully submitted,

CITY ENGINEER

The following is a list of vehicles and machinery used in COMMON SERVICES, together with the repair costs for 1972 and 1973, including tires and tubes.

Name of Vehicle	Year Purchased	1972 Repairs	1973 Repairs
Austin Western Grader (300 Pacer) #37	1962	\$ 3,560.78	\$ 3,091.10
Gallion Grader Model T-400 #38	1972	484.96	1,136.06
Gallion Grader Model 118 #36	1966	3,118.20	4,806.21
Caterpillar D-5			
Bulldozer #27	1969	414.80	6,677.37
International TD-8 #26	1971	587.63	874.07
Case 750 D			
Bulldozer #50	1965	225.22	4,180.60
Case 850 Bulldozer #48	1968	3,370.95	3,344.00
Dodge Vacall #42	1971	657.55	2,015.67
Hy-Hoe 3/8 Yd.			
Backhoe #20	1964	5,672.12	2,133.84
Unit $\frac{3}{4}$ Yd. Backhoe #56	1957	335.87	2,205.66
Case W9 Frontend Loader #25	1967	4,294.65	4,111.52
Allis Chalmers Loader #46	1970	2,660.63	5,037.06
Arpic Compressor #66	1953	-	-
Ingersol Rand Compressor #23	1957	-	23.88
Copco Compressor #68	1964	156.89	209.92
Ingersol Rand Compressor #58	1969	3.66	96.71
Tarvia Roller Model #157	1955	-	-
Essick Roller #72	1970	310.56	265.98
Willys Jeep #12	1971	723.04	729.56
Willys Jeep #40	1968	413.61	-
Ford Bronco #28	1969	557.36	1,042.23
Ford 3 Ton #43	1970	385.98	473.46
Dodge 3 Ton #17	1969	581.93	460.93
International 3 Ton #55	1968	440.37	589.93
Dodge $\frac{1}{2}$ Ton #3	1970	174.01	1,012.36
Dodge $\frac{1}{2}$ Ton #51	1967	182.13	469.39
G.M.C. Panel #4	1968	255.85	266.68
Chevrolet 3 Ton #9	1971	172.81	725.88
Dodge $\frac{1}{2}$ Ton #6	1971	133.57	440.11
Miller Welder #65	1959	107.61	-
International Scout #29	1972	38.00	260.92
Ford Custom Fordor #1	1972	54.19	327.19
Vibras Compactor #59	1969	29.27	96.41
Ford 3 Ton #21	1972	18.42	164.87
1968 Mercury $\frac{1}{2}$ Ton	1972	19.74	403.15
Willys Jeep #11	1970	823.66	709.00
Essick Roller #64	1971	58.81	119.74
International Scout #30	1973	-	66.53
Chevrolet $\frac{1}{2}$ Ton #8	1972	-	70.52
3 Ton G.M.C. #16	1973	-	4.00
International 3 Ton #22	1955	-	841.89
Chevrolet 3 Ton #63	1954	-	192.83
Miller Welder #91	1971	-	50.88
TOTALS		\$ 31,024.83	\$ 49,728.11

The following items of machinery were purchased in 1973 and charged to Common Services:

1 - 1973 G.M.C. 3-Ton Truck

Model C561803

Cost\$ 6,280.00

8% Tax 502.40

Sub-Total\$ 6,782.40
Municipal License 6.00

TOTAL\$ 6,788.40

1 - 1973 International Scout II

Serial No. CGD37659

Cost\$ 4,400.00

8% Tax 352.00

Sub-Total\$ 4,752.00
Municipal License 6.00

TOTAL\$ 4,758.00

TOTAL YEARLY EXPENDITURE

The total yearly net expenditure under the direct supervision of the City Engineer in 1973 amounted to \$2,064,286.95.

A graphic comparison of expenditures for labor, labor and hired machinery and total expenditure (including labor and hired machinery) and materials are shown on the following graph.

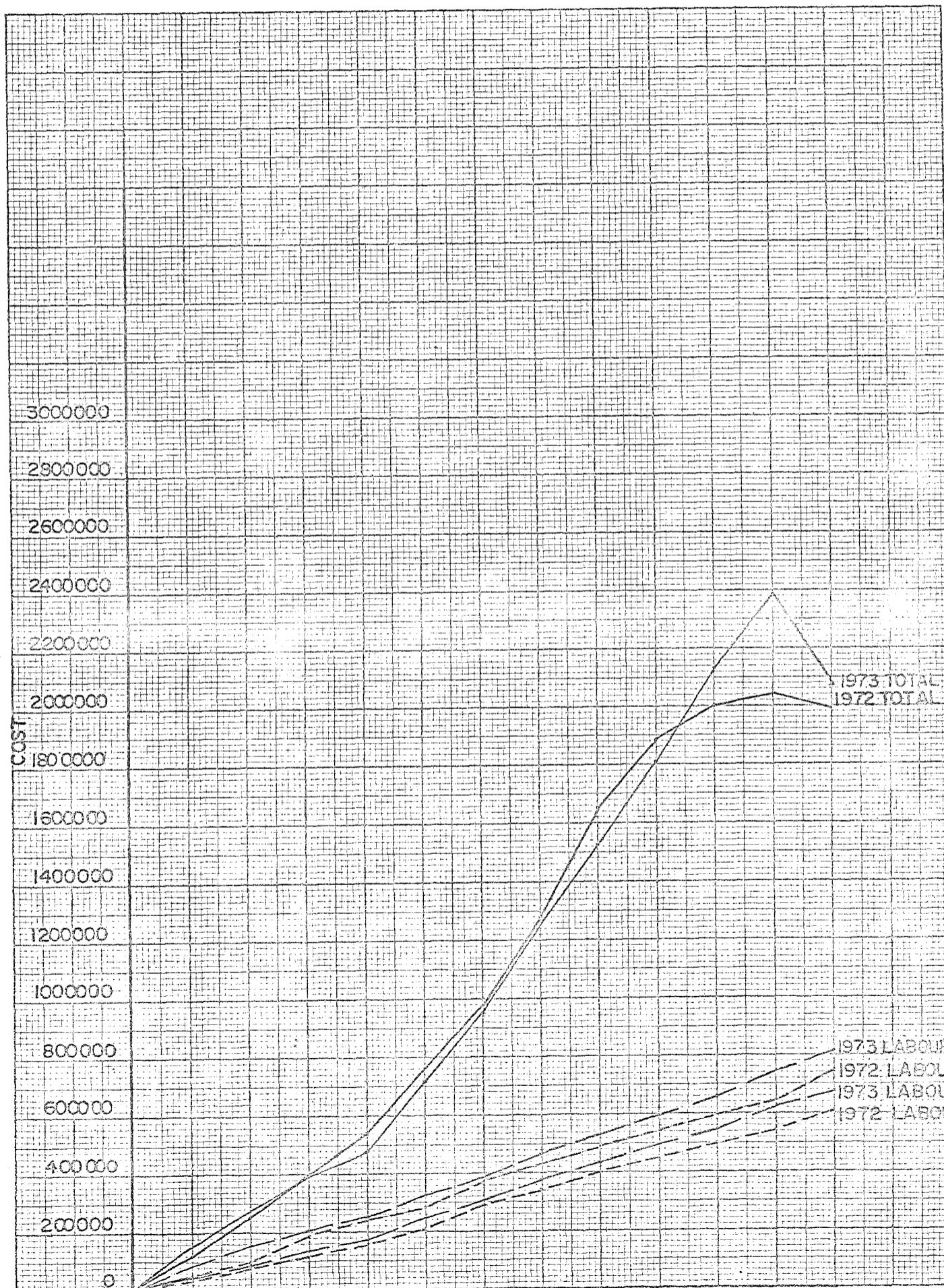
The locations of new construction completed or commenced in 1973 are shown on maps inserted after Page 5 of this report.

Following the maps is a graph showing the distribution of the City of Fredericton Tax Dollar in 1973.

TRANSPORTATION SERVICES

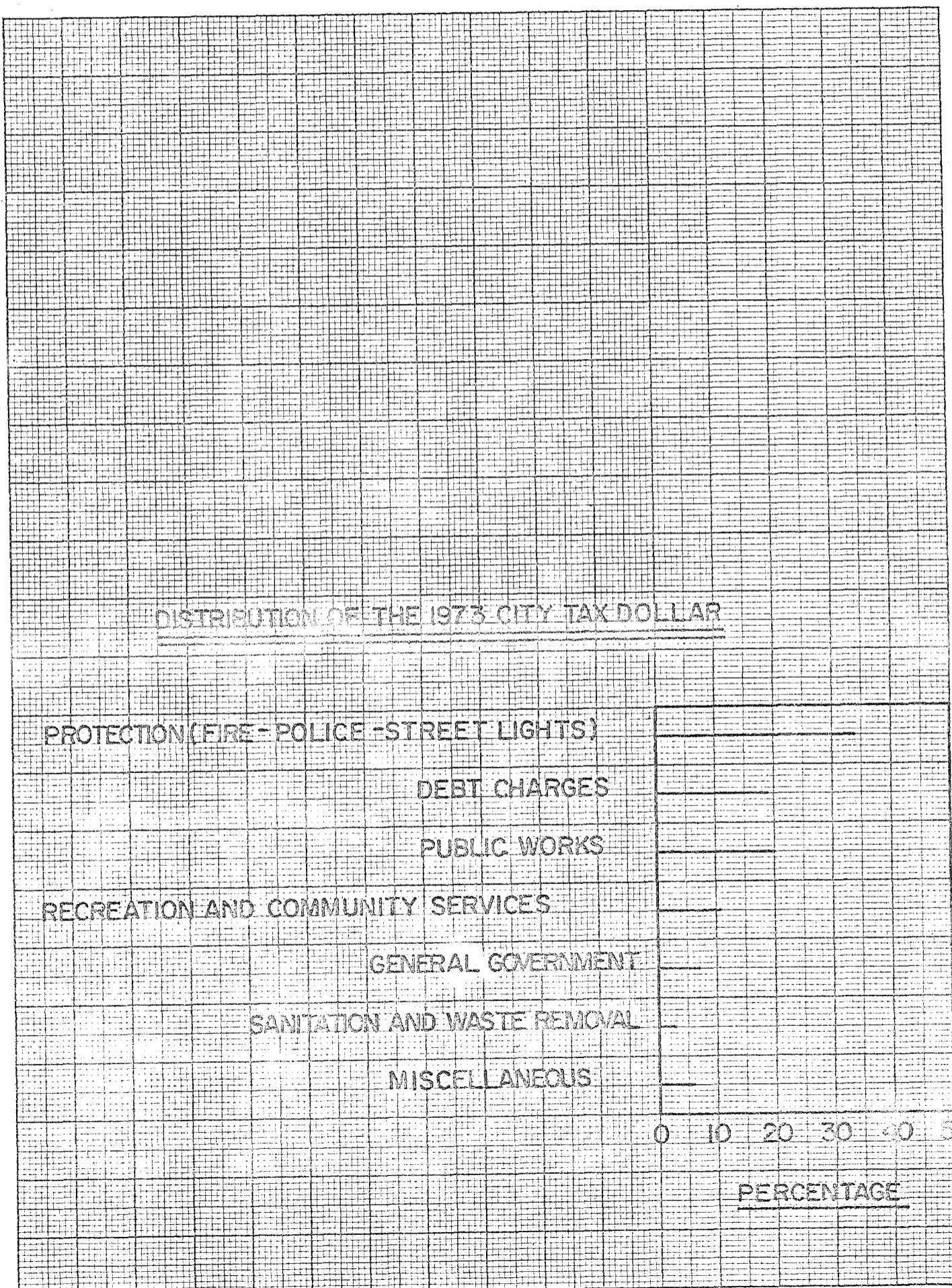
The expenditure under this heading is subdivided under five main headings:

- (1) Common Services
- (2) Road Transport
- (3) Roads & Streets
- (4) Street Lighting
- (5) Traffic Services



JAN. FEB. MAR. APR. MAY JUNE JULY AUG. SEPT. OCT. NOV. DEC.

TOTAL NET EXPENDITURE - 1972 AND 1973.



(1) COMMON SERVICES: The total net expenditure under this heading was \$217,364.38 and is made up as follows:

Administration	\$ 6,818.28
Engineering Services	32,552.50
General Equipment (Fuels, lubricants,)	
Maintenance & Repairs, etc.; small tools & equipment, Purchasing Eqp.)	100,430.12
Workshop, Yard & other Buildings ..	27,848.55
Research Planning & Design	1,017.40
Other (Pensions, U.I.C., Workmen's)	
Compensation, Supplementary Benefits)	<u>83,506.33</u>

TOTAL 252,173.18

LESS CREDITS

Credit on Contract Plans	21.00
Journal Voucher (Salary-Water)....	3,600.00
Journal Voucher (Gas, Diesel, Oil, Varsol).....	797.19
Petrofina Canada & Gulf Oil (Credit on Drums)	111.00
Journal Voucher-City Yard (Space Rental)..	8,600.00
Journal Voucher (City Pensions)...	12,988.28
Journal Voucher (Canada Pensions).	6,175.91
Workmen's Compensation Payments...	2,285.89
Miscellaneous (Telephone, U.I.C., Shovels, etc.)	229.53

TOTAL 34,808.80

NET EXPENDITURE \$217,364.38

(2) ROAD TRANSPORT: The total expenditure under this heading was \$5,027.73 for administration costs.

(3) ROADS & STREETS:

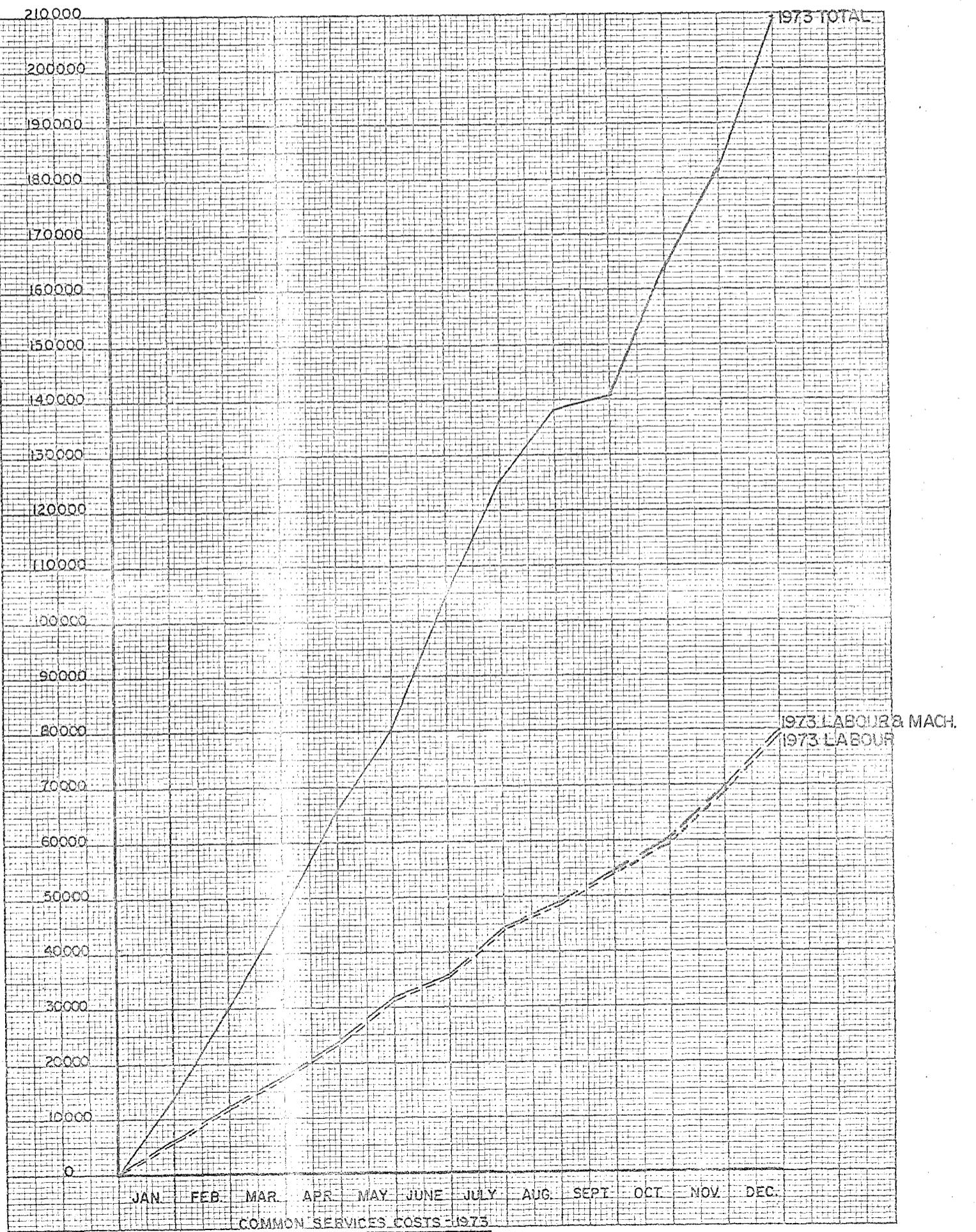
There are in the pre-amalgamation area of the City of Fredericton 80.46 miles of Roads and Streets; 13.08 miles being located on the north side of the Saint John River and 67.38 miles on the south side. In addition there are 63.69 miles of Concrete and asphalt sidewalks; 9.66 miles on the north side and 54.03 miles on the south side.

	<u>Urban</u>	<u>Rural</u>	<u>Total (Miles)</u>
Paved	64.93	5.31	70.24
Gravel	2.53	6.27	8.80
Chip Seal	<u>1.01</u>	<u>0.41</u>	<u>1.42</u>
TOTALS	<u>68.47</u>	<u>11.99</u>	<u>80.46</u>

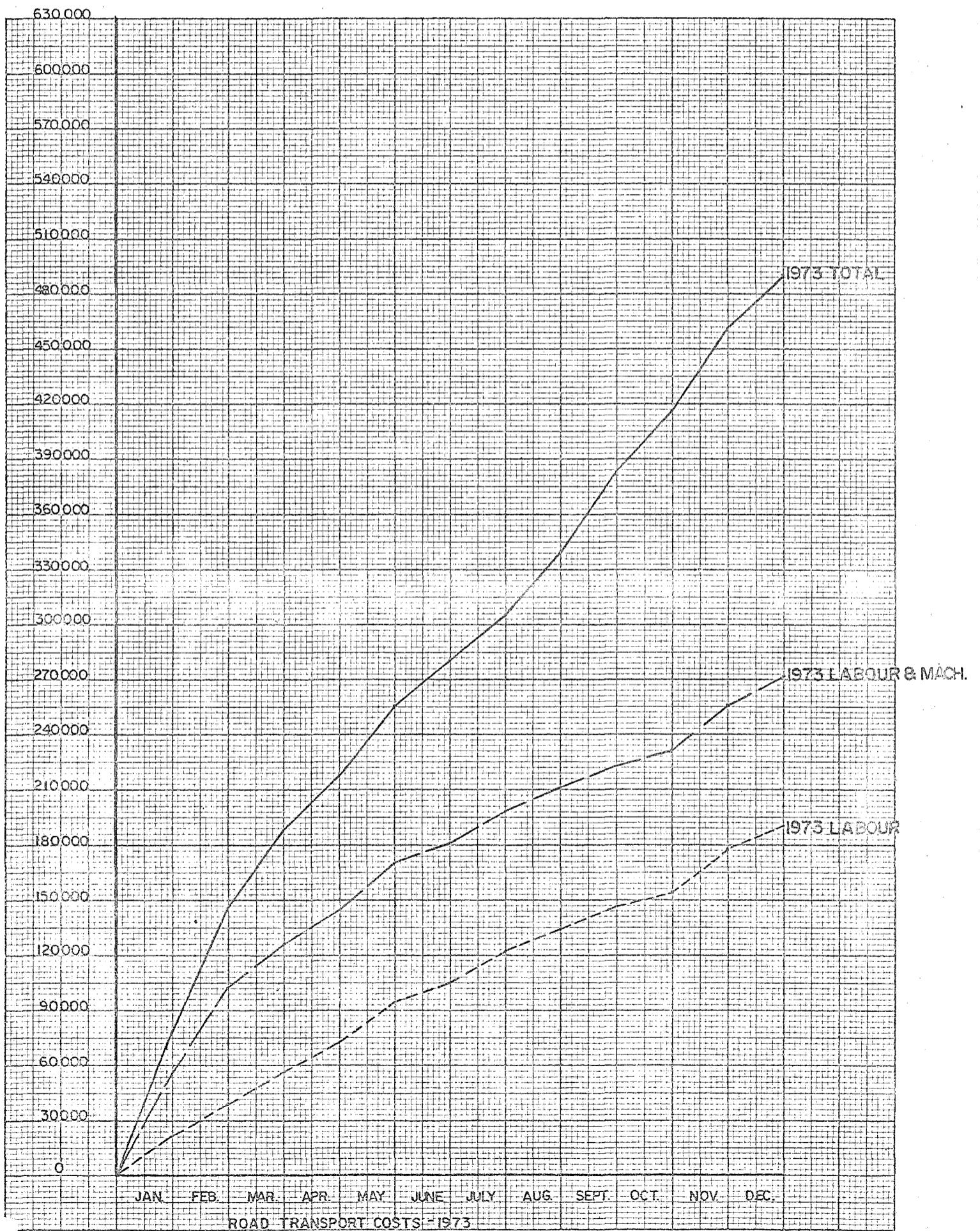
ROADS & STREETS EXPENDITURES-1973

Gross Expenditures	\$ 391,222.70
Credits	<u>17,808.09</u>
Net Expenditure	\$ 373,414.61
1973 Appropriation	<u>\$ 425,800.00</u>

HUGHES OWENS 404G



HUGHES OWENS 335 3860



The above credit of \$17,808.09 is made up of labor and material charged to private parties, materials such as gas, oil, etc. used by other City Departments, materials such as sand, salt, rock dust, etc. to other City Departments.

The Gross Expenditure is divided as follows:

Labor - the total of Roads & Streets		
	Payrolls	\$185,064.76
Hired Trucks and Machinery	79,581.85	
Material Charges - which includes		
Workmen's Compensation, Unemployment		
Insurance and all materials including		
purchase and repairs to City owned equipment	<u>126,576.09</u>	
TOTAL	\$391,222.70	

The net expenditure of \$373,414.61 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.

- (1) Roadway Surfaces (Maintenance)
- (2) Sidewalks (Maintenance)
- (3) Drainage Ditches, Culverts, etc.
- (4) Storm Sewers
- (5) Street Cleaning & Flushing
- (6) Snow & Ice Removal

(a) ROADWAY SURFACES (MAINTENANCE)

(1) Gravel Roads and Chip Seal

City Motor Grader:

Operator's Wages \$2,126.37
Machinery Charges 2,435.00
\$4,561.37

Less Credits: Grading Privately
Owned Business Yards
and Apartment Building
Yards \$185.45

TOTAL \$4,375.92

Grading and Gravelling

Grading and application of Gravel on
City Roads and Streets.

Labour \$ 614.81
Hired Trucks &
Machinery 10.80
City Machinery
Charges 379.00
Materials (Crushed
Rock, Class "A"
Gravel, Dust) 1,148.84
TOTAL \$2,153.45

604.65 Tons of Class "A" crushed gravel was used in the
maintenance and repairs to Gravel Roads under Roadway Surfaces.

The gravel was purchased from Gorman Construction
at a contract price of \$1.90 per ton for Class "A" ($1\frac{1}{4}$ "')
crushed gravel.

312.90 Tons of dust was purchased from Diamond
Construction at \$2.70 per ton.

Rural Roads (Unserviced): All work done other than that done by
the Motor Graders.

Road	Materials	Labour	Hired Machinery	City Machinery	Total Expenditures
Lincoln Road	\$318.00	671.00	60.80	109.50	\$1,159.30
Wilsey Road	-	1,735.20	20.00	272.00	2,027.20
Doak & Flanagan Roads	256.50	203.58	10.00	252.50	722.58
Maryland Road	-	99.28	60.00	-	159.28
Corbett Road (Kimble Road)) (From existing pavement on Forest Hill Rd. to the Vanier Highway & Tower Rd((Draco Road))	-	145.92	-	240.00	385.92
TOTALS..	<u>\$574.50</u>	<u>\$2,854.98</u>	<u>\$150.80</u>	<u>\$874.00</u>	<u>\$4,454.28</u>

Chip Seal: There was no Chip Seal placed on City Streets in
1973.

(2) Paved Streets

Patching and repairing pavement, applying seal coat, light tar or asphalt to pavement.

Labour	\$ 20,191.98
Hired Trucks & Machinery..	301.00
City Machinery Charges ...	8,928.25
Materials	<u>22,186.02</u>
TOTAL	<u>\$ 51,607.25</u>

When local contractors have a plant set-up, patching materials can be obtained more economically. Patching material when available was obtained from Gorman Construction, Forbes & Sloat Ltd., Perma Paving and Flintcote Co. Ltd. (Cold Mix).

The total net expenditure for Pavement Repairs for 1973 under the above heading, including Workmen's Compensation, Pension Fund, Holiday and Sick Leave amounted to \$48,013.08 and was computed as follows:

Asphalt:

Stock from 1972

450 Gallons RS2	\$ 210.65
945 Gallons RC3	<u>330.75</u>
	\$ 541.40

Plus Stock Purchased in 1973

2520 Gallons (RS1 & RS2).....	<u>1,180.15</u>
TOTAL STOCK..	\$ 1,721.55

Less Stock for 1973

13 Barrels (585 Gallons RS1 & RS2)..	<u>273.85</u>
NET COST OF LIQUID ASPHALT.	<u>\$ 1,447.70</u>

Expenditures:

Cost of Hot Mix Asphalt	\$ 12,580.68
Cost of Cold Patch Asphalt	2,739.83
Liquid Asphalt	1,447.70
Crusher Dust	457.51
Crushed Rock	6,158.69
Repairs to Plant Equipment	553.63
Propane Gas	119.08
City Labour (City Employees, including)	
Pension Fund, Workmen's)	
Compensation, Sick Leave)	
and Holiday Account)....	23,826.54
Hired Trucks and Machinery	301.00
City Machinery	8,228.25
Miscellaneous (Pick Axes, Water Cans, etc.)	<u>104.06</u>
GROSS EXPENDITURE	\$ 56,516.97

Less Credits

Work done and materials used for Private Parties	5,586.27
Journal Vouchers (Materials used by other)	
City Departments)	<u>2,917.62</u>
NET EXPENDITURE	\$ <u>48,013.08</u>

(3) Asphalt Sealing Program:

Expenditure \$ 35,238.63

Under this heading the following streets were surface sealed with 3/8" Minus Asphalt by Forbes & Sloat Limited.

<u>LOCATION</u>	<u>LINEAL FEET</u>
Medley Street-Dobie Street to MacLaren Avenue	1080
Coombes Street	800
Athlone Street	620
Dobie Street-Medley Street to School Street	1225
Carney Street	870
Neill Street-Dobie Street to MacLaren Avenue	890
School Street	920
Philip Street	380
Elizabeth Street	390
Forbes Street	760
Smythe Street-Queen Street to Brunswick Street	515
Corner of King-Brunswick-Smythe to Odell Avenue	600
York Street-C.P.R. Tracks to Victoria Street	435
Westmorland Street-Brunswick Street to George Street	365
Aberdeen Street-Smythe Street to Westmorland Street	<u>1320</u>
TOTAL	11,170 Lineal Feet

11,170 Lineal Feet = 2.12 miles

Following is the expenditure for materials and labour for the Surface Sealing of the above streets:

Materials	\$ 30,344.03
Hired Machinery	13.00
City Machinery	1,627.50
Labour	<u>3,254.10</u>

TOTAL \$ 35,238.63

Street preparatory work for Surface Seal was done by City Crews.

(4) Curb and Gutter Repair:

Net Expenditure \$ 4,149.64

The total expenditure under this heading was made up as follows:

Labour, Hired Trucks & Machinery	\$ 3,526.84
City Machinery Charges	507.75
Materials	<u>1,619.30</u>
Credits	<u>1,504.25</u>
NET EXPENDITURE	<u>\$ 4,149.64</u>

Credits were made up of the following:

Material and Labour Charged to
Private Individuals for Curb
Repair \$1,504.25

(5) Driveway Entrances: (Maintenance)

Expenditure \$ 7,537.18

The total expenditure was made up as follows:

Labour \$ 3,250.53
Hired Trucks and
Machinery 35.00
City Machinery Charges. 1,495.50
Materials 2,756.15

TOTAL EXPENDITURE \$ 7,537.18

(6) Right-Of-Ways, Rip-Rap, Mowing, etc.

Item	Labour, Hired Trucks and Machinery	City Machinery Charges	Materials	Credits	Totals
Erection of Guard Posts	\$ 856.70	\$ 251.50	\$ 125.46	\$ 175.00	\$1,058.66
Sodding & Seeding	2,230.86	250.00	545.60	-	3,026.46
Rip-Rapping	1,357.82	219.25	-	-	1,577.07
Mowing	3,458.39	420.50	444.67	-	4,323.56
TOTALS....	<u>\$7,903.77</u>	<u>\$1,141.25</u>	<u>\$1,115.73</u>	<u>\$ 175.00</u>	<u>\$9,985.75</u>

TABLE COMPARING YEARLY COSTS OF LABOUR AND
HIRED MACHINERY ON ROAD TRANSPORT ITEMS

ITEM	1970	1971	1972	1973
*Sanding Streets	\$ 13,707.47	\$ 16,930.94	\$ 22,338.45	\$ 13,839.81
Sanding Sidewalks	-	-	-	5,777.38
Snowplowing Side- walks	4,492.84	7,077.38	10,945.46	5,986.38
Snow Control	73,432.19	122,556.12	155,087.03	110,736.97
Grading & Gravelling	571.87	340.93	248.28	625.61
Lincoln Road	465.37	59.93	627.57	731.80
Wilsey Road	2,351.64	483.01	616.32	1,755.20
Doak & Flanagan Rds.	1,394.38	66.62	265.66	213.58
Maryland Road	2,219.72	2,190.18	332.02	159.28
Rural Roads	55.25	103.03	266.64	145.92
Asphalt Repairs	39,016.15	30,963.01	23,057.62	20,492.98
Motor Graders	1,597.02	2,050.49	1,036.45	2,126.37
Parking Lots	892.31	352.28	8.49	869.01
Clearing Along Rts-of-Way	169.95	- "	-	-
Chip Seal	559.44	153.88	232.32	193.54
Surface Seal	1,716.21	1,192.70	3,339.66	3,073.56
Administration	-	-	-	4,948.41
Street Signs	-	-	-	1,214.47
TOTALS	<u>\$ 142,641.81</u>	<u>\$184,520.50</u>	<u>\$218,401.97</u>	<u>\$172,890.27</u>

* Sanding Sidewalks included for 1970, 1971, 1972

Mileages obtained from the Department of Highways - Planning Division, for areas of the amalgamated City.

NOTE: Does not include 1973 New Construction.

Location	Municipal Roads & Streets			Provincial Routes			By-Passes
	Total	Paved	Gravel	Total	Paved	Gravel	
South Fredericton	56.007	51.503	4.504	13.012	12.452	1.560	9.019
North Fredericton	9.974	9.467	0.507	4.135	4.135	0.000	
Nashwaaksis	20.969	18.433	2.536	5.077	5.077	0.000	
Marysville	12.107	9.290	2.817	5.430	5.430	0.000	
Barker's Point	4.188	3.683	0.505	3.333	3.333	0.000	
Silverwood	2.394	1.915	0.479	1.713	1.713	0.000	
Garden Creek	8.782	3.449	5.333	5.049	5.049	0.000	
Douglas	2.607	1.776	0.831	1.587	1.587	0.000	
Lincoln	2.043	1.809	0.234	0.787	0.787	0.000	
Lower St. Marys	0.840	0.607	0.233	0.929	0.929	0.000	
Killarney Road	0.206	0.206	0.000	2.629	2.629	0.000	
TOTALS . . .	120.117	102.138	17.979	43.681	42.121	1.560	11.465

(b) SIDEWALKS (Maintenance)

The expenditure under this heading amounted to \$12,824.41 and was made up as follows:

Labour & Hired Machinery.	\$ 7,615.63
City Machinery Charges ..	1,343.00
Materials	<u>3,865.78</u>
 GROSS EXPENDITURE	\$ 12,824.41
Credits	<u>1,597.50</u>
 NET EXPENDITURE	<u>\$ 11,226.91</u>

The credits were for the following:

Work done & Materials used for Private Parties	\$ 1,597.50
---	-------------

(c) STREETS (GENERAL MAINTENANCE)

The expenditure under this heading is for ditching and installation of culverts.

The total expenditure under this heading was \$3,022.32 and is made up as follows:

Labour & Hired Machinery.	\$ 2,004.34
City Machinery Charges ..	583.50
Materials	<u>434.48</u>
 GROSS EXPENDITURE	\$ 3,022.32
Credits	<u>25.06</u>
 NET EXPENDITURE	<u>\$ 2,997.26</u>

The credits were made up as follows:

Labour Charges to Fred McAdam
for Culvert \$ 25.06

(d) SURFACE SEWERS

Gross Expenditure \$ 17,210.84
Credits 520.80

NET EXPENDITURE \$ 16,690.04

The above credits are made up as follows:

Journal Voucher - No-Corrode Pipe \$ 21.55
Robert McAlpine - Kings Place 377.81
Province of New Brunswick 121.44

TOTAL \$ 520.80

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 breaks that occurred or extensions required for the sewer outfalls, amounting to \$16,690.04, made up as follows:

Labour \$ 11,128.32
Hired Machinery 240.40
City Machinery 4,884.25
Materials less Credits.. 437.07

TOTAL \$ 16,690.04

(e) STREET CLEANING AND FLUSHING

Gross Expenditure \$ 91,512.97
Credits 1,210.61

NET EXPENDITURE \$ 90,302.36

The gross expenditure is made up as follows:

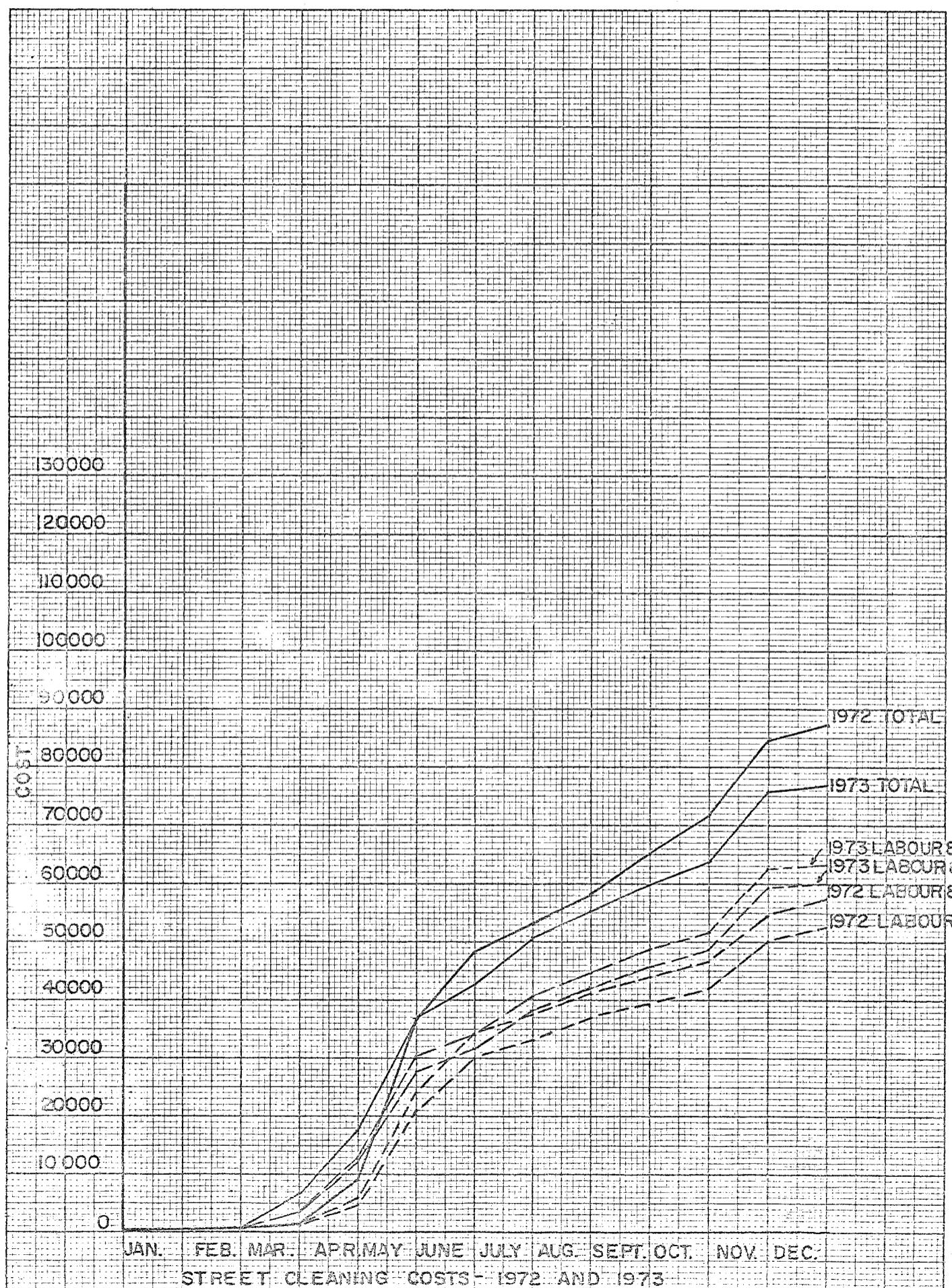
Labour \$ 59,975.35
Hired Trucks & Machinery 3,108.05
City Machinery 13,784.00
Materials 14,645.57

TOTAL \$ 91,512.97

The above credits were for the following:

Journal Vouchers
(Machinery & Materials)..... \$ 625.46
Clean-Up for Private Parties. 518.95
Canadian Wire Brush
(Credit on Freight) 66.20

TOTAL \$ 1,210.61



City Machinery and Material charges amounted to \$28,429.57 and was made up as follows:

Journal Vouchers (Pension Funds, Space Rental & City Yard and City Machinery, etc.)	\$ 13,784.00
Labour and Repairs to Sicard Flusher (including Shop Labour).....	926.25
Labour and Repairs to Wayne Sweeper (including Shop Labour).....	6,811.61
Main Brooms and Cutter Brooms	3,585.60
Hand Brooms, Repairs to Carts, etc... Painting Anti-Litter Cans	1,326.55 103.69
Purchases of other materials(CaCl, etc)	1,577.83
Minister of Finance	140.15
Labour and Repairs to Ford Oil Truck:..	173.89
TOTAL	<u>\$ 28,429.57</u>

The Wayne Sweeper (purchased in 1968) worked 1234 hours. The operating cost for cleaning streets with this machine was \$16,165.76 and was calculated as follows:

Labour & Repairs on Sweeper (including Shop Labour).....	\$ 6,811.61
Maintenance & Gutter Wire Brooms.....	3,659.55
Gasoline (2136.7 gallons)	583.12
(3.5 gallons)	
Oil (117 quarts)	69.50
Water (419,560 gallons)	203.55
Labour (including Workmen's Compensation, Holiday and Pension Fund-Operators)	<u>4,840.08</u>
TOTAL	<u>\$ 16,167.41</u>

The operating dates for the above machine (Sweeper) were from March 26, 1973 to November 20, 1973.

In 1955 the City of Fredericton purchased a Sicard Master Flusher with a capacity of 2,250 Imperial Gallons. The operating dates for this machine (Flusher) were from May 3, 1973 to September 28, 1973.

The Flusher worked 584.5 hours. The operating cost of flushing streets with this machine was \$4,893.87 and was computed as follows:

Labour & Repairs to Flusher (including Shop Labour)	\$ 926.25
Gasoline (1797.3 gallons)	503.25
Oil (57 quarts)	31.90
Water (2,630,250 gallons)	1,198.36
Labour (including Workmen's Compensation, Holiday and Pension Fund - Operators)	<u>2,234.66</u>
TOTAL	<u>\$ 4,894.42</u>

The following is a list of machinery used in street cleaning and dust control (gravelled roads) together with the repair costs for 1972 and 1973, including tires and tubes.

Name of Machine	Year Purchased	1972 Repairs	1973 Repairs
Wayne Sweeper	1968	\$ 4,324.00	\$ 6,811.61
Sicard Flusher	1955	\$ 2,013.62	\$ 926.25
Ford (1947) Oil Truck	-	\$ 54.70	\$ 311.40
TOTALS		\$ 6,392.32	\$ 8,049.26

(f) SNOW AND ICE REMOVAL

(1) Salting and Sanding Streets & Sanding Sidewalks

Storing sand in Winter Storage Pile and spreading same on slippery streets and sidewalks.

<u>Streets:</u>	Labour	\$ 11,028.01
	Hired Trucks & Machinery ...	2,811.80
	City Machinery Charges	3,393.00
	Materials	<u>29,036.20</u>
	TOTAL EXPENDITURE ...	<u>\$ 46,269.01</u>

<u>Sidewalks:</u>	Labour	\$ 5,531.28
	Hired Trucks & Machinery ...	246.10
	City Machinery Charges	1,367.00
	Materials	<u>7,259.05</u>
	TOTAL EXPENDITURE ...	<u>\$ 14,403.43</u>

4962 Cubic Yards of sand was purchased during the Fall of 1973. The sand was supplied by Wendall Thomas at a price of \$1.50 per cubic yard, delivered to the City Stock Pile.

In 1973, 1471.30 tons of salt was used for ice control. The cost and distribution charges are included under the above heading. The City purchased 1571.30 tons of salt in 1973. In stock as of December 31, 1973 - 250 tons.

(2) 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 (Streets) amounted to \$161,212.38 and was made up as follows:

Labour	\$ 38,785.97
Hired Trucks & Machinery..	71,951.00
City Machinery Charges (bulldozers, graders, etc)	30,088.75

Expendable Materials (grader, blades, chains, etc.)	\$ 4,607.87
Maintenance of Snow Equipment	11,733.99
Miscellaneous Materials (shovels, picks, etc.& Compensation)	<u>4,044.80</u>
TOTAL\$ <u>161,212.38</u>	

The following table shows comparative labour (including hired trucks and machinery) costs of Snow Control for the year 1971 to 1973 inclusive:

	1971	1972	1973
Snow plowing Roads & Streets	\$ 54,674.72	\$ 77,008.88	\$ 50,036.91
Blowing, Hauling & Shovelling	56,238.00	59,366.00	44,878.99
Catch Basins	9,416.04	14,216.38	11,907.57
Snow Fences	1,189.53	1,182.76	770.90
Plowing Parking Lots	272.32	610.73	353.45
Repairs	765.51	2,702.28	2,789.06
TOTALS	<u>\$122,556.12</u>	<u>\$ 155,087.03</u>	<u>\$ 110,736.88</u>

80.46 miles of Roads and Streets were plowed and maintained during the winter.

The unit cost per mile of plowing, salting and sanding City Roads and Streets was approximately \$2742 and was calculated as follows:

Labour	\$ 49,813.98
Hired Trucks and Machinery	74,762.80
City Machinery Charges (Grader, Bulldozer, etc.)	33,481.75
Materials (Sand and Salt)	42,072.63
Repairs to Snow Blowers & Boilers.	11,733.99
Expendable Materials (Grader blades, chains, etc.)	4,607.87
Miscellaneous Materials (Lumber, Wire, Shovels, etc.) ...	<u>4,044.77</u>
TOTAL \$ <u>220,517.79</u> (1)	

The overall cost including Workmen's Compensation, Pension Fund, and Sick Leave was approximately \$2860 per mile.

Sidewalks:

63.69 miles of sidewalk were plowed during the winter months in 1973.

Total Expenditure under this heading amounted to \$7,032.38 and was made up as follows:

Labour	\$ 5,986.38
Hired Machinery	-
City Machinery Charges.	<u>1,046.00</u>
TOTAL \$ <u>7,032.38</u>	

In 1973, the unit cost of plowing and sanding one mile of sidewalk was approximately \$248.00 and was made up as follows:

Labour	\$ 11,517.66
Hired Trucks & Machinery ...	246.10
City Machinery Charges	2,413.00
Materials (Sand)	<u>1,598.48</u>
TOTAL	<u>\$ 15,775.24 (2)</u>

The overall cost, including Compensation, Pension Fund, and Sick Leave was approximately \$281 per mile.

TOTAL COST OF SNOW CONTROL - Add (1) and (2)
.....\$236,293.03

NET COST OF SNOW CONTROL
(Less City Machinery Charges \$35,894.75)....\$200,398.28

SnowFall in Fredericton for the last five years was as follows:

January 1, 1969 to December 31, 1969.....	77.0 inches
January 1, 1970 to December 31, 1970.....	121.2 inches
January 1, 1971 to December 31, 1971.....	107.6 inches
January 1, 1972 to December 31, 1972.....	163.0 inches
January 1, 1973 to December 31, 1973.....	62.0 inches

SNOW FENCES:

12,000 feet of lath and wire snow fencing was erected under Snow Control to prevent drifting snow from building up on outlying roads.

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

Name of Vehicle	Year Purchased	1972 Repairs	1973 Repairs
Dodge 3 Ton #60	1967	\$ 913.47	\$ 463.02
Sicard Snow Blower #86	1949	141.80	3,120.91
Sicard Snow Blower #39 (1952 Model)	1959	1,825.79	910.08
Sicard Snow Blower #47	1963	1,554.10	3,820.28
Ford Sand Spreader #61	1960	1,266.57	1,047.72
International Sand Spreader #62	1951	225.93	1,002.88
Chevrolet Sand Spreader #10	1960	240.87	-
Oil-Fired Boiler	-	113.48	807.60
Bombardier #54	1968	1,605.23	561.50
TOTALS		\$7,887.24	\$11,733.99

The above costs include City labour, outside labour, and parts for the equipment shown.

STREET LIGHTING

Previous to 1969 the City of Fredericton obtained its electric power from the Maritime Electric Company. On January 1, 1969 the Maritime Electric Company was taken over by the New Brunswick Electric Power Commission.

In 1970 all Series Street Lights on both sides of the Saint John River were converted to a multiple lighting system using Mercury Vapor Lamps.

The Multiple Lighting System as of December 31, 1973 consisted of:

1165 - 250 W. Ref. M.V.	@ \$60.00 per light	per year
399 - 400 W. Ref. M.V.	@ \$80.40 per light	per year
1 - 500 W. Ref. Inc.	@ \$60.00 per light	per year

Additions or Removals

1 Addition

The Total Street Lighting Costs for 1973 are as follows:

Gross Expenditure	\$105,939.63
Credits	<u>1,062.60</u>
NET EXPENDITURE	<u>\$104,877.03</u>

The above expenditure is made up as follows:

Labour	\$ 20.22
N.B.E.P.C. (Waterloo Row Subway Lights).....	67.20
N.B.E.P.C. (Cenotaph Lights)	243.23
N.B.E.P.C. (Multiples and Mercurys)	104,302.07
Stan Cassidy (Bulbs & Installation of Lights at Under- Pass)....	1,269.44
Harris & Roome (Bulbs)	8.29
Sherwin Williams (Paint)	<u>9.18</u>
TOTAL	\$ 105,939.63

Less Credits:

Journal Voucher	<u>1,062.60</u>
NET EXPENDITURE	<u>\$ 104,877.03</u>

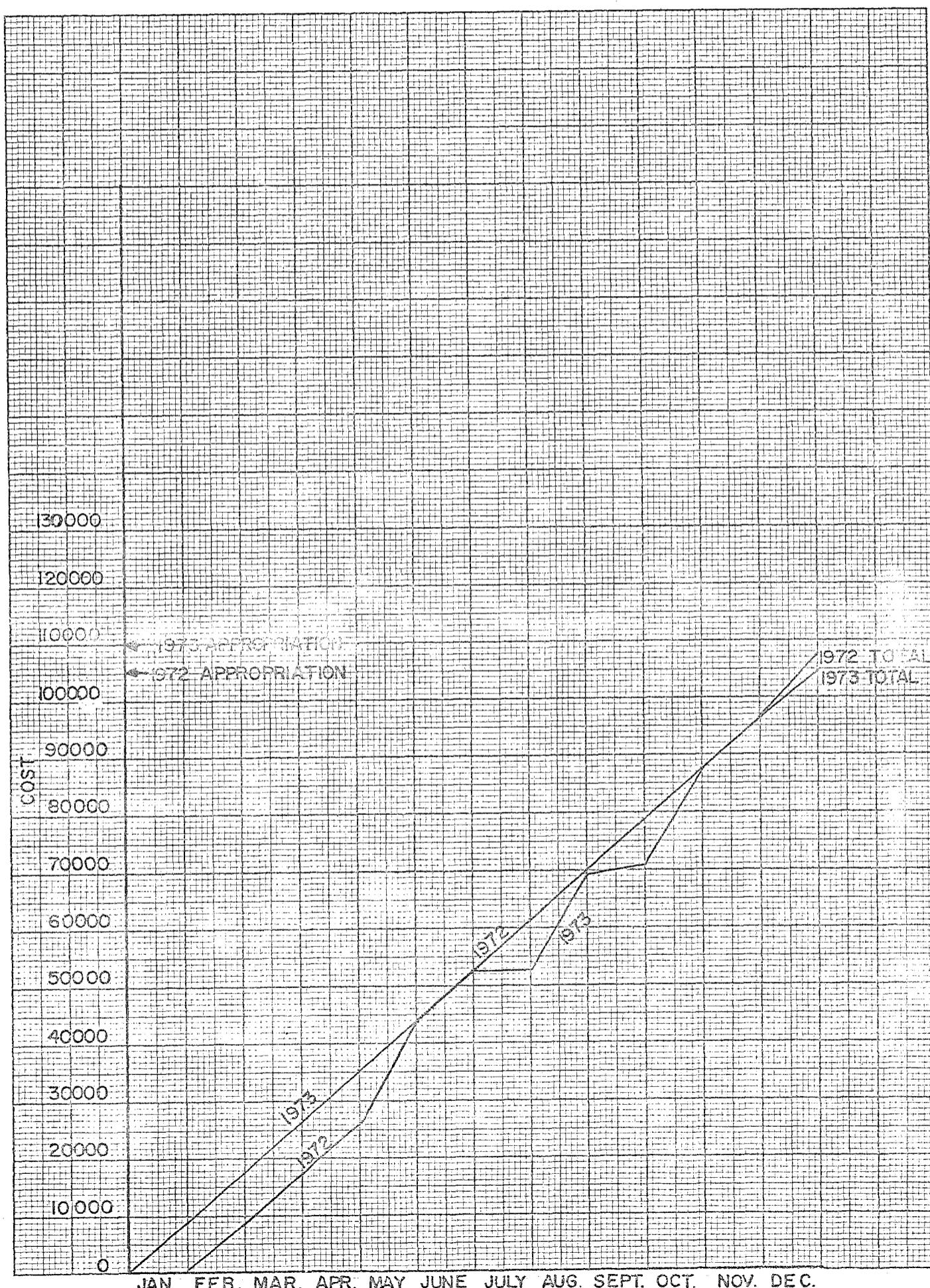


TABLE SHOWING COMPARATIVE YEARLY COST IN STREET LIGHTING

YEAR	TOTAL YEARLY COST	YEARLY APPROPRIATION
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	62,874.00
1966	72,083.35	70,180.00
1967	74,017.50	73,010.00
1968	80,012.18	76,915.00
1969	72,591.54	82,305.00
1970	78,928.31	78,000.00
1971	87,714.60	89,400.00
1972	107,018.55	105,000.00
1973	104,877.03	110,000.00

TRAFFIC SERVICES

The expenditure under this heading is made up as follows:

(1) Street Signs

(2) Off Street Parking

(1) Street Signs:

Purchasing, repairing and installing Street Signs on City Streets.

The expenditure under this heading amounted to \$2,973.70 and was made up as follows:

Labour	\$ 1,214.47
City Machinery	4.00
Materials	<u>1,943.73</u>
Less Credits	<u>188.50</u>
NET EXPENDITURE	<u>\$ 2,973.70</u>

Credits:

Journal Vouchers \$ 188.50

(2) Off Street Parking:

The expenditure under this heading amounted to \$2,583.01 and was made up as follows:

Hired Machinery	\$ 152.80
Labour	716.21
City Machinery Charges	1,714.00
Materials	<u>-</u>
TOTAL	<u>\$ 2,583.01</u>

The above costs are for maintenance and snow removal for the Public Parking Area west of the Canadian Legion Building, Queen Street.

CAPITAL ACCOUNT CURB & GUTTER

The net expenditure under this heading amounted to \$62,480.70.

For the above expenditure, concrete curb and gutter was constructed at the following locations:

<u>Location</u>	<u>Lineal Feet</u>
Charing Crescent - Both Sides	3,239
Prospect Street	2,216
Parklyn Court -- Both Sides	1,139
Foley Court - Both Sides	1,716
Waggoner's Lane	248
Boyne Street - Both Sides	785
Flemming Road - Both Sides	687
Nottingham Street - Both Sides	1,643
Bradford Street - Both Sides	1,416
Wilsey Road	867
Friel Street - Court Portion	100
Dunn Road	170
Princess Anne Court - Both Sides	602
TOTAL	<u>14,828 Feet</u>

All the above listed curb and gutter was constructed by City Crews.

All the concrete poured was purchased ready-mix from Gordon's Ready-Mix Ltd. at a price of \$21.50 per cubic yard.

The unit cost of one lineal foot of curb and gutter, found by dividing the total length laid, which equals 14,828 lineal feet into the total cost of \$62,480.70 is \$4.21 per lineal foot. The topsoiling of boulevards is included in this cost.

The unit cost of one lineal foot of curb and gutter minus topsoiling was \$3.09 per lineal foot and was calculated as follows:

Topsoiling Costs:

Labour	\$ 9,710.90
Hired Trucks & Machinery ...	321.25
City Machinery	1,309.00
Materials (3452 cu. yds. topsoil).....	<u>5,350.60</u>
TOTAL	<u>\$ 16,691.75</u>

Total cost of Curbing, including Topsoiling	\$ 62,480.70
Cost of Topsoiling	<u>16,691.75</u>

TOTAL COST OF CURBING .. \$ 45,788.95

Cost/Lin.Ft. in Place = \$45,788.95 = \$3.09 per lineal
14,828 Ft. foot

Cost per lineal foot of Topsoiling

\$16,691.75 = \$1.13 per lineal
14,828 Ft. foot

Labour cost of constructing 1 lineal foot
of Curb and Gutter, minus Topsoiling was

..... \$22,807.93 = \$1.54 per lineal foot
14,828 Ft.

CAPITAL ACCOUNT PAVING

In 1973, Forbes and Sloat Limited was awarded a contract to lay pavement and resurface a number of City Streets.

The material cost amounted to \$110,590.98 and was made up as follows:

Forbes and Sloat Limited

4,005.85 tons $\frac{3}{4}$ " Hot Mix Asphalt @ \$10.00 per ton...	\$ 40,058.50
3,577.65 tons $\frac{3}{8}$ " Minus Asphalt @ \$11.50 per ton...	41,142.97
2,421.95 tons $\frac{1}{2}$ " Minus Asphalt @ \$10.40 per ton....	25,261.21
6,450.00 Gallons Tack Coat @ \$.04 per gallon.....	258.00
7,500.00 Gallons Primer @ \$.04 per gallon.....	300.00

Gorman Construction Co. Ltd.

Base & Seal Asphalt	\$ 368.90
6.50 tons Seal Asphalt	71.50

Perma Paving Asphalt Ltd.

6.50 tons Base Asphalt	65.00
------------------------------	-------

Miscellaneous (Advertisement, paint, Pension Fund,
contribution, portion of staff salaries) 3,064.90

TOTAL \$110,590.98

The street preparatory work, other than the laying in place of the pre-mixed material, was done by regular City Crews at an expenditure of \$11,537.43 made up as follows:

City Labour	\$ 8,066.93
Hired Trucks & Machinery	158.75
City Machinery	<u>3,311.75</u>

TOTAL \$ 11,537.43

The total expenditure under this heading amounted to \$122,056.91 and was made up as follows:

City Labour	\$ 8,066.93
Gorman Construction Ltd.....	368.90
Perma Paving Asphalt Ltd.....	65.00
Forbes & Sloat Ltd.....	107,020.68
Hired Trucks & Machinery	158.75
City Machinery Charges	<u>3,311.75</u>
Miscellaneous	<u>3,064.90</u>

TOTAL \$ 122,056.91

The paving program required the supply and placement of the following grades of materials:

- 1) Pavement $\frac{3}{4}$ " Dense Mix @ $\$$ /Ton
- 2) Recap $\frac{1}{2}$ " Minus @ $\$$ /Ton
- 3) Surface Seal $3/8$ " Minus @ $\$$ /Ton

1) New Pavement

The following streets were paved with $\frac{3}{4}$ " Hot Mix by Forbes and Sloat Limited:

<u>Location</u>	<u>Lineal Feet</u>
Friel Street (Court Portion)	79
Prospect Street (Average)	1,242
Charing Crescent	1,610
Wright Street	1,570
Parklyn Court	500
Foley Court	730
Boyne Street	400
Princess Anne Court	175
Flemming Road	375

TOTAL 6,681 Lineal Feet

6,681 Lineal Feet = 1.27 miles

For the above, the following materials were used:

7,500 gallons Prime @ \$0.04 per gallon..	\$ 300.00
4,005.85 tons $\frac{3}{4}$ " Hot Mix Asphalt @\$10.00 per ton....	<u>40,058.50</u>
TOTAL <u>\$40,358.50</u>	

The street grading and preparatory work was done by regular City Crews. The pre-mixed material was supplied by Forbes and Sloat from its plant situated at Marysville. The Company charged the City of Fredericton \$10.00 per ton in place.

2) Recap $\frac{1}{2}$ " Minus

The following streets were recapped by Forbes and Sloat Limited in 1973:

<u>Location</u>	<u>Lineal Feet</u>
York Street-Albert St. to Montgomery Street	2,565
Forest Hill - Canterbury Dr. to Woodbridge Street	470
Gill Street-Union Street to C.P.R. Tracks	690
Neill Street-Union Street to C.P.R. Tracks	540
Lincoln Road-House #576 to C.N.R. Crossing	1,400
Wilsey Road (Average)	315

TOTAL 5,940 Lineal Feet

5,940 Lineal Feet = 1.13 miles

The following material was used for the above streets:

1,568.70 tons $\frac{1}{2}$ " Seal @ \$10.40 per ton \$ 16,314.48

The Company charged the City of Fredericton \$10.40 per ton in place.

3) SURFACE SEAL 3/8" MINUS

The following City Streets were surface sealed under "Capital Account" with 3/8" Minus Hot Mix:

<u>Location</u>	<u>Lineal Feet</u>
Smythe Street-Willingdon St. to Prospect Street	1,593
Willingdon Street-Smythe St. to Stanley Street	282
Stanley Street	1,270
Willingdon Street-Stanley St. to Massey Street	1,555
Lisgar Street	1,090
Lynhaven Street & Court	1,065
Studholm Street	300
Eglinton Street	1,050
Grandame Street	570
Birch Court (<u>Simpson</u>)	460
Waggoner's Lane-Rookwood Ave. to Hanwell Road	1,790
Hanwell Road	4,420
Wilmot Court	600
Dover Crescent	850
Southampton Drive-Liverpool St. to Dover Crescent	380
Norfolk Drive	1,390
Bristol Street	396
Beaverbrook Street-University Ave. to Forest Hill crossing	<u>1,525</u>
TOTAL	<u>20,586 Lineal Feet</u>

20,586 Lineal Feet = 3.90 miles

For the above streets, the following materials were used:

3,577.65 tons 3/8" Minus Asphalt @ \$11.50
per ton \$ 41,142.98
6,450 gallons Tack Coat @ \$0.04
per gallon 258.00
TOTAL \$ 41,400.98

The Company charged the City of Fredericton \$11.50 per ton in place.

CAPITAL ACCOUNT DOMESTIC SEWER

Gross Expenditure and Stocked Material \$ 212,679.69
Less Inventory December 31, 1973 \$ 13,401.75
Credit \$ 136,774.56
NET EXPENDITURE \$ 62,503.38

Included in the Net Expenditure of \$62,503.38 is the amount of \$6,408.33 holdback from jobs completed in 1973 and showing in 1974 accounts.

The above credit is made up as follows:

Journal Vouchers (materials paid for by Capital Account Domestic Sewer	\$ 5,331.02
and charged to other City Departments	1,540.66
Work done & materials sold to Private Parties..	
Parkside Development)	50,225.85
Fredericton Housing) Local	5,127.14
Hill Bros. Ltd.) Improvement	13,608.99
Chippins Ltd.) Charges	12,808.06
Greendale Ltd.)	8,165.59
 SUB-TOTAL	<u>\$ 96,807.31</u>

Plus Credits on Shared Cost Projects:

Dept. of Health, Province of New Brunswick	
Priestman St. \$ 4,200.00	
Regent Street <u>35,767.25</u>	<u>39,967.25</u>
 TOTAL CREDITS	<u>\$136,774.56</u>

Domestic Sewer Mains were constructed at the following locations:

Location	LINEAL FEET				
	16"	12"	10"	8"	6" F.M.
**Priestman St. (Installed by F'ton Housing)				1208'	
**MacKenzie Road (Installed by John Kilburn & Sons)			658'		
Flemming Road (Installed by John Kilburn & Sons)				935'	
Parkside Development (Installed by F'ton Housing)			863'	796'	
Meadow Green Court (Installed by F'ton Housing)				611'	
Weyman Street (Installed by John Kilburn & Sons)				1529'	
Beaconsfield Street (Installed by F'ton Housing)				1729'	
*McKeen Street Ext. (Installed by John Kilburn & Sons)				255'	
Elgin Street (Installed by John Kilburn & Sons)				607'	
*Smythe Street Ext. (Installed by John Kilburn & Sons)				335'	425'
**Regent Street (Installed by City Crews)	650'	2420'			
 TOTALS	650'	2420'	1521'	8005'	425'

*Contract Incomplete in 1973.

**See Capital Shared Cost Projects & Capital Industrial Park A.D.B. for Expenditures.

Total Lineal Feet installed in 1973 ... 13,021

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

Location	Payment to Contractors including Reserve for Holdback	City Labour and Machinery	Materials	Total
Flemming Road	\$ 5,975.00	\$ 251.45	\$ 2,774.78	\$ 9,001.23
Parkside Develop.	17,322.00	957.73	4,821.48	23,101.21
Meadow Green Ct.	6,213.00	295.54	1,932.54	8,441.08
Weyman Street	8,254.25	634.41	4,720.33	13,608.99
*Beaconsfield St.	-	525.97	4,601.17	5,127.14
**McKeen St. Ext.	2,394.87	707.72	1,056.72	4,159.31
Elgin Street	6,227.10	517.96	1,542.28	8,287.34
**Smythe St. Ext.	14,198.19	1,070.64	3,427.08	18,695.91
TOTALS	\$60,584.41	\$ 4,961.42	\$24,876.38	\$90,422.21

*Labour and Machinery supplied by Fredericton Housing and Construction Co. Ltd. and does not appear on City Accounts.

** Incomplete in 1973.

The above costs include any holdback payments thus showing the actual cost of construction greater than the net expenditure.

Following is the cost of laying various sizes of pipe including manholes by Contractors and City Workmen and Machinery.

Cost by Contractor per Lineal Foot:

Location	A.C.D.S.				
	16"	12"	10"	8"	6" Duct. F.M.
Flemming Road (John Kilburn & Sons Ltd.)				\$ 9.63	
Parkside Development (F'ton Housing & Const. Co. Ltd.)			\$14.12	13.64 13.70	
Meadow Green Court (F'ton Housing & Const. Co. Ltd.)				14.17	
Weyman Street (John Kilburn & Sons Ltd.)				9.23	
**Beaconsfield Street (F'ton Housing & Const. Co. Ltd.)				2.96	
Elgin Street (John Kilburn & Sons Ltd.)				14.97	

** Does not include Installation of Pipe

All the above Domestic Sewer Mains were laid in a common trench with the water main.

Materials in Stock as of December 31, 1973:

2652 Lin. Ft. of 8" A.C. Pipe @ \$1.64 per foot	\$ 4,349.28
221 Lin. Ft. of 10" A.C. Pipe @ \$2.04 per foot	450.84
250 Lin. Ft. of 12" A.C. Pipe @ \$2.60 per foot	650.00
16-8" Special "B" St. Thru Sections @ \$145.95 each	2,335.20
8-10" Special "B" St. Thru Sections @ \$157.29 each	1,258.32
5-8" 3-Way-Rt. Special "B" Sections @ \$150.72 each	753.60
6-8" 3-Way-Lt. Special "B" Sections @ \$150.72 each	904.32
42-"A" Sections @ \$20.39 each	856.38
27 - Plain "B" Sections @ \$43.89 each	1,185.03
5-"C" Sections @ \$74.86 each	374.30
17 - Standard "DX" Sections @ \$10.16 each	172.72
11 - Flat Top "DX" Sections @ \$10.16 each	<u>111.76</u>

TOTAL\$13,401.75

CAPITAL ACCOUNT SURFACE SEWER

Gross Expenditure and Stocked Material	<u>\$193,324.43</u>
Less Inventory December 31, 1973	<u>10,143.04</u>
Credit	<u>\$142,902.45</u>
NET EXPENDITURE	<u>\$ 40,278.94</u>

The above credit is made up as follows:

Gordon's Ready-Mix	\$ 3,913.00
Journal Vouchers (Materials paid for by Capital Account Surface Sewer and charged to other City Departments). 15,824.68	
Work done & materials sold to Private Parties	2,777.62
Parkside Development)	43,135.36
Fredericton Housing)	6,756.26
Hill Bros. Ltd.) Local	25,612.30
Chippins Ltd.) Improvement..	20,688.78
Greendale Ltd.) Charges	<u>11,194.45</u>
SUB-TOTAL	\$129,902.45

Plus Credits on Shared Cost Projects: Dept. of Health, Province of New Brunswick (Priestman St. Sewer)\$ 13,000.00	
TOTAL	<u>\$142,902.45</u>

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

Location	Lineal Feet				
	10"	12"	15"	18"	24"
Beaconsfield Street (installed by F'ton Housing & Const. Ltd.)	300'	584'	642'	498'	
Parkside Development (installed by F'ton Housing & Const. Ltd.)	112'	902'	322'	541'	

Location	Lineal Feet						
	10"	12"	15"	18"	24"	30"	36" Corr.
**Regent St. (F'ton Housing) (By City)	96'			30'		992'	200'
Meadow Green Court (Installed by F'ton Housing)	174'	513'					
Weyman Street (Installed by John Kilburn & Sons)	84'	422'	572'	151'	567'		
York above Montgomery (City Crews)	28'						
York near Edinburgh (City Crews)	60'						
Flemming Road (Installed by John Kilburn & Sons)	64'	888'	114'				
King's College Road (City Crews)	48'						
York Street (Installed by City Crews)			198'				
Graham Avenue (City Crews)	120'						
Reid Street (City Crews)	140'						
Waterloo Row (City Crews)				120'	20'		
Tilley Drive (City Crews)	32'						
*McKeen St. Ext. (Installed by John Kilburn & Sons)	167'					350'	
Westmorland Street (City Crews)			132'				
Elgin Street (Installed by John Kilburn & Sons)	126'	560'					
**Priestman St. (Installed by F'ton Housing)	192'	780'	24'	540'			
TOTALS	1743'	4649'	2004'	1880'	937'	992'	200'

*Contract incomplete in 1973.

**See Capital Shared Cost Projects & Capital Regent Street Non-Sharable for Expenditures.

ALSO: Lynhaven Street - 20' - 4" No Corrode Offtake
 Oxford Street - 11' - 6" No Corrode Offtake

Total Lineal Feet installed under this heading in 1973 was 12,406.

An itemized account was kept for the installing of the above Surface Sewers at the following locations:

<u>Location</u>	<u>Payment to Contractors Including Reserve for Holdbacks</u>	<u>City Labour and Machinery</u>	<u>Material</u>	<u>Total</u>
Beaconsfield St.	-	\$1,099.37	\$ 5,656.89	\$ 6,756.26
Parkside Develop- ment	\$24,831.00	803.63	6,685.63	32,320.26
Meadow Green Ct.	8,695.00	295.15	1,824.95	10,815.10
Weyman Street	15,875.50	892.74	8,844.06	25,612.30
Westmorland St.	-	645.06	556.20	1,201.26
King's College Rd.	, - .	303.66	272.28	575.94
Flemming Road	8,112.00	724.29	2,680.70	11,516.99
York Street	-	1,529.00	1,356.16	2,885.16
Reid Street	-	436.43	757.49	1,193.92
York near Edinburgh	-	229.73	178.80	408.53
Tilley Drive	--	132.55	43.52	176.07
McKeen St. Ext.	2,394.87	707.72	1,056.72	4,159.31
York above Mont- gomery	-	229.73	180.66	410.39
Elgin Street	8,514.00	848.69	1,972.72	11,335.41
Lynhaven Street	-	132.38	10.00	142.38
Oxford Street	-	58.52	11.55	70.07
TOTALS	\$68,422.37	\$9,068.65	\$32,088.33	\$109,579.35

Following is the cost of laying various sizes of pipe including Catch Basins and Manholes in place by Contractors and City Workmen and Machinery:

Cost by Contractor per Lineal Foot

<u>Location</u>	<u>Concrete Pipe</u>				
	<u>10"</u>	<u>12"</u>	<u>15"</u>	<u>18"</u>	<u>24"</u>
**Beaconsfield St. (F'ton Housing & Const. Co. Ltd.)	\$ 2.58	\$ 2.78	\$ 3.49	\$ 4.22	
Parkside Develop- ment (F'ton Housing & Const. Co. Ltd.)	15.98	16.18	16.89	17.62	
Meadow Green Court (F'ton Housing & Const. Co. Ltd.)	15.29	15.49			
Weyman Street (John Kilburn & Sons Ltd.)	11.98	12.18	12.89	13.62	17.37

Location	Concrete Pipe				
	10"	12"	15"	18"	24"
Flemming Road (John Kilburn & Sons Ltd.)	\$10.54	\$10.74	\$11.45		
Elgin Street (John Kilburn & Sons Ltd.)	18.04	18.24			

** Does not include Installation of Pipe

Cost by City Crews and Machinery per Lineal Foot

Location	10" Conc.	15" Conc.	4" No Corrode	6" No Corrode
York Above Montgomery	\$14.65			
York near Edinburgh	\$ 6.83			
York Street (Needham to Aberdeen)		\$14.56		
Reid Street	\$ 8.53			
Tilley Drive	\$ 5.50			
Lynhaven Street			\$7.12	
Oxford Street				\$6.34
King's College Road	\$12.00			
Westmorland Street		\$ 9.10		

Stock on hand December 31, 1973:

668 Lin. Ft. of 10" Conc. pipe @\$1.36 per foot.....\$ 908.48
848 Lin. Ft. of 12" Conc. pipe @\$1.56 per foot 1,322.88
548 Lin. Ft. of 15" Conc. pipe @\$3.65 per foot 2,000.20
864 Lin. Ft. of 18" Conc. pipe @\$3.62 per foot 3,127.68
88 Lin. Ft. of 24" Conc. pipe @\$6.75 per foot 594.00
200 Lin. Ft. of 30" Conc. pipe @\$8.54 per foot 1,708.00
30 Lin. Ft. of 36" Corrigated pipe @\$9.02 per foot. 270.60
3 Catch Basin Frames & Covers @\$70.40 each 211.20

TOTAL \$10,143.04

CAPITAL ACCOUNT WATER

Gross Expenditure & Stocked Material	\$ 266,460.84
Less Inventory December 31, 1973	57,966.28
	208,494.56
Less Credits	<u>157,111.76</u>
NET EXPENDITURE	<u>\$ 51,382.80</u>

The above credit is made up as follows:

Shared Cost Project: Priestman St.....	\$ 14,000.00
Journal Vouchers (materials paid for by Capital Account Water & sold to other City Departments).....	8,682.30
Work done & materials sold to Private Parties	9,706.50
Parkside Development)	60,039.19
Fredericton Housing) Local	11,119.76
Hill Bros. Ltd.) Improvement ...	18,421.79
Chippins Ltd.) Charges	23,362.07
Greendale Ltd.)	<u>11,780.15</u>

TOTAL CREDITS \$157,111.76

Water Main Installations were made at the following locations in 1973:

Location	4"	6"	8"	10"	12"
**Priestman St. (Installed by F'ton Housing)		48"			1445"
Beaconsfield St. (Installed by F'ton Housing)		80"	1680"		
Flemming Road (Installed by John Kilburn & Sons)		26"		936"	4"
Parkside Development (Installed by F'ton Housing)		286"		1242"	
Meadow Green Court (Installed by F'ton Housing)		631"			
Weyman Street (Installed by John Kilburn & Sons)	46"	17"	1173"		
*McKeen Street Ext. (Installed by John Kilburn & Sons Ltd.)		20"	251"		
Elgin Street (Installed by John Kilburn & Sons)		707"			
Smythe St. Ext. (Installed by John Kilburn & Sons)		12"	9"	705"	
Shamrock Terrace (Installed by City Crews)	266"				
**MacKenzie Road (Installed by John Kilburn & Sons)		36"		656"	
TOTALS	312"	1863"	3113"	3539"	1449"

*Contract Incomplete in 1973.

**See Capital Shared Cost Projects & Capital Industrial Park A.D.B. for Expenditures.

Total Lineal Feet Laid in 1973 10,276.

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

Location	Payments to Contractors Including Reserve for Holdbacks	City Labour and Machinery	Materials	Total
* Beaconsfield St.	-	\$ 400.47	\$10,719.29	\$ 11,119.76
Flemming Road	7,155.00	403.48	8,331.85	15,890.33
Parkside Develop- ment	16,896.00	548.48	12,732.54	30,177.02
Meadow Green Ct.	6,073.00	217.02	2,629.24	8,919.26
Weyman Street	8,381.00	650.33	9,390.46	18,421.79
McKeen St. Ext.	3,112.70	234.77	4,353.74	7,701.21
Elgin Street	7,791.97	236.66	3,779.33	11,807.96
Smythe St. Ext.	12,434.62	1,447.19	7,068.15	20,949.96
Shamrock Terrace	-	3,699.22	2,137.59	5,836.81
TOTALS	\$61,844.29	\$7,837.62	\$61,142.19	\$130,824.10

*Labour and machinery supplied by Fredericton Housing & Construction Co. Ltd. and does not appear in City Accounts.

All the above costs include any holdback payments which will appear in 1974 accounts.

The following shows the cost per foot for laying various sizes of pipe by Contractors and City Workmen and Machinery and includes gate valves and manholes, but does not include fire hydrants.

Cost by Contractor per Lineal Foot

Location	4" Duct.	6" Duct.	8" Duct.	10" Duct.	12" Duct.
**Beaconsfield Street (F'ton Housing and Const. Co. Ltd.)		\$ 4.50 5.07	\$ 5.91 6.81		
Flemming Road (John Kilburn & Sons)		12.43		\$16.55	\$17.97
Parkside Development (F'ton Housing & Const. Co. Ltd.)		16.85 17.42		20.97	
Meadow Green Ct. (F'ton Housing & Const. Co. Ltd.)		14.25			
Weyman Street (John Kilburn & Sons Ltd.)	\$12.26	13.42	15.16		
Elgin Street (John Kilburn & Sons)		18.00			

** Does not include Installation of Pipe

Cost by City per Lineal Foot

<u>Location</u>	<u>4" Duct.</u>
Shamrock Terrace	\$ 21.94

Total Inventory as of December 31, 1973 \$57,966.28

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

- 1) Water - Flemming Road Booster Station
- 2) Water - High Level Reservoir
- 3) Water - Maple Street Well
- 4) Water - Exploration
- 5) Water - Smythe Street Booster Station

1) Water - Flemming Road Booster Station

Expenditure \$ 513.49

The expenditure of \$513.49 was made up of labour, hired machinery, city machinery and prints.

2) Water - High Level Reservoir

Expenditure \$2,111.68

The expenditure of \$2,111.68 was made up as follows:

Journal Vouchers (Payroll, Machinery, Pension Funds).....	\$ 219.55
MacLaren Atlantic Ltd. (Payments for Engineering & Inspection Services).....	<u>1,892.13</u>
TOTAL <u>\$2,111.68</u>	

Total Expenditures to Date:

Previous Expenditures \$179,841.19

1973 Expenditures 2,111.68

TOTAL \$181,952.87

3) Water - Maple Street Well

Expenditure \$ 734.64

The expenditure of \$734.64 was made up as follows:

Labour	\$ 245.09
Machinery	94.00
Materials	<u>395.55</u>
TOTAL <u>\$ 734.64</u>	

Total Expenditures to Date

Previous Expenditures \$ 39,831.53

1973 Expenditures 734.67

TOTAL \$ 40,566.20

4) Water - Exploration

With the objective of augmenting the ground water supply of the South Fredericton System as well as obtaining a future supply for the Lincoln Road area, exploratory test drilling was carried out in the Lincoln Road area in - 1973.

Nine test holes were drilled in search of a water bearing gravel formation, with negative results. The test holes were drilled through the overburden until rock was encountered. The test holes varied in depth from 26 feet to 92 feet.

The test hole locations and logs of same are on file in the office of the City Engineer. Exploratory drilling through rock formation is continuing to ascertain if a rock wall well supply can be found in the area.

The cost of the project to December 31, 1973 is as follows:

Sub Surface Surveys	\$ 2,563.00
Labour, Hired Machinery, City Machinery	<u>146.16</u>
TOTAL	<u>\$ 2,709.16</u>

After amalgamation, on July 9, 1973, it was found that the former Village of Silverwood had a very marginal water supply. Two pilot wells were drilled in the area and were abandoned due to interference with existing private wells and/or lack of enough potential supply to warrant development of same.

Negotiations are being carried on with property owners in the area for permission to proceed with further exploration.

The cost of the project to December 31, 1973, is as follows:

Maritime Water Supply (Test Well #1)	\$ 1,144.00
Maritime Water Supply (Test Well #2)	1,600.00
Test Pumping & Developing.	<u>3,015.00</u>
TOTAL	<u>\$ 5,759.00</u>

5) Water - Smythe Street Booster Station

Expenditure\$ 6,361.35

The expenditure os \$6,361.35 was made up as follows:

Labour	\$ 572.60
Machinery	10.00
Materials	<u>5,778.75</u>
TOTAL	<u>\$ 6,361.35</u>

The material expenditure of \$5,778.75 was made up as follows:

Phillips & Pringle (Fittings, Copper, Nuts & Bolts).....	\$ 96.23	
Horsnells Ltd. (Attaching Flanges, Threaded Rod)	10.58	
Crane Supply (Needle Valves, Fittings, 1-8" Check Valve, 2-8" G.V.'s, 2-Floor Stands	1,289.80	
E.M. Young Ltd. (Rubber Packing)	30.45	
Thomas Industrial Sales (Payments for Pump)	3,242.00	
Carren Ltd. (1-5"x8" Bend, 1-6"x8" Bend, Cartage)	195.90	
Diamond Canapower (Tx & Rx Parts)	711.00	
Stan Cassidy Ltd. (Electrical Work)	195.50	
Miscellaneous (Pressure Gauge Glass, Pipe, Lag Shields).....	<u>7.29</u>	
TOTAL		<u>\$5,778.75</u>

Cost of Well Water Supply to Date (South Side)

1953	Test Hole Program	\$ 7,500.00
1954	Supply Line & Partial Development of #1 Well..	42,271.16
1955	Develop, House & Connecting of #1 Well	22,883.05
1956	Remote Control and Landscaping	3,048.33
1957	Develop, House & 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 & Connecting of #3 Well	46,554.32
1961	Develop, House & 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 & Connecting of Cameron Ct. 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 a report on future supply	6,788.70
1968	Developing and Testing Well #5, St. Anne's Point, Woodstock Road	43,233.90
1969	Housing, Installing Pumping Equipment, Connecting #5 Well, St. Anne's Point, Woodstock Road to City supply line in Wilmot Park and Landscaping	26,272.48
1973	Test Hole Program (Lincoln Road)	2,709.16
	Developing and Testing Pilot Wells (Silverwood)	<u>5,759.00</u>
TOTAL COST TO DEC. 31, 1973		<u>\$372,401.41</u>

Capacity available in 1973	3,300 I.G.P.M.
Present average demand	1,779 I.G.P.M.
Maximum demand	2,130 I.G.P.M.

Carleton Ward Water Supply 1956-1973

Including Feeder Lines, Wells, Reservoir & Pump House

1956-1957- Bridge Street

Drilling well, construction of building, installation of pumps and connecting to City Water Main	\$25,997.25
--	-------------

1957-1958-1959 Highland Avenue Reservoir (1,000,000 I.G.)

Expenditure 1957	\$ 23,440.28
Expenditure 1958	60,432.95
Expenditure 1959	<u>17,267.72</u>
	\$ 101,140.95

1957-1958 Feeder Main to Highland Avenue Reservoir

Expenditure	\$ 30,231.00
Expenditure	<u>2,353.97</u>
	\$ 32,584.97

1961 Killarney Road Well - Changes in Piping
to Distribution
System \$ 1,375.98

1963-1964 Highland Avenue Well

Drilling near Reservoir constructed in 1959, erection of building to house equipment & electrical 1963 \$ 13,781.74

Installing of Pumping Equipment, connecting from Well to Reservoir, installation of meters and completion of electrical equipment
1964...\$ 5,427.08
\$ 19,208.82

1970 - Total Cost of Water Exploration &
Development Program

Maple Street	\$ 11,720.00
Noble Street	3,600.00
Forbes Street	1,008.00
Setting, Testing & Pumping, 28 hrs. @ \$.20 per hour	560.00
City Labour, machinery charges and materials	<u>491.62</u>
	\$ 17,379.62

1971 - Development of Maple Street Well

Including laying of Water Main from Pump House to Well, Constructing Pump House and installing and connecting Pump to Well \$ 22,524.24

1972 - Maple Street Well

Expenditure \$ 5,587.29

1972 - MacLaren Avenue Feeder Line

Expenditure \$128,722.53

TOTAL COST TO DECEMBER 31, 1973 \$354,521.65

CAPITAL ACCOUNT GRAVEL ROADS

Gross Expenditure \$ 123,968.29

Credits 82,354.75

NET EXPENDITURE \$ 41,613.54

The above credits are made up as follows:

Work done and Materials sold to Private
Parties....\$ 11.40
Journal Vouchers 915.14
Parkside Development) 35,747.95
Fredericton Housing) 10,201.58
Hill Bros. Ltd.) Local 10,996.23
Chippins Ltd.) Improvement 12,038.49
Greendale Ltd.) Charges 1,121.98
Shared Cost Project:
Gravel Road Priestman St..... 11,321.98

TOTAL \$82,354.75

Included in the above expenditures are:

- 1) Grading & 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 Curb and Gutter", which is obtained in the body of this report on Page 20. The expenditure for gravelling Curbed Streets amounted to \$19,138.96.

2) Gravel Road Construction

The cost of constructing and gravelling the following streets under this heading was as follows:

Location	Lineal Feet	Expenditure
Beaconsfield Street	1,710	\$ 10,201.58
Flemming Road	932	11,002.89
Parkside Development 1973	1,488	18,529.70
*Parkside Development 1972	591	10,959.66
Meadow Green Court	674	5,729.94
Weyman Street	1,100	10,996.23
TOTALS	6,495	\$ 67,420.00

Total Mileage for new Street Construction for 1973 1.23 miles

* Parkside Development Contract for 1972 was partially completed in 1972 and was carried over into 1973 Accounts along with the Contract for 1973.

CAPITAL MAINTENANCE DEPOT

Expenditure \$ 1,891.43

The above expenditure is made up as follows:

Journal Vouchers (Payroll, Machinery, Pension Funds)	\$ 704.61
Gorman Construction Ltd. (Gravel)....	6,647.22
Eastern Fence Ltd. (Fencing).....	<u>1,891.43</u>

Gross Expenditure \$ 9,243.26

Less Credit:

Journal Voucher(Gravelling Pipe Storage.....	<u>7,351.83</u>
Area)	
NET EXPENDITURE	\$ 1,891.43

Total Expenditures to Date:

Previous Expenditures .. \$ 254,799.17

1973 Expenditure 1,891.43

TOTAL \$ 256,690.60

CAPITAL TRAFFIC LIGHTS 1973

Expenditure \$ 17,061.97

The above expenditure is made up
as follows:

Journal Vouchers (Payroll, Pensions, Machinery)	\$ 498.87
Stan Cassidy Ltd. (installations)...	16,450.00
Miscellaneous (Prints, Asphalt, Notice of Tender).....	<u>113.10</u>

TOTAL \$ 17,061.97

The above payments to Stan Cassidy Ltd. were
for installation of traffic lights at the intersections
of Regent Street & Prospect Street, and Smythe Street &
Prospect Street and for the installation of a comptroller
at the intersection of Regent Street & Montgomery Street.

CAPITAL ACCOUNT CITY HALL

Expenditure \$ 17,087.04

The above expenditure was made up as follows:

Graham Parkin-Preliminary Studies & Sketch Plans	\$ 14,062.50
Graham Parkin-Consultant Expenses..	1,779.44
Seaboard Surveys Ltd.-Preparing Plan & Description.	227.80
Seaboard Surveys Ltd.-Survey Work..	<u>1,017.30</u>

TOTAL \$ 17,087.04

CAPITAL ACCOUNT LIBRARY

Expenditure \$ 29,770.04

The above expenditure was made up as follows:

Graham Parkin-Preliminary Studies	
& Sketch Plans	\$ 14,700.00
Graham-Parkin-Consultants Expenses ..	1,779.44
Graham Parkin-Payment	10,500.00
Sub Surface Surveys (Soil	
Investigation)	1,613.50
Seaboard Surveys Ltd.(Eng. &	
Site Survey)	1,160.55
Journal Voucher (Payroll)	<u>16.55</u>
TOTAL <u>\$ 29,770.04</u>	

CAPITAL ACCOUNT- INDUSTRIAL PARK A.D.B.

Gross Expenditure \$ 32,249.33

Credit 53,970.41

NET EXPENDITURE \$ -

Credits:

Province of New Brunswick	
(Payment Re Claim)	\$ 44,067.94
Journal Vouchers (Materials)....	126.74
Atlantic Development Board-	
Extension of Services & Reservoir	<u>9,775.73</u>

TOTAL \$ 53,970.41

Under this heading services were installed in the Industrial Road from the Hilton Road to the N.B.E.P.C. Rt-of-Way. This Contract was carried out by John Kilburn & Sons Ltd. The total expenditure amounted to \$19,751.86 and was made up as follows:

Labour & Hired Machinery	\$ 795.86
Machinery	254.00
John Kilburn & Sons (Payments)	8,678.70
Holdbacks	964.30
Pensions	32.06
Materials	<u>9,026.94</u>
TOTAL <u>\$ 19,751.86</u>	

Following is the cost per foot of installing the above services on the Industrial Road:

Water: 36 Lineal Feet of 6" Ductile @ \$15.04/ft.
 656 Lineal Feet of 10" Ductile @ \$18.59/ft.

Domestic Sewer: 658 Lineal Feet of 10" Transite @ \$10.65/ft.

CAPITAL ACCOUNT-INDUSTRIAL PARK A.D.B.-FLEMMING ROAD RESERVOIR

Expenditure	\$ 939.10
Labour	\$ 876.34
Materials	<u>62.76</u>
TOTAL	<u>\$ 939.10</u>

Total Expenditures to Date:

Previous Expenditures \$159,588.63

1973 Expenditure 939.10

TOTAL \$160,527.73

CAPITAL ACCOUNT-INDUSTRIAL PARK A.D.B.-ROADS

Expenditure \$13,188.25

The above expenditure is made up as follows:

Labour	\$ 1,905.42
Hired Machinery	831.25
City Machinery	3,886.00
Journal Vouchers (Pensions)	101.10
Gorman Construction Co. Ltd. (Gravel).	6,399.03
Materials (Stakes)...	<u>65.45</u>

TOTAL \$13,188.25

Lineal Feet of Road Constructed ... 680

CAPITAL ACCOUNT REGENT STREET RECONSTRUCTION-NON-SHARABLE

In 1973, Phase 2 of the reconstruction of Regent Street was undertaken. In this phase, a larger storm sewer main was installed between Brunswick Street and the bank of the Saint John River.

Under this heading Fredericton Housing and Construction Company Ltd. constructed the following:

30 Lineal Feet of 18" Concrete Storm Sewer
992 Lineal Feet of 30" Concrete Storm Sewer
200 Lineal Feet of 36" Corrigated Metal Storm Sewer

All laterals for this project were constructed by City of Fredericton Crews.

The size and amount of pipe laid by City Crews was as follows:

96 Lineal Feet of 10" Concrete Sewer

The sodding of Boulevards between Brunswick Street and McLeod Avenue was also completed as part of the upgrading of Regent Street.

The expenditure under this heading amounted to \$75,309.25 and was made up as follows:

Journal Voucher (Payrolls, Pensions, Machinery)	\$ 11,824.87
Journal Voucher (Materials)	12,616.62
Fredericton Housing (Payments)	46,165.90
Gorman Construction (Asphalt)	1,921.35
Forbes & Sloat (Asphalt)	407.55
Harry Smith (Topsoil)	260.40
C.W. Guthrie & Son Ltd. (Sod Supply & Placement)	1,877.67
Materials (Cement, Brick, etc.)	<u>234.89</u>
TOTAL	\$ 75,309.25
Holback - Payable in 1974	<u>5,129.55</u>
TOTAL COST	<u>\$ 80,437.80</u>

CAPITAL ACCOUNT SHARED COST PROJECTS

In 1973, the City of Fredericton and the Province of New Brunswick began cost sharing projects for Regent Street, between Albert Street and Montgomery Street, and Priestman Street from College Hill Road to the existing section. These involved the extension of all services on Priestman Street and the increasing of domestic sewer capacity on Regent Street.

REGENT STREET: (1) Domestic Sewer - Albert St. to Montgomery St.

Under this heading City Crews constructed the following:

2420 Lineal Feet of 12" Transite Domestic Sewer
650 Lineal Feet of 16" Transite Domestic Sewer

(2) Paving - Recap $\frac{1}{2}$ " Minus

Forbes and Sloat Limited was awarded the contract for the paving phase of the project. Under this contract 3740 lineal feet of asphalt was placed.

The street preparatory work, other than the laying in place of the pre-mixed materials, was done by regular City Crews.

SUMMARY OF OVERALL EXPENDITURES

FOR REGENT STREET SHARED COST PROJECT

Gross Expenditure	\$ 81,838.02
Credits	<u>41,679.02</u>
NET EXPENDITURE	<u>\$ 40,159.00</u>

The Gross Expenditure was made up as follows:

Labour	\$ 16,000.14
Hired Machinery	6,815.67
City Machinery	11,546.75
Materials	<u>46,555.46</u>

TOTAL

\$ 81,838.02

Less Credits:

Materials	920.00
Provincial Government's Share	<u>40,759.02</u>

41,679.02

NET EXPENDITURE

\$ 40,159.00

PRIESTMAN STREET: Water

Under this heading, Fredericton Housing and Construction Company Limited constructed the following:

48 Lineal Feet of 6" Water Pipe
1445 Lineal Feet of 12" Water Pipe

Domestic Sewer:

Under this heading, Fredericton Housing and Construction Company Limited constructed the following:

1208 Lineal Feet of 8" Transite Sewer Pipe

Surface Sewer:

Under this heading, Fredericton Housing and Construction Company Limited constructed the following:

192 Lineal Feet of 10" Concrete Storm Sewer
780 Lineal Feet of 12" Concrete Storm Sewer
24 Lineal Feet of 15" Concrete Storm Sewer
540 Lineal Feet of 18" Concrete Storm Sewer

Gravel Road:

Under this heading, City Crews graded and gravelled 1462 Lineal Feet of road.

SUMMARY OF OVERALL EXPENDITURES

FOR THIS PRIESTMAN STREET SHARED COST PROJECT

Gross Expenditure	\$ 107,362.58
Credits	<u>43,603.09</u>
NET EXPENDITURE	<u>\$ 63,759.49</u>

The gross expenditure was made up as follows:

Fredericton Housing & Const. Co. Ltd...\$ 52,227.90
Holddback to Pay in 1974 5,803.10
Labour 5,515.07
Hired Machinery 3,065.90
City Machinery 5,066.00
Materials <u>35,684.61</u>
TOTAL \$107,362.58

Less Credits:

Provincial Government's Share .. 42,521.98
Materials <u>1,081.11</u>
43,603.09
NET EXPENDITURE <u>\$ 63,759.49</u>

LOCAL IMPROVEMENT 1973

The following summary of Local Improvement Projects undertaken or continued from 1972, show the actual cost of construction (including holddback payments) which was paid for by the subdivider.

Location	Service	Cost	No. of Lots
Parkside Dev. Ltd.	Water	\$ 20,662.63	15 Single
Ext. of Parkside Dr.	Dom. Sewer	18,333.94	4 Duplex

<u>Location</u>	<u>Service</u>	<u>Cost</u>	<u>No. of Lots</u>
Ext. of Parkside Dr. to Meadow Green Ct. including Mayland Ct.	Storm Sewer Gravel Road Sidewalk	\$ 25,648.16 15,946.49 <u>2,884.00</u>	2 Multiple
	TOTAL	<u>\$ 83,475.22</u>	
Parkside Dev. Ltd. Parkside Dr.-Meadow Green Ct. to Green- fields Dr. and a portion of Green- fields Dr. including Greenfields Court	Water Dom. Sewer Storm Sewer Gravel Road Sidewalk	\$ 30,177.02 23,101.21 32,320.26 18,529.70 5,796.00	8 Duplex 4 Multiple
	TOTAL	<u>\$ 109,924.19</u>	
Parkside Dev. Ltd. Meadow Green Ct.	Water Dom. Sewer Storm Sewer Gravel Road Sidewalk	\$ 8,919.26 8,441.08 10,815.10 5,729.94 Not Reg'd.	21 Single
	TOTAL	<u>\$ 33,905.38</u>	
*Fredericton Housing & Const. Co. Ltd.	Water Dom. Sewer Storm Sewer Gravel Road Sidewalk	\$ 11,119.76 5,127.14 6,756.26 10,201.58 6,460.00	38 Single
Beaconsfield Street	TOTAL	<u>\$ 39,664.74</u>	
Hill Bros. Ltd. Weyman Street	Water Dom. Sewer Storm Sewer Gravel Road Sidewalk	\$ 18,421.79 13,608.99 25,612.30 10,996.23 5,319.00	25 Single
	TOTAL	<u>\$ 73,958.31</u>	
Chippins Ltd. Flemming Road	Water Dom. Sewer Storm Sewer Gravel Road Sidewalk	\$ 15,890.33 9,001.23 11,516.99 11,002.89 3,224.00	22 Duplex
	TOTAL	<u>\$ 50,635.44</u>	
Chippins Ltd.-McKeen Street-Fletcher Court Van Horne Court (Incomplete)	Water Dom. Sewer Storm Sewer Gravel Road Sidewalk	\$ 7,471.74 3,806.83 9,171.79 1,035.60 4,671.00	35 Single
	TOTAL	<u>\$ 26,156.96</u>	

* Constructed by own forces under City Supervision.

Location	Service	Cost	No. of Lots
Greendale Ltd.	Water	\$ 11,780.15	
Elgin Street	Dom. Sewer	8,165.59	9 Single
	Storm Sewer	11,194.45	
	Gravel Road	1,121.98	
(Incomplete)	Sidewalk	<u>2,574.00</u>	
	TOTAL	<u>\$34,836.17</u>	
Parkside Dev.	Water	\$ 20,942.91	
	Dom. Sewer	18,683.56	Initial Services to Development
South of T.C.H.	Gravel Road	<u>467.00</u>	
	TOTAL	<u>\$ 40,093.47</u>	
(Incomplete)			

SUMMARY OF COSTS TO SUBDIVIDERS FOR SERVICES-1973

Water	\$145,385.59
Dom. Sewer	108,269.57
Storm Sewer	133,035.31
Gravel Road	75,031.41
Sidewalk	<u>30,928.00</u>
TOTAL	<u>\$492,649.88</u>

Number of Lots Developed: 143 Single
 34 Duplex
 6 Multiple

ENVIRONMENTAL HEALTH SERVICES

Gross Expenditure	\$ 112,991.46
Credits	22.90
NET EXPENDITURE	<u>\$ 112,968.56</u>

The above credits are made up as follows:

James Edwards (Credit Re Salvage)	\$ 22.90
-----------------------------------	----------

Under the above heading, the following items are included:

- (1) Garbage & Waste Collection
- (2) Sanitary Landfill - Disposal

(1) Garbage & Waste Collection:

The Garbage and Waste Collection was operated by Blizzard's Trucking Service Ltd. The amount paid for the above operation was \$71,857.70 in 1973.

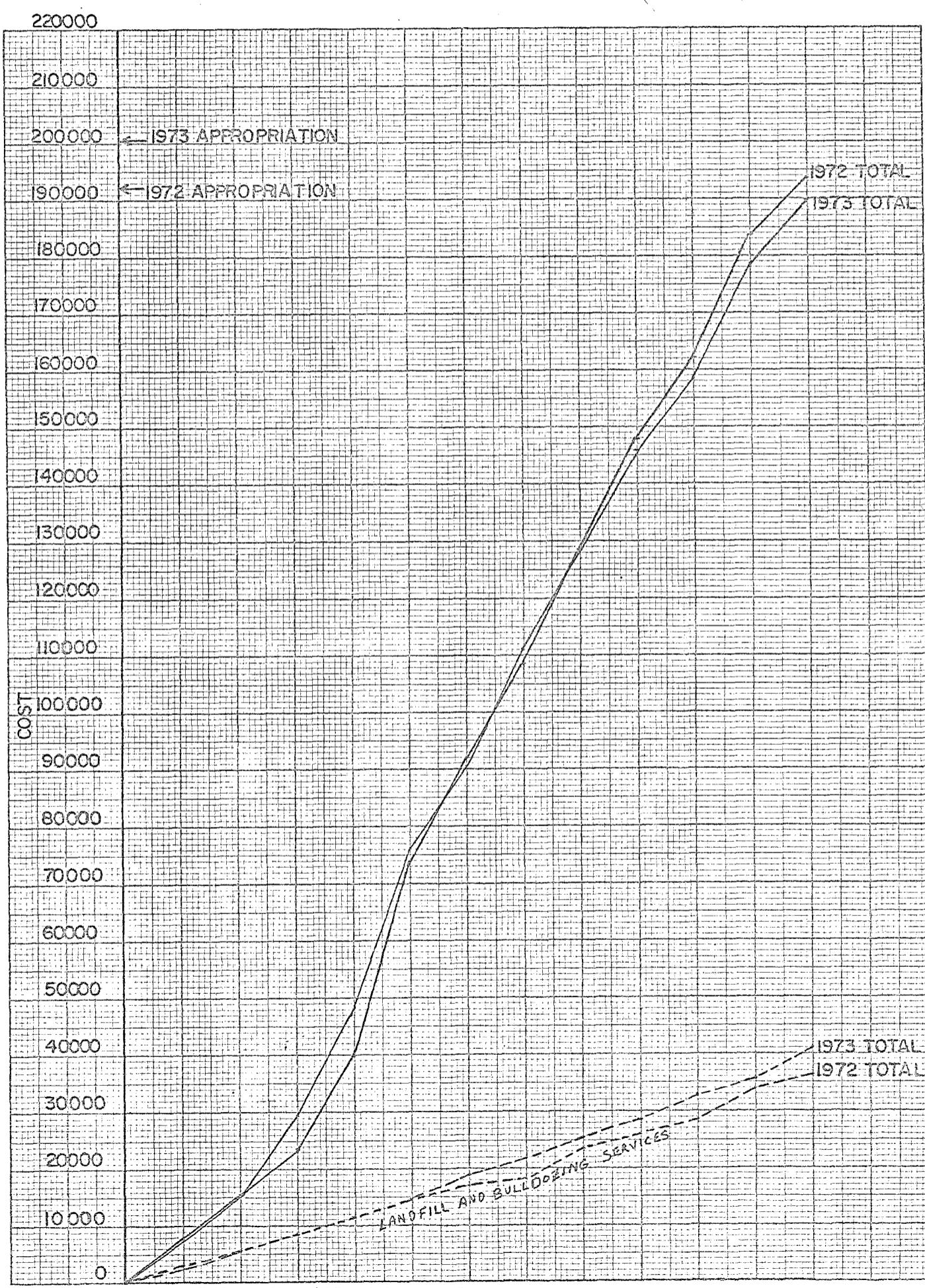
(2) Sanitary Landfill - Disposal:

Expenditure	\$ 41,133.76
Credit	22.90
NET EXPENDITURE	<u>\$ 41,110.86</u>

The above credit was payment by Mr. James Edwards for cardboard salvage.

The above expenditure is made up as follows:

Gerard Burns(Sanitary Landfill Bulldozing Services)	\$34,040.00
---	-------------



Journal Vouchers (Payroll, Machinery, Pension Funds)	\$ 4,556.57
Gorman Construction Ltd. (Gravel)	<u>2,537.19</u>
TOTAL	<u>\$41,133.76</u>

PUBLIC HEALTH & WELFARE SERVICES (CEMETARIES)

Included under this heading are:

- (1) The Old Burial Ground
- (2) The Loyalist Burial Ground

(1) The Old Burial Ground

Gross Expenditure	\$ 3,895.46
Credits	<u>58.25</u>
NET EXPENDITURE	<u>\$ 3,837.21</u>

The above expenditure was made up as follows:

Journal Vouchers (Lights, Payroll, Pension Funds, Gasoline, Oil, Machinery, etc.) .	\$ 3,671.51
Repairs to Power Mower	16.65
Purchasing Materials (Shears, Edgers, Lumber, Bedding Plants, etc.)	<u>207.30</u>

TOTAL\$3,895.46

Less Credit:

Central Trust (Credit Re Trust Fund). .	<u>58.25</u>
TOTAL	<u>\$3,837.21</u>

(2) The Loyalist Burial Ground

In 1973, the upkeep expenditure amounted to \$131.00, made up as follows:

Labour	\$ 130.00
Journal Voucher (Pensions) .	<u>1.00</u>
TOTAL	<u>\$ 131.00</u>

FLOOD CONTROL & REPAIRS

Expenditures under this heading were incurred during the flood in the spring of 1973. The total expenditure amounted to \$10,518.06 and was made up as follows:

Journal Vouchers (Payroll, Machinery, Pension Funds)	\$ 7,539.69
Purchase, Rental & Repair of Pumps	1,429.03
Repair of Burners (Water Pumping Station & City Hall)	155.00
Stan Cassidy Ltd. (Removing Parking Gate Equipment)	72.00
Miscellaneous (Purchasing Waders, Shovels, Brooms, Prints, etc.)	<u>1,322.34</u>
TOTAL	<u>\$10,518.06</u>

TRANSITION

Due to amalgamation, expenditures occurred regarding transition. The total expenditure under this heading was \$21,232.18 and is made up as follows:

Journal Vouchers (Payroll, Pension Funds, Machinery, Materials)	\$ 1,570.90
Mr. E.L. MacFarlane (Work on New City Map)....	75.00
William M. Mercer Ltd. (Report on Amalgamation)....	660.00
J.E. Brooks Ltd. (Storm Sewer Report Preparation)	2,475.10
J.E. Brooks Ltd. (Supervision of Water Well Testing)	3,173.65
J.E. Brooks Ltd. (Preliminary Work on 1974 Construction)	2,138.52
Pollution Control Services (Services Re Water Shortage)	792.32
Mr. Balfour S. Bailey (Drafting Services Re New Map)	830.00
Mr. William Tims (Drafting Services Re New Map)	220.00
MacLaren Atlantic Ltd. (Re Solid Waste Site Study)	1,152.58
L & A Machine Works (Signs & Sign Posts)	2,608.13
ADI Ltd., (Prints & Services Re Grant Negotiations)	5,061.50
Dave Hawkins Ltd. (Appraisal Re Carmen Pit Property)	50.00
Crane Supply (Materials Re Meter Installations)	27.42
Daily Gleaner (Ads Re Street Name Changes)....	267.12
Electric Motor Service (Pump Motor)	88.60
J.W. Bird & Company Ltd. (Lag Bolts)	<u>41.34</u>
TOTAL	<u>\$21,232.18</u>

RECREATION AND CULTURAL SERVICE

(a) WILMOT PARK

Expenditure\$10,444.76

The above expenditure is made up as follows:

Journal Vouchers (Park Lights, Payroll, Machinery, Materials, Pensions, Gas, Oil, etc.)	\$ 9,301.39
City of Fredericton (Water & Sewer Rates)	96.15
Equipment (Repairs and Parts)	53.97
Materials (Grass Seed, Peat Moss, Rose Dust, Flowers, Paint, Topsoil, Hoes,etc.)	661.91
House Repair	<u>331.34</u>

TOTAL\$10,444.76

(b) ODELL PARK

Included in the above heading are the following:

- (1) Odell Park Maintenance
- (2) Odell Park Development

1) Odell Park Maintenance:

Gross Expenditure	\$14,901.80
Credits	223.13
TOTAL	<u>\$14,678.67</u>

The above expenditure was made up as follows:

Journal Vouchers (Payroll, Diesel Fuel, Gas, Oil, Materials, Pension Funds, etc.)	\$12,683.82
City of Fredericton (Water & Sewer Rates)	46.00
Minister of Finance	9.64
Workmen's Compensation Board	243.00
Equipment (Repairs & Parts)	907.87
Miscellaneous (Feed, Paint, Plywood, Stain, Brushes, Lime, etc.)	821.49
N.B. Telephone (Telephone)	<u>189.98</u>

TOTAL \$14,901.80

Less Credits:

John Doherty-Long Distance Calls	\$ 41.13
Journal Voucher (Inter Dept. Use of Tractor)	<u>182.00</u>

NET EXPENDITURE \$14,678.67

2) Odell Park Development:

Gross Expenditure \$ 1,899.54

The Gross Expenditure was made up as follows:

Journal Vouchers (Payroll, Machinery)	\$ 538.99
Gorman Construction Co. Ltd. (Gravel)	1,357.55
Atlas Building Supplies (Spikes)	<u>3.00</u>

TOTAL \$ 1,899.54

(c) CARLETON PARK

Expenditure \$ 7,260.99

The above expenditure was made up as follows:

Journal Vouchers (Payroll, Gas, Oil, Pension Funds, Machinery, Materials, Use of Ford Tractor, etc.)	\$ 4,045.44
Marathon Realty Co. Ltd. (Rent for Park Lease)	2,400.00
Materials (Peat Moss, Grass Seed, Bulbs, Topsoil, Enamel, Paint, Linsolene, Bedding Plants, etc.)	631.03
Outdoor Equipment Ltd. (Lawn Mower)	<u>184.52</u>

TOTAL \$ 7,260.99

Less Credits:

Journal Voucher (Fertilizer) 41.60

NET EXPENDITURE \$ 7,219.39

(d) DEVELOPMENT OF PARK AREAS:

Gross Expenditure \$ 2,931.03
Credits 154.75

NET EXPENDITURE \$ 2,776.28

The gross expenditure was made up as follows:

Journal Vouchers (Payroll, Hired Machinery, Machinery, Pensions, etc.)	\$ 1,582.65
--	-------------

Materials (Cedar Posts, Plywood, Linsolene, Chain Link Fence, etc.)	\$ 1,313.73
Minister of Finance	<u>34.65</u>
TOTAL\$ 2,931.03	

Less Credit:

Journal Voucher (Cedar Posts)	<u>154.75</u>
NET EXPENDITURE	<u>\$ 2,776.28</u>

(e) PUBLIC WORKS:

Gross Expenditure	\$ 97,035.47
Credits	<u>16,631.46</u>
NET EXPENDITURE	<u>\$ 80,404.01</u>
1973 Appropriation	<u>\$ 62,250.00</u>

The credits of \$16,631.46 are made up as follows:

Tree Removal (Provincial Assistance)	\$ 8,746.07
Journal Vouchers (Use of Stumper, Use of Ford Tractor, Mix Oil, Gasoline, Inter Dept. Use of Machinery, Mobile Radios, etc.)....	<u>7,348.84</u>
Work done for Private Individuals	137.08
Stephen Kendrick (Damages to Trees)	30.00
Outdoor Equipment Ltd. (Credit on Returned Parts)	20.17
Petrofina Canada Ltd. (Replacing Saw & Repairing Saw)	<u>349.30</u>
TOTAL <u>\$16,631.46</u>	

The hired trucks, labour and City Machinery charged under Public Works Expenditure were incurred as follows:

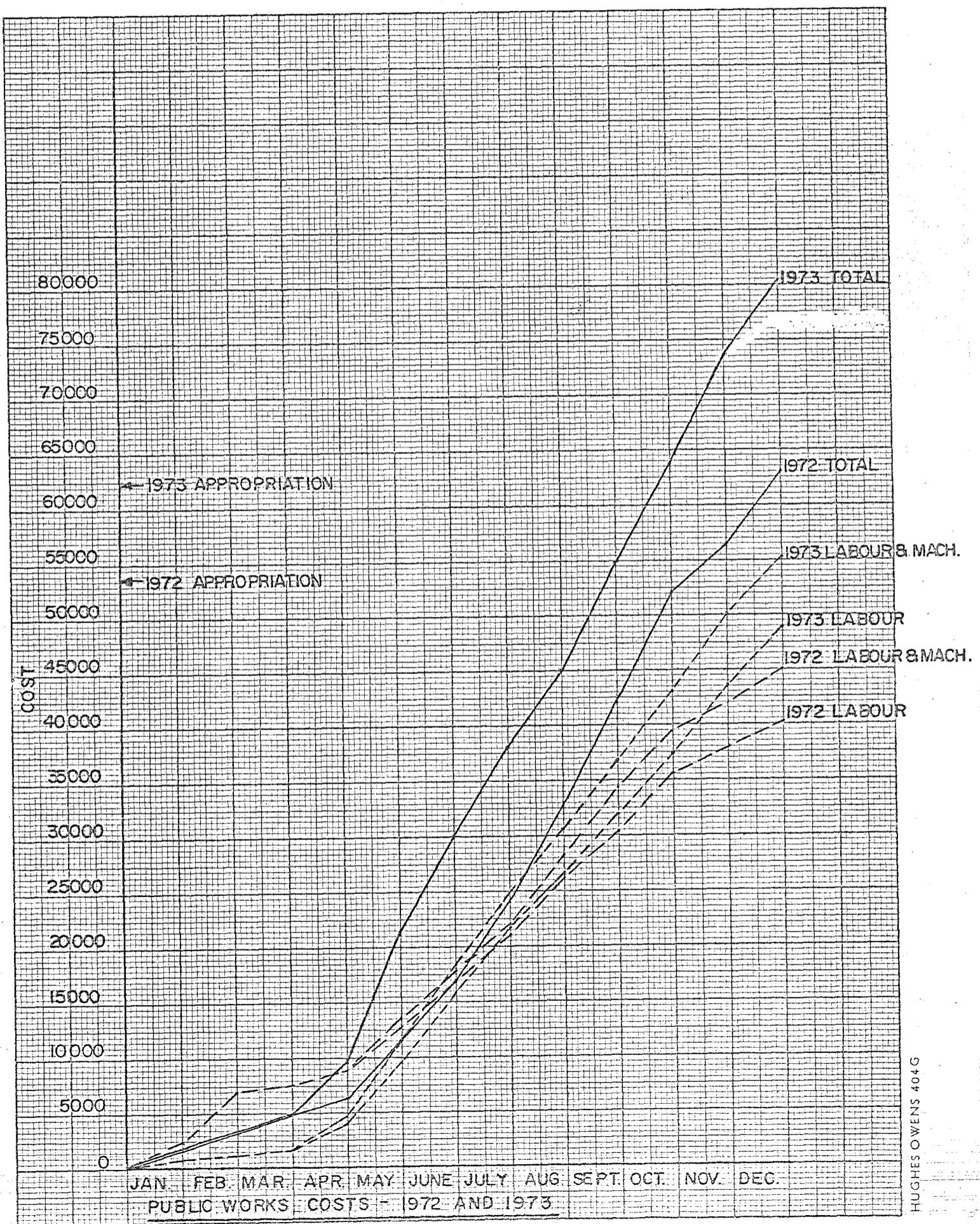
Item	Labour & Supervision	Hired Trucks	City Machinery
Trees	\$35,071.36	\$ 6,155.93	\$ 5,698.00
Back Drain Diversion	708.86	16.20	86.00
Back Drain	703.98	-	91.00
Surface Sewer	210.80	-	32.00
Unforseen	8,718.26	201.03	1,191.00
Casual's Vacation Pay	11,968.14	-	-
TOTALS	\$57,381.40	\$ 6,373.16	\$ 7,098.00

TREES:

Total Expenditure\$55,760.43

The above expenditure of \$55,760.43 is made up as follows:

Labour & Supervision	\$35,071.36
Hired Trucks & Machinery	6,155.93
City Machinery Charges	5,698.00
Materials & Space Rental	9,838.64
Mr. Charles Smith (Honorarium for services rendered)	<u>600.00</u>
	\$57,363.93
Less Credits	<u>1,603.50</u>
NET EXPENDITURE	<u>\$55,760.43</u>



The above credits were made up as follows:

Journal Vouchers (Inter Dept. Use of Stumper, Mix Oil, Rentals, Equipment, etc.)	\$ 1,066.95
Work done for Private Parties	137.08
Stephen Kendrick (Damages to Trees)	30.00
Outdoor Equipment Ltd. (Credit on Returned Parts)	20.17
Petrofina Canada Ltd. (Replacing Saw & Repairing Saws)	349.30
TOTAL	<u>\$ 1,603.50</u>

In 1973, 219 trees were removed upon 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 1973:

<u>Species</u>	<u>Number Removed</u>
Elm	200
Maple	11
Poplar	3
Other	<u>5</u>
TOTAL	219

The procedure followed at 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 place for the Dutch Elm Disease, are also removed by City Crews.

In 1973, 92 trees were removed with Dutch Elm Disease at various locations within the City.

Following is a list of trees (Elms) removed from 1963 to 1973 with Dutch Elm Disease:

Year	No. Lost to Dutch Elm Disease	% Lost to Dutch Elm Disease	Other Causes	Total
1963	1	3%	28	29
1964	14	29%	34	48
1965	8	24%	25	33
1966	12	21%	44	56
1967	18	20%	73	91
1968	33	16%	174	207
1969	30	21%	108	138
1970	49	39%	78	127
1971	57	42%	77	134
1972	61	42%	84	145
1973	92	46%	108	200
TOTALS ..	375	-	333	1,208

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 owners, are obtained before proceeding with this work.

Trees were planted at the following locations
in 1973:

<u>Location</u>	<u>Number of Trees</u>
Wright Street	31
Rear of Mall	57
Federal Building-Regent	3
Surrey Crescent	32
Wilmet Park	18
Ayres Street	20
Waterloo Row	5
Waterloo & Queen Greens	46
Cameron Court	22
Parkside Drive	11
Limerick Road	9
Colonial Heights	36
Stanley Street	7
York Street	3
Montgomery Street	12
Oxford Street	7
Eglinton Street	1
Hanwell Road	9
St. John Street	1
Irvine Street	2
Victoria Street	1
University Avenue	1
McEvoy Street	1
Woodbridge Street	1
Grace Memorial Church-Connaught St.	2
Westmorland Street	3
TOTAL	<u>341</u>

106 trees were planted at various locations to replace losses due to dry weather and vandalism.

Under the above heading, the following trees were purchased in 1973 from Lansdowne Nursery:

81 Norway Maples 8'-10' @ \$6.00 each	\$ 486.00
20 Norway Maples 6'-8' @ \$4.90 each	98.00
25 Schwebeler Maples 8'-10' @ \$7.75 each	193.75
43 Schwebeler Maples 6'-8' @ \$6.45 each	277.35
25 Crimson King Maples 8'-10' @ \$7.75 each	193.75
23 Crimson King Maples 8'-10' @ \$8.55 each	196.65
38 Sugar Maples 8'-10' @ \$8.00 each	304.00
18 Red Maples 7'-10' @ \$7.90 each	192.20
68 Tilia Cordata 8'-10' @ \$6.70 each	455.60
15 Tilia Pallida 8'-10' @ \$6.25 each	94.75
3 Tilia Greenspire @ \$7.80 each	23.40
9 Red Oak 7'-9' @ \$7.90 each	71.10
74 Lombardy Poplars 10'-15' @ \$2.30 each	170.25
5 White Elm 6'-8' @ \$4.00 each	<u>20.00</u>

TOTAL\$2,729.80

A number of trees were also trimmed in 1973. The number and class of trees are as follows:

- (a) Large Trees (45' and over)
 - Approximately 100 mixed species
- (b) Medium Trees (20' - 45')
 - Approximately 350 mixed species
- (c) Small Trees (6' - 20')
 - Approximately 1700 mixed species

A number of stumps were also removed along City Streets.
Stumps Removed and Topsailed119

TREE REMOVAL (GOVERNMENT ASSISTANCE)

After amalgamation on July 9, 1973, concern was expressed over the existence of decadent and diseased Elm Trees in the amalgamated area outside the boundary of the former City of Fredericton.

The Canadian Forest Service carried out a survey and found and marked some 1100 trees that were recommended for removal. Negotiations were carried out with the Province of New Brunswick, Department of Natural Resources. The sum of \$50,000 was allocated as Provincial Assistance for the fiscal year 1973 ending on March 31, 1974.

City Crews commenced removal of the decadent and diseased trees on December 1, 1973. 185 of the marked trees had been removed as of December 31, 1973.

Salvageable logs are being shipped to the Nackawic Mill with a net return to the project of approximately \$15.00 per load.

The brush and other non-salvageable logs are being disposed of in the City of Fredericton gravel pits in Barkers Point.

The project of removal of diseased and decadent trees in the amalgamated area is continuing through the winter months.

The total cost of tree removal as of December 31, 1973 was as follows:

Gross Expenditure	\$ 8,746.07
Credit	<u>719.15</u>
	\$ 8,026.92

Less Provincial Assistance 8.026.92

NET COST TO CITY -

The above credit of \$719.15 was for sale of elmwood to Valley Forest Products.

BACK DRAIN:

Expenditure	\$ 1,601.41
-------------------	-------------

Labour	\$ 703.98
City Machinery	91.00
Journal Vouchers (Payroll, Machinery, Pension Funds)...	<u>806.43</u>

TOTAL \$1,601.41

BACK DRAIN DIVERSION:

Expenditure	\$1,633.41
-------------------	------------

Labour	\$ 708.86
Hired Machinery	16.20
City Machinery	86.00
Journal Vouchers(Payroll, Machinery, Pension Funds)	<u>822.35</u>

TOTAL ... \$1,633.41

MAINTENANCE OF GREENS, DRAINAGE AREAS, BENCHES, ETC.

Expenditure \$ 9,557.22

The above expenditure is made up as follows:

Journal Vouchers (Payroll, Machinery, Pension Funds, Diesel, Oil, etc.)	\$ 7,743.74
Journal Vouchers (Payroll, Machinery, Pension Funds, -Benches)	324.72
Repairs and Parts for Mower & Ford Tractor	344.84
Miscellaneous Materials (Greens)	974.76
Materials - Bench Maintenance	<u>169.16</u>
TOTAL	<u>\$ 9,557.22</u>

Less Credits:

Journal Voucher (Inter Dept. Use of Ford Tractor)	\$ 1,792.00
Journal Voucher (Gasoline)	<u>347.41</u>
	<u>\$ 2,139.41</u>

NET EXPENDITURE \$ 7,417.81

CASUAL'S VACATION PAY:

The total expenditure under this heading amounted to \$11,968.14 for casual labour vacation pay.

UNFORSEEN ACCOUNT--LABOUR AND HIRED TRUCKS:

Greens (Cutting, raking, seeding, topsoiling, etc.)	\$ 6,709.58
Benches (Painting and Repairs)	285.18
Cenotaph Stand	127.58
Sir James Dunn Fountain	198.93
Taking of Inventory	256.56
Removal of Christmas Trees from City Streets....	966.16
Dynamite Course	208.08
Downtown Promotion	106.75
Jury Duty	23.76
Rotary Auction	<u>36.71</u>
TOTAL	<u>\$ 8,919.29</u>

The total expenditure under Unforseen Account amounted to \$29,588.98 and was made up as follows:

Labour	\$ 8,718.26
Hired Trucks	201.03
City Machinery Charges	1,191.00
Other Materials	<u>19,478.69</u>
TOTAL	\$ 29,588.98

Less Credits:

Long Distance Call, Gas, Oil, Machinery, Labour, etc.. \$ 6,281.89

NET EXPENDITURE \$ 23,307.09

CEMENT WALKS

Gross Expenditure\$ 19,389.15

For the above expenditure, Concrete Sidewalks were laid at the following locations:

<u>Location</u>	<u>Lineal Feet</u>
Wright Street	709'
Charing Crescent	1,575'
Boyne Street	363'
Nottingham Street	850'
Bradford Street	729'
Flemming Road	283'

TOTAL .. 4,509 Feet

4,509 Lineal Feet = 0.85 Miles

The above expenditure is made up as follows:

Journal Vouchers (Payroll, Pensions, Machinery, Fuel, Materials)	\$ 11,072.64
Gordon's Ready-Mix Concrete	6,847.75
Minister of Finance	101.62
Materials (Sand, Edgers, Stakes, Polyethelene, Fibreen Papers, etc.)..	1,267.14
Car Allowance	<u>100.00</u>
 TOTAL	<u>\$ 19,389.15</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 Subdivider.

The concrete for the above construction of sidewalks was obtained from Gordon's Ready-Mix Ltd. at \$21.50 per cubic yard.

The actual cost for laying one lineal foot of sidewalk was \$4.66 which includes Compensation, Pension and Holiday Fund.

RECREATION

Expenditure\$ 2,094.42

The above expenditure does not include all playground expenditures, but only those which appear on departmental 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 above expenditure is made up as follows:

Journal Voucher (Coliseum Lights)	\$ 250.60
Journal Voucher (Gasoline, Diesel Fuel, Varsol)	586.42
Journal Voucher (Payroll)	890.23
Journal Voucher (Machinery)	329.00
Journal Voucher (Materials)	20.52
Journal Voucher (Pension Funds)	<u>17.65</u>
 TOTAL	<u>\$ 2,094.42</u>

CITY HALL

Expenditure \$ 731.91

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

The above expenditure is made up as follows:

Journal Vouchers (Payroll, Pension Funds, Machinery)	\$ 671.88
Painting Fountain	40.03
Work on Air Conditioner	<u>20.00</u>
TOTAL	<u>\$ 731.91</u>

FIRE DEPARTMENT

Expenditure \$ 84,911.23

The above expenditure was made up as follows:

Journal Voucher (Mobile Radios)	\$ 755.59
Journal Voucher (Hydrant & Sprinkler Rental) ...	82,150.00
Journal Voucher (Gasoline & Diesel Fuel)	1,342.86
Journal Voucher (Payroll, Machinery, Materials, City Decals, Pensions, etc.)	<u>662.78</u>
TOTAL	<u>\$84,911.23</u>

YORK ARENA

The expenditure under this heading was \$5.48 and is made up as follows:

Journal Vouchers (Varsol) \$ 5.48

MUNICIPAL PARKING LOTS-CAMPBELL STREET

In 1966 the City Council authorized the changing of the free Parking Area at the rear of City Hall in order to give better parking facilities to the shopping public. In 1973 the system was changed to attendant-type control from the original gate-type control.

In 1973, the expenditure for the above, amounted to \$4,917.47 and was made up as follows:

Journal Vouchers (Payroll, Machinery, Pensions, etc.).....	\$ 604.57
Minister of Finance (1973 Sales Tax)	5.58
Journal Voucher (Materials)	4.10
Stan Cassidy Ltd. (Gate Maintenance)	63.00
Province of New Brunswick (Taxes)	2,555.00
Canadian Corps of Commissionaries (Salary)	1,512.16
Stan Cassidy Ltd. (Wiring Attendants Bldg. & Checking Heater)	65.95
Materials (Heater, Lumber, Stain, Plywood, etc.)	<u>107.11</u>
TOTAL	<u>\$4,917.47</u>

In addition, a new Parking Area on Campbell Street, east of Westmorland Street was constructed in 1970.

The 1973 expenditure amounted to \$2,571.63 and was made up as follows:

Journal Vouchers (Payroll, Pensions, Machinery, etc.)	\$ 491.63
Province of New Brunswick, Minister of Finance (1973 Taxes)	<u>2,080.00</u>
TOTAL	
<u>\$2,571.63</u>	

ARCTIC RINK SITE PARKING LOT

In 1969, the Free Parking Area situated on the South Side of Campbell Street, just east of Carleton Street was changed to a metered parking site.

The 1973 expenditure was \$1,871.14 and is made up as follows:

Journal Vouchers (Payroll, Machinery, Pensions, etc.).....	\$ 206.36
Minister of Finance (1973 Sales Tax)	86.83
Province of New Brunswick (Taxes)	<u>1,577.95</u>
TOTAL	
<u>\$1,871.14</u>	

BEAVERBROOK RINK

The expenditure under this heading was \$33.25 and is made up as follows:

Journal Voucher (Regular Gasoline)	\$33.25
--	---------

TOURIST AND INDUSTRY

Expenditure	\$ 3,543.19
-------------------	-------------

The above expenditure was for maintenance and service regarding signs supplied by the Tourist and Industrial Committee for the junction of Woodstock Road and Golf Club Road, the Lincoln Road, the Maryland Road and Carleton Park.

The expenditure is made up as follows:

Journal Vouchers (Payroll, Machinery, Pension Funds, etc.)	\$ 2,122.18
N.B.E.P.C. (Lighting Sign Boards)	195.83
Materials (Bulbs, Lumber, Nails, Poles, Flags, etc.)	<u>1,225.18</u>
TOTAL	
<u>\$ 3,543.19</u>	

ADMINISTRATION OF JUSTICE

Gross Expenditure \$ 4,658.46

The above expenditure of \$4,658.46 is made up as follows:

Journal Voucher (Mobile Radios)	\$ 725.21
Journal Voucher (Gas, Oil, Diesel)	2,738.56
Journal Voucher (Payroll)	260.64
Journal Voucher (Pension Funds)	11.33
Journal Voucher (Machinery)	145.00
Journal Voucher (Rental Space-Paint Dept.) ...	600.00
Journal Voucher (Fertilizer)	10.40
Journal Voucher (Cement)	22.32
Journal Voucher (City Decals)	<u>145.00</u>
TOTAL <u>\$4,658.46</u>	

LAND ACCOUNT (INDUSTRIAL PARK)

The expenditure under this heading was for prints of the Industrial Park, placing of culverts, updating of plans and survey of lots and easements in the Industrial Park.

The total expenditure was \$7,918.73 and was made up as follows:

Journal Vouchers (Payroll, Pensions, Machinery).\$	1,421.65
Journal Vouchers (Concrete Pipe & Gravel)	845.88
Gorman Construction Ltd. (Gravel)	395.79
Workmen's Compensation (Balance Re L.I.P. Projects)	75.51
Seaboard Surveys (Updating Plans, Prints, & Survey of Industrial Park).....	<u>5,179.90</u>
TOTAL <u>\$ 7,918.73</u>	

LAND ACCOUNT (OTHER)

The expenditure under this heading was \$289.45 for work done by Seaboard Surveys regarding former Richard's Lot on King Street.

LOCAL INCENTIVES PROGRAM-1973

In 1973 a number of local incentive programs were undertaken in the City of Fredericton on a cost sharing basis with the Federal Government.

Local Incentives Programs undertaken were as follows:

- 1) L.I.P. #E 1179 (Continued from 1972)-Clearing Future Industrial Area).
- 2) L.I.P. #E 1200 (Continued from 1972)-Clearing Serviced Industrial Area).
- 3) L.I.P. #E 1576 - Clearing Landfill Area - Vanier Highway.

1) L.I.P. #E 1179-Clearing Future Industrial Area

This project consisted of the clearing of approximately 20 acres of Forested Lands in the Wilsey Road Area. This project began in 1972 and continued into 1973.

Labour	\$ 8,553.01
City Machinery	692.00
Pension Funds	181.12
Materials (Fuel, Axes, etc.)	523.23
Workmen's Compensation	<u>686.41</u>

	10,635.77
Less Government of Canada Payments	<u>4,328.00</u>
NET COST TO CITY (1973)	<u>\$ 6,307.77</u>

2) L.I.P. #E 1200-Clearing Serviced Industrial Area

This project consisted of the clearing of approximately 30 acres of forest area for future industrial use. This project began in 1972 and continued into 1973.

Labour	\$ 9,932.54
City Machinery	740.00
Pension Funds	210.07
Materials	492.19
Workmen's Compensation	<u>818.28</u>

	12,193.08
Less Government of Canada Pay- ments	<u>3,983.85</u>
NET COST TO CITY (1973)	<u>\$ 8,209.23</u>

3) L.I.P. #E 1576-Clearing Landfill Area-Vanier Highway

This project consisted of the clearing of forested area for future use as a landfill area.

Labour	\$ 6,300.99
City Machinery	670.00
Pension Funds	152.24
Materials (Fuel, Axes, etc.)....	269.30
Workmen's Compensation	<u>475.33</u>

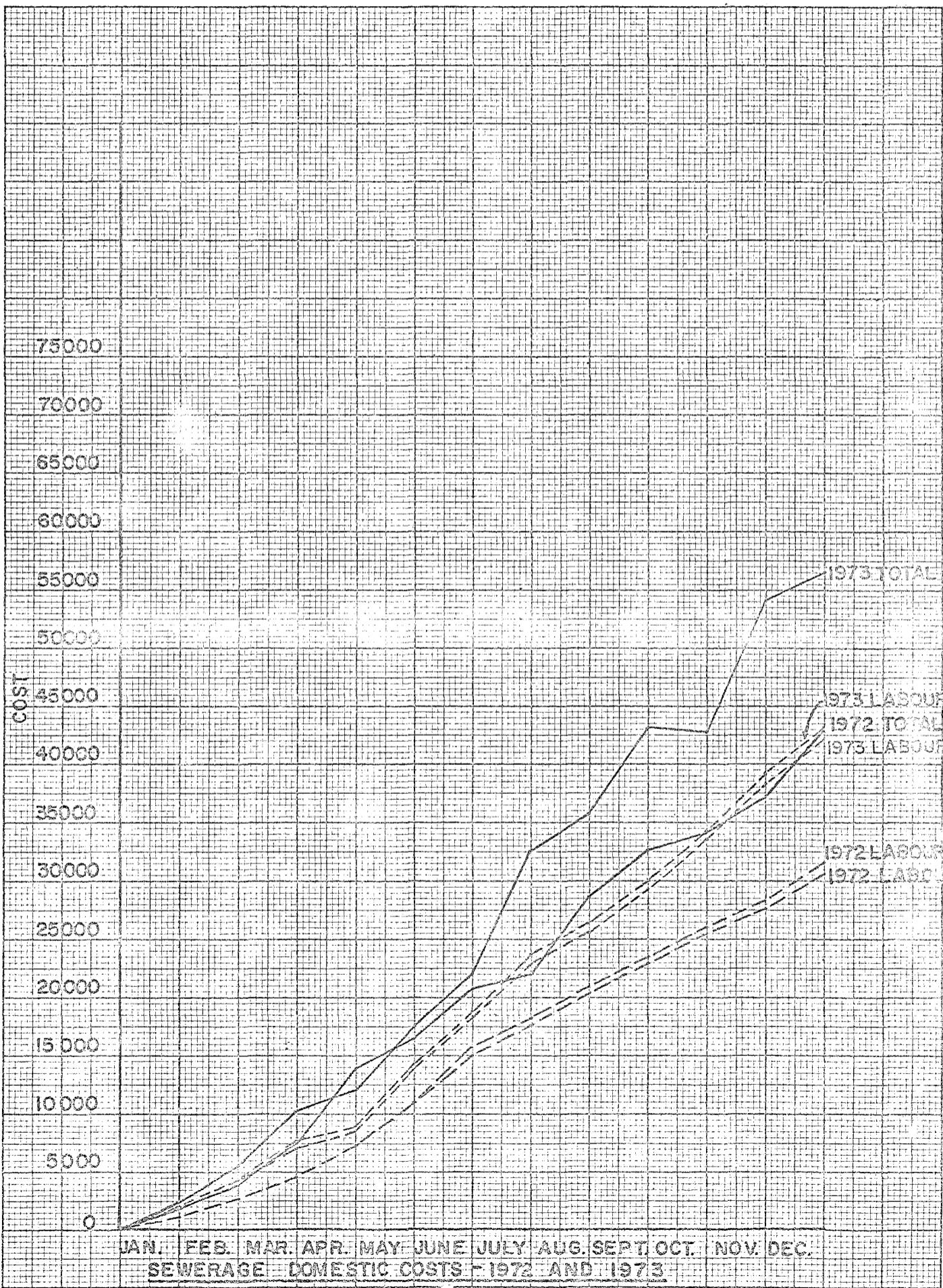
	7,867.86
Less Government of Canada Pay- ments	<u>7,675.02</u>
NET COST TO CITY (1973)	<u>\$ 192.84</u>

DOMESTIC SEWER

Labour	\$ 42,276.41
Hired Trucks and Machinery	880.77
City Machinery Costs	19,977.25
Material Costs	36,972.32
F.A.P.C. Sewerage Treatment	<u>167,285.86</u>

Gross Expenditure\$267,392.61

Credits	<u>43,961.28</u>
NET EXPENDITURE	<u>\$223,431.33</u>



The credit of \$43,961.28 was made up as follows:

Material, Labour & Supplies for House	
Connections	\$ 1,449.08
Work done for Private Parties	11.57
Journal Vouchers (Material Out, Inter Dept.	
Use of Machinery)	1,364.94
Journal Vouchers (Service Installations &	
Repairs)	<u>41,135.69</u>
TOTAL <u>\$43,961.28</u>	

New Customers connected to the City Sewer System
in 1973-233.

All Dead End Sewer Mains were cleaned and flushed in
1973.

The Fredericton Area Pollution Control Commission was formed in 1968 and work commenced on Pollution Control of Sewerage for the Fredericton Area, including Nashwaaksis, Marysville, Fredericton and Barkers Point. This system was put in operation October 10, 1970.

The Fredericton Domestic Sewer System consists of 73.45 miles (13.24 in Carleton Ward and 60.21 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
18" Concrete Pipe	0.32 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 Pipe	0.92 miles
8" Terra Cotta Pipe	35.01 miles
16" Transite Pipe	0.12 miles
12" Transite Pipe	1.20 miles
12" Corrigated Pipe	0.07 miles
10" Transite Pipe	3.20 miles
8" Cast Iron Pipe	0.04 miles
8" Transite Pipe	20.80 miles
6" Transite Pipe	0.02 miles
6" Cast Iron (Duct.) Force Main	<u>0.93 miles</u> 4

TOTAL ... 73.45 miles

This does not include the sewer mains installed by the National Defence at the Exhibition Grounds, University of New Brunswick, St. Anne's Point on Woodstock Road and the Low Rental Housing Development in Carleton Ward.

The Fredericton Area Pollution Control Commission Collector Sewer System constructed in 1969 and 1970 is not included in the above mileage.

WATER

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

- 1) During 1973 the south side of the Saint John River derived its water from Four Gravel Wall Wells and a Rock Wall Well. Three of these Gravel Wall Wells, namely #1, #3, and #4 are situated in Wilmot Park and #5 on Woodstock Road on the south bank of the Saint John River, west of the Royal Canadian Mounted

Police property. This property was acquired from the Province of New Brunswick in 1968. The Rock Wall Well is situated in Cameron Court and supplies approximately three-quarters of the residences on Panwell Road.

2) The water supply on the north side of the Saint John River is derived from four Wells; two of these Wells are outside the City Limits and pump directly into the system and a 1,000,000 Gallon Reservoir. A third Well is located on Bridge Street. The Bridge Street Well is a standby service only due to marginal Chemical Characteristics. A Well on Maple Street drilled in 1971 was put into the system on July 31, 1973.

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 Well, and Liquid Chlorine is added at the Maple Street Well.

The Water Costs for the City of Fredericton are divided as follows:

1) Water Administration (Salaries of Office Staff and Office Equipment, Bill Collecting and Meters)	\$ 73,153.02
2) Water Ordinary	198,404.50
3) Water Pumping Station	<u>95,384.19</u>

Gross Expenditure	\$ 366,941.71
*Credits	<u>61,753.80</u>
NET EXPENDITURE	<u>\$ 305,187.91</u>

*Credits found under separate headings.

The Water account includes all expenditures, other than Capital Expenditure for Water and Amortization expenditures.

1) WATER ADMINISTRATION

Gross Expenditure	\$ 73,153.02
Credits	<u>10,000.00</u>
NET EXPENDITURE	<u>\$ 63,153.02</u>

The above credit is made up as follows:

Journal Voucher (L.P. McNeill, portion of salary, Engineering Dept. Staff). \$ 5,000.00	
Journal Voucher (E.L. Coy, portion of salary, Engineering Dept. Staff)....	<u>5,000.00</u>
	\$10,000.00

The expenditure for Billing and Collecting was \$46,803.34 and is made up as follows:

Journal Vouchers (Payroll, Pensions)....	\$10,658.41
City of Fredericton (City Pension-Payrolls)	796.27
Unemployment Insurance Commission	209.89
Salaries	19,466.00
Rental of Office Space	3,831.96
Printing (Meter Cards, Water Bills, Notices)	750.23
Receiver General of Canada (Canada Pension, Payrolls, Postage, Meter Post Cards)	2,572.31

Purchases (Office Supplies)	\$ 462.82
Service on Machines	423.29
I.A.C.(Payment on NCR 400)	5,671.41
N.B. Telephone (P.B.X. Charges).....	576.00
Workmen's Compensation Assessment	369.51
Convention & Seminar Expenses	784.31
Jur-na-rol Material	<u>230.93</u>

TOTAL\$46,803.34

METERS:

On December 31, 1973 there were 5,865 water services on meter and 245 on Flat Rate, making a total of 6,110.

The labour cost per meter for installing, reading, etc. was \$2.95 for 1973.

245 meters were installed in 1973, 1 regular meter changed to ARB, 94 regular meters changed to TRT, and 7 ARB meters changed to TRT.

In 1973, 22 discontinued services were excavated and shutoff at the main, 48 stopped meters replaced and 14 frozen meters replaced.

In 1973, all meters were read quarterly and billed quarterly during the year.

Meters in Stock December 31, 1973:

Size	ARB	Regular	TRT	To Be Repaired			Total
				ARB	Regular	TRT	
1/2"	4	1	0	0	1	0	6
5/8"	10	1	100	5	33	1	150
3/4"	1	2	0	0	0	0	3
1"	0	1	0	0	2	0	3
1 1/4"	0	1	0	0	0	0	1
1 1/2"	1	0	1	0	3	0	5
2"	1	2	8	0	1	0	12
3"			2-Compounds				2

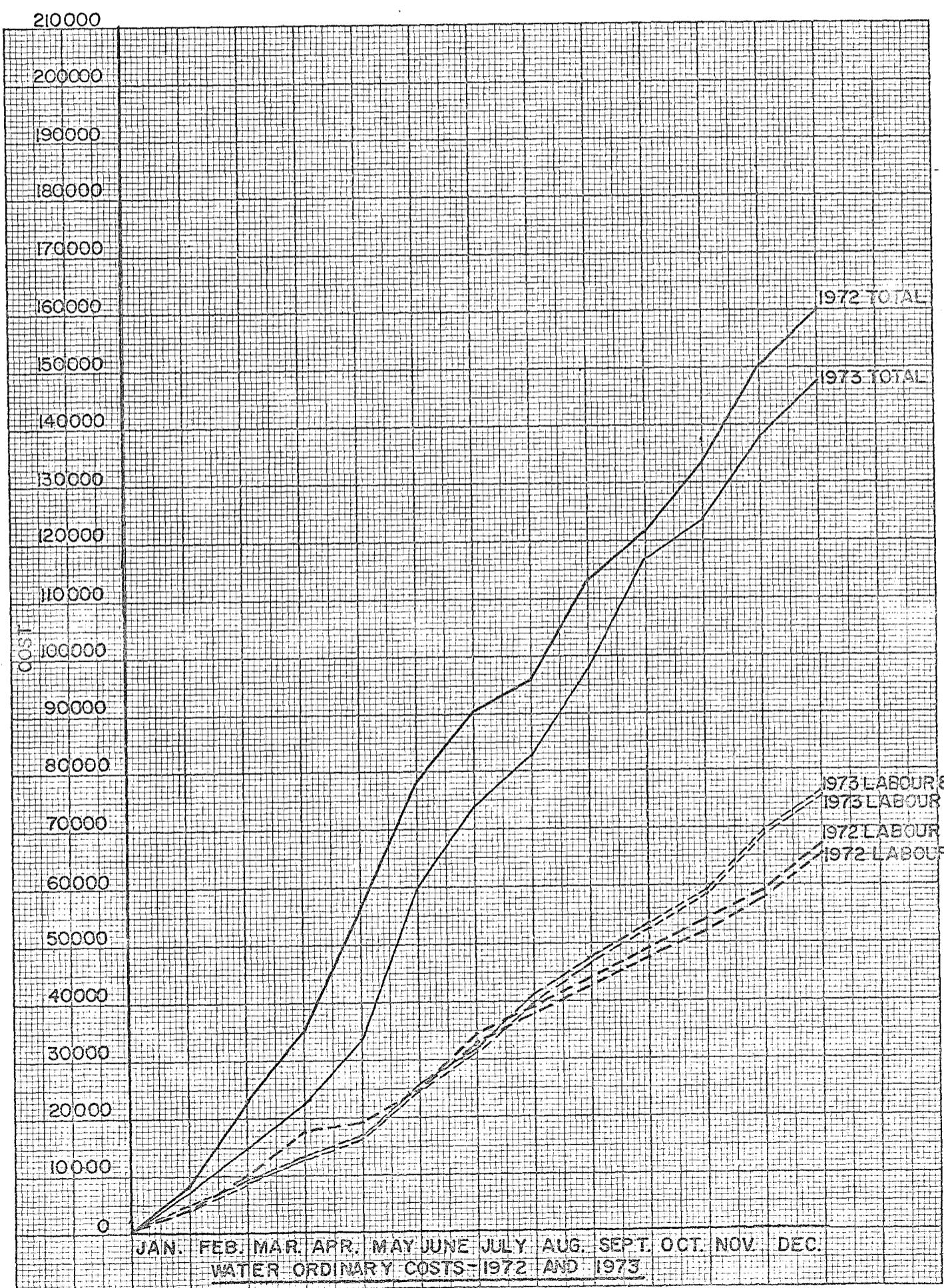
(2) WATER ORDINARY

The expenditure under this heading is as follows:

Gross Expenditure	\$ 198,404.50
Credits	<u>51,186.36</u>
NET EXPENDITURE	<u>\$ 147,218.14</u>

The credits are made up as follows:

Hydrants (Maintenance & Installation)....	\$ 633.48
Meters (Maintenance & Installation)	156.26
Journal Vouchers (Lead, Water Boxes, Rods, Material Out, Corporation Stock, Copper, Inter Dept. Use of Machinery, etc.) ...	3,990.50
Repairs to Water Services, Water Boxes, and Water Hookup Charges	40,732.52
Thawing Services (Sprinklers & Lines)....	86.38
Installation of T.S. & V's and Sprinklers for Private Parties	<u>5,587.22</u>
	<u>\$ 51,186.36</u>



The Gross Expenditure is made up as follows:

City Payrolls for Hydrants (Labour)	\$ 4,570.88
City Payrolls for Hydrants (Maintenance)	2,076.75
City Payrolls for Meters (Repairs)	4,615.55
City Payrolls for Meters (Reading)	6,135.64
City Payrolls for Meters (Installation)	6,584.56
City Payrolls for Water (Installation)	18,802.01
City Payrolls for Lincoln Road Pumping Station..	1,519.06
City Payrolls for Smythe St. (Booster Station)..	1,499.54
City Payrolls for Montgomery St. (Booster Station)	1,519.73
City Payrolls for Forest Hill (Booster Station):	1,424.27
City Payrolls for Water (Maintenance)	<u>26,595.92</u>
 Total Payrolls	\$ 75,343.91
Hired Machinery Charges	911.88
Vehicle Repair (Excluding Shop Labour)	2,020.26
City Machinery Charges	21,163.25
Materials	42,242.01
Hydrants (Maintenance & Installation)	12,047.60
Meters (Maintenance & Installation)	<u>44,675.59</u>
 GROSS EXPENDITURE	<u>\$198,404.50</u>

The following Sprinklers were installed in 1973:

- (1) F.E. Daniels Moving-MacKenzie Road
- (2) G.E. Chalmers Hospital-Regent Street
- (3) Kings Place-Carleton Street
- (4) City Tire (United Contractors)-Wilsey Road
- (5) Hilltop Tavern-Prospect Street
- (6) Fredericton Mall Extension-Prospect Street
- (7) Consumers Distributing-Prospect Street

There are at present (December 31, 1973) 94 Sprinkler Systems in the City. The City rate in 1973 for Sprinkler connection demand is \$120.00 per year, charged to "Fire Protection".

There are in the City as of December 31, 1973, 612 hydrants, 122 on the north side of the Saint John River, and 490 on the south side of the Saint John River.

The Hydrant Rental for 1973 amounted to \$70,870.00 which will appear in this report later and is not included in credits to "Water Ordinary".

Hydrants were installed at the following locations in 1973:

<u>Location</u>	<u>Number</u>
Beaconsfield Street	2
Flemming Road	1
Parkside Drive, Greenfields Ct. and Drive	3
Meadow Green Court	1
Weyman Street	1
Priestman Street	2
Industrial Road-Hilton to Vanier (MacKenzie Road)	2
Smythe Street Extension	1
Elgin Street	1
McKeen Street Extension	<u>1</u>

TOTAL ... 15

DISTRIBUTION SYSTEM:

New Services Installed in 1973	234
Old Services Relayed in 1973	31
Frozen Services that had to be Thawed	12

The Fredericton Distribution System consists of 76.38 miles of Water Main, made up as follows:

18" Main	0.98 miles
14" Main	0.33 miles
12" Main	8.45 miles
10" Main	9.01 miles
8" Main	18.34 miles
6" Main	32.73 miles
4" Main	6.27 miles
3" Main	<u>0.27</u> miles
TOTAL	<u>76.38</u> miles

This does not include the water mains installed by the National Defence at the Exhibition Grounds, University of New Brunswick, St. Anne's Point Barracks on the Woodstock Road, and the low rental housing development in Carleton Ward.

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; 0.16 miles of 12" Cast Iron Pipe extending from the Well on the South bank of the Saint John River on Woodstock Road to the Well Site of #1 Well at Wilmot Park; 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 for Domestic consumption since 1957.

Following is a list of vehicles used and charged to "Water Ordinary" showing a comparison of repair charges for 1972 and 1973, including tires and tubes:

Name of Vehicle	Year Purchased	1972 Repairs	1973 Repairs
Chev. $\frac{1}{2}$ T #2	1969	\$ 383.49	\$ 569.82
Ford Van #5	1971	292.76	1,124.62
Ford $\frac{1}{2}$ T #32	1966	859.42	240.42
G.M.C. Van #35	1971	87.79	252.85
G.M.C. $\frac{1}{2}$ T #7	1972	<u>119.32</u>	<u>56.47</u> CR
TOTALS		<u>\$1,742.78</u>	<u>\$2,131.24</u>

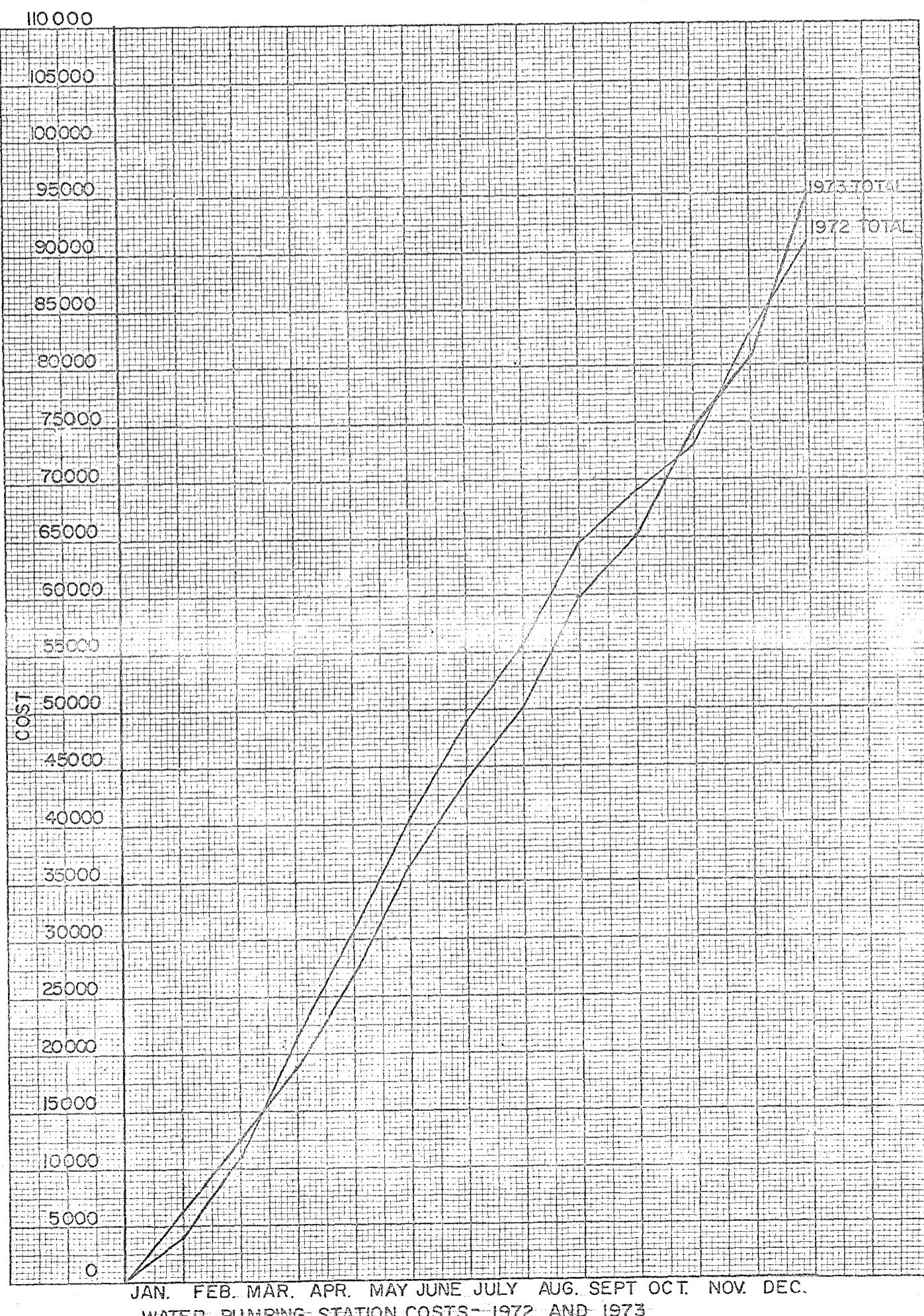
(3) WATER PUMPING STATION

Gross Expenditure	\$ 95,384.19
Less Credits	<u>567.44</u>
NET EXPENDITURE	<u>\$ 94,816.75</u>

The above expenditure is made up as follows:

City Payrolls for salaries of employees at Pumping Station	\$ 41,841.33
Work done by City Employees at Cameron Court Pump and Well	1,424.27
Work done by City Employees at Carleton Ward Pumps	2,984.41
Work done by City Employees in and around the Pumping Station	141.45
Material Charges	<u>48,992.73</u>

TOTAL ...\$ 95,384.19



Less Credits:

Long Distance Calls, Empty
Cylinders Returned, Tax &
Interest on Purchases, etc.....\$ 567.44

NET EXPENDITURE\$ 94,816.75

The material cost of \$48,992.73 is made up as follows:

Light and Power supplied by N.B.E.P.C.....\$ 18,700.68
Light and Power supplied by N.B.E.P.C. at
Wells 10,153.80
Heating (4895 gallons furnace oil) 961.12
Diesel Fuel (3632 gallons) 651.94
Liquid Chlorine (2400 lbs.) 997.61
Oil 117.98
E.W. Hagerman (City Analyst Salary) 2,864.04
Stationery Forms, Charts, Chemicals, Ink, etc.. 322.52
Workmen's Compensation 1,015.32
New Brunswick Telephone 827.91
Unemployment Insurance Commission 15.73
Receiver General (Canada Pension) 40.80
Minister of Finance (S.S.&E. Tax on Materials
for Wells and Booster Stations). 78.06
Carleton Ward Pumping Station (Materials) 155.31
Minister of Finance (Taxes on Water Pumping
Station) 1,640.75
Carleton Ward (Repairs to Pumps) 4,199.19
Journal Voucher (Pensions, Machinery, Gas & Oil) 287.82
Parts and Repair of Machinery 2,625.17
Harrisons & Crosfield Ltd. (300#-HTH Granular). 148.95
Furnace Repair 74.81
Miscellaneous (Dues, Bulbs, Keys, Paint,
Brushes, Rags, etc.) 3,113.22

TOTAL\$ 48,992.73

Less Credit Previously Shown 567.44

NET EXPENDITURE\$ 48,425.29

HEATING:

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

<u>Year</u>	<u>Gallons Furnace Oil</u>	<u>Cost</u>
1964	5,355.8	\$ 762.55
1965	5,067.2	707.75
1966	5,583.1	769.80
1967	3,961.7	539.84
1968	6,121.5	837.63
1969	6,032.6	869.90
1970	5,829.6	840.79
1971	5,125.0	810.45
1972	5,547.0	913.02
1973	4,895.0	961.12

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

Year	Imp. Gallons Produced	Production Expenditures	Production Cost Per 1000 Gallons
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	688,514,000	52,749.40	7.9 cents
1968	735,296,000	64,617.14	8.8 cents
1969	730,089,200	69,831.20	9.5 cents
1970	796,421,300	72,282.38	9.1 cents
1971	841,712,300	76,827.46	9.1 cents
1972	921,309,300	81,585.18	8.9 cents
1973	941,502,100	81,478.87	8.66 cents

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

The total consumption from Wells in Carleton Ward for 1973 was 105,305,370 Imperial Gallons.

The total amount of water pumped from January 1, 1973 to December 31, 1973, therefore, for the whole City is 1,046,807,470 Imperial Gallons.

The total net water expenditure (operating) for the City from January 1, 1973 to December 31, 1973 is \$197,765.56.

The above net water expenditure (operating) was determined from the following:

Source of Supply	\$ 25,253.55
Power & Pumping	61,280.69
Maintenance of Equipment (Plant)...	1,403.48
Purification and Treatment	5,410.22
Transmission & Distribution	19,111.43
Transmission & Distribution Maintenance	82,544.35
Other (Taxes & Insurance)	<u>2,761.84</u>
TOTAL	<u>\$197,765.56</u>

Therefore, the net cost to pump and deliver to the customer 1,000 Imperial Gallons of Water from January 1, 1973 to December 31, 1973 is:

$$\frac{\$197,765.56}{1,046,807.47} = 18.8 \text{ cents}$$

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

For Future Reports

Water and Sewer Revenue - 197

Water

<u>Expenditure:</u>	<u>Expenditure</u>
Water Pumping Sta.	—
Water Ord.	—
Hyds.	—
Sprinklers	—
Meters	—
Water off. Adm	—
Salaries	—
Principal & Int.	—
Taxes.	—

Revenue

~~Surplus or Deficit -~~

Same Procedure for Domestic Service

The cost of 1,000 gallons of water delivered including principal and interest is as follows:

Total Administration & Operating Costs.....	\$305,437.91
Principal & Interest	<u>191,195.00</u>
TOTAL COSTS	<u>\$496,632.91</u>

Total Cost of Water Per Thousand Gallons:

\$496,632.91 = 47.5 cents
1,046,807.47

Principal and Interest Costs: \$191,195.00 = 18.2 cents
1,046,807.47

Administration and Operating Costs: \$305,437.91 = 29.3 cents
1,046,807.47

The Water Pumping Station is under the supervision of Plant Superintendent, Mr. George Parker.

4) HYDRANT REVENUE

Hydrant and Sprinkler Revenue amounted to \$82,150.00 (Hydrants-\$70,870.00 and Sprinklers-\$11,280.00). Rental on Hydrants and Sprinklers in the City of Fredericton is charged to the Fire Department at \$120.00 per hydrant per year.

WATER AND SEWER REVENUE-1973

WATER:

	<u>REVENUE</u>	<u>NET EXPENDITURE</u>	<u>DEFICIT</u>
Water Pumping Station		\$ 94,816.75	
Water Ordinary	\$420,788.35	91,395.67	
Hydrants	70,870.00	11,414.12	
Sprinklers	11,280.00		
Meters	28,093.10	44,519.33	\$16,426.23
Water Office Admin.		46,803.34	
Salaries		16,349.68	
Principal & Interest		191,195.00	
Taxes		2,761.84	
TOTAL (WATER)	<u>\$531,031.45</u>	<u>\$499,255.73</u>	-

DOMESTIC SEWER:

Sewerage Domestic	\$299,168.16	\$ 56,503.07
F'iton Area Pollution Control Comm. Sewage Treatment		167,285.86
Principal & Interest		<u>59,640.50</u>
TOTAL (DOMESTIC SEWER)	<u>\$299,168.16</u>	<u>\$283,429.43</u>

Accompanying this Report is the Report of Mr. E. W. Hagerman, City Analyst, on the Fredericton Water Supply from January 1, 1973 to December 31, 1973.

Respectfully submitted,

W.L. Barrett
CITY ENGINEER

FREDERICTON WATER SUPPLY

1973

Fredericton, south of the Saint John River, has been pumping water from three gravel walled wells, numbered 1, 3 and 4, since 1955 (18 yrs.), 1960 (13 yrs.), and 1961 (12 yrs.) respectively. All three wells are in Wilmot Park.

In 1969 (4 yrs) No. 5 well was drilled in gravel on the river bank at Saint Anne's Point. It produced fairly good water for a short time but the Manganese content has increased from 0.17 parts per million to 0.7 parts per million. This is too high for domestic use and must be diluted with low manganese water from the other wells.

The waters of all four wells are free of harmful bacteria. A small dose of chlorine (0.1 to 0.2 p.p.m.) is added at the pumping station to prevent organic growths in the pipe system and as a safeguard against possible bacterial contamination should breaks in the mains occur.

A fifth well, Hanwell, is drilled in rock and is located southeast of Cameron Court road, a short distance above its junction with Hanwell Road.

Hanwell well went on line in 1967 (6 yrs). It pumps through a pipe grid to a 100,000 gallon, high level, reservoir.

The water from this well is clear, cold and of good chemical quality (trace only of manganese).

Unfortunately it often gives positive coliform tests and occasionally develops a stale smell and taste. Chlorine kills the bacteria but does not effectively deal with the smell taste problem.

A chlorine residual of 0.35 p.p.m. was maintained at the pump from January to May as a possible corrective for the taste smell condition but results were not definite. Chlorine was reduced varying from .15 to .10 p.p.m. to the end of the year with no increase in the taste smell complaints.

In Carleton Ward, north of the river, four wells are drilled in rock formation.

Killarney, the oldest, has been pumping since 1914 (59 yrs). Bridge Street well was completed in 1958 (17 yrs) and Carleton Well in 1963 (10 yrs).

The latest well, Maple Street, went on line July 31, 1973. It has shown occasional positive coliform tests and must be chlorinated.

Chlorinators are installed at Killarney and Maple street wells where sufficient chemical is added to produce effluents carrying 0.15 to 0.20 p.p.m. of chlorine.

Attached are copies of coliform tests, Chemical tests and a list of chlorine residuals taken in the flood period.

(Sgd.) E. W. HAGEMAN,

City Analyst

CHLORINE RESIDUALS

Flood 1973

April

		<u>Time</u>	<u>p.p.m. Cl.</u>
Fri. 27	Surrey Crescent	nil	
Fri. 27	67 Avondale Court	nil	
Fri. 27	62 Alexandra Street	.01	

May

Tues. 1	Smythe Street Reservoir	2 P.M.	.02
Tues. 1	Carleton Reservoir	3 P.M.	Trace
Fri. 4	465 Highland Avenue	9 A.M.	.15
Fri. 4	305 Highland Avenue	10 A.M.	.05
Fri. 4	339 St. Mary's St.	10 A.M.	.35
Sun. 6	127 Charlotte St.	8 A.M.	.20
Sun. 6	107 Alexandra St.-4 ft. water in cellar	10 P.M.	.03
Sun. 6	62 Alexandra St.	10 P.M.	.02
Mon. 7	127 Charlotte St.	8 A.M.	.20
Mon. 7	570 Lincoln Rd.	10 A.M.	.05
Mon. 7	132 Waterloo Row	10 A.M.	.12
Mon. 7	260 University Ave.	11 A.M.	.07
Mon. 7	835 Churchill Row	11 A.M.	.09
Mon. 7	Centennial Bldg.	12 Noon	.02
Mon. 7	Royal Bank-Queen St.	12 Noon	.12
Mon. 7	Smythe St. Booster Station	2 P.M.	.10
Mon. 7	Montgomery Booster	2 P.M.	.05
Mon. 7	Rural Grave Yard Extension	3 P.M.	nil
Mon. 7	21 Golf Club Road	3 P.M.	nil
Mon. 7	212 Woodstock Road	3 P.M.	.05
Tues. 8	127 Charlotte St.	8 A.M.	.30

1973

CHEMICAL ANALYSIS OF FREDERICTON WATER

LOCATION	Yr.	Mo.	Day	PH.	ALK.	HARD	FE	MN.	CL ^{ide}
No. 1 Well	'73	Feb.	26	7.2	58	.58	0.02	0.05	7.0
No. 3 Well	'73	Feb.	4	7.0	78	114	.04	0.05	18.0
No. 4 Well	'73	Feb.	4	6.9	55	74	.01	0.05	11.0
No. 5 Well	'73	Jan.	6	7.3	53	60	.03	0.70	3.4 On 9 Hrs. 900 IGM.
Hanwell	'73	Mar.	5	7.1	68	68	-	-	-
Hanwell	'73	Apr.	9	7.5	85	62	0.02	nil	16 SO ₄ 16:5
Hanwell	'73	Nov.	7	7.5	98	53	0.02	TR	20
Maple St. Well	'73	Mar.	13	7.2	102	145	0.40	0.07	37 Standing for several weeks pump ran 10 Min. to clear water.
Maple St. Well	'73	Apr.	6	7.3	76.5	90	1.50	.07	10* *Low chloride may be snow water.
Maple St. Well	'73	Apr.	9	7.3	95	134	0.03	.04	27

Extracts from United States Treasury Standards

Applicable to Fredericton Water Supply

- (1). A minimum sample of 100 milliliters is collected.
- (2). Five 10 milliliter portions of the 100 milliliter sample are tested.
- (3). Primary plantings are made in Lactose Broth.
- (4). Portions forming gas in Lactose Broth are confirmed in 2% Brilliant Green Bile.

APPLICATION OF TEST

- (1). Of all the 10 milliliter portions examined per month, not more than 10% shall show positive. (ie. make gas).
- (2). When less than 20 samples per month are examined, one sample may show three positive portions.
- (3). Using a standard sample of five 10 milliliter portions, provides for an estimation of the MOST PROBABLE NUMBER (M.P.N.) of Coliform bacteria per 100 milliliter of sample as shown in the table below.

Negative	Positive	When five 10 milliliter portions are tested
5	0	Less than 2.2 organisms per 100 is the MPN.
4	1	2.2 organisms per 100 is the MPN.
3	2	5.1 organisms per 100 is the MPN.
2	3	9.2 organisms per 100 is the MPN.
1	4	16 organisms per 100 is the MPN.
0	5	More than 16 organisms per 100 is the MPN.

TEST FOR COLIFORM BACTERIA

1973

The test divides the 5 portions into plus or minus results. Using these results with the table on the preceding page, gives the M.P.N. (Most Probable Number) of coliform organisms per 100 milliliter sample.

Date of Sample	Origin of Sample	No. of		MPN per 100 ml.	Note: (-) means less than 2.2 organisms per 100 milliliters of sample
		-	+		
January Fri. 5	570 Lincoln Road	5	0	-2.2	
Wed. 10	738 Hanwell Road	5	0	-2.2	
Fri. 19	56 Cameron Court	5	0	-2.2	
Mon. 22	484 Hanwell Road	5	0	-2.2	
Mon. 29	Bridge St. Pump(Raw)	5	0	-2.2	

Date of Sample	Origin of Sample	No. -	No. +	MPN per 100 ml.
<u>February</u>				
Tue. 6	U.N.B. Engineering	5	0	-2.2
Fri. 9	377 Gibson Street	5	0	-2.2
Wed. 21	F'ton Pony Club	5	0	-2.2
Wed. 28	Hanwell Well (Raw)	4	1	2.2
<u>March</u>				
Tue. 13	Maple St. Well (Raw)	3	2	5.1
Wed. 14	Carleton Well (Raw)	5	0	-2.2
Sat. 17	286 Oxford Street	5	0	-2.2
Wed. 21	Sobey's (Mall)	5	0	-2.2
<u>April</u>				
Wed. 4	Tee's Wash (Union & Friel)	5	0	-2.2
Fri. 6	Maple St. Well (Raw)	4	1	2.2
Mon. 9	Maple St. Well (Raw)	4	1	2.2
Mon. 9	124 Colonial Hts.	5	0	-2.2
Mon. 9	Hanwell Well (Raw)	5	0	-2.2
Thur. 26	Wilmot Park Rec. Centre	5	0	-2.2
Fri. 27	Surrey Crescent	5	0	-2.2
Fri. 27	67 Avondale Ct.	5	0	-2.2
Fri. 27	62 Alexandra	5	0	-2.2
Fri. 27	Raw Wells 1,3,4 Mixed	5	0	-2.2
<u>May</u>				
Tue. 1	Smythe St. Res. (Raw)	5	0	-2.2
Tue. 1	Carleton Res. (Raw)	5	0	-2.2
Wed. 2	Raw Wells 3,4,5 Mixed	5	0	-2.2
Wed. 2	107 Alexandra	5	0	-2.2
Wed. 2	Bridge St. Well (Raw)	4	1	2.2
Wed. 4	Bridge St. Well (Raw)	4	1	2.2
Fri. 4	277 Gibson Street	5	0	-2.2
Thur. 10	912 Union-Craig Elect.	5	0	-2.2
Thur. 10	952 Union-Irving Bulk	5	0	-2.2
Tue. 15	127 Charlotte St.	5	0	-2.2
Fri. 25	21 Golf Club Rd.	5	0	-2.2
Wed. 30	F'ton Boat Club	5	0	-2.2
<u>June</u>				
Wed. 6	Rural Cemetery	5	0	-2.2
Thur. 7	570 Lincoln Rd.	5	0	-2.2
Fri. 22	Hanwell Well (Raw)	5	0	-2.2
Fri. 29	351 Hanwell Rd.	5	0	-2.2

Date of Sample	Origin of Sample	No. -	No. +	MPN per 100 ml.	
<u>July</u>					
Mon.2	377 Gibson St.	5	0	-2.2	
Tue.10	U.N.B. Engineering	5	0	-2.2	
Fri.20	Fire Sta. MacLaren Ave.	5	0	-2.2	
Sun.29	127 Charlotte St.	5	0	-2.2	
<u>August</u>					
Mon.6	Flemming Res. Intake	5	0	-2.2	
Tue.7	Flemming Res. Intake	5	0	-2.2	
Wed.8	Maple St. Well(Raw)	0	5	More than 16 organisms per 100 ml.	
Sat.25	120 Carleton	5	0	-2.2	
Wed.29	377 Gibson St.	5	0	-2.2	
<u>September</u>					
Wed.5	50 Hazen Ct.	5	0	-2.2	
Wed.5	Regent St. Res.	5	0	-2.2	
Tue.11	99 Smith St.	5	0	-2.2	
Thur.20	727 Irvine St.	5	0	-2.2	
<u>October</u>					
Mon.1	329 Union St.	5	0	-2.2	
Fri.12	965 Union St.	5	0	-2.2	
Tue.16	114 Crerar St.	5	0	-2.2	
Tue.16	360 Hanwell Rd.	5	0	-2.2	
Sat.20	1213 Regent St.	5	0	-2.2	
Sat.20	1213 Regent St.	5	0	-2.2	
Thur.25	164 Charlotte St.	5	0	-2.2	
<u>November</u>					
Wed.7	510 Hanwell Rd.	4	1	2.2	Residual CL. Nil
Sun.11	510 Hanwell Rd.	5	0	-2.2	Residual CL. Nil
Sun.11	Hanwell Well(Raw)	4	1	2.2	
Fri.16	510 Hanwell Rd.	5	0	-2.2	Res. CL. 0.1 ppm
Fri.16	Hanwell Well(Raw)	5	0	-2.2	
Tue.20	U.N.B. Engineering	5	0	-2.2	
<u>December</u>					
Wed.12	MacLaren Ave. Fire Sta.	5	0	-2.2	
Mon.17	127 Charlotte St.	5	0	-2.2	
Mon.31	952 Union St.	5	0	-2.2	
Mon.31	529 Gibson St.	5	0	-2.2	

Report of Water Meter Dept. 1973

In the period Jan. /73 to Dec. 31/73 :

234 Water services installed

233 Domestic sewer services installed

245 New Water meters installed (Fredericton)

11 " " " " (Marysville)

4 " " " " (Silverwood)

6 " " " " (Barkers Point)

48 Stopped meters were replaced

17 Flat Rates metered

14 Frozen meters replaced

94 Regular register meter replaced by TRT meter

1 Regular register meter replaced by ARB meter

7 ARB register meter replaced by TRT meter

Individual lists of each transaction is attached.

Walter Flinn,
WATER DEPARTMENT

NAME	ADDRESS	DATE	Water pipe size	Sewer pipe size
1. Parkside Dev.	83-89 Parkside Dr.	Jan. 18	3/4" Cop.	4" A.C.
2. Starlite Homes	131 Colonial Hgts.	Apr. 17	3/4" "	4" "
3. City Const.	305 Wetmore Rd.	Apr. 18	3/4" "	4" "
4. City Const.	315 Wetmore Rd.	Apr. 19	3/4" "	4" "
5. Rogers & Nauss	290 Flemming Rd.	Apr. 19	3/4" "	4" "
6. City Const.	385 Wetmore Rd.	Apr. 24	3/4" "	4" "
7. Rogers & Nauss	275 Flemming Rd.	Apr. 25	3/4" "	4" "
8. F'ton Housing	125 Surrey Cres.	Apr. 26	3/4" "	4" "
9. Custom Builders	523 Canterbury Dr.	Apr. 26	3/4" "	4" "
10. F'ton Housing	120 Surrey Cres.	Apr. 27	3/4" "	4" "
11. F'ton Housing	160 Surrey Cres.	May 1	3/4" "	4" "
12. F'ton Housing	155 Surrey Cres.	May 2	3/4" "	4" "
13. Donat Basque	85 Surrey Cres.	May 2	3/4" "	4" "
14. F'ton Housing	30 Surrey Cres.	May 3	3/4" "	4" "
15. F'ton Housing	170 Surrey Cres.	May 4	3/4" "	4" "
16. F'ton Housing	190 Surrey Cres.	May 7	3/4" "	4" "
17. Topmar Housing	491 Prospect St. E.	May 10	1" "	4" "
18. Chippins Ltd.	376 Westmorland St.	May 10	2" "	6" "
19. Chippins Ltd.	50 Hazen Ct.	May 11	3/4" "	4" "
20. Chippins Ltd.	65 Hazen Ct.	May 11	3/4" "	4" "
21. Chippins Ltd.	35 Hazen Ct.	May 14	3/4" "	4" "
22. Hill Bros.	99 Ashfield St.	May 15	3/4" "	4" "
23. Clowaters Plumb.	207 King St.(Ext.of Ser.)	May 15	1" "	4" "
24. John Bamford	100 Ashfield St.	May 15	3/4" "	4" "
25. Parkside Dev.	125 Parkside Dr.	May 16	2" "	6" "
26. Hill Bros.	141 Ashfield St.	May 16	3/4" "	4" "
27. James Poore	53 Ashfield St.	May 17	3/4" "	4" "
28. Nijil Const.	96 Parkside Dr.	May 18	3/4" "	4" "
29. Reginald Wheaton	50 Ashfield St.	May 18	3/4" "	4" "
30. Robert Chase	56 Ashfield St.	May 18	3/4" "	4" "
31. Clive Sutton	65 Ashfield St.	May 18	3/4" "	4" "
32. Nijil Const.	144 Parkside Dr.	May 22	3/4" "	4" "
33. Nijil Const.	106 Parkside Dr.	May 22	3/4" "	4" "
34. Topmar Housing	1083 Smythe St.	May 24	3/4" "	4" "

NAME	ADDRESS	DATE	Water Pipe Size	Sewer Pipe Size
35. Nijil Const.	120 Parkside Dr.	May 25	3/4" Cop.	4" A.C.
36. Berkin Const.	460 Regent St.	May 25	1" "	4" "
37. F'ton Housing	91 Bristol St.	May 28	3/4" "	4" "
38. F'ton Housing	24 Bradford St.	May 28	3/4" "	4" "
39. Topmar Housing	1091 Smythe St.	May 28	3/4" "	4" "
40. Simpson Const.	P-8 Doak Rd.	May 28	3/4" "	4" "
41. F'ton Housing	81 Bristol St.	May 29	3/4" "	4" "
42. Chippins Ltd.	370 Wetmore Rd.	May 29	3/4" "	4" "
43. Topmar Housing	1097 Smythe St.	May 29	3/4" "	4" "
44. Brawn Const.	162 Dunn Rd.	May 29	3/4" "	4" "
45. Chippins Ltd.	378 Wetmore Rd.	May 30	3/4" "	4" "
46. F'ton Housing	61 Bristol St.	May 31	3/4" "	4" "
47. F'ton Housing	71 Bristol St.	May 31	3/4" "	4" "
48. Chippins Ltd.	330 Wetmore Rd.	May 31	3/4" "	4" "
49. Nijil Const.	46 Mayland Ct.	May 31	3/4" "	4" "
50. Atlas Const.	170 Prospect St. W.	May 31	1" "	6" "
51. Chippins Ltd.	384 Wetmore Rd.	May 31	3/4" "	4" "
52. R.H. McLellan	340 Wetmore Rd.	June 1	3/4" "	4" "
53. F'ton Housing	208 Limerick Rd.	June 1	3/4" "	4" "
54. Nijil Const.	45 Mayland Ct.	June 1	3/4" "	4" "
55. F'ton Housing	228 Limerick Rd.	June 4	3/4" "	4" "
56. F'ton Housing	65 Tilley Dr.	June 5	3/4" "	4" "
57. F'ton Housing	147 Tilley Dr.	June 5	3/4" "	4" "
58. Nijil Const.	36 Mayland Ct.	June 5	3/4" "	4" "
59. Nijil Const.	35 Mayland Ct.	June 5	3/4" "	4" "
60. Nijil Const.	26 Mayland Ct.	June 6	3/4" "	4" "
61. Gerard Gignac	551 Prospect St. E.	June 8	6" C.I.	4" "
62. Hill Bros.	186 Willingdon St.	June 8	3/4" "	4" "
63. Nijil Const.	25 Mayland Ct.	June 12	3/4" "	4" "
64. Kenneth Howlett	71 Alexander St.	June 12	3/4" "	4" "
65. Nijil Const.	15 Mayland Ct.	June 12	3/4" "	4" "
66. Starlite Homes	74 Colonial Hgts.	June 13	3/4" "	4" "
67. Starlite Homes	62 Colonial Hgts.	June 14	3/4" "	4" "
68. Metro Home Builders.	54 Foley St.	June 15	3/4" "	4" "

NAME	ADDRESS	DATE	Water Pipe	Pipe
			Size	Size
69. Metro Home Builders	75 Foley Ct.	June 15	3/4" Cop.	4" A.C.
70. Robert Grant	95 Gulliver Dr.	June 18	3/4" "	4" "
71. Topmar Housing	537 MacLaren Ave.	June 20	3/4" "	4" "
72. Dominion Bridge	330 Prospect St. E.	June 21	8" C.I.	6" "
73. John Devlin	1A Heather Terr.	June 25	1" "	4" "
74. Gardiner Realty	237 Wright St.	June 26	3/4" "	4" "
75. J.E. Lewis	227 Wright St.	June 27	3/4" "	4" "
76. F'ton Housing	217 Wright St.	June 27	3/4" "	4" "
77. F'ton Housing	201 Wright St.	June 28	3/4" "	4" "
78. Anthony Cody	218 Limerick Rd.	June 29	3/4" "	4" "
79. F'ton Housing	209 Wright St.	June 29	3/4" "	4" "
80. Chippins Ltd.	345 Wetmore Rd.	July 3	3/4" "	4" "
81. Chippins Ltd.	335 Wetmore Rd.	July 4	3/4" "	4" "
82. F'ton Housing	61 Beaconsfield St.	July 4	5/8" "	4" "
83. Chippins Ltd.	365 Wetmore Rd.	July 5	3/4" "	4" "
84. Chippins Ltd.	375 Wetmore Rd.	July 6	3/4" "	4" "
85. F'ton Housing	79 Beaconsfield St.	July 6	5/8" "	4" "
86. F'ton Housing	89 Beaconsfield St.	July 6	5/8" "	4" "
87. City Const.	425 Wetmore Rd.	July 9	3/4" "	4" "
88. Chippins Ltd.	260 Flemming Rd.	July 10	3/4" "	4" "
89. F'ton Housing	99 Beaconsfield St.	July 10	5/8" "	4" "
90. City Const.	395 Wetmore Rd.	July 11	3/4" "	4" "
91. W.R. MacDonald	289 Flemming Rd.	July 11	3/4" "	4" "
92. City Const.	405 Wetmore Rd.	July 12	3/4" "	4" "
93. F'ton Housing	109 Beaconsfield St.	July 13	5/8" "	4" "
94. Starlite Homes	90 Golf Club Rd.	July 16	3/4" "	4" "
95. Starlite Homes	86 Colonial Hgts.	July 17	3/4" "	4" "
96. Topmar Housing	227 St. Marys St.	July 20	3/4" "	4" "
97. Topmar Housing	215 St. Marys St.	July 23	3/4" "	4" "
98. Kenneth Howlett	160 Oxford St.	July 24	3/4" "	4" "
99. George Murray	117 Ashfield St.	July 25	3/4" "	4" "
100. Hill Bros.	126 Ashfield St.	July 25	3/4" "	4" "
101. Hill Bros.	79 Ashfield St.	July 26	3/4" "	4" "
102. Hill Bros.	92 Ashfield St.	July 26	3/4" "	4" "

NAME	ADDRESS	DATE	Water Pipe Size	Pipe Sewer Size
103.Hill Bros.	114 Ashfield St.	July 26	3/4"	Cop. 4" A.C.
104.Bertrum Bates	P-36 Wilsey Rd.	July 27	1"	" 4" "
105.Allan Gullison	297 Gibson St. (Ext. of Ser.)	July 27	5/8"	" 4" "
106.Parkside Dev.	200 Prospect St. W.	July 31	1"	" 4" "
107.C.&G. Rentals	555-557 Graham Ave.	Aug. 2	3/4"	" 4" "
108.C.&G. Rentals	681-683 Graham Ave.	Aug. 2	3/4"	" 4" "
109.E.E. McCoy	P-32 Hubbard Rd.	Aug. 3	3/4"	" 4" "
110.Vernon Kierstead	40 Surrey Cres.	Aug. 6	3/4"	" 4" "
111.Wm. Depow Jr.	360 Wetmore Rd.	Aug. 8	3/4"	" 4" "
112.City Const.	415 Wetmore Rd.	Aug. 8	3/4"	" 4" "
113.Domic Enterp.	350 Wetmore Rd.	Aug. 9	3/4"	" 4" "
114.Jack Relph	392 Wetmore Rd.	Aug. 9	3/4"	" 4" "
115.R.K.Yeamans	131 Tilley Dr.	Aug. 13	3/4"	" 4" "
116.Domic Enterp./	139 Tilley Dr.	Aug. 13	3/4"	" 4" "
117.S.C.R. Const.	348 King St.	Aug. 13	3/4"	" 4" "
118.Prof. Realty	283 Flemming Rd.	Aug. 14	3/4"	" 4" "
119.Salamaca Realty	735 Waterloo Row	Aug. 16	2-1"	" ---
120.Chippins Ltd.	178-180 Tilley Dr.	Aug. 16	3/4"	" 4" "
121.Chippins Ltd.	168-170 Tilley Dr.	Aug. 17	3/4"	" 4" "
122.F'ton Housing	119 Beaconsfield St.	Aug. 21	5/8"	" 4" "
123.F'ton Housing	139 Beaconsfield St.	Aug. 22	5/8"	" 4" "
124.F'ton Housing	151 Beaconsfield St.	Aug. 23	5/8"	" 4" "
125.F'ton Housing	196 Beaconsfield St.	Aug. 23	5/8"	" 4" "
126.Maritime Eng.	1176 Smythe St.	Aug. 24	2"	" ---
127.Rbt. McAlpine	Kings Place	Aug. 27	8"	C.I. 6" "
128.Donald Wright	97-101 Parkside Dr.	Aug. 28	3/4"	" 4" "
129.F'ton Housing	129 Beaconsfield St.	Aug. 28	5/8"	" 4" "
130.F'ton Housing	46 Beaconsfield St.	Aug. 29	5/8"	" 4" "
131.F'ton Housing	163 Beaconsfield St.	Aug. 30	5/8"	" 4" "
132.F'ton Housing	179 Beaconsfield St.	Aug. 30	5/8"	" 4" "
133.Domic Enterp.	136 Tilley Dr.	Aug. 31	3/4"	" 4" "
134.F'ton Housing	191 Beaconsfield St.	Aug. 31	5/8"	" 4" "
135.F'ton Housing	215 Beaconsfield St.	Aug. 31	5/8"	" 4" "

NAME	ADDRESS	DATE	Water Pipe Size	Sewer Pipe Size
136.Prof. Realty	255 Flemming Rd.	Sept. 4	3/4" Cop.	4" A.C.
137.F'ton Housing	205 Beaconsfield St.	Sept. 4	5/8" "	4" "
138.F'ton Housing	186 Beaconsfield St.	Sept. 4	5/8" "	4" "
139.Domic Enterp.	144 Tilley Dr.	Sept. 5	3/4" "	4" "
140.City Const.	163 Tilley Dr.	Sept. 5	3/4" "	4" "
141.F'ton Housing	176 Beaconsfield St.	Sept. 5	5/8" "	4" "
142.F'ton Housing	166 Beaconsfield St.	Sept. 5	5/8" "	4" "
143.Prof. Realty	95 Tilley Dr.	Sept. 6	3/4" "	4" "
144.Prof. Realty	195 Tilley Dr.	Sept. 6	3/4" "	4" "
145.F'ton Housing	156 Beaconsfield St.	Sept. 6	5/8" "	4" "
146.F'ton Housing	146 Beaconsfield St.	Sept. 6	5/8" "	4" "
147.John Hutchins	171 Tilley Dr.	Sept. 7	3/4" "	4" "
148.City Const.	152 Tilley Dr.	Sept. 7	3/4" "	4" "
149.F'ton Housing	136 Beaconsfield St.	Sept. 7	5/8" "	4" "
150.F'ton Housing	126 Beaconsfield St.	Sept. 7	5/8" "	4" "
151.Prof. Realty	10 Hazen Ct.	Sept. 10	3/4" "	4" "
152.J.R. Beaulieu	245 Flemming Rd.	Sept. 10	3/4" "	4" "
153.F'ton Housing	116 Beaconsfield St.	Sept. 10	5/8" "	4" "
154.F'ton Housing	96 Beaconsfield St.	Sept. 10	5/8" "	4" "
155.F'ton Housing	86 Beaconsfield St.	Sept. 11	5/8" "	4" "
156.F'ton Housing	76 Beaconsfield St.	Sept. 12	5/8" "	4" "
157.Hill Bros.	206 Willingdon	Sept. 11	3/4" "	4" "
158.F'ton Housing	66 Beaconsfield St.	Sept. 12	5/8" "	4" "
159.F'ton Housing	56 Beaconsfield St.	Sept. 12	5/8" "	4" "
160.F'ton Housing	36 Beaconsfield St.	Sept. 13	5/8" "	4" "
161.Cansteel Ltd.	P-14A Doak Road	Sept. 14	3/4" "	4" "
162.Triple A Bldrs.	8 Hawthorne Terrace	Sept. 14	5/8" "	4" "
163.Ind. Machine	P-18 Doak Road	Sept. 17	3/4" "	4" "
164.Highland Co.	672 Hanwell Rd.	Sept. 18	3/4" "	4" "
165.Armstrong Inv.	512 George St.	Sept. 19	3/4" "	4" "
166.Chippins Ltd.	410 Priestman St.	Sept. 19	1 1/4" "	4" "
167.Jack Relph	155 Tilley Dr.	Sept. 21	3/4" "	4" "
168.Starlite Homes	219 Priestman St.	Sept. 21	3/4" "	4" "
169.Atlantic Bldg.	P-6 Vanier Highway	Sept. 25	6" C.I.	4" "
170.Hill Bros.	105 Ashfield St.	Sept. 26	3/4" "	4" "

NAME	ADDRESS	DATE	Water Pipe Size	Sewer Pipe Size
171. Hill Bros.	111 Ashfield St.	Sept. 26	3/4" Cop.	4" A.C.
172. Parkside Dev.	195-205 Greensfields Dr.	Sept. 28	2" "	6" "
173. Kenneth Howlett	20 Oxford Ct.	Sept. 28	3/4" "	4" "
174. Parkside Dev.	161-175 Greenfields Dr.	Oct. 2	2" "	6" "
175. City Const.	63 Alexandra St.	Oct. 3	3/4" "	4" "
176. Kenneth Howlett	25 Oxford St.	Oct. 3	3/4" "	4" "
177. Parkside Dev.	245-261 Greenfields Dr.	Oct. 4	2" "	6" "
178. Jos. Parmegiani	P-33 Hubbard Rd.	Oct. 5	3/4" "	4" "
179. Parkside Dev.	165-181 Parkside Dr.	Oct. 9	2" "	6" "
180. Myron Dove	181 Tilley Dr.	Oct. 9	3/4" "	4" "
181. Chippins Ltd.	56 Meadow Green Ct.	Oct. 10	3/4" "	4" "
182. Chippins Ltd.	66 Meadow Green Ct.	Oct. 10	3/4" "	4" "
183. Chippins Ltd.	70 Hazen Ct.	Oct. 10	3/4" "	4" "
184. Lionel Soucie	105 Hazen Ct.	Oct. 11	3/4" "	4" "
185. Chippins Ltd.	76 Meadow Green Ct.	Oct. 11	3/4" "	4" "
186. Topmar Housing	122 Flemming Rd.	Oct. 12	3/4" "	4" "
187. S.C.R. Const.	P-34 Hubbard Rd.	Oct. 15	3/4" "	4" "
188. Chippins Ltd.	86 Meadow Green Ct.	Oct. 15	3/4" "	4" "
189. F'ton Housing	26 Beaconsfield St.	Oct. 15	5/8" "	4" "
190. F'ton Housing	16 Beaconsfield St.	Oct. 15	5/8" "	4" "
191. F'ton Housing	106 Beaconsfield St.	Oct. 16	5/8" "	4" "
192. F'ton Housing	227 Beaconsfield St.	Oct. 17	5/8" "	4" "
193. F'ton Housing	245 Beaconsfield St.	Oct. 17	5/8" "	4" "
194. George Youssef	191 George St.	Oct. 17	3/4" "	4" "
195. F'ton Housing	210 Beaconsfield St.	Oct. 17	5/8" "	4" "
196. John Dixon	325 Charlotte St.	Oct. 18	1" "	4" "
197. Topmar Housing	177 Smythe St.	Oct. 19	3/4" "	4" "
198. F'ton Housing	250 Beaconsfield St.	Oct. 19	5/8" "	4" "
199. Hill Bros.	73 Ashfield St.	Oct. 29	3/4" "	4" "
200. F'ton Housing	240 Beaconsfield St.	Oct. 22	5/8" "	4" "
201. F'ton Housing	220 Beaconsfield St.	Oct. 22	5/8" "	4" "
202. A.C. Mallet	570 Aberdeen St.	Oct. 26	4" "	8" "
203. Hill Bros.	84 Ashfield St.	Oct. 29	3/4" "	4" "
204. Hill Bros.	73 Ashfield St.	Oct. 29	3/4" "	4" "

NAME	ADDRESS	DATE	Water Pipe Size	Sewer Pipe Size
205. Kenneth Howlett	44 Ashfield St.	Oct. 30	3/4" Cop.	4" A.C.
206. Hill Bros.	106 Ashfield St.	Oct. 30	3/4" "	4" "
207. Robert Grant	17 Weyman St.	Oct. 31	3/4" "	4" "
208. Willis Bldrs.	10 Weyman St.	Nov. 1	3/4" "	4" "
209. Murray Housing	112 Flemming Rd.	Nov. 2	3/4" "	4" "
210. Diamond Const.	G.E. Chalmers Hospital	Nov. 7	10" "	10" "
211. C.W. Ritchie	College Hill Rd.	Nov. 8	2" " 4"	4" "
212. Erikson Homes	51 Colonial Hgts.	Nov. 9	3/4" "	4" "
213. Fred Cogwell	200 Turnbull Ct.	Nov. 16	3/4" "	4" "
214. Murray Housing	72 Flemming Rd.	Nov. 22	3/4" "	4" "
215. Four Seasons	102 Flemming Rd.	Nov. 23	3/4" "	4" "
216. Starlite Homes	142 Flemming Rd.	Nov. 26	3/4" "	4" "
217. Starlite Homes	132 Flemming Rd.	Nov. 26	3/4" "	4" "
218. Fred White	160 Tilley Dr.	Nov. 27	3/4" "	4" "
219. Four Seasons	107 Flemming Rd.	Nov. 28	3/4" "	4" "
220. Four Seasons	97 Flemming Rd.	Nov. 29	3/4" "	4" "
221. Murray Housing	92 Flemming Rd.	Dec. 3	3/4" "	4" "
222. Four Seasons	82 Flemming Rd.	Dec. 4	3/4" "	4" "
223. Gardiner Realty	5 Meadow Green Ct.	Dec. 4	3/4" "	4" "
224. Four Seasons	85 Flemming Rd.	Dec. 4	3/4" "	4" "
225. Gardiner Realty	6 Meadow Green Ct.	Dec. 5	3/4" "	4" "
226. Chippins Ltd.	85 Meadow Green Ct.	Dec. 7	3/4" "	4" "
227. Chippins Ltd.	75 Meadow Green Ct.	Dec. 10	3/4" "	4" "
228. Nijil Const.	16 Mayland Ct.	Dec. 11	3/4" "	4" "
229. United Contractors	P-9 Wilsey Rd.	Dec. 11	8" Ductile	4" "
230. Richard Wilcox	145 Gill St.	Dec. 13	3/4" "	4" "
231. David English	78 Foley Ct.	Dec. 14	3/4" "	4" "
232. M&H Mechanical	145 Clark St.	Dec. 18	1" "	6" "
233. Larry Hill	152 Prospect St. East	Dec. 21	6" Ductile	6" "
234. Leachmans Plumbing	149 Ashfield St.	Dec. 28	1" "	4" "

NOTE: Kings Place

Carleton St.	Aug. 27/73	8" C.I.	---
King St.	Sept. 17/73	---	6" A.C.
York St.	Sept. 25/73	8" Ductile	---
York St.	Oct. 24/73	---	6" A.C.

NEW METER 1973

NAME	ADDRESS	DATE	SIZE
1. Hill Bros. Ltd.	14 Ashfield St.	Jan. 2/73	5/8" ARB
2. Hill Bros. Ltd.	76 Ashfield St.	Jan. 3/73	5/8" "
3. Hill Bros. Ltd.	138 Ashfield St.	Jan. 3/73	5/8" "
4. Hill Bros. Ltd.	144 Ashfield St.	Jan. 3/73	5/8" "
5. Hill Bros. Ltd.	150 Ashfield St.	Jan. 3/73	5/8" "
6. Hill Bros. Ltd.	156 Ashfield St.	Jan. 3/73	5/8" "
7. MacArthur Prop.	1182 Smythe St.	Jan. 5/73	2" "
8. Dept. of Indian Aff.	157 Paul St.	Jan. 5/73	5/8" "
9. F'ton Housing Ltd.	159 Bristol St.	Jan. 10/73	5/8" "
10. F'ton Housing Ltd.	149 Bristol St.	Jan. 10/73	5/8" "
11. Carl Hay	154 Aberdeen St.	Jan. 12/73	1" "
12. F'ton Housing Ltd.	66 Bristol St.	Jan. 16/73	5/8" "
13. F'ton Housing Ltd.	86 Bristol St.	Jan. 16/73	5/8" "
14. F'ton Housing Ltd.	96 Bristol St.	Jan. 16/73	5/8" "
15. F'ton Housing Ltd.	106 Bristol St.	Jan. 17/73	5/8" "
16. F'ton Housing Ltd.	116 Bristol St.	Jan. 17/73	5/8" "
17. F'ton Housing Ltd.	126 Bristol St.	Jan. 17/73	5/8" "
18. F'ton Housing Ltd.	166 Bristol St.	Jan. 18/73	5/8" "
19. Metro Home Bldrs.	45 Foley Ct.	Jan. 19/73	5/8" "
20. Custom Builders	340 Wright St.	Jan. 22/73	5/8" "
21. Custom Builders	337 Wright St.	Jan. 23/73	5/8" "
22. Chippins Ltd.	758 Regent St.	Jan. 31/73	5/8" "
23. F'ton Housing Ltd.	15 Hazen Ct.	Feb. 5/73	5/8" "
24. F'ton Housing Ltd.	25 Hazen Ct.	Feb. 5/73	5/8" "
25. F'ton Housing Ltd.	45 Hazen Ct.	Feb. 6/73	5/8" "
26. F'ton Housing Ltd.	55 Hazen Ct.	Feb. 6/73	5/8" "
27. F'ton Housing Ltd.	156 Bristol St.	Feb. 13/73	5/8" "
28. F'ton Housing Ltd.	200 Bristol St.	Feb. 13/73	5/8" "
29. F'ton Housing Ltd.	95 Hazen Ct.	March 1/73	5/8" "
30. F'ton Housing Ltd.	75 Hazen Ct.	March 1/73	5/8" "
31. Don Trites	229 Priestman St.	March 1/73	5/8" "
32. F'ton Housing Ltd.	85 Hazen Ct.	March 2/73	5/8" "
33. Parkside Dev.	73-79 Parkside Dr.	March 5/73	5/8" "
34. E.A. Wilby	14 Colonial Hgts.	March 5/73	5/8" "
35. Ken Howlett	196 Colonial Hgts.	March 5/73	5/8" "
36. F'ton Housing Ltd.	186 Bristol St.	March 6/73	5/8" "
37. F'ton Housing Ltd.	190 Bristol St.	March 6/73	5/8" "
38. F'ton Housing Ltd.	75 Tilley Dr.	March 7/73	5/8" "
39. City Const.	325 Wetmore Rd.	March 7/73	5/8" "
40. St. Marys Indian Band	25 Dedham St.	March 7/73	5/8" "
41. Parkside Dev.	76 Parkside Dr.	March 9/73	5/8" "
42. F'ton Housing Ltd.	100 Hazen Ct.	March 9/73	5/8" "
43. F'ton Housing Ltd.	90 Hazen Ct.	March 9/73	5/8" "
44. F'ton Housing Ltd.	176 Bristol St.	March 9/73	5/8" "
45. Hill Bros. Ltd.	62 Ashfield St.	March 20/73	5/8" "

NAME	ADDRESS	DATE	SIZE
46. Parkside Dev.	83-89 Parkside Dr.	March 21/73	5/8" ARB
47. Parkside Dev.	86 Parkside Dr.	March 21/73	5/8" "
48. F'ton Housing Ltd.	60 Hazen Ct.	March 23/73	5/8" "
49. F'ton Housing Ltd.	70 Hazen Ct.	March 23/73	5/8" "
50. Highland Co. Ltd.	214 Oxford St.	March 27/73	5/8" "
51. Lawanda Thompson	258 St. Marys St.	March 28/73	1/2" "
52. Highland Co. Ltd.	61 Cameron St.	Apr. 9/73	5/8" "
53. Earl Tait	26 Ashfield St.	Apr. 16/73	5/8" "
54. Roger Holdsworth	685 Montgomery St.	May 7/73	5/8" TRT
55. J. Clark & Sons Ltd.	240 Prospect St.	May 9/73	1 1/2"
56. Simpson Const.	P-8 Doak Road	May 23/73	5/8"
57. Chippins Ltd.	376 Westmorland St.	May 29/73	5/8" Temp.
58. Topmar Housing	1083 Smythe St.	May 31/73	5/8" TRT
59. Topmar Housing	1091 Smythe St.	May 31/73	5/8" "
60. Topmar Housing	1097 Smythe St.	May 31/73	5/8" "
61. Mary Ramey	565 Union Street	June 6/73	5/8" "
62. F'ton Housing	155 Surrey Cres.	June 7/73	5/8" ARB
63. F'ton Housing	125 Surrey Cres.	June 7/73	5/8" "
64. F'ton Housing	160 Surrey Cres.	June 8/73	5/8" "
65. F'ton Housing	170 Surrey Cres.	June 8/73	5/8" "
66. John Bamford	100 Ashfield St.	June 11/73	5/8" TRT
67. Hill Bros. Ltd.	99 Ashfield St.	June 11/73	5/8" "
68. Chippins Ltd.	50 Hazen Ct.	June 12/73	5/8" ARB
69. Chippins Ltd.	65 Hazen Ct.	June 13/73	5/8" "
70. Chippins Ltd.	35 Hazen Ct.	June 13/73	5/8" "
71. Roger & Nauss	290 Flemming Rd.	June 13/73	5/8" TRT
72. Imperial Oil	491 Prospect St. East	June 14/73	1"
73. City Const.	305 Wetmore Rd.	June 14/73	5/8" TRT
74. City Const.	315 Wetmore Rd.	June 14/73	5/8" "
75. Chippins Ltd.	378 Wetmore Rd.	June 14/73	5/8" "
76. Helen Belmore	57 Charlotte St.	June 18/73	5/8" "
77. Irvine Banks	579 MacLaren Ave.	June 19/73	5/8" "
78. Georges Youssef	199 Northumberland St.	June 19/73	5/8" "
79. Scholtens Enterp.	523 Canterbury Dr.	June 19/73	5/8" "
80. Russell Thompson	26 Mayland Ct.	June 20/73	5/8" "
81. Nijil Const.	46 Mayland Ct.	June 20/73	5/8" "
82. F'ton Housing	228 Limerick Rd.	June 21/73	5/8" "
83. Reginald Wheaton	50 Ashfield St.	June 22/73	5/8" "
84. James Poore	53 Ashfield St.	June 22/73	5/8" "
85. Four Seasons Realty	777 Union St.	June 25/73	5/8" "
86. Starlite Homes	131 Colonial Hgts.	June 25/73	5/8" ARB
87. F'ton Housing	30 Surrey Cres.	June 25/73	5/8" "
88. F'ton Housing	120 Surrey Cres.	June 25/73	5/8" "
89. D.Malcolm Neill	275 Woodstock Rd.	June 26/73	5/8" TRT
90. Parkside Dev.	125 Parkside Dr.	June 26/73	2" "

NAME	ADDRESS	DATE	SIZE
91. F'ton Housing Ltd.	190 Surrey Cres.	June 28/73	5/8" ARB
92. Fred Guerett	140 Friel St.	July 3/73	5/8" TRT
93. F'ton Housing Ltd.	91 Bristol St.	July 3/73	5/8" "
94. Chippins Ltd.	384 Wetmore Rd.	July 3/73	5/8" "
95. Chippins Ltd.	330 Wetmore Rd.	July 3/73	5/8" "
96. Chippins Ltd.	370 Wetmore Rd.	July 3/73	5/8" "
97. Maritime Forest Ranger Sch.	1350 Regent St.	July 9/73	6" Compound
98. B. Bates	100 Clark St.	July 9/73	1 1/2" ARB
99. Hill Bros.	141 Ashfield St.	July 9/73	5/8" TRT
100. F'ton Housing	61 Bristol St.	July 9/73	5/8" "
101. F'ton Housing	81 Bristol St.	July 9/73	5/8" "
102. Rogers & Nauss	275 Flemming Rd.	July 9/73	5/8" "
103. F'ton Housing	24 Bradford St.	July 9/73	5/8" "
104. F'ton Housing	71 Bristol St.	July 11/73	5/8" "
105. Esso Self Service	207 King St.	July 13/73	5/8" "
106. Starlite Homes	74 Colonial Hgts.	July 13/73	5/8" "
107. Nijil Const.	106 Parkside Dr.	July 13/73	5/8" "
108. R.H. McLellan	340 Wetmore Rd.	July 16/73	5/8" "
109. Rehndorff Management	330 Prospect St. E.	July 12/73	1 1/4" ARB
110. Rehndorff Management	330 Prospect St. E.	July 12/73	5/8" "
111. Consumer Dist.	551 Prospect St. E.	July 20/73	1 1/2" "
112. Starlite Homes	62 Colonial Hgts.	July 23/73	5/8" TRT
113. J.E. Lewis	227 Wright St.	July 23/73	5/8" ARB
114. Donat Basque	85 Surrey Cres.	July 24/73	5/8" TRT
115. Robert P. Chase	56 Ashfield St.	July 25/73	5/8" "
116. Brawn Const.	162 Dunn Road	July 25/73	5/8" "
117. Robert Grant	95 Bailey Dr.	July 25/73	5/8" "
118. Topmar Housing	537 MacLaren Ave.	July 26/73	5/8" "
119. Chippins Ltd.	265 Wetmore Rd.	July 26/73	5/8" "
120. Chippins Ltd.	375 Wetmore Rd.	July 26/73	5/8" "
121. Rehndorff Management	330 Prospect St. E.	Aug. 2/73	5/8" ARB
122. Metro Home Builders	54 Foley Ct.	Aug. 8/73	5/8" TRT
123. City Const.	395 Wetmore Rd.	Aug. 13/73	5/8" "
124. John Devlin	1A Heather Terrace	Aug. 14/73	5/8" "
125. George Murray	117 Ashfield St.	Aug. 17/73	5/8" "
126. C. & G. Rentals	681-83 Graham Ave.	Aug. 20/73	5/8" "
127. C. & G. Rentals	555-57 Graham Ave.	Aug. 20/73	5/8" "
128. Wood Motors	170 Prospect St. W.	Aug. 20/73	1" "
129. John McEachern	578 MacLaren Ave.	Aug. 22/73	5/8" "
130. Topmar Housing	227 St. Marys St.	Aug. 22/73	5/8" "
131. Ken Howlett	71 Alexandra St.	Aug. 27/73	5/8" "
132. W.W. Barnett	623 MacLaren Ave.	Aug. 28/73	5/8" "
133. E.E. McCoy	P-32 Hubbard Rd.	Aug. 28/73	5/8" "
134. Bert Bates	P-36 Wilsey Rd.	Aug. 28/73	1" "
135. Anthony Coady	218 Limerick Rd.	Aug. 30/73	5/8" "

NAME	ADDRESS	DATE	SIZE
136. Gardiner Realty	237 Wright St.	Aug. 30/73	5/8" ARB
137. F'ton Housing	201 Wright St.	Aug. 30/73	5/8" TRT
138. Nijil Const.	96 Parkside Dr.	Aug. 30/73	5/8" "
139. Nijil Const.	120 Parkside Dr.	Aug. 30/73	5/8" "
140. City Const.	385 Wetmore Rd.	Aug. 30/73	5/8" "
141. Chippins Ltd.	335 Wetmore Rd.	Aug. 30/73	5/8" "
142. F'ton Housing	208 Limerick Rd.	Aug. 31/73	5/8" "
143. William Depow Jr.	360 Wetmore Rd.	Aug. 31/73	5/8" "
144. Domic Enterprises	350 Wetmore Rd.	Aug. 31/73	5/8" "
145. Chippins Ltd.	345 Wetmore Rd.	Aug. 31/73	5/8" "
146. P.J. Menzer	6 Hawthorne Terr.	Sept. 4/73	5/8" "
147. Hill Bros.	186 Willingdon St.	Sept. 4/73	5/8" "
148. Professional Realty	289 Flemming Rd.	Sept. 5/73	5/8" "
149. Professional Realty	283 Flemming Rd.	Sept. 5/73	5/8" "
150. City Const.	425 Wetmore Rd.	Sept. 5/73	5/8" "
151. City Const.	405 Wetmore Rd.	Sept. 5/73	5/8" "
152. Jack Relph	392 Wetmore Rd.	Sept. 5/73	5/8" "
153. Chippins Ltd.	178-80 Tilley Dr.	Sept. 6/73	5/8" "
154. Domic Enterprises	139 Tilley Dr.	Sept. 6/73	5/8" "
155. F'ton Housing	65 Tilley Dr.	Sept. 6/73	5/8" "
156. Chippins. Ltd.	260 Flemming Rd.	Sept. 6/73	5/8" "
157. Starlite Homes	90 Golf Club Rd.	Sept. 7/73	5/8" "
158. Metro Home Bldrs.	75 Foley Ct.	Sept. 7/73	5/8" "
159. Starlite Homes	86 Colonial Hgts.	Sept. 7/73	5/8" "
160. Donald Wright	97-101 Parkside Dr.	Sept. 7/73	5/8" "
161. F'ton Housing	61 Beaconsfield St.	Sept. 11/73	5/8" "
162. F'ton Housing	79 Beaconsfield St.	Sept. 11/73	5/8" "
163. F'ton Housing	89 Beaconsfield St.	Sept. 11/73	5/8" "
164. Professional Realty	195 Tilley Dr.	Sept. 14/73	5/8" "
165. Chippins Ltd.	168-170 Tilley Dr.	Sept. 14/73	5/8" "
166. F'ton Housing	217 Wright St.	Sept. 14/73	5/8" "
167. City Const.	415 Wetmore Rd.	Sept. 14/73	5/8" "
168. Salamaca Realty	735 Waterloo Row	Sept. 14/73	1" "
169. F'ton Housing	209 Wright St.	Sept. 17/73	5/8" "
170. Clive Sutton	65 Ashfield St.	Sept. 18/73	5/8" "
171. Louis Ho	297 Gibson St.	Sept. 18/73	5/8" "
172. Topmar Housing	215 St. Marys St.	Sept. 18/73	5/8" "
173. Hill Bros.	79 Ashfield St.	Sept. 19/73	5/8" "
174. Professional Realty	10 Hazen Ct.	Sept. 20/73	5/8" "
175. F'ton Housing	46 Beaconsfield St.	Sept. 20/73	5/8" "
176. F'ton Housing	99 Beaconsfield St.	Sept. 20/73	5/8" "
177. F'ton Housing	109 Beaconsfield St.	Sept. 20/73	5/8" "
178. Professional Realty	255 Flemming Rd.	Sept. 21/73	5/8" "
179. Armstrong Invest.	512 George St.	Sept. 21/73	5/8" "
180. Phyllis Chapman	128 Miles St.	Sept. 24/73	5/8" "
181. Frank Ames	668 Phillips Street	Sept. 25/73	5/8" "

NAME	ADDRESS	DATE	SIZE
182. Devern Scott	255 St. Marys St.	Sept. 25/73	5/8" TRT
183. Douglas Pincock	385 Union St.	Sept. 25/73	5/8" "
184. Ken Howlett	160 Oxford St.	Sept. 26/73	5/8" "
185. Dixie Lee Rest.	82 Regent St.	Sept. 28/73	5/8"
186. F'tonHousing	151 Beaconsfield St.	Sept. 28/73	5/8" "
187. F'ton Housing	196 Beaconsfield St.	Sept. 28/73	5/8" "
188. Hill Bros.	114 Ashfield St.	Oct. 1/73	5/8" "
189. Hill Bros.	126 Ashfield St.	Oct. 1/73	5/8" "
190. Professional Realty	95 Tilley Dr.	Oct. 1/73	5/8" "
191. Nijil Const.	25 Mayland Ct.	Oct. 2/73	5/8" "
192. Chippins Ltd.	410 Priestman St.	Oct. 2/73	1" "
193. R.K. Yeomans	131 Tilley Dr.	Oct. 2/73	5/8" "
194. F'ton Housing	163 Beaconsfield St.	Oct. 3/73	5/8" "
195. Hoyt Moving	P-6 Vanier Highway	Oct. 3/73	5/8" "
196. Parkside Dev.	200 Prospect St. W.	Oct. 4/73	1" "
197. Edgar Loughead	8 Hawthorne Terr.	Oct. 9/73	5/8" "
198. Fred Holland	23 Burse Ct.	Oct. 10/73	5/8" "
199. F'ton Housing	36 Beaconsfield St.	Oct. 11/73	5/8" "
200. F'ton Housing	119 Beaconsfield St.	Oct. 11/73	5/8" "
201. F'ton Housing	166 Beaconsfield St.	Oct. 11/73	5/8" "
202. F'ton Housing	176 Beaconsfield St.	Oct. 11/73	5/8" "
203. Mrs. John Forbes	638 Union Street	Oct. 11/73	5/8" "
204. John Forbes Est.	642-646 Union Street	Oct. 11/73	2-5/8" "
205. F'ton Housing	129 Beaconsfield St.	Oct. 12/73	5/8" "
206. City Const.	63 Alexandra St.	Oct. 16/73	5/8" "
207. City Const.	163 Tilley Dr.	Oct. 16/73	5/8" "
208. W.L. Hodgson	70 Hazen Ct.	Oct. 16/73	5/8" "
209. Vernon Kierstead	40 Surrey Cres.	Oct. 19/73	5/8" "
210. Famous Players	1176 Smythe St.	Oct. 22/73	2"
211. Domic Enterprises	136 Tilley Drive	Oct. 26/73	5/8" "
212. J.R. Beaulieu	245 Flemming Rd.	Nov. 5/73	5/8" "
213. Robert Grant	17 Weyman St.	Nov. 9/73	5/8" "
214. Chippins Ltd.	56 Meadow Green Ct.	Nov. 22/73	5/8" "
215. Chippins Ltd.	76 Meadow Green Ct.	Nov. 22/73	5/8" "
216. Chippins Ltd.	86 Meadow Green Ct.	Nov. 22/73	5/8" "
217. Hill Bros.	111 Ashfield St.	Nov. 23/73	5/8" "
218. F'ton Housing	147 Tilley Dr.	Nov. 23/73	5/8" "
219. City Const.	152 Tilley Dr.	Nov. 23/73	5/8" "
220. Myron Dove	181 Tilley Dr.	Nov. 23/73	5/8" "
221. Valley Oxygen	P-34 Hubbard Rd.	Nov. 23/73	5/8" "
222. Chippins Ltd.	66 Meadow Green Ct.	Nov. 26/73	5/8" "
223. Topmar Housing	122 Flemming Rd.	Nov. 27/73	5/8" "
224. Hill Bros.	206 Willingdon St.	Nov. 27/73	5/8" "
225. George Youssef	191 George St.	Nov. 30/73	5/8" "
226. Industrial Machine	P-18 Doak Road	Nov. 30/73	5/8" "
227. F'ton Housing	56 Beaconsfield St.	Dec. 3/73	5/8" "

NAME	ADDRESS	DATE	SIZE
228. F'ton Housing	76 Beaconsfield St.	Dec. 3/73	5/8" TRT
229. F'ton Housing	86 Beaconsfield St.	Dec. 3/73	5/8" "
230. F'ton Housing	139 Beaconsfield St.	Dec. 3/73	5/8" "
231. F'ton Housing	146 Beaconsfield St.	Dec. 3/73	5/8" "
232. F'ton Housing	156 Beaconsfield St.	Dec. 3/73	5/8" "
233. F'ton Housing	179 Beaconsfield St.	Dec. 4/73	5/8" "
234. F'ton Housing	186 Beaconsfield St.	Dec. 4/73	5/8" "
235. A.D. Dykeman Est.	394 Northumberland St.	Dec. 5/73	5/8" "
236. F'ton Housing	66 Beaconsfield St.	Dec. 7/73	5/8" "
237. F'ton Housing	191 Beaconsfield St.	Dec. 7/73	5/8" "
238. Starlite Homes	132 Flemming Rd.	Dec. 7/73	5/8" "
239. John Hutchins	171 Tilley Dr.	Dec. 7/73	5/8" "
240. Hill Bros.	92 Ashfield St.	Dec. 10/73	5/8" "
241. Hill Bros.	105 Ashfield St.	Dec. 10/73	5/8" "
242. Hill Bros.	106 Ashfield St.	Dec. 10/73	5/8" "
243. Nijil Const.	35 Mayland Ct.	Dec. 10/73	5/8" "
244. Nijil Const.	36 Mayland Ct.	Dec. 10/73	5/8" "
245. Joseph Parmegiani	P-33 Hubbard Rd.	Dec. 28/73	5/8" "

NEW METERS MARYSVILLE

NAME	ADDRESS	DATE	SIZE
1. William Saunders	177 Canada St.	Dec. 14/73	5/8" TRT
2. Marysville Pharmacy	207 Canada St.	Dec. 14/73	5/8" "
3. Paul Hodgson	3 McGloin St.	Dec. 14/73	5/8" "
4. Marysville Gulf	71 Canada St.	Dec. 17/73	5/8" "
5. Moirs Automotive	101 Canada St.	Dec. 17/73	5/8" "
6. Saunders Beauty Salon	132 Canada St.	Dec. 17/73	5/8" "
7. Anns Restaurant	Canada St.	Dec. 17/73	5/8" "
8. Maritime Products	Canada St.	Dec. 18/73	5/8" "
9. Brunswick Catering	452 Canada St.	Dec. 18/73	5/8" "
10. Ponds Shell	Canada St.	Dec. 18/73	5/8" "
11. Larry Eusler	5 Bridge St.	Dec. 19/73	5/8" "

NEW METERS SILVERWOOD

NAME	ADDRESS	DATE	SIZE
1. Scholtens Store	3076 Woodstock Rd.	Nov. 28/73	5/8" TRT
2. Silverwood Motel	3136 Woodstock Rd.	Nov. 28/73	1 1/4" "
3. Silverwood School	3188 Woodstock Rd.	Nov. 28/73	1" "
4. Irving Oil Co.	3098 Woodstock Rd.	Nov. 29/73	5/8" "

NEW METERS BARKERS POINT 1973

NAME	ADDRESS	DATE	SIZE
1. Riverside Diner	Riverside Dr.	Dec. 21/73	5/8" TRT
2. D'Amours Body Shop	Riverside Dr.	Dec. 27/73	5/8"
3. Bonar Co. Canada	Carman Ave.	Dec. 27/73	5/8"
4.	140 Riverside Dr.	Dec. 28/73	5/8" TRT
5. Model Meat Market	31 Charles Ave.	Dec. 31/73	5/8" "
6. S.S. Baird & Sons	Charles Ave.	Dec. 31/73	5/8" "

STOPPED METERS 1973

No.	Address	Date Changed	Replacement Size & Kind
1.	682 Hanwell Road	Jan. 16/73	5/8" ARB
2.	550 Union St. (Meter #1)	Feb. 2/73	5/8"
3.	550 Union St. (Meter #2)	Feb. 2/73	5/8"
4.	789 Reid Street	Feb. 7/73	5/8"
5.	271 Kings College Rd.	Feb. 8/73	5/8" ARB
6.	612 Aberdeen St.	Feb. 8/73	5/8" ARB
7.	254 Argyle St.	Feb. 9/73	5/8"
8.	649 McLeod Avenue	Feb. 9/73	5/8" ARB
9.	442 Charlotte St.	Feb. 16/73	5/8"
10.	933 Smythe St.	Feb. 21/73	1/2"
11.	286 St. John St.	Feb. 21/73	5/8"
12.	264 Canterbury Dr.	Mar. 14/73	1/2"
13.	8 Woodbridge St.	Mar. 20/73	5/8" ARB
14.	212 Saunders St.	May 9/73	5/8" TRT
15.	560 Charlotte St.	May 11/73	5/8"
16.	234 Edinburgh St.	May 16/73	5/8"
17.	594 Union St.	May 16/73	5/8"
18.	382 Smythe St.	May 22/73	5/8" ARB
19.	376 Northumberland St.	May 23/73	5/8" TRT
20.	2 Shamrock Terr.	May 23/73	5/8"
21.	3 Shamrock Terr.	May 23/73	5/8"
22.	122 Friel St.	May 30/73	5/8" ARB
23.	839 Union St.	June 14/73	5/8" TRT
24.	430 Kings College Rd.	June 28/73	5/8" TRT
25.	59 York St.	Aug. 2/73	5/8"
26.	617 King St.	Aug. 2/73	5/8"
27.	471 Smythe St. (Meter #2)	Aug. 2/73	1 1/2"
28.	59 Prospect St. (Meter #1)	Aug. 2/73	1 1/4"
29.	134 Albert St.	Aug. 3/73	5/8" TRT
30.	440 Needham St.	Aug. 6/73	1 1/2" ARB
31.	183 Dundonald St.	Aug. 6/73	5/8" ARB
32.	259 Victoria St.	Aug. 7/73	5/8" TRT
33.	267 Victoria St.	Aug. 13/73	5/8" TRT
34.	651 Loyalist Ct.	Aug. 14/73	5/8"
35.	28 Foley Ct.	Aug. 14/73	5/8" ARB
36.	25 Wilson Row	Aug. 29/73	5/8" ARB

STOPPED METERS 1973

37.	283 Flemming Rd.	Oct. 2/73	5/8" TRT
38.	517-527 Priestman St.	Nov. 2/73	1 1/2"
39.	744 Albert St.	Nov. 2/73	5/8" TRT
40.	653 Albert St.	Nov. 6/73	5/8" TRT
41.	602 Chestnut St.	Nov. 6/73	5/8" TRT
42.	109 Montgomery St.	Nov. 14/73	5/8" TRT
43.	275 Smythe St.	Nov. 14/73	5/8" TRT
44.	146 Gibson St.	Nov. 26/73	5/8" ARB
45.	664 Union St.	Nov. 28/73	5/8" TRT
46.	248 Gibson St.	Nov. 29/73	5/8" TRT
47.	912 Union St.	Dec. 5/73	5/8"
48.	880 Regent St.	Dec. 6/73	5/8" TRT

FLAT RATES METERED

No.	Name	Address	Date	Size
1.	Lawanda Thompson	258 St. Marys St.	Mar. 28/73	1/2" ARB
2.	Roger Holdsworth	685 Montgomery St.	May 7/73	5/8" TRT
3.	Helen Belmore	57 Charlotte St.	June 18/73	5/8" TRT
4.	Irvine Banks	579 MacLaren Ave.	June 19/73	5/8" TRT
5.	Georges Youssef	199 Northumberland	June 19/73	5/8" TRT
6.	Four Seasons Realty	777 Union St.	June 25/73	5/8" TRT
7.	D. Malcolm Neill	275 Woodstock Rd.	June 26/73	5/8" TRT
8.	John McEachern	578 MacLaren Ave.	Aug. 22/73	5/8" TRT
9.	W.W. Barnett	623 MacLaren Ave.	Aug. 28/73	5/8" TRT
10.	P.J. Manzer	6 Hawthorne Terr.	Sept. 4/73	5/8" TRT
11.	Mrs. Phyllis Chapman	128 Miles St.	Sept. 24/73	5/8" TRT
12.	Frank Ames	668 Phillips St.	Sept. 25/73	5/8" TRT
13.	Devern Scott	255 St. Marys St.	Sept. 25/73	5/8" TRT
14.	Douglas G. Pincock	385 Union St.	Sept. 25/73	5/8" TRT
15.	Mrs. John Forbes	638 Union St.	Oct. 11/73	5/8" TRT
16.	John Forbes Est.	642-646 Union St.	Oct. 11/73	2-5/8" TRT
17.	A.D. Dykeman Est.	394 Northumberland	Dec. 5/73	5/8" TRT

FROZEN METERS 1973

1. 234 Edinburgh St.	Jan. 4/73	5/8"
2. 18 Doak Road	Jan. 8/73	5/8"
3. 504 Aberdeen St.	Jan. 9/73	5/8"
4. 236 Dundonald St.	Jan. 11/73	5/8" ARB
5. 339 St. Marys St.	Jan. 11/73	5/8" ARB
6. 432 King Street	Jan. 11/73	5/8"
7. 432 King Street	Jan. 13/73	5/8"
8. 170 Friel St.	Jan. 14/73	5/8" ARB
9. 760 McLeod Ave.	Jan. 30/73	5/8"
10. 432 King Street	Feb. 12/73	5/8"
11. 86 Bristol St.	Feb. 8/73	5/8" ARB
12. 313 Charlotte St.	Feb. 23/73	5/8"
13. 382 Smythe St.	Apr. 6/73	5/8" ARB
14. 376 Westmorland St.	Nov. 9/73	5/8"

Regular Meters Changed to TRT

NAME	ADDRESS	DATE	SIZE
1. John Brewer	178 Aberdeen St.	Apr. 24/73	5/8" TRT
2. E.F. McFadzen	376 Northumberland St.	May 23/73	5/8" "
3. Kileel Enterprises	282-4 Queen St.	June 6/73	5/8" "
4. Grace Oldham	839 Union St.	June 14/73	5/8" "
5. Herbert Schatz	130 Connaught St.	June 15/73	5/8" "
6. Beverage Sales	361 Victoria St.	May 11/73	5/8" "
7. P. MacLoughlin Assoc.	183 Argyle St.	June 22/73	5/8" "
8. Wulastook Inds.	124 Queen St.	June 26/73	5/8" "
9. Wulastook Inds.	126 Queen St.	June 26/73	5/8" "
10. Wulastook Inds.	146-48 Queen St.	June 26/73	5/8" "
11. Rosebud O'Ree	212 Charlotte St.	June 28/73	5/8" "
12. W.L. Targett	430 Kings College Rd.	June 28/73	5/8" "
13. Betty Abrams	219-221 Northumberland	July 4/73	5/8" "
14. Mrs. J.F. Wade	269 Northumberland St.	July 4/73	5/8" "
15. Norval Clark	259-261 George St.	July 5/73	5/8" "
16. W.S. Black	279 George St.	July 5/73	5/8" "
17. Vera Swazey	25 Elmwood Ct.	July 5/73	5/8" "
18. L.T. Swazey	35 Elmwood Ct.	July 5/73	5/8" "
19. Grace Stevens	65 Elmwood Ct.	July 5/73	5/8" "
20. Thomas Wallace	75 Elmwood Ct.	July 5/73	5/8" "
21. F.C. Wedge	90 Elmwood Ct.	July 5/73	5/8" "
22. George Gagnon	10 Elmwood Ct.	July 6/73	5/8" "
23. Walter Thomas	20 Elmwood Ct.	July 6/73	5/8" "
24. E.J. MacLean	40 Elmwood Ct.	July 6/73	5/8" "
25. H.L. McFee	50 Elmwood Ct.	July 6/73	5/8" "
26. Robert Connell	60 Elmwood Ct.	July 6/73	5/8" "
27. T.R. McGregor	70 Elmwood Ct.	July 6/73	5/8" "
28. W.N. Coleman Est.	15 Elmwood Ct.	July 10/73	5/8" "
29. Charles Chambre	30 Elmwood Ct.	July 10/73	5/8" "
30. Peppi DiGiacinto	55 Elmwood Ct.	July 10/73	5/8" "
31. Mrs. J.H. Ramey	325 George St.	July 10/73	5/8" "
32. Mrs. J.H. Ramey	329 George St.	July 10/73	5/8" "
33. Cash & Carry	809-13 George St.	July 10/73	5/8" "
34. Arthur Henderson	185 Kings College Rd.	July 10/73	5/8" "
35. John Patterson	117 Lansdowne St.	June 29/73	5/8" "

NAME	ADDRESS	DATE	SIZE
36. U.N.B. Annex B.	Campus	July 11/73	5/8" TRT
37. U.N.B.	204 Church St.	July 11/73	5/8" "
38. George Colter	598 Beaverbrook St.	July 12/73	5/8" "
39. Alonzo Brewer	25 Brookmount Ct.	July 12/73	5/8" "
40. James Ross	70 Brunswick St.	July 13/73	5/8" "
41. Rita Colwell	53 Avondale Ct.	July 16/73	5/8" "
42. Myrtle Sutton	263 Northumberland St.	July 16/73	5/8" "
43. Dorothy Estabrooks	447-49 Northumberland	July 18/73	5/8" "
44. Grant Garneau	861 Barker St.	July 26/73	5/8" "
45. Walter McBride	27 Woodfield Cres.	July 26/73	5/8" "
46. Harveys Foods	460 Regent St.	Aug. 1/73	1" "
47. Andrew Patterson	710 Mitchell St.	Aug. 3/73	5/8" "
48. D.H. McCain Jr.	103 Aberdeen St.	Aug. 7/73	5/8" "
49. P.A. MacLaughlin	259 Victoria St.	Aug. 7/73	5/8" "
50. Mrs. F.J. Belyea	331 Victoria St.	Aug. 9/73	5/8" "
51. Thomas McLaughlin	267 Victoria St.	Aug. 13/73	5/8" "
52. Barbara Landry	537 Albert St.	Aug. 22/73	5/8" "
53. Victor Timmer	379 Edinburgh St.	Aug. 22/73	5/8" "
54. Bessie Fleet	223 Carleton St.	Aug. 28/73	5/8" "
55. George Ridgley	790 Irvine St.	Sept. 5/73	5/8" "
56. V.I. Haviland	277 Northumberland	Sept. 5/73	5/8" "
57. Vaughan Leachman	31 Allen St.	Sept. 7/73	5/8" "
58. United Baptist Church	135 Canterbury Dr.	Sept. 10/73	5/8" "
59. Barbara Budovitch	86-90 Forest Hill	Sept. 10/73	5/8" "
60. Barbara Budovitch	96-100 Forest Hill	Sept. 10/73	5/8" "
61. R. Cowperthwaite	296-98 Gibson St.	Sept. 10/73	5/8" "
62. Charles Bilenky	871 Union St.	Sept. 11/73	5/8" "
63. Steve Totten	125 Willingdon St.	Sept. 26/73	5/8" "
64. Willard Crawford	479-481 York St.	Sept. 27/73	5/8" "
65. Stafford Flieger	440 Pederson Cres.	Sept. 28/73	5/8" "
66. Dr. A. Matthews	85 Elmwood Ct.	Oct. 5/73	5/8" "
67. Everett Glenn	248 Gibson St.	Oct. 9/73	5/8" "
68. Weldon Ward	565 Needham St.	Oct. 9/73	5/8" "
69. Douglas Young	652 Union St.	Oct. 11/73	5/8" "
70. A. McF. Limerick	504 Needham St.	Oct. 12/73	5/8" "

NAME	ADDRESS	DATE	SIZE
71. Charles Khoury	530 Needham St.	Oct. 12/73	5/8" TRT
72. Bruno Bobak	97 Grey St.	Oct. 17/73	5/8" "
73. Carl Hay	733 Irvine St.	Oct. 19/73	5/8" "
74. Myrtle McGinnis	744 Albert St.	Nov. 2/73	5/8" "
75. Larry Eusler	302 Charlotte St.	Nov. 5/73	5/8" "
76. Norman Howell	907 Barker St.	Nov. 5/73	5/8" "
77. Gorden Sharpe	653 Albert St.	Nov. 6/73	5/8" "
78. H.A. Calder	602 Chestnut St.	Nov. 6/73	5/8" "
79. W.H. Wishart	773 Reed St.	Nov. 6/73	5/8" "
80. E.F. Atkinson	109 Montgomery St.	Nov. 13/73	5/8" "
81. A.G. MacArthur	45 Elmwood Ct.	Nov. 14/73	5/8" "
82. George Nason	362 Gibson St.	Nov. 14/73	5/8" "
83. Leona Jacques	275 Smythe St.	Nov. 13/73	5/8" "
84. Kingsinn Properties	1165 Smythe St.	Nov. 22/73	5/8" "
85. D.W. Simms	664 Union St.	Nov. 28/73	5/8" "
86. George Stillman	645 Churchill Row	Dec. 4/73	5/8" "
87. Grace Locke	295 Northumberland	Dec. 4/73	5/8" "
88. Cara Mitchell	179 Saunders St.	Dec. 4/73	5/8" "
89. Joseph Cimoline	126 Coventry Cres.	Dec. 6/73	5/8" "
90. A.W. Horsnell	684 Fenety St.	Dec. 6/73	5/8" "
91. John McKinnon	749 Prince St.	Dec. 6/73	5/8" "
92. Mrs. C. Tingley	880 Regent St.	Dec. 6/73	5/8" "
93. John Turnheer	79 McKeen St.	Dec. 14/73	5/8" "
94. Harry Brodie	164 Saunders St.	Dec. 28/73	5/8" "

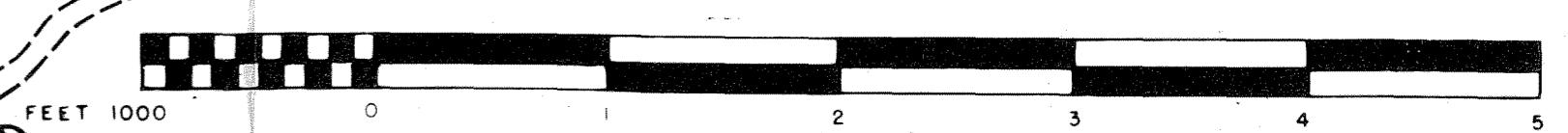
Regular Meters Changed to ARB 1973

NAME	ADDRESS	DATE	SIZE
1. Nat Smith	601-605 Windsor St.	Apr. 3/73	5/8" ARB


ARB Meters Changed to TRT

NAME	ADDRESS	DATE	SIZE
1. City Construction	325 Wetmore Rd.	Apr. 25/73	5/8" TRT
2. F'ton Housing	75 Tilley Dr.	Apr. 26/73	5/8" "
3. Donald Roger	27-29 Birch Ct.	Apr. 26/73	5/8" "
4. City of F'ton	303 Odell Ave.	Apr. 26/73	5/8" "
5. Robert Heighes	212 Saunders St.	May 9/73	5/8" "
6. Charles Allport	204 Victoria St.	July 23/73	5/8" "
7. Norval Clark	734 Albert St.	Aug. 6/73	5/8" "

THE CITY OF FREDERICTON & VICINITY



NEW PAVEMENT ■■■
RESURFACE(3/8" MINUS)-CAPITAL
RESURFACE(3/8" MINUS)-MAINTENANCE
RECAP(1/2" MINUS)
NEW STREET CONSTRUCTION •••



THE CITY OF FREDERICTON & VICINITY

FEET 1000 0 1 2 3 4 5

CONSTRUCTION-1973

SURFACE SEWER
DOMESTIC SEWER
WATER

SURFACE SEWER		DOMESTIC SEWER		WATER	
60"	36"	30"	24"	18"	12"
—	—	—	—	—	—
992'	917'	864'	1904'	4649'	647'

ALSO: FORCEMAIN - 425'
CORRUGATED METAL PIPE - 236'
SURFACE SEWER OFFTAKES - 20' - 4" NO-CORRODE
11' - 6" NO-CORRODE

UNIVERSITY OF NEW BRUNSWICK WOODLOT
AND GAME REFUGE

DOMINION AGRICULTURAL
RESEARCH STATION

REVISED OCT. 1973

THE CITY OF FREDERICTON & VICINITY

Scale: 1:25,000

CONSTRUCTION - 1973

CURB & GUTTER 2.81 MILES
CONCRETE WALKS 0.85 MILES

