

**MONTREAL  
WATER AND POWER  
COMPANY**

**Estimations**

**Octobre 1892 -  
31 décembre 1892**

**P49/E2,3**

MONTREAL WATER & POWER CO.

RESUME OF TOTAL WORK TO BE DONE ON FRANCHISE TERRITORY

Purchase of plant (actual cost)	282775	71		
Cote St. Paul	25110	68		
St Henry	48514	16		
Village Turcot	498	30		
Cote St Antoine	99546	81		
Cote des Neiges	239298	65		
Outremont	92072	80		
Mile End	37992	44		
Cote St. Louis	20784	04		
Maisonneuve	18594	50		
Cote Visitation	33522	50		
Pumping main from Sault Recollet to beginning of Rocky Road	126227	00		
Rock excavation, Private service and hydrant laying	109890	00		
Water power, pumping station & accessories at Back River	341642	27		
			\$1475429	86

P49/E2,3

276  
MONTREAL WATER & POWER CO.

RESUME OF TOTAL WORK

TO BE DONE

ON FRANCHISE TERRITORY

MONTREAL, OCT. 1892.

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**COTE ST. PAUL**

**WORK DONE FROM THE START TO OCT. 1892.**

Quants:	Description of work & Material	Rates	Amounts	Totals
	<b>CANAL CROSSING, DONE APRIL 1891</b>		5947 02	5947 02
	<b>ST. PATRICK STREET. FROM CANAL CROSSING TO WEST OF ANGERS STREET.</b>			
361	ft. of 12" pipe	at \$2.30	794 20	
2	10" Valves	47.00	94 00	
2	Valve boxes (not completed)			
1083	ft. of 8" pipe	1.25	1353 75	
2	8" Valves	33.00	66 00	
2	Valve boxes (not completed)			
2	3 Nozzle Hydrants	60.00	120 00	
2	Hydrants setting	10.00	20 00	2447 95
	<b>ANGERS STREET (FROM ST PATRICK TO MOLSON AV)</b>			
388	ft. of 12" pipe laid	at 2.20	853 60	
1	12" Valve	61.00	61 00	
1	Valve box (not completed)			
2	2 Nozzle Hydrants	40.00	80 00	
2	2 " " set	10.00	20 00	
340	ft. of 8" pipe	1.25	425 00	
231	ft. of 6" pipe	0.92	212 52	
1	8" Valve	33.00	33 00	
1	Valve box	10.00	10 00	1695 12
	<b>WORKMAN STREET (FROM ANGERS TO MOLSON AV.)</b>			
960	ft. of 10" pipe laid	at 1.70	1632 00	
2	2 Nozzle Hydrants	40.00	80 00	
2	2 " " set	10.00	20 00	1732 00
	<b>FROTHINGHAM STREET (FROM EAST OF ANGERS TO WORKMAN)</b>			
522	ft. of 4" pipe laid	at 0.70	365 40	
180	ft. of 8" pipe laid	1.25	225 00	
1	4" Valve	14.25	14 25	
1	Valve box	10.00	10 00	614 65
	CARRIED OVER			\$12436 74

Quants:	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>12436 74</b>
	<b><u>MOLSON AVENUE</u> (FROM EAST OF ANGERS TO WORKMAN)</b>			
1018	ft. of 4" pipe laid	at \$0.70	712 60	
100	ft. of 6" pipe laid	" 0.92	92 00	
1	4" Valve set	" 14.25	14 25	
1	Valve box	" 10.00	10 00	
1	2 Nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	878 85
	<b><u>MILL STREET (FROM MOLSON AVENUE TO DUFFERIN)</u></b>			
282	ft. of 10" pipe laid	at 1.70	479 40	
1	10" valve set	" 47.00	47 00	
1	Valve box	" 10.00	10 00	536 40
	<b><u>ARCHIBALD AVENUE</u> (FROM DUFFERIN TO ST PAUL)</b>			
611	ft. of 10" pipe laid	at 1.70	1038 70	
1	2 Nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	1088 70
	<b><u>EADIE STREET</u> (FROM DUFFERIN TO ST PAUL)</b>			
604	ft. of 4" pipe laid	at 0.70	422 80	
1	4" Valve set	" 14.25	14 25	
1	Valve box	" 10.00	10 00	447 05
	<b><u>HADLEY STREET</u> (FROM DUFFERIN TO ST PAUL)</b>			
606	ft. of 4" pipe laid	at 0.70	424 20	
1	4" Valve set	" 14.25	14 25	
1	Valve Box	" 10.00	10 00	
1	2 Nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	498 45
	<b><u>DUFFERIN AV. (FROM ARCHIBALD TO ST. PATRICK)</u></b>			
1374	ft. of 6" pipe laid	at 0.92	1264 08	
199	ft. of 10" pipe laid	" 1.70	338 30	
2	6" Valves set	" 23.00	46 00	1648 38
	<b>CARRIED OVER</b>			<b>\$17534 57</b>

Quants:	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$17534 57</b>
	<b>DUFFERIN AVE.</b>			
	<b>(FROM ARCHIBALD, ETC.) Continued</b>			
2	Valves boxes	at 10.00	20 00	
3	2 Nozzle hydrants	" 40.00	120 00	
3	2 " " set	" 10.00	30 00	170 00
	<b>MAISONNEUVE AV. (FROM ARCHIBALD TO WEST OF HADLEY)</b>			
1550	ft. of 4" pipe laid	at 0.70	1085 00	
2	4" Valves set	" 14.25	28 50	
2	Valve boxes complete	" 10.00	20 00	
1	2 Nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	1183 50
	<b>COTE ST PAUL ROAD</b>			
	<b>(FROM 860 EAST OF ARCHIBALD TO ST PATRICK)</b>			
139	ft. of 10" pipe laid	at 1.70	236 30	
2835	ft. of 6" " "	" 0.92	2608 20	
3	6" Valves	" 23.00	69 00	
2	Valve boxes	" 10.00	20 00	
1	Valve boxes (not completed)	"		
5	2 Nozzle hydrants	" 40.00	200 00	
5	" " set	" 10.00	50 00	3183 50
	<b>ROCK EXCAVATION</b>			
400	C.Yds. (on Dufferin St. 4 x 2.5)	at 3.00	1200 00	1200 00
	<b>CARTAGE OF MATERIAL</b>			
275	Tons of Cartage	at 1.50	412 50	412 50
	<b>SPECIALS</b>			
3.48	Tons of specials	at 55.00	191 40	191 40
	<b>T O T A L</b>			<b>\$23875 47</b>

C O T E S T. P A U L

DETAILED CALCULATION OF CARTAGE

	20"	16"	14"	12"	10"	8"	6"	4"
				361	960	1083	231	522
				388	282	340	100	1018
					611	180	1374	604
					199		2835	606
					139			1550
<b>TOTAL LENGTHS</b>				<b>749</b>	<b>2191</b>	<b>1603</b>	<b>4540</b>	<b>4300</b>

12" 749' x 85 lbs	63665 lbs.		
10" 2191' x 65 "	142415 "		
8" 1603' x 46.5	74540 "		
6" 4540' x 33 "	149820 "		
4" 4300' x 21 "	90300 "		
	<u>520740 lbs.</u>	260.36	tons
18 hydrants at 400 lbs.	7200 lbs	3.60	"
1 12" Valve x 200 lbs	200 lbs.		
3 - 10" " x 170 "	510 "		
3 - 8" " x 140 "	420 "		
5 - 6" " x 80 "	400 "		
6 - 4" " x 50 "	300 "		
	<u>1830 "</u>	0.92	"

COTE ST PAUL (CONTINUED)

LEAD.

12"	62 lengths	x 18 lbs	1116 lbs	
10"	166 "	x 15 "	2490 "	
8"	134 "	x 12 "	1608 "	
6"	379 "	x 9 "	3411 "	
4"	361 "	x 6 "	2166 "	
			-----	
			10791 lbs	5.40 tons

VALVE BOXES.

18 Valve boxes	x 150 lbs	2700 lbs	1.35 "
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DETAIL OF SPECIALS FOR EACH STREET.

ST. PATRICK ST.

1 Special	at 760 lbs.	760 lbs.
1 "	" 350 "	350 "

ANGERS ST.

1 Special	at 350 lbs	350 "
1 "	" 280 "	280 "
1 "	" 210 "	210 "

WORKMAN ST.

4 Specials	at 250 lbs	1000 "
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FROTHINGHAM ST.

1 Special	at 200 lbs	200 "
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CARRIED OVER

3150 lbs.



COTE ST PAUL ( CONTINUED)

<b>BROUGHT FORWARD</b>		<b>3150 lbs.</b>
 <b><u>MOLSON AVE.</u></b>		
2	Specials at 120 lbs	240 lbs.
1	" " 80 "	80 "
 <b><u>MILL STREET.</u></b>		
None		
 <b><u>ARCHIBALD AVE.</u></b>		
4	Specials at 250 lbs	1000 lbs
 <b><u>EADIE STREET</u></b>		
1	Special at 100 lbs	100 lbs
 <b><u>HADLEY STREET.</u></b>		
1	Special at 100 lbs	100 lbs
 <b><u>DUFFERIN AVE.</u></b>		
1	Special at 250 lbs	250 lbs
6	" " 110 "	660 "
 <b><u>MAISONNEUVE AVE.</u></b>		
3	Specials at 80 lbs.	240 lbs
 <b><u>COTE ST PAUL ROAD</u></b>		
2	Specials at 180 lbs	360 lbs
7	" " 110 "	770 "
		6950 "



COTE ST PAUL (CONTINUED)

RESUME OF CARTAGE

Pipes	260.36	tons	
Hydrants	3.60	"	
Valves	0.92	"	
Lead	5.40	"	
Valve boxes	1.35	"	
Specials	3.48	"	
<u>Total Cartage</u>	<u>275.11</u>	<u>"</u>	
for Sept. Estimate			275 tons

P49/E2,3

—MONTREAL WATER & POWER CO.—

—WORK DONE UP TO OCT.1st.1892—

—VILLAGE OF COTE ST. PAUL.—

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TOWN OF ST HENRY

WORK DONE FROM THE START TO OCT. 1892.

Quants.	Description of work & Material	Rates	Amounts	Totals
<b>ST AMBROISE ST. (FROM FERDINAND ST. TO ROSE DELIMA)</b>				
1714	ft. of 12" pipe laid	at 2.20	3770 80	
2	12" Valves set	" 61.00	122 00	
2	Valve boxes complete	" 10.00	20 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	3962 80
<b>NOTRE DAME ST. (FROM ROSE DELIMA TO HALLOWELL ST.)</b>				
100	ft. of 12" pipe laid	at 2.20	220 00	
2	12" Valves set	" 61.00	122 00	
2	Valve boxes complete	" 10.00	20 00	362 00
<b>WORKMAN ST. (FROM ATWATER AVE. WESTWARD &amp; FROM HALLOWELL TO LISGAR)</b>				
558	ft. of 4" pipe laid	at 0.70	390 60	
2	4" Valves set	" 14.25	28 50	
2	Valve boxes complete	" 10.00	20 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	489 10
<b>ALBERT ST. (WEST OF ATWATER AVE. TO HALLOWELL ST.)</b>				
913	ft. of 4" pipe laid	at 0.70	639 10	
1	4" valve set	" 14.25	14 25	
1	Valve box complete	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	713 35
<b>ST JAMES (FROM ATWATER TO HALLOWELL ST.)</b>				
1304	ft. of 8" pipe laid	at 1.25	1630 00	
3	8" valves set	" 33.00	99 00	
3	Valve boxes complete	" 10.00	30 00	
2	2 nozzle hydrants	" 40.00	80 00	
2	2 " " set	" 10.00	20 00	1859 00
				<b>\$7386 25</b>
	CARRIED OVER			

ST HENRY (CONT'D)

Quants.	Description of Work & Material	Rates	Amounts	Totals
	BROUGHT FORWARD			\$7386 25
	<u>PARK ST. (FROM WILLIE TO AGNES)</u>			
236	ft. of 4" pipe laid	at \$0.70	165 20	
1	2 Nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	215 20
	<u>ST ANTOINE ST. (FROM ATWATER TO HALLOWELL)</u>			
950	ft. of 8" pipe laid	at 1.25	1187 50	
1	8" Valve	" 33.00	33 00	
1	Valve box complete	" 10.00	10 00	
735	ft. of 14" pipe laid	" 2.50	1837 50	
1	14" valve set	" 90.00	90 00	
1	Valve box complete	" 10.00	10 00	3168 00
	<u>ST ANTOINE ST. (FROM ANNIE TO AGNES.)</u>			
473	ft. of 6" pipe laid	at 0.92	435 16	
1	6" Valve set	" 23.00	23 00	
1	Valve box complete	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	518 16
	<u>ST ANTOINE ST. (FROM METCALFE TO GUIMOND)</u>			
211	ft. of 6" pipe laid	" 0.92	194 12	
1	6" Valve set	" 23.00	23 00	
1	Valve box complete	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	277 12
	<u>ST ANTOINE ST. (BETWEEN ST PIERRE &amp; LEMAIRE)</u>			
100	ft. of 4" pipe laid	at 0.70	70 00	70 00
	CARRIED OVER			\$11634 73

ST HENRY (CONT'D)

Quants.	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$11634 73</b>
	<b>ST ANTOINE ST.</b>			
	<b>(BETWEEN BRODIE &amp; ST.GERMAIN)</b>			
100	ft.of 4" pipe laid	at 0.70	70 00	
1	4" valve	" 14.25	14 25	
1	Valve box complete	" 10.00	10 00	94 25
	<b>ST ANTOINE</b>			
	<b>(FROM BETHUNE TO ST PAUL)</b>			
716	ft.of 8" pipe laid	at 1.25	895 00	
1	8" valve set	" 33.00	33 00	
1	Valve box complete	" 10.00	10 00	938 00
	<b>ATWATER AVE.</b>			
	<b>(FROM ST JAMES TO ST ANTOINE)</b>			
693	ft.of 8" pipe laid	at 1.25	866 25	
1	8" valve set	33.00	33 00	
1	Valve box complete	10.00	10 00	909 25
	<b>HALLOWELL ST.</b>			
	<b>(FROM ST ANTOINE TO NOTRE DAME)</b>			
1480	ft.of 14" pipe laid	at 2.50	3700 00	
3	14" valves set	90.00	270 00	
3	Valve boxes complete	10.00	30 00	4000 00
	<b>ROSE de LIMA (FROM ST AMBROISE</b>			
	<b>TO NOTRE DAME STREET)</b>			
1066	ft.of 12" pipe laid	at 2.20	2345 20	
2	12" valves set	61.00	122 00	
2	Valve boxes complete	10.00	20 00	
1	2 nozzle hydrant	40.00	40 00	
1	2 " " set	10.00	10 00	2537 20
	<b>ANNIE ST. (FROM ST JAMES</b>			
	<b>TO ST ANTOINE)</b>			
730	ft.of 6" pipe laid	at 0.92	671 60	
1	2 nozzle hydrant	40.00	40 00	
1	2 " " set	10.00	10 00	721 60
	<b>CARRIED OVER</b>			
				<b>\$20835 03</b>

ST HENRY (CONT'D)

Quants.	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$11634 73</b>
	<b>ST ANTOINE ST.</b>			
	<b>(BETWEEN BRODIE &amp; ST. GERMAIN)</b>			
100	ft. of 4" pipe laid	at 0.70	70 00	
1	4" valve	" 14.25	14 25	
1	Valve box complete	" 10.00	10 00	94 25
	<b>ST ANTOINE</b>			
	<b>(FROM BETHUNE TO ST PAUL)</b>			
716	ft. of 8" pipe laid	at 1.25	895 00	
1	8" valve set	" 33.00	33 00	
1	Valve box complete	" 10.00	10 00	938 00
	<b>ATWATER AVE.</b>			
	<b>(FROM ST JAMES TO ST ANTOINE)</b>			
693	ft. of 8" pipe laid	at 1.25	866 25	
1	8" valve set	33.00	33 00	
1	Valve box complete	10.00	10 00	909 25
	<b>HALLOWELL ST.</b>			
	<b>(FROM ST ANTOINE TO NOTRE DAME)</b>			
1480	ft. of 14" pipe laid	at 2.50	3700 00	
3	14" valves set	90.00	270 00	
3	Valve boxes complete	10.00	30 00	4000 00
	<b>ROSE de LIMA (FROM ST AMBROISE</b>			
	<b>TO NOTRE DAME STREET)</b>			
1066	ft. of 12" pipe laid	at 2.20	2345 20	
2	12" valves set	61.00	122 00	
2	Valve boxes complete	10.00	20 00	
1	2 nozzle hydrant	40.00	40 00	
1	2 " " set	10.00	10 00	2537 20
	<b>ANNIE ST. (FROM ST JAMES</b>			
	<b>TO ST ANTOINE)</b>			
730	ft. of 6" pipe laid	at 0.92	671 60	
1	2 nozzle hydrant	40.00	40 00	
1	2 " " set	10.00	10 00	721 60
	<b>CARRIED OVER</b>			<b>\$20835 03</b>

**REPRISE**

ST HENRY (CONT'D.)

Quants.	Description of Work & Material	Rates	Amounts	Totals
BROUGHT FORWARD				\$20835 03
WILLIE ST. (FROM NORTH OF ST JAMES TO ST ANTOINE)				
700	ft. of 4" pipe laid	at \$0.70	490 00	
1	4" valve	14.25	14 25	
1	Valve box complete	10.00	10 00	514 25
METCALFE AVE. (FROM ST ANTOINE SOUTH)				
399	ft. of 4" pipe laid	at 0.70	279 30	
1	4" valve set	14.25	14 25	
1	Valve box	10.00	10 00	303 55
HARRISON ST. (FROM ST AMBROISE TO STE. EMELIE)				
572	ft. of 4" pipe laid	at 0.70	400 40	
1	4" valve set	14.25	14 25	
1	Valve box	10.00	10 00	424 65
STE. EMELIE ST. (FROM ST JEAN TO ROSE DE LIMA)				
463	ft. of 4" pipe laid	at 0.70	324 10	
2	4" valves set	14.25	28 50	
2	Valve boxes	10.00	20 00	372 60
BEAUDOIN ST. (FROM ST AMBROISE NORTHWARD)				
780	ft. of 4" pipe laid	at 0.70	546 00	
1	4" Valve	14.25	14 25	
1	Valve box complete	10.00	10 00	
1	2 nozzle hydrant	40.00	40 00	
1	2 " " set	10.00	10 00	620 25
ROBERTSON ST. (FROM HARRISON WESTWARD)				
106	ft. 4" pipe laid	at 0.70	74 20	74 20
CARRIED OVER				\$23144 53



ST HENRY (CONT'D.)

Quants.	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$23144 53</b>
	<b><u>LISGAR STREET</u></b> (ST JAMES NORTHWARD)			
170	ft. of 4" pipe laid	at \$0.70	119 00	119 00
	<b><u>BRODIE ST. (ST ANTOINE NORTH)</u></b>			
100	Ft. of 4" pipe laid	0.70	70 00	70 00
	<b><u>BETHUNE ST. (FROM</u></b> <b><u>NOTRE DAME TO ST ANTOINE)</u></b>			
300	ft. of 8" pipe laid	at 1.25	375 00	
1	8" Valve laid	33.00	33 00	
1	Valve box	10.00	10 00	
1	2 nozzle hydrant	40.00	40 00	458 00
	<b><u>CARTAGE</u></b>			
431	Tons of cartage	at 1.50	646 50	646 50
	<b><u>PRIVATE SERVICE</u></b>			
526	Services	at 15.00	7890 00	7890 00
	<b><u>ROCK EXCAVATION</u></b>			
100	C.yds. (on St Antoine St. 3'6" x 1'3" deep x 628)	at 3.00	300 00	300 00
	<b><u>SPECIALS</u></b>			
449	Tons of specials	at 55.00	246 95	246 95
	<b>T O T A L</b>			<b>\$32874 98</b>

TOWN OF ST HENRY

DETAILED CALCULATION OF CARTAGE

	20"	16"	14"	12"	10"	8"	6"	4"
			735	1714		1304	473	558
			1480	100		950	211	913
				1066		716	730	236
						693		100
						300		100
								700
								399
								572
								463
								780
								106
								170
								100
<b>TOTAL LENGTHS</b>			2215	2880'		3963'	1414	5197'

14" - 2215' x 110 lbs 243650 lbs  
 12" - 2880 x 85 " 244800 "  
 8" - 3963' x 455 " 180317 "  
 6" - 1414' x 33 " 46662 "  
 4" - 5197' x 21 " 109134 "

**TOTAL** 824566 lbs 412.29 tons

12 hydrants at 400 lbs 4800 lbs 2.40 tons

4 - 14" valves at 300 lbs 1200 "  
 6 - 12" " " 200 " 1200 "  
 7 - 8" " " 140 " 980 "  
 2 - 6" " " 80 " 160 "  
 10 - 4" " " 50 " 500 "

**TOTAL** 4040 " 2.02 tons

**LEAD:**

14" - 185 lengths at 21 lbs 3885 lbs  
 12" - 240 " " 18 " 4320 "  
 8" - 331 " " 12 " 3972 "  
 6" - 118 " " 9 " 1062 "  
 4" - 433 " " 6 " 2598 "

**TOTAL** 15837 " 7.97 tons

TOWN OF ST HENRY (CONT'D)

VALVE BOXES

29 Valve boxes at 150 lbs. 4350 lbs 2.18 tons

DETAIL OF SPECIALS FOR EACH STREET

ST ANTOINE ST.

7 Specials at 350 lbs. 2450 lbs

NOTRE DAME ST.

2 specials at 350 lbs 700 "  
1 " " 150 "

WORKMAN ST.

1 Special at 350 lbs 350 "

ALBERT ST.

1 Special at 80 lbs. 80 "

ST JAMES ST.

2 Specials at 150 lbs. 300 "

PARK ST.

None

ST ANTOINE ST.

1 Special at 150 lbs 150 "  
2 " " 450 " 900 "  
6 " " 110 " 660 "  
1 " " 200 " 200 "

ATWATER AV.

2 specials at 150 lbs 300 "

HALLOWELL ST.

3 Specials at 450 lbs. 1350 "

CARRIED OVER 7590 "



TOWN OF SY HENRY (CONT'D)

BROUGHT FORWARD		7590 lbs.			
<b>ROSE DE LIMA</b>					
2 Specials at 350 lbs		700 lbs.			
<b>ANNIE ST.</b>					
1 special at 80 lbs		80 "			
<b>WILLIE ST.</b>					
1 Special at 100 lbs		100 "			
<b>METCALFE AVE.</b>					
1 specials at 80 lbs.		80 "			
<b>HARRISON ST.</b>					
	None				
<b>STE. EUGENIE ST.</b>					
2 specials at 100 lbs		200 "			
<b>BEAUDOIN ST.</b>					
1 special at 80 lbs		80 "			
<b>ROBERTSON ST.</b>					
	None				
<b>Lisgar ST.</b>					
	None				
<b>BRODIE ST.</b>					
	None				
<b>BETHUNE ST.</b>					
1 special at 150 lbs.		150 "			
		-----			
TOTAL		8980 "	4.49	tons	



TOWN OF ST HENRY (CONTINUED)

RESUME of CARTAGE

Pipes	412.29	tons
Hydrants	2.40	"
Valves	2.02	"
Lead	7.97	"
Valve boxes	2.18	"
Specials	4.49	"
<b>TOTAL CARTAGE</b>	<b>431.35</b>	<b>"</b>
<b>FOR SEPT. ESTIMATE</b>	<b>431</b>	<b>tons</b>

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— MONTREAL WATER & POWER CO. —

— WORK DONE UP TO OCT. 1st. 1892. —

— TOWN OF ST. HENRY. —

P49/E2,3

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ST. LOUIS OF MILE END

WORK DONE FROM THE START TO OCT. 1892.

Quants:	Description of Work & Material	Rates	Amounts	Totals
<u>MONT ROYAL AV. (FROM CADIEUX TO ST LAWRENCE)</u>				
600	ft. of 12" pipe laid	at \$2.20	1320 00	1320 00
<u>FORTIN STREET (FROM STUART TO ST LAWRENCE)</u>				
880	ft. of 6" pipe laid	at 0.92	809 60	
2	6" valves "	" 23.00	46 00	
1	Valve box complete	" 10.00	10 00	
1	" " not complete	" "		
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	915 60
<u>ST. JOSEPH ST. (FROM ST HYPOLITE TO ST. DOMINIQUEST.)</u>				
215	ft. of 6" pipe laid	at 0.92		197 80
<u>ST. LOUIS ST. (FROM ROBIN TO CLARKE)</u>				
1420	ft. of 16" pipe laid	at 3.27	4643 40	
1	16" valve	" 112.00	112 00	
1	Valve box	" 10.00	10 00	4765 40
<u>ROBIN STREET (FROM MONT ROYAL NORTHWARDS)</u>				
600	ft. of 10" pipe laid	at 1.70		1020 00
<u>STUART STREET (FROM MONT ROYAL TO ST JOSEPH)</u>				
1480	ft. of 6" pipe laid	at 0.92		1361 60
	CARRIED OVER			<del>19580</del> 40

Quants:	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$9580 40</b>
	<b>CADIEUX STREET, (FROM MONT ROYAL TO ELMIRE, NOT COMPLETE)</b>			
700	ft. of 4" pipe laid	at \$0.70	490 00	
1	4" valve	" 14.25	14 25	
1	Valve box	" 10.00	10 00	514 25
	<b>HYPOLITE ST. (FROM SOUTH OF FORTIN TO ST JOSEPH NOT COMPLETE)</b>			
750	ft. of 6" pipe laid	at 0.92	690 00	
1	6" valve	" 23.00	23 00	
1	Valve box	" 10.00	10 00	723 00
	<b>ST. DOMINIQUE ST. (FROM MONT ROYAL TO ST. JOSEPH, AND FROM ST. LOUIS TO EUGENIE STREET)</b>			
2100	ft. of 4" pipe laid	at 0.70	1470 00	
3	4" valves	" 14.25	42 75	
3	Valve boxes	" 10.00	30 00	
2	2 nozzle hydrants	" 40.00	120 00	
2	2 " " set	" 10.00	30 00	1692 75
	<b>ST. LAWRENCE ST. (FROM FORTIN TO NORTH OF ST. LOUIS)</b>			
1500	ft. of 10" pipe laid	at 1.70	2550 00	
2	10" valves	" 47.00	94 00	
2	Valve boxes complete	" 10.00	20 00	2664 00
2852½	<b>ROCK EXCAVATION</b> as per annexed statement	at 3.00	8557 50	8557 50
160	<b>PRIVATE SERVICES</b>	at 15.00	2400 00	2400 00
	<b>CARTAGE</b>			
285	Tons of cartage	at 1.50	427 50	427 50
	<b>SPECIALS</b>			
5099	Tons of specials	at 55.00	329 45	329 45
	<b>GRAND TOTAL</b>			<b>\$26888 85</b>



M I L E E N D

R O C K E X C A V A T I O N

ST JOSEPH STREET.

3.725 x 3.00  
----- x 2.9 x 215 2096.52 C.ft. 77 65  
2

CADIEUX STREET

3.4175 x 3.00  
----- x 1.67 x 120 643.03 C.ft 23 81  
2

3.2 x 3.0  
----- x 0.8 x 198 491.04 C.ft 18 18  
2

3.075 x 3.00  
----- x 0.3 x 15 13.66 C.ft 0 50 42 49  
2

ST. LAWRENCE STREET

4.54 x 3.33  
----- x 4.34 x 865 14774.20 547 18  
2

3.41 x 3.33  
----- x 0.3 x 58 58.64 2 17  
2

3.68 x 3.33  
----- x 1.25 x 49 214.38 7 93 557 28  
2

MONT ROYAL AVE.

4.83 x 3.50  
----- x 4.00 x 573 9557.64 353 98  
2

ROBIN STREET

3.76 x 3.33  
----- x 1.53 x 330 1788.60 66 24 66 24  
2

CARRIED OVER

96 84 1097 64

BROUGHT FORWARD		00	24	1097	64
ROBIN ST. (Cont'd)					
3.55 x 3.33					
----- x 0.8 x 45	123.84	4	58	4	58
2					
<u>GEORGE HYPOLITE ST.</u>					
3.5 x 3.0					
----- x 2 x 155	1007.50			37	31
2					
<u>STUART STREET</u>					
3.40 x 3.00					
----- x 1.58 x 460	2325.76 c.ft			86	14
2					
<u>ST. DOMINIQUE ST.</u>					
3.86 x 3.00					
----- x 3.44 x 3.33	3929.40	145	50		
2					
3.64 x 3.00					
----- x 2.56 x 411	3493.50	129	40		
2					
3.12 x 3.00					
----- x 0.48 x 50	73.44	2	72		
2					
3.66 x 3.00					
----- x 2.66 x 400	3543.12	131	22		
2					
2	<u>Hydrants laid</u>	8	00	416	84
<u>ST LOUIS ST.</u>					
5.22 x 4.00					
----- x 4.88 x 1452	32670			1210	00
2					
				2852	51

ST. LOUIS DU MILE END

DETAILED CALCULATION OF CARTAGE

	20"	16"	14"	12"	10"	8"	6"	4"
		1420		600	600 1500		880 215 1480 750	700 2100
<b>TOTAL LENGTHS</b>		1420		600	2100		3325	2800

16"	1420	x	133 lbs	188860 lbs
12"	600	x	85 "	51000 "
10"	2100	x	65 "	136500 "
6"	3325	x	33 "	109725 "
4"	2800	x	21 "	58000 "

**TOTAL**

544085 "

272.04 tons

3 Hydrants at 400 lbs	1200 lbs
1 - 16" Valve x 450 lbs.	450 "
2 - 10" " x 170 "	340 "
3 - 6" " x 80 "	240 "
4 - 4" " x 50 "	200 "

**TOTAL**

1230 "

0.60 "

0.61 "

**L E A D:**

16" - 119 lengths	x 24 lbs.	2856 lbs.
12" - 50 "	x 18 "	900 "
10" - 175 "	x 15 "	2625 "
6" x 277 "	x 9 "	2493 "
4" - 233 "	x 6 "	1398 "

10272 "

5.13 "

**CARRIED OVER**

278.38 tons

ST LOUIS DU MILE END (Continued)

BROUGHT FORWARD

278.38 tons

DETAIL OF SPECIALS FOR EACH STREET

MONT ROYAL AVE.

3 specials at 300 lbs. 900 lbs.

FORTIN STREET.

2 Specials at 130 lbs. 260 lbs  
2 " " 150 " 300 "  
1 " " 100 " 100 "

ST JOSEPH ST.

2 Specials at 110 lbs 220 "

ST LOUIS ST.

7 Specials at 830 lbs 5810 "  
1 " " 880 " 880 "  
1 " " 900 " 900 "

ROBIN STREET.

2 specials at 220 lbs. 440 "

STUART STREET

5 Specials at 110 lbs 550 "

CADIEUX STREET

2 Specials at 80 lbs. 160 "

HYPOLITE STREET

2 specials at 110 lbs 220 "

CARRIED OVER

-----  
10740 lbs

<b>BROUGHT FORWARD</b>	<b>10740 lbs</b>
<b><u>DOMINIQUE STREET</u></b>	
3 Specials at 80 lbs	240 "
<b><u>ST LAWRENCE STREET</u></b>	
4 Specials at 250 lbs	1000 "
	<hr/>
	<b>11980 lbs</b>
	<hr/>
	<b>5.99 tons</b>

**VALVE BOXES:**

9 Valve boxes at 150 1350 lbs 0.67 "

**RESUME OF CARTAGE**

Pipes	<b>272.04 tons</b>
hydrants	0.60 "
Valves	0.61 "
Lead	5.13 "
Specials	5.99 "
Valve boxes	0.67 "
	<hr/>
<b><u>TOTAL CARTAGE</u></b>	<b>285.04 "</b>
	<hr/>
	<b>285 tons</b>

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MONTREAL WATER AND POWER CO.

WORK DONE UP TO OCT. 1st. 1892.

VILLAGE OF ST LOUIS OF MILE END

C O T E S T. A N T O I N E.

WORK DONE FROM THE START TO OCTOBER 1892.

Quants.	Description of Work & Material	Rates	Amounts	Totals
<u>DORCHESTER ST. (WEST OF HALLLOWELL)</u>				
203	ft. of 4" pipe laid	at \$0.70	142 10	
1	2 Nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	192 10
<u>HILLSIDE ST. (EAST OF METCALFE AV.)</u>				
490	ft. of 4" pipe laid	at 0.70		343 00
<u>STE CATHERINE ST.</u> (FROM GREENE AVE. TO CLARKE)				
690	ft. of 14" pipe laid	at 2.50	1725 00	
1	14" valve	" 90.00	90 00	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	1875 00
<u>SUMMERVILLE ST.</u> (WEST OF VICTORIA AVE)				
139	ft. of 4" pipe laid	at 0.70		97 30
<u>MELBOURNE STREET</u> (FROM METCALFE AVE. WEST)				
352	ft. of 4" pipe laid	at 0.70	246 40	
1	4" valve	" 14.25	14 25	
1	Valve box	" 10.00	10 00	270 65
<u>SHERBROOKE STREET</u> (FROM WOOD AVE. TO GREENE AVE. & FROM CLARKE AVE. TO KENSINGTON AVE.)				
360	ft. of 6" pipe laid	at 0.92	331 20	
1	6" valve	" 23.00	23 00	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	
965	ft. of 12" pipe laid	" 2.20	2123 00	
1	6" valve	" 23.00	23 00	
1	Valve box	" 10.00	10 00	2570 20
	CARRIED OVER			\$5348 25

COTE ST ANTOINE (Continued)

Quants.	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$5348 25</b>
	<b>COTE ST. ANTOINE ROAD. (FROM KENSINGTON AV. TO LANSDOWNE AV)</b>			
2150	ft. of 12" pipe laid	at 2.20	4730 00	
1	12" valve	" 61.00	61 00	
1	Valve box	" 10.00	10 00	
5	2 nozzle hydrants	" 40.00	200 00	
5	2 " " set	" 10.00	50 00	5051 00
	<b>MONTROSE STREET (FROM ARGYLE TO CHURCHHILL ST)</b>			
585	ft. of 6" pipe laid	at 0.92	538 20	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	588 20
	<b>METCALFE AVE. (FROM HILLSIDE TO ST CATHERINE)</b>			
277	ft. of 4" pipe laid	at 0.70	193 90	
1	4" valve	" 14.25	14 25	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	268 15
	<b>KENSINGTON AVE. (FROM SHERBROOKE TO COTE ST ANTOINE ROAD)</b>			
454	ft. of 12" pipe laid	at 2.20	998 80	
1	12" valve	" 61.00	61 00	
1	Valve box	" 10.00	10 00	1069 80
	<b>CHURCHHILL STREET (FROM COTE ST. ANTOINE ROAD TO MONTROSE)</b>			
626	ft. of 6" pipe laid	at 0.92	575 92	
1	6" valve	" 23.00	23 00	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40.00	
1	2 " " set	" 10.00	10 00	658 92
	<b>CARRIED OVER</b>			<b>\$12984 32</b>



COTE ST ANTOINE (Continued)

Quants.	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$12984 32</b>
	<b>ARGYLE STREET</b> (FROM COTE ST ANTOINE ROAD TO MONTROSE)			
1010	ft. of 4" pipe laid	at \$0.70	707 00	
1	4" valve	" 14.25	14 25	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	781 25
	<b>HALLOWELL STREET</b> (FROM DORCHESTER TO ST. CATHERINE)			
293	ft. of 4" pipe laid	at 0.70	205 10	
1	4" valve	" 14.25	14 25	
1	valve box	" 10.00	10 00	229 35
	<b>CLARKE AVE. (FROM ST. CATHERINE TO SHERBROOKE)</b>			
600	ft. of 14" pipe laid	at 2.50	1500 00	
900	ft. of 20" pipe laid	" 4.90	4410 00	
1	14" valve	" 90.00	90 00	
1	20" valve	" 225.00	225 00	
2	Valve boxes	" 10.00	20 00	6245 00
	<b>OLIVER ST. (FROM WESTERN AVE. TO SHERBROOKE STREET)</b>			
820	ft. of 4" pipe laid	at 0.70	574 00	
1	4" valve	" 14.25	14 25	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	648 25
	<b>GREENE AVE. (FROM ST ANTOINE ST. TO ST CATHERINE ST.)</b>			
1430	ft. of 14" pipe laid	at 2.50	3575 00	
2	14" valves	" 90.00	180 00	
2	Valve boxes	" 10.00	20 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	3825 00
	<b>CARRIED OVER</b>			<b>\$24713 17</b>

COTE ST ANTOINE (Continued)

Quants.	Description of Work & Material	Rates	Amounts	Totals
	<b>BROUGHT FORWARD</b>			<b>\$24713 17</b>
	<b><u>KLM AVE. (FROM ST. CATHERINE TO NORTH OF WESTERN AVE.)</u></b>			
490	ft. of 4" pipe laid	at \$0.70	343 00	
1	4" valve	" 14.25	14 25	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 40.00	40 00	
1	2 " " set	" 10.00	10 00	417 25
	<b><u>WOOD AVE. (FROM ST CATHERINE TO SHERBROOKE STREET)</u></b>			
1100	ft. of 6" pipe laid	at 0.92	1012 00	
1	6" valve	" 23.00	23 00	
1	Valve box	" 10.00	10 00	
2	2 nozzle hydrants	" 40.00	80 00	
2	2 " " set	" 10.00	20 00	1145 00
	<b><u>PRIVATE SERVICES</u></b>			
228	Services	at 15.00	3420 00	3420 00
	<b><u>CARTAGE</u></b>			
503	Tons of cartage	at 1.50	754 50	754 50
	<b><u>ROCK EXCAVATION</u></b>			
	None			
	<b><u>SPECIALS</u></b>			
5.36	Tons of Specials	at 55.00	294 80	294 80
	<b>T O T A L</b>			<b>\$30744 72</b>



DETAIL OF SPECIALS FOR EACH STREET

DORCHESTER STREET

2 Specials at 80 lbs each                      160 lbs

HILLSIDE STREET

2 Specials at 80 lbs. each                      160 "

ST. CATHERINE ST.

3 Specials at 400 lbs each                      1200 "

SUMMERVILLE

None

MELBOURNE ST.

None

COTE ST ANTOINE ROAD

3 Specials at 120 lbs                      360 "  
11 " " 300 "                      3300 "

SHERBROOKE STREET

2 Specials at 300 lbs                      600 "

MONTROSE STREET

3 Specials at 110 lbs                      330 "

METCALF AVE.

2 Specials at 80 lbs                      160 "

KENSINGTON AVE.

None

CHURCHHILL ST.

1 Special at 80 lbs.                      80 "

CARRIED OVER                      6350 lbs.

COTE ST ANTOINE (Continued)

	<b>BROUGHT FORWARD</b>	<b>6350 lbs.</b>	
<u>ARGYLE STREET</u>			
1 Special at 80 lbs		80 "	
<u>HALLOWELL STREET</u>			
1 Special at 80 lbs		80 "	
<u>CLARKE AVE.</u>			
1 Special at 1000 lbs		1000 "	
1 " " " 650 "		650 "	
<u>OLIVER STREET</u>			
2 Specials at 80 lbs		160 "	
<u>GREENE AV.</u>			
1 Special at 110 lbs		110 "	
4 " " " 400 "		1600 "	
<u>ELM AV.</u>			
3 Specials at 80 lbs		240 "	
<u>WOOD AV.</u>			
4 Specials at 110 lbs		440	
		-----	
		<b>10710 lbs</b>	
		<b>5.36 tons</b>	
<u>VALVE BOXES:</u>			
17 Valve boxes at 150 lbs	2550 lbs		1.26 tons

R E S U M E

<u>CARTAGE:</u>			
Pipes	480 tons		
Hydrants	3.40 tons		
Valves	4.81 "		
Lead	8.22 "		
Specials	5.36 "		
Valve boxes	1.26 "		
	-----		
<u>TOTAL CARTAGE</u>	<u>503.05</u>		
<u>FOR SEPT. ESTIMATE</u>	<u>503</u>	tons	

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— MONTREAL WATER & POWER CO. —

— WORK DONE UP TO OCT. 1st. 1892. —

— TOWN OF COTE ST ANTOINE. —

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MONTREAL WATER & POWER CO.,

TO THE DOMINION CONSTRUCTION CO., LTD. DR.

TO WORK DONE AND MATERIALS				
FURNISHED UP TO OCT.1st.1892.				
St Henry sundries as per detailed Statement		29,739	22	
✓ St Cunegonde " " " "		6,366	69	
St Paul " " " "		14,401	65	
St Antoine " " " "		35,720	12	
St Louis du Mile End " "		17,473	47	
✓ St Louis (60) " " "		3,726	72	
Canal Crossing as per Statement		5,947	02	
Reservoir Cote des Neiges "		3,778	00	
✓ St Antoine Pump Station Land		4,200	00	
✓ " Pump		2,150	00	
Work done at Back River as per Statement		1,695	00	
✓ Pipe & specials on hand " "		31,668	75	
	Total			\$156,866 64

MONTREAL, OCT.1st.1892.

COTE ST ANTOINE

7770 feet 4" pipe	1.00	7770 00	
5103 " 6" "	1.24	6327 72	
3607 " 12" "	2.20	7935 40	
1580 " 14" "	2.50	3950 00	
12 4" valves	14.25	171 00	
10 6" "	23.00	230 00	
2 12" "	61.00	122 00	
2 14" "	90.00	180 00	
25 Hydrants	50.00	1250 00	
26 Valve boxes	10.00	260 00	
228 Services	15.00	3420 00	
228 Meters	18.00	4104 00	\$35,720.12

ST HENRY:

5598 feet 4" pipe	1.00	5598 00	
1875 " 5" "	1.24	2325 00	
4638 " 8" "	1.44	6678.72	
2410 " 12" "	2.20	5302 00	
192 " 14" "	2.50	480 00	
14 4" valves	14.25	199 50	
6 6" "	23.00	138 00	
5 8" "	23.00	165 00	
3 12" "	61.00	183 00	
10 Hydrants	50.00	500 00	
28 valve boxes	10.00	280 00	
526 Services	15.00	7890 00	\$29,739.22



COTE ST PAUL:

4607 feet 4" pipe	1.00	4607 00	
2666 " 6" "	1.24	3305 84	
469 " 8" "	1.44	675 36	
2020 " 10" "	1.70	3434 00	
671 " 12" "	2.20	1476 20	
5 4" valves	14.25	71 25	
4 6" "	23.00	92 00	
1 8" "	33.00	33 00	
1 10" "	47.00	47 00	
11 Hydrants	50.00	550 00	
11 Valve boxes	10.00	110 00	\$14,401 69

COTE ST LOUIS

Vermette Contract		525 72	
97 Services	15.00	1455 00	
97 Meters	18.00	1746 00	3,726 72

ST LOUIS DU MILE END

2517 feet 4" pipe	1.00	2517	
3299 " 6" "	1.24	4090 76	
1735 " 10" "	1.70	2949 50	
503 " 12" "	2.20	1106 60	
1243 " 16" "	3.27	4064 61	
4 4" valves	14.25	57 00	
4 6" "	23.00	92 00	
2 10" "	47.00	94 00	
1 16" "	112.00	112 00	
3 Hydrants	50.00	150 00	
11 Valve boxes	10.00	110 00	
142 Services	15.00	2130 00	\$17,473 47

ST CUREGONDE:

9 feet 4" pipe	1.00	9 00	
3 " 6" "	1.24	3 72	
1113 " 8" "	1.44	1602 72	
1 4" valve	14.25	14 25	
1 6" "	23.00	23 00	
3 8" "	33.00	99 00	
1 Hydrant	50.00	50 00	
5 Valve boxes	10.00	50 00	
301 Services	15.00	4515 00	\$6366 69

PIPE & SPECIALS ON HAND SEPT.30, '92

661,691 tons pipe

37.00 24482 58

95,783 lbs. specials

2 $\frac{1}{2}$ c 2634 17 \$27,116 75

HYDRANTS: ON HAND SEPT.30th.1892:

35 Hydrants

40.00 \$1400 00

VALVES & VALVE BOXES:

ON HAND SEPT. 30th.1892.

V A L V E S

3 20" valves

225.00 675 00

5 16" "

112.00 560 00

3 12" "

61.00 438 00

8 10" "

47.00 376 00

6 8" "

33.00 198 00

28 6" "

23.00 644 00

12 4" "

14.25 171 00

4 set valve boxes

10.00 40 00 \$3152 00

S T H E N R Y

STATEMENT OF PIPE LAID UP TO SEPTEMBER 30th. 1892

Street	No. of ft.	Size	
✓ Workman	743	4"	
✓ St. Emelie	484	"	5598 ft. 4" pipe
✓ Albert	18	"	1875 " 6" "
✓ Lisgar	170	"	4638 " 8" "
✓ St. James	1589	8"	2410 " 12" "
"	11	4"	92 " 14" "
✓ Annie	796	6"	-----
✓ St Antoine	302	4"	14713
"	1006	6"	
"	1577	8"	
"	192	14"	
✓ Brodie	99	4" 99	
✓ Metcalf	542	"	14 - 4" valves
✓ Beaudoin	309	"	6 - 6" "
✓ St Joseph	180	"	5 - 8" "
✓ Willie	670	"	3 - 12" "
Ingersoll Rock Drill	140	"	
✓ Albert	864	"	
✓ Bethune	350	3"	28 Valve boxes
"	3	4"	
Notre Dame	10	8"	
✓ Turcot Village N.D.St.	245	4"	10 Hydrants
✓ St Ambréise	58	"	
"	1321	12"	
✓ Park	148	4"	
Agnes	6	"	
✓ Atwater Ave.	1112	3"	
"	60	6"	
✓ Robertson	106	4"	
Bourget	13	6"	
✓ Rose de Lima	1089	12"	
	14713	feet	

COTE ST ANTOINE

STATEMENT OF PIPE LAID UP TO SEPTEMBER 30th.1892.

Street	No. of ft.	Size	
✓ Metcalfe	430	4"	
✓ Hillside	378	4"	
✓ Wood	222	6"	
"	3½	4"	7770 ft. 4" pipe
✓ Sherbrooke	3600½	6"	5103 " 6" "
✓ Lansdowne	942½	4"	3607 " 12" "
✓ Victoria	1724	"	1580 " 14" "
✓ Elm	496½	"	-----
✓ Greene	22½	"	18060
"	8	6"	12 - 4" valves
"	1350	14"	10 - 6" "
✓ Dorchester	203	4"	2 - 12" "
Hallowell	293	"	2 - 14" "
Oliver	743	"	
✓ Argyle	1024	"	
Montrose	541	6"	
✓ Churchhill	610	"	
"	20	4"	25 hydrants
✓ Western	330	"	
Cote St. Ant: Rd.	58	6"	26 valve boxes
"	42	4"	
"	2277	12"	
Montreal A.A. Ass. Grounds	27	4"	
✓ Sommerville	336½	"	
Clandeboye	26	6"	
✓ Melbourne	318½	4"	
Kensington	37½	4"	
"	46	4"	
"	437	12"	
Nuns Field, Sherbrooke St.	393	"	
Weredale Park	390	4"	
✓ St Catherine	250	14"	
	<u>18060 feet</u>		

ST LOUIS DU MILE END

STATEMENT OF PIPE LAID UP TO SEPTEMBER 30th.1892.

Street	No. ft.	Size	
St Louis	1243	16"	
Hypolite	737	6"	
St Dominique	2043	4"	2517 ft. 4" pipe
			3299 " 6" "
✓ Cadieux	474	"	1735 " 10" "
			503 " 12" "
↓ Stewart	1487 $\frac{1}{2}$	6"	1243 " 16" "
			-----
✓ Fortin	86 $\frac{1}{2}$	"	9297
↓ St Joseph	213	"	4 - 4" valves
			4 - 6" "
↓ St Lawrence Main	1435	10"	2 - 10" "
			1 - 16" "
↓ Robin	300	"	
✓ Mount Royal Ave:	503	12"	11 Valve boxes
	9297	feet	3 Hydrants

ST GUNEGONDE

STATEMENT OF PIPE LAID UP TO SEPTEMBER 30th.1892.

Street	No. of Ft.		
Vinet	340	8"	
"	3	6"	9 ft. 4" pipe
			3 " 6" "
Quesnel	773	8"	1113 " 8" "
			1125
	9	4"	
	1125	feet	1 - 4" valve
			1 - 6" "
			3 - 8" "
			5 Valve boxes
			1 Hydrant

C O T E S T P A U L

STATEMENT OF PIPE LAID UP TO SEPTEMBER 30th.1892.

Street	No. of ft.	Size	
✓ Angus	340	6"	
"	360	8"	
"	671	12"	
✓ Workman	37	4"	
"	950	10"	4607 ft 4" pipe
✓ Mill	318	10"	2666 " 6" "
✓ Dufferin	12	4"	469 " 8" "
"			2020 " 10" "
"			671 " 12" "
"	1326	6"	----- 10433
"	288	10"	
✓ Archibald	12	4"	5 - 4" valves
"	264	10"	4 - 6" "
✓ Molson	1030	4"	1 - 10" "
✓ Cote St Paul Rd:	10	"	1 - 8" "
"	900	6"	
"	200	10"	11 valve boxes
✓ Frothingham	500	4"	11 Hydrants
"	100	6"	
"	85	8"	
✓ Maisonneuve	1837	4"	
✓ Hadley	609	4"	
Canal Front	24	8"	
✓ Eddie	560	4"	
	<b>10433 feet</b>		

PIPE & SPECIALS ON HAND, SEPT.

262 lengths	20" pipe	3	20" Valves
19 "	16" "	5	16" "
348 "	14" "	8	12" "
171 "	12" "	8	10" "
65 "	10" "	6	8" "
166 "	8" "	28	6" "
429 "	6" "	10	4" "
127 "	4" "		4 sets valve boxes
			35 hydrants

SEPTEMBER 30th. 1892.

Pipe on hand	661,691 tons at 37.00	\$24432.58
Specials	95783 lbs at 2½c	2634.17
35 hydrants	at \$40.00	1400.00
4 sets valve boxes	at \$10.00	40.00
3 - 20" valves	at 225.00	675.00
5 - 16" "	at 112.00	560.00
8 - 12" "	at 61.00	488.00
8 - 10" "	at 47.00	376.00
6 - 8" "	at 33.00	198.00
28 - 6" "	at 23.00	644.00
12 - 4" "	at 14.25	171.00
		<u>\$31668.75</u>



MONTREAL, Oct. 1st. 1892

G.T. KEITH ESQ.,

CHIEF ENG. DOMINION CONSTRUCTION CO.

Dear Sir,

I hereby beg to report that the amount of work done to date at the Back River Water Power amounts to the sum of sixteen hundred and ninety-five dollars (\$1695.00) as per annexed statement.

Yours truly,

*James Laurin*  
*Eng in Charge*

*2d Copy.*

P49/E2,3

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W.S. & J. B. REBERT  
MONTRÉAL

WORK DONE AT BACK ROVER TO OCTOBER 1st. 1892.

-----

2 acres of clearing	at \$100.	200.00
70 cords of wood for boilers, carted and corded up - - - - -	at \$2.50	175.00
1 forge, tool house & office		250.00
Demolishing old Mill, taking out machinery, etc - - - - -		300.00
Surveys & soundings		500.00
1 Cofferdam 40 feet long		200.00
200 C. Yds. Excavation	at \$0.35	70.00
		-----
		\$1695.00

Montreal, Oct. 1<sup>st</sup> 1892

James Laurin  
Eng. in Charge

2<sup>d</sup> Copy.

P49/E2,3

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*odd copy*  
*Duplicate copy*  
*Receipt returns for work done*  
*up to 02/01/92*

*[Faint, mostly illegible text and numbers, possibly a ledger or account book, with some numbers like 100.00, 200.00, 300.00, 400.00, 500.00, 600.00, 700.00, 800.00, 900.00, 1000.00 visible.]*

(Copy)

MONTREAL WATER & POWER CO.

TO WORK DONE UP TO NOV.1st.1892.

St Henry as per detailed statement	38027	97	✓	
Cote St Antoine " "	53702	30	✓	
Cote St.Paul " " "	23875	47	✓	
St Louis of Mile End as per detailed statement - - - - -	30854	24	✓	
Cote St.Louis as per detailed statement	1980	72	✓	
Back River " " "	4956	73	✓	
High level Reservoir " "	5503	50	✓	158900 93
To be added - paid on Acct.plant purchased per statement Sept.1st.1892	176532	84		
do - do - for land & water power acquired as per statement Sept. 1st.1892 - - - - -	85100	00		
To Acc. paid on Maisonneuve plant on Nov. 7th. 1892 as per receipt	2000	00		263632 84
Total up to Nov.1892				422533 77
Less estimate of Nov.7th.1892				383925 58
October estimate				\$38608 19
Certified to be correct, Montreal Nov.16th.1892.				
— J.E.VANIER, — CHIEF ENG.M.W. & P.CO.				
A true Copy of the original.				
— J.E.VANIER. —				

TOWN OF COTE ST ANTOINE

WORK DONE FROM START TO NOV.1st.1892.

As per Estimate of September				30744	72
Work done from Oct.1st.to Nov.1st.1892 as follows:					
<b>VICTORIA AVE.- Laid in 1891 not previously included (from North of St.Catherine to Sher- brooke St.</b>					
1051	of 4" pipe laid	at	0.70	735	70
1	4" valve laid	"	14.25	14	25
1	Valve box	"	10.00	10	00
				759	95
<b>SHERBROOKE ST. (FROM KENSINGTON TO VICTORIA AVE) LAID IN 1891.</b>					
2400	ft. of 6" pipe	at	0.92	2208	00
3	6" valves laid	"	23.00	69	00
2	2 nozzle hydrants	"	40.00	80	00
	Setting 2 hydrants	"	10.00	20	00
				2377	00
<b>LANSDOWNE AVE. (FROM WESTERN AVE. TO SHERBROOKE STREET)</b>					
942	ft. of 4" pipe laid in 1891	at	0.70	659	40
				659	40
<b>LANSDOWNE AVE. (FROM WESTERN AVE. TO NORTH OF SHERBROOKE).</b>					
1400	ft. of 12" pipe laid	at	2.20	3080	00
2	2 nozzle hydrants laid	"	40.00	80	00
	Setting of 2 hydrants	"	10.00	20	00
				3180	00
CARRIED OVER				\$37721	07

TOWN OF COTE ST. ANTOINE (CONTINUED)

BROUGHT FORWARD				\$37721 07	
<b>WESTERN AVE. (FROM GREENE AVE. TO OLIVER ST.) LAID IN 1891.</b>					
330	ft. of 4" pipe laid	at	0.70	231 00	
1	4" valve laid	"	14.25	14 25	
1	Valve box laid	"	10.00	10 00	
1	2 nozzle hydrant	"	40.00	40 00	
	Setting 1 hydrant	"	10.00	10 00	305 25
<b>CLARKE AVENUE (FROM SHERBROOKE NORTHWARDS)</b>					
800	ft. of 20" pipe laid	at	4.90	3920 00	3920 00
<b>MT. PLEASANT BOULEVARDE (FROM CLARKE AVE. EASTWARDS)</b>					
700	ft. of 20" pipe laid	at	4.90	3430 00	3430 00
12	Private Services laid	at	15.00	180 00	180 00
282.42	Tons of Cartage of pipe & other materials	at	1.50	423 63	423 63
2549	Cubic Yds. of Rock Excavation	at	3.00	7647 00	7647 00
1.37	Tons of Specials	at	55.00	75.35	75 35
TOTAL				\$53702 30	

TOWN OF COTE ST. ANTOINE

DETAILED CALCULATION OF CARTAGE.

20"	16"	14"	12"	10"	8"	6"	4"
800			1400		2400	2400	1051
700							942
							330
1500'			1400'			2400'	2323'

20" - 1500' x 202 lbs.      303000 lbs  
 12" - 1400' x 85 "      119000 "  
 6" - 2400' x 33 "      79200 "  
 4" - 2323' x 21 "      48783 "

-----  
 TOTAL                      549983 "

274.99 tons

5 Hydrants at 400 lbs.      2000 lbs

1.00 "

2 - 4" valves at 50 lbs.      100 lbs  
 3 - 6" " " 80 "      240 "  
 5 - valve boxes " 150 "      750 "

-----  
 TOTAL                      1090 "

0.55 "

LEAD:

20" - 125 lengths at 30 lbs      3750 lbs  
 12" - 127 " " 18 "      2286 "  
 6" - 200 " " 9 "      1800 "  
 4" - 194 " " 6 "      1164 "

-----  
 TOTAL                      9000 "

4.50

Carried over

281.04 tons

TOWN OF COTE ST. ANTOINE.

BROUGHT FORWARD

281.04 tons

DETAIL OF SPECIALS FOR EACH STREET.

VICTORIA AVENUE.

4 Specials of 130 lbs.	520 lbs.		
------------------------	----------	--	--

SHERBROOKE STREET.

4 Specials of 185 lbs	740 "		
2 " " 476 "	952 "		

LANSDOWNE AVENUE

1 Special at 570 lbs	570 lbs.		
----------------------	----------	--	--

2782 "	1.38 tons
--------	-----------

R E S U M E

CARTAGE

Pipes - - - - -	274.99 tons
Hydrants - - - - -	1.00 "
Valves & Valve boxes -	0.55 "
Lead - - - - -	4.50 "
Specials - - - - -	1.38 "

Total Cartage for Oct. Estimate	282.42 tons
------------------------------------	-------------



TOWN OF COTE ST. ANTOINE

ROCK EXCAVATION

CLARKE AVE. (FROM SHERBROOKE TO MT. PLEASANT BOULEVARD)

5' 6" x 4' 0"			
-----	1470 x 7"	48877 C. ft	1810 C.Yds.
2			

MOUNT PLEASANT BOULEVARD.

5' 6" x 4' 0"			
-----	x 700' x 6' 10"	19950 C.ft.	739 C.Yds.
2			

Total Rock Excavation			2549 C.Yds.
-----------------------	--	--	-------------

TOWN OF ST. HENRY

WORK DONE FROM THE START TO NOVEMBER 1st. 1892.

	As per estimate to October 1st.				32874 98
	<u>WORK FROM OCTOBER 1st.</u> <u>TO NOVEMBER 1st.</u>				
	<u>ST AMBROISE STREET</u> (FROM FERDINAND TO GAREAU)				
1564	ft. of 12" pipe laid	at \$2.20	3440 80		
1	12" valve complete	" 61.00	61 00		
1	Valve box	" 10 00	10 00		
2	Nozzle hydrants	" 40.00	80 00		
	Setting 2 hydrants	" 10.00	20 00		3611 80
	<u>GAREAU STREET</u> (FROM ST. AMBROISE NORTHWARDS)				
400	ft. of 14" pipe laid	at 2.50	1000 00		1000 00
	<u>PRIVATE SERVICES</u>				
19	Private services	at 15.00			285 00
	<u>ROCK EXCAVATION</u>				
	None				
92 67-100	Tons of cartage of pipe and other material	at 1.50	139 04		139 04
2 13-100	Tons of Specials	at 55.00	117 15		117 15
	Total up to date				\$38027 97

TOWN OF ST. HENRY.

DETAILED CALCULATION OF CARTAGE.

	14"	12"			
	400'	1564'			
14" 400' x 110			44000		
12" 1564 x 85			132940		
			176940	lbs.	88.47 tons
2 Hydrants at 400 lbs.			800		0.40 "
1 - 12" valve 200 lbs			200		0.10 "
 <b><u>LEAD</u></b>					
14" - 34 lengths x 21 lbs			714	lbs.	
12" - 130 " x 18 lbs.			2340	"	
			3054		1.52
 <b><u>VALVE BOXES:</u></b>					
1 valve box x 150 lbs			150		0.07
 <b><u>DETAIL OF SPECIALS FOR EACH STREET</u></b>					
<b><u>ST AMBROISE ST.</u></b>					
6 specials x 500 lbs			3000		
1 " x 950 "			950		
1 " x 318 "			318		
			4268		2.13
					92.69 tons

RESUME OF CARTAGE.

Pipes	88.47	tons
Hydrants	0.40	"
Valves	0.10	"
Lead	1.52	"
Valve boxes	0.07	"
Specials	2.13	"
	92.69	Tons
Total Cartage		
for estimate 92.69 Tons.		

VILLAGE OF ST. LOUIS DU MILE END

WORK DONE FROM THE START TO NOV. 1st. 1892.

As per Estimate of Sept. 1892				\$26838 85	
<b>WORK DONE IN OCTOBER 1892</b>					
<b>ROBIN ST. (FROM END OF PIPE, SEPT. ESTIMATE NORTHWARD)</b>					
170	ft. of 10" pipe laid	at 1.70	289 00		
1	10" Valve laid	" 47.00	47 00		
1	Valve box "	" 10.00	10 00	346 00	
<b>CADIEUX STREET</b>					
<b>(BETWEEN MT. ROYAL &amp; FORTIER)</b>					
436	ft. of 4" pipe laid	" .70	305 20		
1	4" Valve laid	" 14.25	14 25		
1	Valve box	" 10.00	10 00	329 45	
<b>ST. LAWRENCE STREET</b>					
<b>(FROM FORTIER SOUTH)</b>					
268	ft. of 10" pipe laid	at 1.70	455 60		
1	2 nozzle hydrant	" 40.00	40 00		
	Setting 1 hydrant	" 10.00	10 00	505 60	
<b>PRIVATE SERVICES</b>					
178	Private Services laid	at 15.00	2670 00	2670 00	
19.98	Tons of Cartage of pipes & other materials	at 1.50	29 97	29 97	
38.74	Cubic yds. of Rock Excavation	" 3.00	116 22	116 22	
0.33	Tons of Specials	" 55.00	18 15	18 15	
T O T A L				\$30854 24	

VILLAGE OF ST. LOUIS DU MILE END.

DETAILED CALCULATION OF CARTAGE

	20"	16"	14"	12"	10"	8"	6"	4"
					170'			436
					268			
TOTAL LENGTH					438'			436'

10" - 438 at 65 lbs. 28470 lbs  
 4" - 436 " 21 " 9156 "  
 -----  
 Total 37626 " 18.81 tons

1 Hydrant at 400 lbs 0.20 "

1 - 10" valve at 170 lbs.  
 1 - 4" " at 50 "  
 -----  
 Total 220 " 0.11 "

LEAD:

10" - 36 lengths at 15 lbs 540 lbs.  
 4" - 36 " " 6 " 216 "  
 -----  
 Total 756 " 0.38 "

DETAIL OF SPECIALS FOR EACH STREET

ST LAWRENCE ST.

1 Special of 420 lbs. 420 lbs. 0.21 tons  
 -----  
 Carried over 0.21 "

VILLAGE OF ST. LOUIS DU MILE END.

Brought forward 0.21 tons

Cadieux Street.

2 specials at 115 lbs. 230 lbs 0.12 "

Total 0.33 "

VALVE BOXES:

2 Valve boxes at 150 lbs. 300 lbs. 0.15 tons

RESUME OF CARTAGE.

Pipes	18.81	tons
Hydrants	0.20	"
Valves	0.11	"
Lead	0.38	"
Specials	0.33	"
Valve boxes	0.15	"
Total cartage for Oct.	19.98	tons

VILLAGE OF ST. LOUIS DU MILE END.

ROCK EXCAVATION

ST. LAWRENCE STREET.

3.61 x 3.33 ----- 2	x 1.02 x 130	460.12	c. ft	17.04	C.Yds.
---------------------------	--------------	--------	-------	-------	--------

3.52 x 3.33 ----- 2	x 0.69 x 93	219.72	"	8.14	C.Yds.
---------------------------	-------------	--------	---	------	--------

ROBIN STREET

3.56 x 3.33 ----- 2	x 0.83 x 105	300.30	"	11.12	C.Yds.
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3.49 x 3.33 ----- 2	x 0.57 x 34	66.08	"	2.44	C.Yds.
---------------------------	-------------	-------	---	------	--------

Total Rock Excavation for October				38.74	C.Yds.
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TOWN OF COTE ST LOUIS

WORK DONE SINCE PURCHASE

Quants.	Description of Work & Material	Rates	Amounts	Totals
	<u>VERMETTE CONTRACT</u>			
	(Extensions of pipe on St Louis from Carrier to College)		525 72	
	<u>PRIVATE SERVICES</u>			
97	Private services	at 15.00	1455 00	1980 72
	<u>BACK RIVER</u>			
2	Acres of clearing	at 100.00	200 00	
4000	C.Yds. excavation	" 0.50	2000 00	2200 00
	<u>HIGH LEVEL RESERVOIR</u>			
7556	C.Yds. of excavation	at 0.50	3778 00	3778 00
	TOTAL			<u>\$7958 72</u>



DOMINION CONSTRUCTION CO. (LIMITED)

MONTREAL, NOV. 2nd. 1892.

APPROXIMATE ESTIMATE OF WORK DONE

AT RESERVOIR UP TO OCT. 31st. 1892.

Excavation of bottom	11007	C.Yds			
Stripping & Trenches	4814	"			
Pipe ditch	522	"			
Borrow pit at Cemetery	3733	"			
	-----				
	20076	"	10038	00	
Puddle	2133	C.Yds	5332	50	15370 50

NOTA: Allowed Nov. 16th. for Oct  
 Estimate 11007 c.yds.  
 Rock Excavation of bottom at 50

5503 50

MONTREAL WATER & POWER CO.

OCTOBER ESTIMATE OF WORK DONE.

PURCHASE OF MAISONNEUVE PLANT

Paid on Acct. of purchase of

actual plant, 7th.Oct.1892.

\$2000	00
--------	----

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1	2	3	4	5	6	7
---	---	---	---	---	---	---

MONTREAL, November 7th.1892.

\$2000.00.

Received from Montreal Water & Power Co. the sum  
of two thousand dollars on account of the purchase price of  
the water plant at Maisonneuve.

THE TOWN OF MAISONNEUVE

PER

(SIGNED) M.G.

True copy of the original.

J.E.VANIER,

C.E.M.W.& P.CO.

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MONTREAL WATER & POWER CO.

WORK DONE AT BACK RIVER SINCE SEPTEMBER ESTIMATE

TOTAL WORK DONE IN EARTH EXCAVATION  
AT PERRY'S ISLAND SINCE THE START  
TO NOVEMBER 1st.

Section B x 30 to C	548.00	C.Yds.		
" C to D	1568.00	"		
" D " E	1243.50	"		
" E " F	1121.71	"		
" F " G	1167.65	"		
" G " H	722.36	"		
" H " I	439.26	"		
" I " J	396.44	"		
" J " K	553.12	"		
" K " L	634.50	"		
" L " M	582.28	"		
" M " N	536.64	"		
	-----			
Total to Nov.1st.	9513.46	at	0.50	4756 73
2 Acres of cleaning (Sept.Estimate)		"	100.00	200 00
<b>Total work done from start up to Nov. 1st. 1892</b>				4956 73
Less amount of Sept.Estimate				2200 00
<b>Oct. Estimate nett</b>				<b>\$2756 73</b>

WORK DONE AT BACK RIVER SINCE SEPTEMBER ESTIMATE

TOTAL WORK DONE IN EARTH EXCAVATION  
AT FERRY'S ISLAND SINCE THE START  
TO NOVEMBER 1st.

Section B x 30 to 0	0 to 30 Yds.
" " C to D	1568.00
" " D " E	1242.50
" " E " F	1121.71
" " F " G	1167.62
" " G " H	722.28
" " H " I	439.28
" " I " J	398.44
" " J " K	223.12
" " K " L	624.50
" " L " M	222.28
" " M " N	226.64
	-----
Total to Nov. 1st.	9212.46
Less amount of Sept. Estimate	100.00
Total work done from start up to Nov. 1st. 1922	4756.73
Less amount of Sept. Estimate	2300.00
Oct. Estimate net	\$2756.73

*Montreal Water Power Co.*  
*Work done up to Nov 1st 1922*

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P49/E2,3

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MONTREAL WATER & POWER CO.

WORK DONE UP TO NOV.1st.1892.

J.E.VANIER - CHIEF ENG.

M. W. & P.CO.

Montreal Water & Power Co

To Dominion Construction Co. Ltd

copy

To work done to Oct 1/92:

St. Maurice	for detailed statement	32874.98
Cote St. Louis	do	23875.47
Cote St. Antoine	do	30744.72
St. Louis du Mile End	do	26838.85
Cote St. Louis	do	1980.72
Back River	do	2200
High level reservoir	do	3778.00

122292.74

To be added - paid on of plant purchased for statements Sept 1<sup>st</sup> 1892

176532.84

do do for land & water power acquired as per statements Sept 1<sup>st</sup> 1892

85100.00 261632.84

383925.58

Certified to be correct  
 Montreal Nov 7<sup>th</sup> 1892  
 J. Emile Dancie  
 Chief Eng Montreal Water & Power Co  
 True copy of the original  
 No.

476

# Montreal Water Power Co.

To work done up to Nov. 1<sup>st</sup> 1892.

Dr Henry as per detailed statement	38027.97	
Cote St Antoine " " "	53702.30	
Cote St Paul " " "	23875.47	
St Louis of Mile End " " "	30854.24	
Cote St Louis " " "	1980.72	
Back River " " "	4956.73	
High Level Reservoir " " "	5503.50	\$58900.93

To be added - paid on a/c plant purchased per statement Sept. 1<sup>st</sup> 1892

176532.84

do - do - for land & water power - acquired as per statement Sept. 1<sup>st</sup> 1892

85100.00

To a/c paid on lausormeur plant on Nov. 7<sup>th</sup> 1892 as per receipt

2000.00 263632.84

Total up to Nov. 1892.

4422533.77

less estimate of Nov. 7<sup>th</sup> 1892.

383925.58

October estimate =

\$38608.19

certified to be correct  
 Montreal Nov 16<sup>th</sup> 1892  
 J. Emile Demers  
 Chief Eng. M. W. P. Co.  
 true Copy of the original  
 J. Demers



Estimate 16<sup>th</sup> Nov. 92

N<sup>o</sup> 3

P49/E2,3

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Montreal Water & Power Co.

Statement of estimates of work done to Nov 1<sup>st</sup> 1892

		Estimate by Lyche Co.	Estimate by Lyche Co.	Allowed by Mr. St. Jeorje. Reduction made by Mr. St. Jeorje of Lyche Co.
Sept 1 <sup>st</sup>	Estimate for money paid to plants purchased	\$176532 84	176532 84	none
" "	" " property purchased	85100 00	85100 00	"
Nov. 7 <sup>th</sup>	" " work done from start to Oct 1 <sup>st</sup>	186182 26	122292 74	63889 52
" 16	" " " " in October 1892	91539 84	38608 19	52931 65
	<u>Totals</u>	<u>\$539354 94</u>	<u>\$422533 77</u>	<u>116821 17</u>

Total <sup>gross</sup> St Jeorje's estimate allowed to Nov 1<sup>st</sup> 1892 = \$422533 77  
 " " <sup>net</sup> " " " " "  $\frac{2}{3}$  = \$281689 18

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Statement of estimates of  
work done to Nov. 1<sup>st</sup>/92

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MONTREAL WATER & POWER CO.

TO WORK DONE AND PLANTS PURCHASED

UP TO DECEMBER 1st. 1892.

St Henry as per detailed Statement	\$41934	00		
Cote St. Antoine " "	75627	75		
Cote St. Paul " "	26170	47		
St Louis du Mile End "	43280	69		
Cote St. Louis " "	2010	72		
Back River " "	7257	06		
High Level Reservoir (Cote des Neiges) "	9693	87		
Plants & Land Purchased "	267349	99		
Total to Dec. 1st. 1892	\$473304	55		
Less previous estimate	422533	77		
Nett estimate for Nov. 1892	\$50770	78		
Contingencies, Salary of the Chief Engineer of the Montreal Water & Power Co. from 1st. May 1891 to Dec. 1st. 1892 at \$5000 per year - - - - -	\$7916	66	\$58637	44

MONTREAL WATER & POWER CO.

(NOV. ESTIMATE).

Money paid on Acct. of Plants & land  
purchased to Dec. 1892.

To St. Henry amount paid on Acc. to Dec. 1st. 1892	100,000	00
" St Antoine " " " " " "	34,630	09
" Cote St Louis " " " " " "	31,902	75
" Maisonneuve " " " " " "	15,717	15
" Water Power " " " " " "	80,000	00
" Upper level reservoir land " " " "	5,100	00
Total paid to Dec. 1892.	\$267,349	99

TOWN OF ST. HENRY.

	As per estimate to Nov. 1st. 1892		38027 97	
	<u>GARNEAU STREET (FROM ST. AMBROISE NORTHWARDS)</u>			
370	ft. of 14" pipe laid complete at 2.50		925 00	
	(From St Ambroise to Canal Crossing)			
800	ft. of 12" pipe laid complete at 2.20		1760 00	
1	12" Valve laid	" 61.00	61 00	
1	14" valve laid	" 90.00	90 00	
2	Valve boxes laid	" 10.00	20 00	2856 00
	<u>ST AMBROISE STREET.</u>			
1	2 nozzle hydrant laid	at 40.00	40 00	
	Laying 1 hydrant	" 10.00	10 00	50 00
	<u>PRIVATE SERVICES</u>			
54	Private services laid	" 15.00	810 00	810 00
	<u>CARTAGE</u>			
57.39	Tons of Cartage	" 1.50	86 08	86 08
	<u>SPECIALS</u>			
1.89	Tons of Specials	" 55.00	103 95	103 95
	Total to Dec. 1st. 1892.			\$41934 00

TOWN OF COTE ST. ANTOINE

WORK DONE FROM START TO DEC. 1st. 1892

	As per estimate of October 1892			53702	30	\$53702	30	
	Work done in November.							
	<u>LANSDOWNE AVE. (GLEN)</u>							
514	ft 14" pipe laid complete	at 2.50		1285	00	1285	00	
	<u>LANSDOWNE (NORTH OF SHERBROOKE TO COTE ST. ANTOINE ROAD)</u>							
900	ft. of 12" pipe laid complete	" 2.20		1980	00			
1	Hydrant laid, 2 nozzle	" 40.00		40	00			
	Laying 1 hydrant	" 10.00		10	00	2030	00	
	<u>CLARKE AVE. (SHERBROOKE NORTHWARDS TO MOUNT PLEASANT BOULEVARD)</u>							
1105	ft. of 20" pipe laid	" 4.90		5414	50			
4	20" valves laid	" 225.00		900	00			
3	Brick valve pits	" 200.00		600	00			
1	20" pressure Regulator			2200	00			
1	Brick chamber for pressure regulator			500	00			
2	2 nozzle hydrants	" 40.00		30	00			
	Laying 2 hydrants	" 10.00		20	00	9714	50	
	<u>MAIN (FROM BOULEVARD TO RESERVOIR -MOUNT PLEASANT)</u>							
879	ft. of 20" pipe laid complete	" 4.90		4307	10	4307	10	
	<u>GREENE AVENUE:</u>							
1	14" Regulator			1000	00			
2	14" Valves laid	" 90 00		180	00			
1	Large brick pit for regulator			400	00	1580	00	
	CARRIED OVER						\$72613	90

COTE ST. ANTOINE (CONTINUED) NOV. ESTIMATE.

	BROUGHT FORWARD				\$72613 90
	<u>WESTERN AVE. (WEST OF CLARKE AVE)</u>				
9	Ft. of 16" pipe laid complete	at 3.27		29 43	
1	16" Valve laid	" 112.00		112 00	
1	Valve box	10.00		10 00	151 43
	<u>ROCK EXCAVATION IN NOV.</u>				
	<u>MAIN FROM BOULEVARD TO RESERVOIR</u>				
513	Cubic yds. of rock excavation	at 3.00	1539 00		1539 00
	<u>LANSDOWNE AVE.</u>				
141	Cubic yds. of rock excavation	" 3.00	423 00		423 00
	<u>PRIVATE SERVICES</u>				
12	Private services laid	" 15.00	180 00		180 00
	<u>CARTAGE</u>				
279.68	Tons of cartage	" 1.50	419 52		419 52
	<u>SPECIALS</u>				
538	Tons of specials	" 55.00	295 90		295 90
	Total to Dec. 1st. 1892.				\$75627 75



ST. LOUIS DU MILE END (NOV. ESTIMATE)

	As per Estimate of Oct				\$30854 24
	<u>ST LAWRENCE ST. (FROM FORTIN SOUTHWARDS.</u>				
632	Ft. 10" pipe laid complete	at 1.70	1074 40		
1	10" Valve laid	" 47.00	47 00		
1	Valve box laid	" 10.00	10 00		
4	2 Nozzle Hydrants	" 40.00	160 00		
	Laying 4 hydrants	" 10.00	40 00	1331 40	
	<u>ST. DOMINIQUE ST.</u>				
3	2 nozzle hydrants laid	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	150 00	
	<u>GEORGE HYPOLITE STREET.</u>				
350	Ft. of 6" pipe laid complete	" 0.92	322 00		
1	6" Valve laid	" 23.00	23 00		
1	Valve box laid	" 10.00	10 00		
3	2 nozzle hydrants	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	505 00	
	<u>GADIEUX STREET.</u>				
3	2 nozzle hydrants laid	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	150 00	
	<u>STEWART STREET:</u>				
2	6" Valves laid	" 23.00	46 00		
2	Valve boxes	" 10.00	20 00		
3	2 nozzle hydrants	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	216 00	
	<u>ROBIN ST. (FROM ST JOSEPH SOUTHWARDS)</u>				
830	Ft. of 10" pipe laid complete	" 1.70	1411 00		
3	2 nozzle hydrants	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	1561 00	
	CARRIED OVER				\$34767 64

ST. LOUIS DU MILE END (NOV. ESTIMATE) CONTINUED.

	BROUGHT FORWARD			\$34767 64
	<u>MOUNT ROYAL AVE. (FROM ST LAWRENCE TO ST URBAIN ST.)</u>			
550	ft. of 12" pipe laid complete	at 2.20	1210 00	
1	12" Valve laid	" 61.00	61 00	
1	Valve box	" 10.00	10 00	1281 00
	<u>ST. LOUIS ST. (FROM CLARKE WESTWARDS)</u>			
520	ft. of 16" pipe laid complete	" 3.27	1700 40	1700 40
	<u>PRIVATE SERVICES</u>			
30	Private services laid	" 15.00	1200 00	1200 00
	<u>ROCK EXCAVATION</u>			
1292.80	Cu. Yds. of rock excavated in Nov.	3.00	3378 80	3378 80
	<u>CARTAGE</u>			
122.60	Tons of cartage	" 1.50	183 90	183 90
	<u>SPECIALS</u>			
4.89	Tons of specials	" 55.00	268 95	268 95
	Total to Dec. 1st. 1892.			\$43280 69

COTE DES NEIGES (NOV. ESTIMATE)

(RESERVOIR WORK)

UPPER LEVEL RESERVOIR:					
	Excavation of bottom	11007	C.Yds		
	Shipping and trenches	4521	"		
	Puddle Ditch	293	"		
	Pipe trench	523	"		
		-----			
	Total	16344	" at 0.35	5720	40
48	Ft. of 20" pipe laid		" 4.90	235	20
4.85	Tons of Cartage		" 1.50	7	27
	Puddle wall	1146	C.Yds		
	Puddle in pipe trench	75	"		
	" under banks	911	"		
		-----			
	Total	2132	" at 1.75	3731	00
					\$9693 37
	Previous estimate				5503 50
	Total for Nov. Estimate				\$4190 37

BACK RIVER WORKS.

Total work done up to Dec. 1st. 1892

20677	Cub.yds.of earth excavation	at	35 cts.	\$7237 06
	Less previous estimate			4956 73
	Total Nov. Estimate			\$2280 33

TOWN OF COTE ST. LOUIS

(NOV. ESTIMATE)

	As per estimate of Oct. 1892			\$1980 72
2	Private services laid	at	15.00	30 00
	Total to Dec. 1st. 1892			\$2010 72

MONTREAL WATER & POWER CO.

(NOV. ESTIMATE)

To balance of purchase price of plant	
in Town of Maisonneuve - - - - -	\$3717.15

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COTE ST. PAUL (NOV. ESTIMATE).

	As per statement to Nov.1st.1892		\$23875.47
	<u>PRIVATE SERVICES</u>		
153	Private services laid	at 15.00	2295.00
	Total to Dec.1st.1892.		\$26170.47

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MONTREAL WATER & POWER CO.-

*to Dec 1<sup>st</sup>*

NOVEMBER ESTIMATE

J.EMILE VANIER,

CHIEF ENGINEER

*J.Emile Vanier 11/14*

*11/14*



(COPY)

MONTREAL WATER & POWER CO.,

TO DOMINION CONSTRUCTION COY., LTD. DR.

TO WORK DONE TO OCT. 1892.

<u>St. Henri</u>	per detailed statement	32374	98		
<u>Cote St Paul</u>	" " "	23875	47		
<u>Cote St Antoine</u>	" " "	30744	72		
<u>St Louis du Mile End</u>	" " "	26838	85		
<u>Cote St Louis</u>	" " "	1980	72		
<u>Back River</u>	" " "	2200	00		
<u>High Level Reservoir</u>	" " "	3778	00		
				122292	74
To be added - paid on Acct. plant purchased per statement Sept.1st.1892		176532	84		
do do for land & water power acquired as per statement Sept.1st.'92		85100	00	261632	84
				\$383925	58

Certified to be Correct,  
Montreal Nov.7th.1892.

— J. EMILE VANIER, —

— CHIEF ENG. MONTREAL WATER & POWER CO. —

A true copy of the original.

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P49/E2,3

*100 copies*

**MONTREAL WATER & POWER CO.**

**WORK DONE UP TO NOV. 1st. 1892.**

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to be left out

Montreal Water & Power Co.

Measurements of work done, at Upper Level Reservoir  
at Cote Des Neiges  
November 1892.

Quantities of earth excavation

604 cu. yds.	6891 c. yds
66 " "	93 "
398 " "	380 "
197 " "	556 "
67 " "	617 "
255 " "	588 "
556 " "	388 "
528 " "	435 "
463 " "	611 "
419 " "	284 "
119 " "	<u>164</u> "
356 " "	11007 " dug out of centre of Reservoir
516 " "	
537 " "	
509 " "	
400 " "	N. B. Reference to Keith's notes on cross section paper.
433 " "	
453 " "	
15 " "	
<u>100</u> " "	
6891 " "	

1

*Excavation under embankments  
(from A to B.)*

	<i>cut-ft.</i>
$\frac{(23.5+25)+(23.2+25)}{2} \times 10 \times 2 =$	967.0
$\frac{(23.5+25)+(25.7+25)}{2} \times 20 \times 2 =$	1984.0
$\frac{(25.7+25)+(26.1+25)}{2} \times 20 \times 2 =$	2036.0
$\frac{(26.1+25)+(26.4+25)}{2} \times 20 \times 2 =$	2050.0
$\frac{(26.4+25)+(25.1+24.8)}{2} \times 20 \times 2 =$	2026.0
$\frac{(25.1+24.8)+(24+24.2)}{2} \times 20 \times 2 =$	1962.0
$\frac{(24+24.2)+(23+24.2)}{2} \times 20 \times 2 =$	1908.0
$\frac{(23+24.2)+(22.5+24.3)}{2} \times 20 \times 2 =$	1880.0
$\frac{(22.5+24.3)+(24+24)}{2} \times 20 \times 2 =$	1896.0
$\frac{(24+24)+(25.2+24)}{2} \times 20 \times 2 =$	1944.0
$\frac{(25.2+24)+(27+24)}{2} \times 20 \times 2 =$	2004.0
$\frac{12.2 \times 3}{2} \times 2 =$	36.6
$\frac{12.2+12.8}{2} \times 20 \times 2 =$	500.0
<i>Carried over.</i>	<u>21193.60</u>

Brought forward

21193.60

$$\frac{12.8 + 12.1}{2} \times 20 \times 2 = 498.0$$

$$\frac{12.1 + 12.1}{2} \times 20 \times 2 = 484.0$$

$$12 \times 39.6 \times 2 = 950.4$$

$$\frac{(12.1 + 25.6 + 14) + (12.1 + 26 + 14)}{2} \times 20 \times 2 = 2076.0$$

$$\frac{(12.1 + 26 + 14) + (12.4 + 27 + 14)}{2} \times 20 \times 2 = 2110.0$$

$$\frac{(12.4 + 27 + 14) + (13.4 + 27.5 + 14)}{2} \times 20 \times 2 = 2166.0$$

$$\frac{(13.4 + 27.5 + 14) + (13.4 + 27.6 + 14)}{2} \times 20 \times 2 = 2198.0$$

$$\frac{(13.4 + 27.6 + 14) + (13.9 + 29.2 + 14)}{2} \times 20 \times 2 = 2242.0$$

$$\frac{(13.9 + 29.2 + 14) + (14.9 + 30.9 + 14)}{2} \times 20 \times 2 = 2338.0$$

$$\frac{(14.9 + 30.9 + 14) + (16.2 + 32 + 14)}{2} \times 20 \times 2 = 2440.0$$

from B to C

$$\frac{(16.2 + 32 + 14) + (17.8 + 32.1 + 14)}{2} \times 20 \times 2\frac{1}{2} = 3152.5$$

$$\frac{(17.8 + 32.1 + 14) + (20.2 + 32.8 + 14)}{2} \times 20 \times 2\frac{1}{2} = 3272.5$$

$$\frac{(20.2 + 32.8 + 14) + (22.3 + 32.9 + 14)}{2} \times 20 \times 2\frac{1}{2} = 3405.0$$

$$\frac{(22.3 + 32.9 + 14) + (26.5 + 33.4 + 14)}{2} \times 20 \times 2\frac{1}{2} = 3577.5$$

Carried Over. 52103.50. Cabieft.

Brought forward

	52103.50
$\frac{(26.5 + 33.4 + 14) + (29 + 33.4 + 14)}{2} \times 20 \times 2\frac{1}{2} =$	3757.5
$\frac{(29 + 33.4 + 14) + (28 + 33.9 + 14)}{2} \times 20 \times 2\frac{1}{2} =$	3807.5
$\frac{(28 + 33.9 + 14) + (24.5 + 33.4 + 14)}{2} \times 20 \times 2\frac{1}{2} =$	3695.0
$\frac{24.5 + 19}{2} \times 20 \times 2\frac{1}{2} =$	1087.5
$\frac{19 + 16}{2} \times 20 \times 2\frac{1}{2} =$	875.0
$\frac{16 + 11}{2} \times 20 \times 2\frac{1}{2} =$	675.0
$\frac{10 + 11}{2} \times 2\frac{1}{2} =$	137.5

$$31 \times 14 \times 2\frac{1}{2} = 1085.0$$

From A to C.

$\frac{23.3 + 23.1}{2} \times 10 \times 1$	232.0
$\frac{23.1 + 22}{2} \times 20 \times 1$	451.0
$\frac{22 + 22}{2} \times 20 \times 1$	440.00
$\frac{22 + 20.7}{2} \times 20 \times 1$	427.00
$\frac{20.7 + 19.5}{2} \times 20 \times 1$	402.00
$\frac{19.5 + 16.9}{2} \times 20 \times 1$	364.00

Carried over 69539.50<sup>ct</sup>

Brought forward

69539.50 cft.

$$\frac{16.9 + 15}{2} \times 20 \times 1$$

319.0

$$\frac{15 + 15}{2} \times 20 \times 1$$

300.0

$$\frac{15 + 15}{2} \times 20 \times 1$$

300.0

$$\frac{15 + 15}{2} \times 20 \times 1$$

300.0

$$\frac{15 + 14.6}{2} \times 20 \times 1$$

296.0

$$\frac{14.6 + 15.1}{2} \times 20 \times 1$$

297.0

$$\frac{15.1 + 14}{2} \times 20 \times 1$$

291.0

$$14 \times 10 \times 1$$

140.0

$$14.4 \times 16 \times 1$$

230.4

$$\frac{14.4 + 15.3}{2} \times 20 \times 1$$

297.0

$$\frac{15.3 + 16.7}{2} \times 20 \times 1$$

320.0

$$\frac{16.7 + 18.6}{2} \times 20 \times 1$$

353.0

$$\frac{18.6 + 21.6}{2} \times 20 \times 1$$

402.0

$$\frac{21.6 + 21.7}{2} \times 20 \times 1$$

433.0

$$\frac{21.7 + 22}{2} \times 20 \times 1$$

437.0

Carried over 74254.90 cft.

Brought forward

74254.90 ft.

$$21.5 \times 10 \times 1$$

215.0

$$\frac{21+10}{2} \times 1$$

105.0

$$\frac{24+24}{2} \times 16 \times 1$$

384.0

$$\frac{24+24}{2} \times 20 \times 1$$

480.0

$$\frac{24+24}{2} \times 20 \times 1$$

480.0

$$\frac{24+23.5}{2} \times 20 \times 1$$

475.0

$$\frac{23.5+23.5}{2} \times 20 \times 1$$

470.0

$$\frac{23.5+23}{2} \times 20 \times 1$$

465.0

$$\frac{23+22}{2} \times 20 \times 1$$

450.0

$$\frac{22+21.5}{2} \times 20 \times 1$$

435.0

$$\frac{21.5+22}{2} \times 20 \times 1$$

435.0

$$\frac{22+21.5}{2} \times 20 \times 1$$

435.0

$$\frac{21.5+19}{2} \times 20 \times 1$$

405.0

$$\frac{19+22}{2} \times 20 \times 1$$

410.0

Carried over 79898.90 ft.



4

Brought forward

79898.90

$\frac{22+23}{2} \times 20 \times 1$

450.0

$\frac{23+23}{2} \times 20 \times 1$

460.0

$\frac{23+23.5}{2} \times 10$

232.5

$\frac{23.5+27}{2} \times 10$

252.5

$\frac{27+27}{2} \times 20 \times 1$

540.0

$\frac{27+28}{2} \times 20 \times 1$

550.0

1

$\frac{28+28.5}{2} \times 20 \times 2\frac{1}{2}$

1412.5

$\frac{28.5+29}{2} \times 20 \times 2\frac{1}{2}$

1437.5

$\frac{29+30}{2} \times 20 \times 2\frac{1}{2}$

1475.0

$\frac{30+29}{2} \times 20 \times 2\frac{1}{2}$

1475.0

$\frac{29+29.5}{2} \times 20 \times 2\frac{1}{2}$

1462.5

$\frac{29.5+29.5}{2} \times 20 \times 2\frac{1}{2}$

1475.0

$13 \times 8 \times 2\frac{1}{2}$

260.0

$26 \times 21 \times 2\frac{1}{2}$

1365.0

$50 \times 35 \times 2\frac{1}{2}$

4375.0

$360 \times 35 \times 1$

12600.0

Carried over

109721.40 ctt.

Brought forward	109721.4
21 x 35 x 1/2	367.5
39 x 35 x 1/2	682.5
76 x 35 x 1	2660.0
247 x 35 x 1	<u>8645.0</u>
Total	122076.4 Cft.

$122076.5 \div 27 = 4521$  Cub Yds.  
of Excavation in banks.

Excavation in pipe trenches

$$\frac{24+6}{2} \times 12 \times 65 \text{ ft. long} = 433 \text{ Cub. Yds.}$$

Open trenches 90 " "  
Total in pipe trenches 523 Cub. Yds.

South puddle ditch  $250 \times 6 \times 2 = 3000$  cub ft.

" " "  $90 \times 5.5 \times 2 = 990$  " "

West " " "  $165 \times 5.5 \times 2 = 1815$  " "

" " "  $48 \times 5 \times 2 = 480$  " "

East " " "  $76 \times 5.5 \times 1.5 = 627$  " "

" " "  $200 \times 5 \times 1 = 1000$  " "

7912 " "

$7912 \div 27 = 293$  cub. yds.

# Saddle layer, West bank.

$(25-2.5) \times 10 \times 2 =$	450.00	Cub. feet.
$(25-2.5) \times 20 \times 2 =$	900.00	
$(25-2.5) \times 10 \times 2 =$	450.00	
$(25-2.75) \times 10 \times 2 =$	445.00	
$(25-2.75) \times 20 \times 2 =$	890.00	
$(25-2.75) \times 20 \times 2 =$	890.00	
$\left\{ \frac{24.8+24.2}{2} - 2.75 \right\} \times 20 \times 2 =$	870.00	
$\left( \frac{24.2+24.3}{2} - 2.75 \right) \times 40 \times 2 =$	1720.00	
$(24.3 - 2.75) \times 43 \times 2 =$	1853.30	

# South Bank

$(25.6-3) \times 12 \times 2 =$	542.40	
$\left( \frac{25.6+26}{2} - 3 \right) \times 20 \times 2 =$	912.00	
$\left( \frac{26+27}{2} - 3 \right) \times 20 \times 2 =$	940.00	
$\left( \frac{27+27.5}{2} - 3 \right) \times 20 \times 2 =$	970.00	
$\left( \frac{27.5+27.6}{2} - 3 \right) \times 20 \times 2 =$	982.00	
$\left( \frac{27.6+29.2}{2} - 3 \right) \times 17 \times 2 =$	863.6	
$\left( \frac{29.2+30.9}{2} - 3 \right) \times 23 \times 2 =$	1382.3	
$\left( \frac{30.9+32.1}{2} - 3 \right) \times 40 \times 2 =$	1140.00	
$\left( \frac{32.1+32.8}{2} - 3 \right) \times 20 \times 2 =$	1178.00	
$\left( \frac{32.8+32.9}{2} - 3 \right) \times 20 \times 2 =$	1194.00	
$\left( \frac{32.9+33.4}{2} - 3 \right) \times 20 \times 2 =$	1206.	
$\left( \frac{33.4+33.4}{2} - 3 \right) \times 20 \times 2 =$	1216.	
$\left( \frac{33.4+33.9}{2} - 3 \right) \times 20 \times 2 =$	1226.	
$\left( \frac{33.9+33.4}{2} - 3 \right) \times 20 \times 2 =$	1226.	
$(33.4 - 3) \times 19 \times 2 =$	1155.2	
<b>Total</b>	<b>24601.8</b>	Cub. ft.

$$\frac{24601.8}{27} = 911 \text{ cub. yds.}$$

# Rock Excavation.

## Landsdown Cr.

100 long x 2 deep x 4 wide = 800 cu ft.  
 100 " x 4 1/2 " x 4 " = 1800 "  
 100 " x 3 " x 4 " = 1200 "

Total rock to date 3800 c. ft.

= 1470.7 c. yds

## Mount Pleasant Cr.

25 x 1 x 4 = 100 cft.  
 50 x 10 x  $\frac{4+5}{2}$  = 2250 "  
 125 x  $\frac{2+3}{2}$  x 4 = 1250 "  
 100 x 4 x 4 = 1600 "  
 50 x 5 x 4 = 1000 "  
 20 x 6 x 4 = 480 "  
 115 x 12 x  $\frac{4+5}{2}$  = 6210 "  
 50 x 3 x 4 = 600  
 250 x 12.5 x  $\frac{4+9}{2}$  = 20312 "

Total rock to date. 33802 " 33802 cft.

## Boulevard.

= 125.2 c. yds

112 x 3 x 3 1008  
 15 x 5 x 3 225  
 15 x 2 x 3 90  
 37 x 4 x 3 444  
 50 x 3 x 4 600  
 38 x 4 x 4 608  
 27 x 6 x 4 648  
 15 x 1 x 3 45 - 136 c. yds = 3668 cft.

Total rock to date 41270 cft.

Total = 1529 c. yds.

## Saddle Wall.

$6.8 \times \frac{5.5+5}{2} \times 48 =$	1714
$7.6 \times \frac{5.5+5}{2} \times 41 =$	1636
$9.8 \times \frac{6+5.5}{2} \times 251 =$	14144
$6.8 \times \frac{5.5+5}{2} \times 126 =$	4498
$8.4 \times \frac{5.5+5}{2} \times 42 =$	1852
$7.7 \times \frac{5.5+5}{2} \times 10.5 =$	425
$6.9 \times 5 \times 11.5 =$	397
$6.0 \times \frac{4.5+5}{2} \times 23 =$	656
$6.3 \times 5.5 \times 50 =$	1733
$5 \times 5.5 \times 20.5 =$	563
$4.5 \times 5.5 \times 13 =$	322.
$3.0 \times 5 \times 167.5 =$	2428
$3.9 \times 5 \times 28 =$	<u>546</u>

Total 30951 cu. ft.

$$\frac{30.951}{27} = 1146 \text{ cu yds puddle.}$$

Pipe ditch and puddle in bottom, say  
75 yds more - Resume

1146 puddle wall

75 pipe trenches

911 puddle under banks

Total puddle 2132 cu. yds.

Resume

11007 in center

523 pipe trenches

4521 in banks

293 puddle ditches.

2132.

18476 Total excavation in cu. yds.

See left page

Power of St Henry (over estimate)  
Detailed calculation of Cantage

Rings	<u>14"</u>	<u>12"</u>	
	370 ft	800 ft	
14"	370' x 110 =	40700 lbs	
12"	800 x 85 =	68000 "	
	total	<u>108700 lbs</u>	= 54.35 Tons
1 hydrant	at 400 lbs =	400 lbs	= 0.20 "
1-12" valve	200 "	= 200 lbs	
1-14" "	300 "	= 300	
	total	500 lbs	= 0.25 "

Lead

14"	31 lengths x 21 lbs =	651 lbs	
12"	25 " x 18 " =	450 "	
	total	<u>1101 lbs</u>	= 0.55 "

Valve boxes

2 valve boxes	at 150 lbs =	300 lbs	= 0.15 "
---------------	--------------	---------	----------

Specials

General

1 special	at 525 lbs =	525 lbs	
1 "	" 1095 " =	1095 "	
1 "	" 330 " =	330 "	
2 "	" 674 " =	1348 "	
1 "	" 490 " =	490 "	
	total	<u>3788 lbs</u>	= 1.89 "

Resume of cantage for Nov.

Pipes	_____	54.35 Tons
Hydrants	_____	0.20 "
Valves	_____	0.25 "
Lead	_____	0.55 "
Valve boxes	_____	0.15 "
Specials	_____	1.89 "
	total =	<u>57.39 Tons</u>



Whelpton

Town of Cole Harbour (Not estimate)

Detailed calculation of Pipe

<u>20"</u>	<u>16"</u>	<u>14"</u>	<u>12"</u>	<u>10"</u>	<u>8"</u>	<u>6"</u>	<u>4"</u>
1105 ft	9 ft	514 ft	900 ft				
879 "							

total 1984 ft 9 ft 514 ft 900 ft

20" - 1984 x 202 lbs = 400768 lbs

16" - 9 x 133 " = 1197 "

14" - 514 x 110 " = 56540 "

12" - 900 x 85 " = 76500 "

total 575005 lbs = 257.50 tons

3 hydrants at 400 lbs = 1200 " = 0.60 "

4 - 20" valves at 600 " = 2400 lbs

1 - 16" " " 450 " 450 "

2 - 14" " " 300 " 600 "

1 - 20" regulator at 1200 " 1200 "

1 - 14" " " 600 " 600 "

total 5250 lbs = 2.63 "

Lead

20" - 162 lengths x 30 lbs = 4860 lbs

16" - 1 " x 24 " = 24 "

14" - 43 " x 21 " = 903 "

12" - 75 " x 18 " = 1350 "

total 7137 lbs = 3.57 "

Town of Cote St Antoine (Nov estimate).

Specials

Laundromat Ave

1 special at 550 lbs = 550 lbs  
3 " " 500 " = 1500 "  
1 " " 546 " = 546 " 2596 lbs.

Clarke Ave

3 specials at 1250 lbs = 3750 lbs  
1 " " 1620 " = 1620 "  
1 " " 1600 " = 1600 "  
1 " " 1200 " = 1200 " 8170 "  
Total for specials = 10766 lbs  
or = 5.38 tons

Resume of Cartage for November 1892  
in Cote St Antoine

Pipes	—	257.50 tons
Hydrants	—	0.60 "
Valves	—	2.63 "
Lead	—	3.57 "
Specials	—	<u>5.38</u>
Total		<u>279.68 tons</u>

Cote St. Antoine Nov Estim.

### Rock Excavation

#### Landsdown Ave

100' long x 2' deep x 4' wide	=	800 cu ft.
100' " x 4 1/2 " x 4 "	=	1800 " "
100 " x 3 " x 4 "	=	<u>1200 " "</u>
Total rock to date		3800 c. ft.

= 140.74 c. yds.

#### Mount Pleasant Ave (from start to Dec 1<sup>st</sup>)

25 x 1 x 4	=	100 ft.
50 x 10 x $\frac{4+5}{2}$	=	2250 "
125 x $\frac{2 \times 3}{2}$ x 4	=	1250 "
100 x 4 x 4	=	1600 "
50 x 5 x 4	=	1000 "
20 x 6 x 4	=	480 "
115 x 12 x $\frac{4+5}{2}$	=	6210 "
50 x 3 x 4	=	600 "
250 x 12.5 x $\frac{4+9}{2}$	=	<u>20312 " 33802 c. ft.</u>

= 1252 c yds.

less Oct. - 739

bal. for Nov. 513 c. yds.

Boulevard.

$$112 \times 3 \times 3 = 1008$$

$$15 \times 5 \times 3 = 225$$

$$15 \times 2 \times 3 = 90$$

$$37 \times 4 \times 3 = 444$$

$$50 \times 3 \times 4 = 600$$

$$38 \times 4 \times 4 = 608$$

$$27 \times 6 \times 4 = 648$$

$$15 \times 1 \times 3 = 45 = 136 \text{ c yds} = 3668 \text{ c y.}$$

Total Rock to date 41270 cub. ft.

= 1529 cubic yard -

P49/E2,3

Montreal Water &  
Power Co  
Nov. Estimate

1 1 1

1  
2  
3  
4  
5  
6  
7

MONTREAL WATER & POWER CO

TO THE DOMINION CONSTRUCTION CO.

DR.

TO WORK DONE AND MATERIALS FURNISHED

DURING THE MONTH OF NOVEMBER 1892.

St Henry as per detailed statement	5815 50
St Cunegonde " " "	255 00
St Paul " " "	2295 00
St Antoine " " "	21034 52
St Louis du Mile End "	4680 44
Cote St Louis " " "	316 00
Clarke Ave. Pump Station "	884 00
Work done at Back River "	5043 27
Rock Work as per statement "	6369 00
New Pump at St Cunegonde "	1576 62
Amount of work done at Reservoir to date	
deducting amount previously allowed	11867 00
Last payment on Maisonneuve as per receipt	3717 15
Pipe & specials on hand as per statement	24379 13
Cartage on 515 tons pipe & specials laid	
during the month of November	772 50
	<hr/>
	\$89005 13

*Examined & found correct*

*Geo. T. Keith  
Chief Engineer  
D.C.E.*

NOV.1st. TO NOV.30th.1892.

COTE ST. ANTOINE:

66 ft. 4" pipe	\$0.70	46 20	
32 ft 6" "	0.92	29 44	
280 " 8" "	1.25	350 00	
2160 " 12" "	2.20	4752 00	
532 " 14" "	2.50	1330 00	
49 " 16" "	3.27	160 23	
1956 " 20" "	4.90	9584 40	
4 - 20" valves	225.00	900 00	
1 - 16" "	112 00	112 00	
2 - 14" "	90 00	180 00	
4 - 12" "	61 00	244 00	
1 - 8" "	33 00	33 00	
1 - 6" "	23 00	23 00	
1 - 4" "	14 25	14 25	
7 - Valve boxes	10 00	70 00	
2 - 20" Valve chambers	60 00	120 00	
1 - 16" " "	30 00	30 00	
1 - 20" Regulator chamber	230 00	230 00	
1 - 14" " "	230 00	230 00	
1 - 20" Pressure regulator & setting	1300 00	1300 00	
1 - 14" " "	700 00	700 00	
4 - hydrants	50 00	200 00	
✓ 12 - Services	15 00	180 00	
12 - Meters	18 00	216 00	\$21034 52

ST HENRY:

296 ft. 4" pipe	0 70	207 20	
4 " 8" "	1 25	5 00	
24 " 10" "	1 70	40 80	
1315 " 12" "	2.20	2893 00	
531 " 14" "	2.50	1327 50	
1 " 14" valve	90 00	90 00	
1 - 12" "	61 00	61 00	
2 - 10" "	47 00	94 00	
4 - 4" "	14 25	57 00	
8 - Valve boxes	10 00	80 00	
3 - hydrants	50 00	150 00	
54 - services	15 00	810 00	\$5815 50

ST. CUNEGONDE:

17 - Services	15 00	255 00	\$255 00
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NOV. 1st. TO NOV. 30th. 1892.

COTE ST. PAUL

153 - services	15 00	2295 00	\$2295 00
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ST. LOUIS DU MILE END:

245 ft. 4" pipe	0 70	171 50	
1242 " 10" "	1 70	2111 40	
456 " 12" "	2 20	1003 20	
42 " 16" "	3 27	137 34	
1 - 10" valve	47 00	47 00	
1 - Valve box	10 00	10 00	
30 - services	15 00	1200 00	\$4680 44

COTE ST LOUIS:

2 - services	15 00	30 00	
2 - Meters	18 00	36 00	
5 - hydrants	50 00	250 00	\$316 00

DETAILS OF WORK DONE AT BACK RIVER:

20,000 cub.yds. excavation	.50	10000 00
Amount previously allowed		4956 73
		5043 27



PIPE & SPECIALS ON HAND DEC. 1st.

Pipe on hand Dec.1st 373.83 tons	37 00	13831 71
Specials on hand 118,983 lbs	0 02½	3272 17
63 hydrants	40 00	2520 00
20" - valves 1	225 00	225 00
16" - " 4	112 00	448 00
14" - " 5	90 00	450 00
12" - " 6	61 00	366 00
10" - " 7	47 00	329 00
8" - " 7	33 00	231 00
6" - " 21	23 00	483 00
4" - " 29	14 25	413 25
1 - 14" pressure regulator	700 00	700 00
1 - 12" " "	450 00	450 00
24 - Relief valves	27 50	660 00
		<b>\$24379 13</b>

DETAILS

ST. ANTOINE

Street	No. ft.	Size
4 hydrant branches	42	4"
Lansdowne & Sherbrooke	6	4"
Lansdowne Ave	18	4"
Lansdowne & Sherbrooke	32	6"
Clarke Ave & Western	16	8"
Clarke Ave <i>etc</i>	264	8"
Lansdowne Ave	2160	12"
Lansdowne & <del>Elm</del> <i>glen</i>	516	14"
Clarke & Western	16	14"
Clarke Ave & Western	40	16"
Western Ave	9	16"
Clarke Ave.	1377	20"
Mnt. Pleasant <i>(Main from Boulevard to Rivière)</i>	579	20"

ST. HENRY

3 hydrant branches	91	4"
St Ambroise St	16	4"
St Alphonse Lane	25	4"
Bourget St	154	4"
Richelieu	10	4"
St James & Notre Dame	4	8"
Canal Front	24	10"
Canal Front	369	12"
St Ambroise St	457½	12"

CARRIED OVER

	No.ft.	Size
BROUGHT FORWARD		
Field to St Paul	479	12"
Gareau St	9½	12"
Gareau St	531	14"

	No.ft.	Size
MILE END:		
Gadieux St	245	4"
Robin St	420	10"
Lawrence Main St	822	10"
Mnt. Royal Ave.	456	12"
St Louis St.	42	16"

NOV. 1st. TO NOV. 30th. 1892.

LOWER PUMP STATION

70 ft. 6" pipe	0 92	64 40	
108 " 12" "	2 20	237 00	
5 8" 12" Valves	61 00	305 00	
2 - 6" "	23 00	46 00	652 00

ROCK CUTTING:

ST PAUL IN OCT.

Mill St	1200	
Dufferin	1276	
Radie	1532	3808 Cu.ft.

ST ANTOINE:

Lansdown Ave	3800	
Mnt. Pleasant	33802	
Boulevard	3668	
Pump Station		
Well	12250	53520

Total in ft. 57328

in Yds. 2123 3 00 6369 00 \$6369 00

RESERVOIR, COTE DES NEIGES HILL,

TOTAL WORK DONE TO NOV. 16th. 1892.

24076 Cu. Yds. earth excavated	0 50	12038 00	
2133 " " Puddle	2 50	5332 50	17370 00
Amount previously allowed			5503 50
			\$11867 00

PUMP STATION - ST CUREGONDE

Payment on Boiler	775 00	
Pay roll on new pump, work in placing, material furnished, foundations, etc - - - - -	693 62	\$1468 62

PUMP STATION - CLARKE AVENUE:

Work on house	500 00	
Brick for well	384 00	\$884 00

*Vertical handwritten notes on the left margin, including "ST ANTOINE" and "MILL ST".*

Major for work on maps

254 00 \$254 00

MAPS SECTION - GENERAL VALUERS:

From 1890 - - - - -  
The Montreal Improvement Company  
has paid on non map work in line  
payment on paper.

282 00 \$282 00  
112 00

\$71961 00

Various measurements of ground

2202 00

SIZE 4 1/2 24470  
ROAD ON 1/2 acre easement

2 00 2225 00 15240 00  
0 00 13025 00

ROADS WORK DONE TO NOV. 1891.

RESERVOIR - GOLD HILL HEIGHTS

12 00 2 00 2225 00 15240 00

NOV 11 1892

NOV 11 1892

Land Section  
Northward  
12th Avenue  
Paragon Ave

2225 00  
2225 00

REVENUE:

1891  
1892  
1893  
1894

1891  
1892  
1893  
1894

AT BANK IN OCT.

WORK OBTAINING:

22

Keith's  
Statement of Work  
done in  
November 1892

NOV 1892  
NOV 1891  
NOV 1890

22 00 42 00 425 00  
202 00 202 00  
234 00 234 00  
24 00 24 00

WORKING MAP SECTION

NOV 1891 TO NOV 1892

P49/E2,3

1 1 5

1 2 3 4 5 6 7

MONTREAL WATER & POWER CO.

TO WORK DONE AND PLANTS PURCHASED

UP TO DECEMBER 1st.1892.

St Henry as per detailed Statement	\$41934	00	
Cote St.Antoine " "	75627	75	
Cote St.Paul " "	26170	47	
St Louis du Mile End "	43280	69	
Cote St.Louis " "	2010	72	
Back River " "	7237	06	
High Level Reservoir (Cote des Neiges) "	9693	87	
Plants & Land Purchased "	267349	99	
Total to Dec.1st.1892	\$473304	55	
Less previous estimate	422533	77	
Nett estimate for Nov.1892	\$50770	78	
Contingencies, Salary of the Chief Engineer of the Montreal Water & Power Co. from 1st.May 1891 to Dec.1st.1892 at \$5000 per year - - - - -	\$7916	66	\$58687 44

MONTREAL WATER & POWER CO.

(NOV. ESTIMATE).

Money paid on Acct. of Plants & land  
purchased to Dec. 1892.

To St. Henry amount paid on Acc. to Dec. 1st. 1892	100,000	00
" St Antoine " " " " " "	34,630	09
" Cote St Louis " " " " " "	31,902	75
" Maisonneuve " " " " " "	15,717	15
" Water Power " " " " " "	80,000	00
" Upper level reservoir land " " " "	5,100	00
Total paid to Dec. 1892.	\$267,349	99

TOWN OF ST. HENRY.

	As per estimate to Nov.1st.1892		38027 97	
	<u>GARNEAU STREET (FROM ST.AMBROISE NORTHWARDS)</u>			
370	ft.of 14" pipe laid complete at 2.50		925 00	
	(From St Ambroise to Canal Crossing)			
800	ft.of 12" pipe laid complete at 2.20		1760 00	
1	12" Valve laid	" 61.00	61 00	
1	14" valve laid	" 90.00	90 00	
2	Valve boxes laid	" 10.00	20 00	2856 00
	<u>ST AMBROISE STREET.</u>			
1	2 nozzle hydrant laid	at 40.00	40 00	
	Laying 1 hydrant	" 10.00	10 00	50 00
	<u>PRIVATE SERVICES</u>			
54	Private services laid	" 15.00	810 00	810 00
	<u>CARTAGE</u>			
57.39	Tons of Cartage	" 1.50	86 08	86 08
	<u>S P E C I A L S</u>			
1.89	Tons of Specials	" 55.00	103 95	103 95
	Total to Dec.1st.1892.			\$41934 00



TOWN OF COTE ST. ANTOINE

WORK DONE FROM START TO DEC. 1st. 1892

	As per estimate of October 1892 Work done in November.			53702 30	\$53702 30
	<b>LANSDOWNE AVE. (GLEN)</b>				
514	ft 14" pipe laid complete	at 2.50		1285 00	1285 00
	<b>LANSDOWNE (NORTH OF SHERBROOKE TO COTE ST. ANTOINE ROAD)</b>				
900	ft. of 12" pipe laid complete	" 2.20		1980 00	
1	Hydrant laid, 2 nozzle	" 40.00		40 00	
	Laying 1 hydrant	" 10.00		10 00	2030 00
	<b>CLARKE AVE. (SHERBROOKE NORTHWARDS TO MOUNT PLEASANT BOULEVARD)</b>				
1105	ft. of 20" pipe laid	" 4.90		5414 50	
4	20" valves laid	" 225.00		900 00	
3	Brick valve pits	" 200.00		600 00	
1	20" pressure Regulator			2200 00	
1	Brick chamber for pressure regulator	"		500 00	
2	2 nozzle hydrants	" 40.00		80 00	
	Laying 2 hydrants	" 10.00		20 00	9714 50
	<b>MAIN (FROM BOULEVARD TO RESERVOIR -MOUNT PLEASANT)</b>				
879	ft. of 20" pipe laid complete	" 4.90		4307 10	4307 10
	<b>GREENE AVENUE:</b>				
1	14" Regulator	"		1000 00	
2	14" Valves laid	" 90 00		180 00	
1	Large brick pit for regulator	"		400 00	1580 00
	CARRIED OVER				\$72618 90

**COTE ST. ANTOINE (CONTINUED) NOV. ESTIMATE.**

	<b>BROUGHT FORWARD</b>			<b>\$72618 90</b>
	<b>WESTERN AVE. (WEST OF CLARKE AVE)</b>			
9	ft. of 16" pipe laid complete	at 3.27	29 43	
1	16" Valve laid	" 112.00	112 00	
1	Valve box	10.00	10 00	151 43
	<b>ROCK EXCAVATION IN NOV.</b>			
	<b>MAIN FROM BOULEVARD TO RESERVOIR</b>			
513	Cubic yds. of rock excavation	at 3.00	1539 00	1539 00
	<b>LANSDOWNE AVE.</b>			
141	Cubic yds. of rock excavation	" 3.00	423 00	423 00
	<b>PRIVATE SERVICES</b>			
12	Private services laid	" 15.00	180 00	180 00
	<b>CARTAGE</b>			
279.68	Tons of cartage	" 1.50	419 52	419 52
	<b>SPECIALS</b>			
538	Tons of specials	" 55.00	295 90	295 90
	<b>Total to Dec. 1st. 1892.</b>			<b>\$75627 75</b>

ST. LOUIS DU MILE END (NOV. ESTIMATE)

	As per Estimate of Oct				\$30854 24
	<u>ST LAWRENCE ST. (FROM FORTIN SOUTHWARDS.</u>				
632	Ft. 10" pipe laid complete	at 1.70	1074 40		
1	10" Valve laid	" 47.00	47 00		
1	Valve box laid	" 10.00	10 00		
4	2 Nozzle Hydrants	" 40.00	160 00		
	Laying 4 hydrants	" 10.00	40 00	1331 40	
	<u>ST. DOMINIQUE ST.</u>				
3	2 nozzle hydrants laid	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	150 00	
	<u>GEORGE HYPOLITE STREET.</u>				
350	ft. of 6" pipe laid complete	" 0.92	322 00		
1	6" Valve laid	" 23.00	23 00		
1	Valve box laid	" 10.00	10 00		
3	2 nozzle hydrants	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	505 00	
	<u>CADIEUX STREET.</u>				
3	2 nozzle hydrants laid	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	150 00	
	<u>STEWART STREET:</u>				
2	6" Valves laid	" 23.00	46 00		
2	Valve boxes	" 10.00	20 00		
3	2 nozzle hydrants	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	216 00	
	<u>ROBIN ST. (FROM ST JOSEPH SOUTHWARDS)</u>				
830	ft. of 10" pipe laid complete	" 1.70	1411 00		
3	2 nozzle hydrants	" 40.00	120 00		
	Laying 3 hydrants	" 10.00	30 00	1561 00	
	CARRIED OVER				\$34767 64

ST. LOUIS DU MILE END (NOV. ESTIMATE) CONTINUED.

BROUGHT FORWARD				\$34767 64
<u>MOUNT ROYAL AVE. (FROM ST LAWRENCE TO ST URBAIN ST.)</u>				
550	ft. of 12" pipe laid complete	at 2.20	1210 00	
1	12" Valve laid	" 61.00	61 00	
1	Valve box	" 10.00	10 00	1281 00
<u>ST. LOUIS ST. (FROM CLARKE WESTWARDS)</u>				
520	ft. of 16" pipe laid complete	" 3.27	1700 40	1700 40
<u>PRIVATE SERVICES</u>				
80	Private services laid	" 15.00	1200 00	1200 00
<u>ROCK EXCAVATION</u>				
1292.80	Cu. Yds. of rock excavated in Nov.	3.00	3878 80	3878 80
<u>CARTAGE</u>				
122.60	Tons of cartage	" 1.50	183 90	183 90
<u>SPECIALS</u>				
4.89	Tons of specials	" 55.00	268 95	268 95
Total to Dec. 1st. 1892.				\$43280 69

COTE DES NEIGES (NOV. ESTIMATE)

(RESERVOIR WORK)

UPPER LEVEL RESERVOIR:					
	Excavation of bottom	11007	C.Yds		
	Shipping and trenches	4521	"		
	Puddle Ditch	293	"		
	Pipe trench	523	"		
		-----			
	Total	16344	" at	0.35	5720 40
48	Ft. of 20" pipe laid		"	4.90	235 20
4.85	Tons of Cartage		"	1.50	7 27
	Puddle wall	1146	C.Yds		
	Puddle in pipe trench	75	"		
	" under banks	911	"		
		-----			
	Total	2132	" at	1.75	3731 00
					\$9693 87
	Previous estimate				5503 50
	Total for Nov. Estimate				\$4190 37

BACK RIVER WORKS.

Total work done up to Dec.1st.1892

20677	Cub.yds.of earth excavation	at	35 cts.	\$7237 06
	Less previous estimate			4956 73
	Total Nov.Estimate			\$2280 33

TOWN OF COTE ST. LOUIS

(NOV. ESTIMATE)

	As per estimate of Oct.1892			\$1980 72
2	Private services laid	at	15.00	30 00
	Total to Dec.1st.1892			\$2010 72

MONTREAL WATER & POWER CO.

(NOV. ESTIMATE)

To balance of purchase price of plant	
in Town of Maisonneuve - - - - -	\$3717.15



COTE ST. PAUL (NOV. ESTIMATE).

	As per statement to Nov.1st.1892			\$23875.47
	PRIVATE SERVICES:			
153	Private services laid	at	15.00	2295.00
	Total to Dec.1st.1892.			\$26170.47

P49/E2,3

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MONTREAL WATER & POWER CO.—

NOVEMBER ESTIMATE

J.EMILE VANIER

CHIEF ENGINEER

1 2 3 4 5 6 7

1 2 3 4 5 6 7

MONTREAL WATER & POWER CO.

TO THE DOMINION CONSTRUCTION CO. DR.

To work done & material furnished  
during the month of December 1892.

St. Henry as per detailed statement	502	14
St Paul " " " "	1845	00
St Antoine " " "	3623	21
St Louis du Mile End "	5083	50
Cote St. Louis " "	33	00
Clarke Ave. Pump Station	6702	00
Work done at Back River	6561	44
New Pump at St. Cunegonde	8351	62
Pipe & Specials on hand as per statement	21564	68
Cartage on 133 tons of pipe & specials laid during December up to Jany. 7th. 1893	199	50
Reservoir Cote des Neiges Hill	7676	63
	\$62142	72

COTE ST. ANTOINE

1094 Ft. 4" pipe	\$0 70	765 80	
28 " 6" "	0.92	25 76	
69 " 8" "	1.25	86 25	
2 " 10" "	1.70	3 40	
48 " 12" "	2.20	105 60	
328 " 14" "	2.50	820 00	
121 " 20" "	4.90	592 90	
1 - 20" Valve	225.00	225 00	
2 - 12" "	61.00	122 00	
1 - 10" "	47.00	47 00	
1 - 8" "	33 00	33 00	
2 - 6" "	23 00	46 00	
2 - 4" "	14.25	28 50	
4 - Valve boxes	10.00	40 00	
1 - 20" Valve chamber	200.00	200 00	
1 - 20" Relief Valve chamber	200.00	200 00	
3 - hydrants	50.00	150 00	
4 - Services	15.00	60 00	
4 - Meters	18.00	72 00	\$3623 21

ST. HENRY:

4½ ft. 6" pipe	\$0.92	4 14	
172 ft 14" pipe	2.50	430 00	
1 - 6" Valve	23 00	23 00	
3 - Services	15.00	45 00	\$502 14

COTE ST. PAUL:

123 Services	15.00	1845 00	\$1845 00
--------------	-------	---------	-----------

COTE ST. LOUIS:

1 - Service	15.00	15 00	
1 - Meter	18.00	18 00	33 00

ST. LOUIS DU MILE END:

368 ft. 4" pipe	\$0.70	257 60	
559 " 6" "	0.92	514 28	
756 " 10" "	1.70	1285 20	
10 " 12" "	2.20	22 00	
346 " 16" "	3.27	1131 42	
1 - 10" Valve	47.00	47 00	
2 - 6" "	23.00	46 00	
20 - hydrants	50.00	1000 00	
52 - Services	15.00	780 00	\$5083 50

DETAILS OF WORK AT BACK RIVER

25283 Cu.yds. excavation	\$0.50	12641 50	
650 " " rock	1.78	1157 00	
		13798 50	
Amount previously allowed		7237 06	6561 44

DETAILS OF CLARKE AVE PUMP STATION

660 Cu.yds. rock	\$3.00	1980 00	
Bricking up & Concreting well		680 00	
Amount paid for boiler		925 00	
Amount paid on Acc. of pump		1500 00	
Amount paid on Acc. of house		1617 00	\$6702 00

STE. GUNEGONDE NEW PUMP.

Amt. paid on Acc. of new pump		6000 00	
" " " " " boiler		1550 00	
Pay roll on setting new pump & foundations		801 62	\$8351 62

RESERVOIR COTE DES NEIGES HILL:

24076 cu.yds. earth excavation	\$0.50	12038 00	
2133 " " puddle	2.50	5332 50	
		17370 50	
Amount previously allowed		9693 87	\$7676 63

PIPE & SPECIALS ON HAND

JANU. 7th. 1893.

Pipe 348.39 tons	37.00	12890 43	
Specials 110491 lbs.	0.025	3038 50	
40 hydrants	40.00	1600 00	
16" Valves - 4	112.00	448 00	
14" " 5	90.00	450 00	
12" " 4	61.00	244 00	
10" " 5	47.00	235 00	
8" " 6	33.00	198 00	
6" " 19	23.00	437 00	
4" " 15	14.25	213 75	
1 - 14" Pressure Regulator	700.00	700 00	
1 - 12" " "	450 00	450 00	
24 - Relief Valves	27 00	660 00	\$21564 68

DETAILS

ST. ANTOINE:

Street	No. of Ft.	Size
3 hydrant branches	18	4"
Western Ave. Clarke & Oliver	330	4"
Boulevard east of Clarke	744	4"
Cote Road & Clarke	2	4"
Greene Ave. near Staynor	4	6"
Cote Road & Clarke	24	6"
Clarke Ave.	22	8"
Clarke Ave. & Boulevard	27	8"
Clarke Ave. & Pump House	20	8"
Cote Road & Clarke	2	10"
" " & "	48	12"
Greene Ave. & Staynor	26	14"
Glen Road	302	14"
Clarke Ave.	72	20"
Clarke Ave. & Boulevard	3	20"
Clarke Ave & Cote Road	46	20"

ST. HENRY.

Canal Bank	4 $\frac{1}{2}$	6"
Gareau St.	172	14"

MILE END:

20 hydrant branches	335	4"
Mnt. Royal Ave. & Cadieux	9	4"
St. Dominique St.	24	4"
Mnt. Royal Ave. & Stuart	26	6"
St. Hypolite St.	533	6"
Mnt. Royal Ave. & Robin St.	6	10"
Robin St.	750	10"
Mnt. Royal Ave. connections	10	12"
St Louis St.	346	16"

P49/E2,3

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Keith's  
Statement of Work  
done in  
December 1892

Rec'd 19 Janvier 1893  
J.W.

• Dec est. 92 •

MONTREAL WATER & POWER COMPANY.

<u>To work done and Plants purchased</u>			
<u>up to Jan. 1st. 1893.</u>			
St. Henry as per detailed Statement			\$41,979 00
Cote St. Antoine, as per detailed Statement			76,376 75
Cote St Paul " " "			28,015 47
St Louis du Mile End" " "			49,308 68
Cote St.Louis " " "			2,025 72
Back River " " "			10,093 10
High lever reservoir " "			9,693 87
(Cote des Neiges)			
Plants and land purchased " "			267,349 99
Total to Jan.1st.1893			484,842 58
Less previous Estimate			473,304 55
Nett Estimate for Dec.1892			\$11,538 03
Contingencies: Salary of the Chief			
Engineer of the Montreal Water and			
Power Coy.from 1st.of May 1891 to			
Jan.1st.1893 - at \$5000 per year		8333	32
Less previous Estimate		7916	66
Estimate for Dec.1892			416 66
Nett Estimate for Dec.1892.			11 954 69
Certified to be correct			
Montreal, January 30th.1893,			
(Sgd.) J.Emile Vanier,			
Chief Eng.M.W.& P.Co.			
A true copy of the original.			
(Sgd) J.E.V.			



TOWN OF ST. HENRY - (DEC. ESTIMATE)

AS PER STATEMENT TO DEC. 1st. 1892.			\$41,934 00
<u>PRIVATE SERVICES:</u>			
3	Private Services	at 15.00	45 00
			45 00
<u>Total to Jan. 1st. 1893</u>			<u>\$41,979 00</u>

TOWN OF COTE ST. ANTOINE (DEC. ESTIMATE)

WORK DONE FROM START TO JAN. 1st. 1893.					
As per Estimate of Nov. 1892				\$75,627	75
<u>CLARKE AVENUE:</u>					
1	Brick pit for relief Valves	at	200.00	200	00
8	3" relief valves	"	40.00	320	00
					520 00
<u>GREENE AVENUE:</u>					
4	3" relief valves	at	40.00	160	00
					160 00
<u>PRIVATE SERVICES:</u>					
4	Private services	"	15.00	60	00
					60 00
<u>Total to Jan. 1st. 1893</u>				<u>\$76,367</u>	<u>75</u>

P49/E2,3

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COTE ST. PAUL (DEC. ESTIMATE)

	AS PER ESTATEMENT TO DEC. 1st. 1892			26,170 47
	<u>PRIVATE SERVICES:</u>			
123	Private services	at	15.00	1,845 00
	<u>Total to Jan. 1st. 1893</u>			<u>\$28,015 47</u>

P49/E2,3

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ST. LOUIS DU MILE END (DEC. ESTIMATE)

AS PER STATEMENT TO DEC. 1st. 1892.				43280	69
<u>ROBIN ST. (FROM ST. JOSEPH</u>					
<u>TO ST. LOUIS)</u>					
400	ft. of 10" pipe laid complete	at	\$1.70	680	00
1	10" valve laid	"	47.00	47	00
1	Valve box	"	10.00	10	00
1	2 nozzle hydrant	"	45.00	45	00
	Laying hydrant	"	10.00	10	00
				792	00
<u>ST. LOUIS ST. (FROM END OF PIPE</u>					
<u>WESTWARD)</u>					
295	ft. of 16" pipe laid complete	at	3.27	964	65
				964	65
<u>GEORGE HYPOLITE</u>					
428	ft. of 6" pipe laid	at	0.92	393	76
1	2 nozzle hydrant	"	45.00	45	00
	Laying 1 hydrant	"	10.00	10	00
				448	76
<u>PRIVATE SERVICES</u>					
178	Private services	at	15.00	2670	00
				2670	00
<u>ROCK EXCAVATION</u>					
327	Cubic yds. Rock	at	3.00	981	00
				981	00
<u>SPECIALS</u>					
1.95	Tons of specials	at	55.00	107	25
				107	25
<u>CARTAGE</u>					
42.89	Tons of Cartage	at	1.50	64	33
				64	33
Total to January 1st. 1893				\$49308	68

ST. LOUIS DU MILE END.

DETAILED CALCULATION OF CARTAGE.

Sizes 16" - 10" - 6"			Total length
	295 ft. - 400 ft. - 428 ft.		
16"-	295 at 133 lbs	39235 lbs.	
10"-	400 " 65 "	26000 "	
6"-	428 " 33 "	14124 "	
	Total	79359 "	39.67 Tons
2	Hydrants at 400 lbs	800 lbs	0.40 "
1	10" Valve	170 "	0.08 "
<u>LEAD</u>			
16"-	25 lengths at 24 lbs	600 lbs	
10"-	33 " 15 "	495 "	
6"-	37 " 9 "	333 "	
		1428 "	0.77 "
<u>VALVE BOXES</u>			
1	Valve box at 150 lbs.		0.08
<u>SPECIALS</u>			
3	Specials of 900 lbs. (St. Louis)	2700 lbs	
2	" " 505 " (Robin)	1010 "	
1	" " 200 " (Hypolite)	200 "	
		3910 "	1.95
			42.89 Tons
<u>RESUME OF CARTAGE:</u>			
Pipes		39.67 Tons	
Hydrants		0.40 "	
Valves		0.08 "	
Lead		0.71 "	
Specials		1.95 "	
Valve boxes		0.08 "	
	<u>Total of Cartage for Dec</u>		<u>42.89 Tons</u>

CALCUL DU ROC POUR POSAGE DES TUYAUX A L'EAU DE LA

RUE ST. LOUIS.

1. Profondeur moyenne du roc 3.55

9.18 x 3.55  
----- 16.30  
2

Longueur 432'

432 x 16.30  
----- 260 verges cubes  
27

2. Profondeur moyenne 1.8

4 x 4.6  
----- 4.3      4.3 x 1.8      7.74  
2

7.74 x 1.60  
----- 46 vgs. cubes  
27

Total      260 x 46      306 vgs. cubes

HYDRANTS:

4 x 3      560  
----- x 40 x 4      ----- 21  
2      27

327 cubic yds.

TOWN OF COTE ST. LOUIS (DEC. ESTIMATE).

	AS PER STATEMENT TO 1st. Dec. 1892				\$2010 72
	<u>PRIVATE SERVICES</u>				
1	Private service	at 15.00	15 00		15 00
	<u>Total to Jan. 1st. 1893.</u>				\$2025 72

BACK RIVER WORKS (DEC. ESTIMATE)

TOTAL WORK DONE TO JAN. 1st. 1893.

EARTH EXCAVATION

26516	Cub. yds. of earth excavation	at	0.35	9280 60	
	<u>ROCK EXCAVATION:</u>				
650	Cub. Yds. of Rock Excavation	"	1.25	812 50	10093 10
	Less previous estimate				7237 06
	Total Dec Estimate				\$2856 04

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MONTREAL, January 2nd. 1893.

THE MONTREAL WATER & POWER CO (LIMITED)

DR. TO

J. EMILE VANIER:

1 Months salary (December 1892) - - - - -	\$416.66
at \$5000.00 a year	

P49/E2,3

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P49/E2,3

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MONTREAL WATER & POWER CO.

*to Jan 1<sup>st</sup> /93*

ESTIMATE WORK DONE

DEC. 1892

J. EMILE VANIER,

CHIEF ENGINEER.

*J. Vanier 1/1*

St. Louis du Refuge (No. Est.)

Rock Excavation.

George Hypolite St

$\frac{3+4.27}{2} \times 3.83 \times 340 = 175.00 \text{ c. } 7d.$

St. Louis St.

$\frac{4+4.95}{2} \times 2.85 \times 540 = 255.00 \text{ "}$

$\frac{4+4.38}{2} \times 1.07 \times 110 = 17.00 \text{ "}$

$\frac{4.83+4}{2} \times 2.48 \times 120 = 48.00 \text{ "}$

Robin St.

$\frac{3.33+3.66}{2} \times 0.92 \times 40 = 4.80 \text{ "}$

$\frac{3.33+4.56}{2} \times 3.40 \times 535 = 266.00 \text{ "}$

St. Lawrence St.

$\frac{3.33+3.80}{2} \times 1.30 \times 440 = 75.00 \text{ "}$

$\frac{3.33+4.67}{2} \times 3.73 \times 205 = 113.00 \text{ "}$

Mount Royal Ave.

$\frac{3.5+4.83}{2} \times 4.00 \times 550 = 339.00 \text{ "}$

Total -

1292.80 c. 7d.

Resumé -

George Hypolite. 175.00 c. 7d.

St. Louis St. 320.00 "

Robin St. 270.80 "

St. Lawrence St. 188.00

Mount Royal St 339.00 1292.80 c. 7d.

St Louis du Mill Euc  
Detailed calculation of Castoff

sizes	16"	12"	10"	6"	4"
	520ft	550ft	632ft	350ft	
			830 "		
Total lengths	520ft	550ft	1462ft	350ft	

16" - 520 at 133 lbs = 69160 lbs  
 12" - 550 " 85 " = ~~44750~~ "  
 10" - 1462 " 65 " = 95030 "  
 6" - 350 " 33 " = 11550 "  
 total 222~~7~~90 = 111.45<sup>25</sup> tons

19 hydrants at 400 lbs = 7600 lbs = 3.80 "

1 - 12" valves at 200 lbs = 200 lbs  
 1 - 10" " " 170 " = 170 "  
 3 - 6" " " 80 " 240 "  
 610 lbs = 0.30 "

Lead

16" - 43 lengths at 24 lbs = 1032 lbs  
 12" - 46 " " 18 " = 828 "  
 10" - 122 " " 15 " = 1830 "  
 6" - 30 " " 9 " = 270 "  
 3960 lbs = 1.98 "

Valve boxes

5 valve boxes at 150 lbs = 750 lbs = 0.38 "

Specials

1 special of 425 lbs (St. Lawrence) = 425 lbs  
 1 " " 200 " (Geo. Hypolite) = 200 "  
 2 " " 505 " (Rubin) = 1010 "  
 2 " " 425 " ( " ) = 850 "  
 2 " " 600 " (Mt Royal) = 1200 "  
 2 " " 550 " ( " ) = 1100 "  
 2 " " 500 " ( " ) = 1000 "  
 1 " " 550 " ( " ) = 550 "  
 2 " " 845 " (St Louis) = 1690 "  
 2 " " 875 " ( " ) = 1750 "  
 = 4.89 "

St Louis du Mile East

Resumé of Cartage

Pipes —	111.25	tons
Hydrants —	3.80	"
Valves —	0.30	"
Lead —	1.98	"
Specials —	4.89	"
Valve boxes —	<u>0.38</u>	"
Total cartage for work =	<u>122.60</u>	tons

*[Handwritten mark]*

Earth excavation Sewer Recorder  
 from Start to End 1892

Section A+20 = 339.30 + 580.23 = 913.53

2

Section B =	226.90 + 413.40 =	640.30	23307.30
" C =	486.65 + 839.93 =	1326.58	49172.00
" D =	524.32 + 616.40 =	1140.72	61682.00
" E =	502.50 + 416.06 =	918.56	57482.00
" F =	414.72 + 540.20 =	954.92	46837.00
" G =	332.40 + 466.20 =	798.60	43838.00
" H =	357.50 + 588.80 =	946.30	43622.00
" I =	387.10 + 581.15 =	968.25	47863.00
" J =	372.29 + 328.50 =	700.79	41726.00
" K =	395.00 + 320.00 =	715.00	35394.50
" L =	440.10 + 289.52 =	729.62	36115.50
" M =	498.73 + 243.80 =	742.53	36728.50
" N =	307.50 + 215.85 =	523.35	31074.00
" N+30	=	268.80	8644.50

558287.80

= 20677.32 c. yds

*J. L.*

MONTREAL WATER & POWER COMPANY.

To work done and Plants purchased

up to Jan. 1st. 1893.

St. Henry as per detailed Statement	\$41,979 00
Cote St. Antoine, as per detailed Statement	76,376 75
Cote St Paul " " "	28,015 47
St Louis du Mile End" " "	49,308 68
Cote St.Louis " " "	2,025 72
Back River " " "	10,093 10
High lever reservoir " " " (Cote des Neiges)	9,693 87
Plants and land purchased " "	267,349 99
 Total to Jan.1st.1893	 484,842 58
Less previous Estimate	473,304 55
 Nett Estimate for Dec.1892	 \$11,538 03

Contingencies: Salary of the Chief

Engineer of the Montreal Water and  
Power Coy. from 1st. of May 1891 to  
Jan.1st.1893 - at \$5000 per year

Less previous Estimate

Estimate for Dec.1892

Nett Estimate for Dec.1892.

8333 32	
7916 66	
	416 66
	11 954 69

Certified to be correct  
Montreal, January 30th.1893,  
(Sgd.) J.Emile Vanier,  
Chief Eng.M.W.& P.Co.  
A true copy of the original.  
(Sgd) J.E.V.

TOWN OF ST. HENRY - (DEC. ESTIMATE)

	AS PER STATEMENT TO DEC. 1st. 1892.				\$41,934 00
	PRIVATE SERVICES:				
3	Private Services	at 15.00	45 00		45 00
	<u>Total to Jan. 1st. 1893</u>				<u>\$41,979 00</u>

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TOWN OF COTE ST. ANTOINE (DEC. ESTIMATE)

WORK DONE FROM START TO JAN. 1st. 1893.			
As per Estimate of Nov. 1892			\$75,627 75
<u>CLARKE AVENUE:</u>			
1	Brick pit for relief Valves	at 200.00	200 00
8	3" relief valves	" 40.00	320 00      520 00
<u>GREENE AVENUE:</u>			
4	3" relief valves	at 40.00	160 00      160 00
<u>PRIVATE SERVICES:</u>			
4	Private services	" 15.00	60 00      60 00
<u>Total to Jan. 1st. 1893</u>			<u>\$76,367 75</u>

COTE ST. PAUL (DEC. ESTIMATE)

	AS PER ESTATEMENT TO DEC. 1st. 1892			26,170 47
	<u>PRIVATE SERVICES:</u>			
123	Private services	at	15.00	1,845 00
	<u>Total to Jan. 1st. 1893</u>			<u>\$28,015 47</u>

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ST. LOUIS DU MILE END (DEC. ESTIMATE)

	AS PER STATEMENT TO DEC. 1st. 1892.			43280 69
	<u>ROBIN ST. (FROM ST. JOSEPH TO ST. LOUIS)</u>			
400	ft. of 10" pipe laid complete	at \$1.70	680 00	
1	10" valve laid	" 47.00	47 00	
1	Valve box	" 10.00	10 00	
1	2 nozzle hydrant	" 45.00	45 00	
	Laying hydrant	" 10.00	10 00	792 00
	<u>ST. LOUIS ST. (FROM END OF PIPE WESTWARD)</u>			
295	ft. of 16" pipe laid complete	at 3.27	964 65	964 65
	<u>GEORGE HYPOLITE</u>			
428	ft. of 6" pipe laid	at 0.92	393 76	
1	2 nozzle hydrant	" 45 00	45 00	
	Laying 1 hydrant	" 10.00	10 00	448 76
	<u>PRIVATE SERVICES</u>			
178	Private services	at 15.00	2670 00	2670 00
	<u>ROCK EXCAVATION</u>			
327	Cubic yds. Rock	at 3.00	981 00	981 00
	<u>SPECIALS</u>			
1.95	Tons of specials	at 55.00	107 25	107 25
	<u>CARTAGE</u>			
42.89	Tons of Cartage	at 1.50	64 33	64 33
	<u>Total to January 1st. 1893</u>			<u>\$49308 68</u>

ST. LOUIS DU MILE END.

DETAILED CALCULATION OF CARTAGE.

Sizes 16" - 10" - 6"			
		295 ft. - 400 ft. - 428 ft.	Total length
16"-	295 at 133 lbs	39235 lbs.	
10"-	400 " 65 "	26000 "	
6"-	428 " 33 "	14124 "	
	<b>Total</b>	<b>79359 "</b>	<b>39.67 Tons</b>
2	Hydrants at 400 lbs	800 lbs	0.40 "
1	10" Valve	170 "	0.08 "
<b>L E A D</b>			
16"-	25 lengths at 24 lbs	600 lbs	
10"-	33 " 15 "	495 "	
6"-	37 " 9 "	333 "	
		<b>1428 "</b>	<b>0.77 "</b>
<b>VALVE BOXES</b>			
1	Valve box at 150 lbs.		0.08
<b>SPECIALS</b>			
3	Specials of 900 lbs. (St. Louis)	2700 lbs	
2	" " 505 " (Robin)	1010 "	
1	" " 200 " (Hypelite)	200 "	
		<b>3910 "</b>	<b>1.95</b>
			<b>42.89 Tons</b>
<b>RESUME OF CARTAGE:</b>			
Pipes		39.67 Tons	
Hydrants		0.40 "	
Valves		0.08 "	
Lead		0.71 "	
Specials		1.95 "	
Valve boxes		0.08 "	
<b>Total of Cartage for Dec</b>			<b>42.89 Tons</b>

CALCUL DU ROC POUR POSAGE DES TUYAUX A L'EAU DE LA  
RUE ST. LOUIS.

1. Profondeur moyenne du roc 3.55

$$\begin{array}{r} 9.18 \times 3.55 \\ \hline 16.30 \\ 2 \end{array}$$

Longueur 432'

$$\begin{array}{r} 432 \times 16.30 \\ \hline 260 \text{ verges cubes} \\ 27 \end{array}$$

2. Profondeur moyenne 1.8

$$\begin{array}{r} 4 \times 4.6 \\ \hline 4.3 \quad 4.3 \times 1.8 \quad 7.74 \\ 2 \end{array}$$

$$\begin{array}{r} 7.74 \times 1.60 \\ \hline 46 \text{ vgs. cubes} \\ 27 \end{array}$$

Total 260 x 46 306 vgs. cubes

HYDRANTS:

$$\begin{array}{r} 4 \times 3 \\ \hline 2 \end{array} \times \begin{array}{r} 40 \times 4 \\ \hline 27 \end{array} \begin{array}{r} 560 \\ \hline 21 \end{array}$$

327 cubic yds.

TOWN OF COTE ST. LOUIS (DEC. ESTIMATE).

	AS PER STATEMENT TO 1st. Dec. 1892				\$2010 72
	<u>PRIVATE SERVICES</u>				
1	Private service	at 15.00	15 00		15 00
	<u>Total to Jan. 1st. 1893.</u>				\$2025 72

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BACK RIVER WORKS (DEC. ESTIMATE)

TOTAL WORK DONE TO JAN. 1st. 1893.

EARTH EXCAVATION

26516	Cub. yds. of earth excavation	at	0.35	9280	60		
	<u>ROCK EXCAVATION:</u>						
650	Cub. Yds. of Rock Excavation	"	1.25	812	50	10093	10
	Less previous estimate					7237	06
	<u>Total Dec Estimate</u>					<u>\$2856</u>	<u>04</u>

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MONTREAL, January 2nd. 1893.

**THE MONTREAL WATER & POWER CO (LIMITED)**

DR. TO

J. EMILE VANIER:

1 Months salary (December 1892) - - - - -	\$416.66
at \$5000.00 a year	

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*Edo copy*

MONTREAL WATER & POWER CO.

ESTIMATE WORK DONE

DEC. 1892

J. EMILE VANIER?

CHIEF ENGINEER.

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