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# GENERAL REPORT. 

To His Exxcellenry Sir Peregrinc Maitland, Knighs Commander of the Most Fionorablc Military Order of the Bath, Lieutenant Governor of the Provinct of Upper Canadia, Major General Commanding His Majesty's Forces therei. \&c. \&oc. \&c.

In pursuance of my instructions of the 9 th June last. \& having obtained the aid of George Rykert, Assistant Engineer \& Surveyot, :re proceeded to the Survey of the River St. Lawrence, and now respectfully begieave to submit the following Eutumatea and Report.

## 

Of the expense of improving the Nayigntion and constructing a Canal at the several Rapids in the River St. Lawrence from Johnstown to Corawall of the following dimeasions, viz:-

The first, eight feet in depth, sixty feet in widh at the botom and 84 feet in width at the forface of the water, the banks to wlope one foot and a half to one foot perpendicelar The Lochs to be one hundred and thrty-tivo fect in length by forty feet in width, with turning bridges"forty feet-in the clear, and ten feet wide.

The second four feet in depth, twendy-six feet in width at the botom, and thirty-eight fect in width at the surface of the wnter ; the banks to slope the same as in the first; the Locks to be one hundred leet in length, by fifteen feet in width, with turoing bridges fifteen feet is the clear, and ten feet wide.


| Estumate No. 1, if feet Canal. |  |  | Estimate No. 2, 1 feei Canal. |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | £ s. d. | £ s. d. | No Cubic Yards. | £ \%.d. | £ s d. |

of 2 Eet blin lifl will be lie essary in making a boat nivigition it Shaver's Ishinit. A lowing path. bruiges and defpeming ser eral shonls will Msn lie neredsary.

Excavation
Tow pith
lock No 3
Puddling
At the ripid plat we again fors,ike the surer a divenner of 2 milea 56 chans. Vessela may descend these ruphds wilh safety, but beng impracticable to asecnd, a canal will be necessary to sont them on their whe up only, wheh enablea us agete to contratet the bontom witth as at the uppor rapul and avoid, an mmense cuantit: of drep excivation
In the hat mile the cutting is from ten to twentry nine fret. Thence in the next half male, it dporend- to 12 fapt, after which it rises agonin pradually to so feet, and continues above the fasel to the end. One lock will be required in each to ronnect the conal wath the weet lelow the rapul. Lot No. 3 in eaturite No 1 and lock No. 4 in entimate No 2, being a lift of 9 feet 8 inclies- 2 road budges will also be required

Exearation
Do. No. 3 in estimate No. 1
Do. No. 4 in pstumate No 2
Dan
2 rond bridgeq
Fencing
From the foot of the rapud plat to point A. voyon a distance of 11 miles, we adopt the natural channel A tow path and deepeming ahmale will be required for the 4 teet canal.

Fixcuratun in river
Maling towing path
At point is yon we quit the river for a dislunce of 64 chands The situation is favouraWe. Like at the upper rapids we contract the bottom width of the Canal. The line being near the margin of the river, the earth may be deposited in the water. Lock No. 4 will be sequired in estrmate No. 1 and lock No. 5 in No. 2, being a lift of 3 feet 6 in .

## Exravation

Zock No. 4 , in cstimatc No. $1^{\circ}$. . . Lock No. 5 , in estimate No. 2
Puddling
Fencing
From thence to Doctor Archibald's point, a distance of three miles and a quarter, we adopt the natural chaunel. No expence will therefore ncent in the \& foet canal The formation : $f$ a towing path and some bridging will be required for the 4 feet canal.
Tow path and bridging
From Doctor Arch:bald's point. we leave the river for a distance of 3 mulea and 72 chaina to pass the Long Sault rapid. From the place of departure to Hoopie's Creek is $40^{\circ}$ chain-, cheefly throngh low and favourable cutting. ithence we ascend the crepk 60 chains in the first half of which very hitle espence will be incurred, berng a wide sluggish stresm "ith an average depth of 7 feet water. The remaning half will requite deepening, the average depth of mater belng from 4 to 5 feet A tnwing path will be ne. crssary along the bank of the 4 feet canal. From Hoople's Creek the line runs through low and farcouable culting of black soal and clay about 2 miles; then it drope into a wide and deep ravine which continues to Brownelli. Bay, the place of entrance, 3 locks will be requred in rach Nos. $5 \& G$, each 6 feet hift and No. 7 of 6 feet 6 inches in the 8 feet canal and locks Nos. 6. $7 \& 8$ in the 4 feet canai, the bifts being the ame. Three rond and one tow path bridge will also be regured.

## Excavation <br> Locks Nos. $5,6 \dot{\&} 7^{\circ}$ in estinnte $\dot{\text { No. }} 1$ <br> Locka Nos.6, 7 \& 8 in estımate No 2

## Purding

Phrce road bridges
One tore path do.
Grubbing
Frncing
From Brorneil's Bay we proposed adoptity the natural streas to the head of Mill Roche rapid, distance 3 miles, a bitle rock excava. tion will be unavordable in the 8 feet canal, at Monlinette rapid. A towing path and bridges will be required in the 4 feet canal.
thock excravition
Making Towing Puth


| - | Eslimate No. 1, 3 feet Canal. |  |  |  |  | that | e No. 2 | ept liamal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Rate } \\ & S . \mathrm{r} \\ & \hline \end{aligned}$ | E s.d. | $\underline{\sim}$ | No. Cubic Yarda | $\left\lvert\, \begin{aligned} & \text { Runc } \\ & \text { S. }\end{aligned}\right.$ | 土 s. d. | Es. d. |
| Frou ble icad of mille kache to Coramall Buy, adetance of " mulea and 22 chams, we |  |  |  |  |  |  |  |  |
| entirely dbadun the river, it is therefore pro- |  |  |  |  |  |  |  |  |
| posed to construct a permanent waste wetr a- |  |  |  |  |  |  |  |  |
| cross the strpam and rase the watur 13 feet |  |  |  |  |  |  |  |  |
| perpendicularly, the sumation bidy very suta- |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| dep:h of 4 frot wifer in Bronnell's Ray, and |  |  |  |  |  |  |  |  |
| sare the expence of deepening the natural bed |  |  |  |  |  |  |  |  |
| all the way down eacept a lutle as Monlinette, and by |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| we aluo anod the erpence of 13 fect in the depth of cucarition, |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Cornwall; besides th will guard the canal aganst |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| plus water down the natural rhami whech being at command swill be |  |  |  |  |  |  |  |  |
| being at comnand will be eminontly uscful for hydraulie purposes. |  |  |  |  |  |  |  |  |
| ajurablir purposes. In the tirat 2 miles the cuttane scrma conolderably above our ievel |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| The nature of the cravarion on the fist nate is lonm and rimemed, whit fove rones: th |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| second mile is chaft clay. Thenre the culting |  |  |  |  |  |  |  |  |
| is favoualite, iacerf abuat 50 chans near the terminition where the line crosses a high stoney |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| in the abose dutince. A litile under water exrasation will be reguired in the Bay for a |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| distance of 2 chiuns, iseraging 3 feet cat $\quad \square \quad \square \quad \square \quad \square \quad \square$ |  |  |  |  |  |  |  |  |
| ting across a bar directily opposite the entrince of the casinl Four locks will be required. |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| ith bempeach 7 fret 6 inchec. Seven road \& 2 tow path bruiges, will aloo be requred |  |  |  |  |  |  |  |  |
| Exrivition - - - - - |  |  |  |  | 35.168 |  | 1343160 |  |
| Un. in Cornwall B.ay - - - - | 141 | 5 | 352 101 |  | antar | - | 1340150 |  |
| Sabanhrse - - - - - - - - | 34144 | 10 | $\begin{array}{lll}3.28 \\ 1892 & 13 & 4\end{array}$ |  | 3414. | 10 | $\begin{array}{llll}1422 & 13 & 4\end{array}$ |  |
| Puddling - - - - - | 7108 | 6 | $\begin{array}{ccc}173 & 4 & 0\end{array}$ |  | G6n: | 6 | 166141 |  |
| Lochs Now. 8, 9, $10 \pm 11$ in estimate No. 1 | 6108 |  | 1190080 |  | 60." |  | 106 110 |  |
| Locks Nos. $9,10,11812$ in pstumate No. 2 |  |  | 11200 |  | , |  | 6194 00 |  |
| Wasle Weir - - - - - - |  |  | 10000 C |  |  |  | 100000 |  |
| Suven raad bridges - - - - - - |  |  | 118000 |  |  |  | 49000 |  |
| Cron low palin do. - - - - - - |  |  |  |  |  |  | 9900 |  |
| Grubhing - - - - - - - |  |  |  |  |  |  | 7000 |  |
| Frociug - - - - - - - - |  |  |  | 5716\% 67 |  |  | 201100 | 20003134 |
| Total, |  |  | $\frac{8}{4}$ |  |  |  |  | 928341118 |

It will be seen by reference to the preccuing Esimates that the hare calculated the erpease of constructung canals apon two differiat scales.

The first or hargr-t to cost $\mathcal{X} 176,378$ 3 5 , and the other $\mathcal{L} 92 ; 3411119$. Thug it appears that a safe and permaneat hane of navisation down the River St. Lawrence of Cornwall for versels capable of narignting the lakes may be effected at an expense absolutely triftus then compared wilh the many anvantages to be derived from an improvement of this nature.

The above sum- are consudered sufficient to complete the work, yet we are aware that in an undertaking like this, unforeaeen obstaries olten present themselves in the progress of the work, anil being generally of a coatangent nature, it is impossible to ascercain or calculate them actually by the most munute surveys.

A question will naturally ariee thit will admit of some decasson, as to which of lie above scales it would be most expedient to adopt, but opon dise relection upon the comparative adpantages and the local atuation of the country, we feel decidedty in favor of the largest, being designed boilz for stcam-bont numgation and schonoer navigation. Dne inducement tor giving a preference to this sc e, di one of primary importance, se the advantages that would accrue to the trade of the Wratern Districts from the practicability of pasing through the canal with such vessels as are acatable to the navigation of the upper lakey. By making it of correspondiag ditreasions with the Wellind Canal, nireaty so tir adpanced ioward completion, it would, in connexion with that work, aot only facilitate and expedite transportation, but save a vast expense and inconvenience in breaking bulk and transterring cargoen from one kiod of resecl to another, subjecting goods to injury alrealy too frequenily expersenced by the existing mode of tramportation.

We must express our regret, however, that having not been authorised to extend our survey beyond the boundary line of this Province, ve are not enabied to gire a full and satuffrtory statemeat of the prarticability and probable expense for effecting a safe davigution thronghout. Without which, the primerpal object of our enterprise will be but in part altaned.

We feel sar gouc, nevertheless, that upon proper representation, Lower Canada will come forsard with alacrity to unite with us in suppurt of an improvement enbancing their own commercial interests equally with ourc. Of this they are no doxbt nensible, and will therefore be more ready to co-operate in as undertaking fhich, without their atd and concorrence, can gever be fuily accomplshed. The Cedar Rapid and Cascadea, although serioas obstructions in ibe present aavigation, offer (as we are infuraed) great fucilties for improsement.

Then by making the necessary alterations in the Lachine Canal we should open a direct and unnterru pted narigation from one extremity of the Provinces to the other, and might cheerfully knticipate the tume, as not fardistant, when vessels of barden wonld be enabled to pass and repass from Quehec to the most western setllements of this Proviace.

In taking a nearer view of the ubjecte of thi contemplated imprivement in the navigation we would beg leave to suggest the great propriety of making a cattil for steamboat navigation, for by steamidats we anticipate the greater part of our trade will creatually be carried on Safety and expedition in the transt of goods being two essential requisites in commercial economy.

St ambonts will theretore alrays have a decided advantnye-beaides after passing through the candl at the several rapids, they will scek their way up the shannel of the river without any interrupuco, requirng neither towing path nor any other extra expeoce
 calm weather be unavoidamy detained or depend upon towing.
in tiur case a towing path" abd bridges would require is be constricted upon the banks, the whole coarve of the river. A channel would also binve to be cat through shonis ia many places of great lengtb, and after all na insurmountable daficulty would present itself opon their arrival at Kingston, and cause delnys provided they are destined for the Upier setilements.

The same objection as it respecta the formanon of a toring path, bridges and cuttuga a chanacl along the shore is also applicable . porath thougb in aleas degree.

A canal upon the scale recommended would also be of creat adranage to the lamber trate, by making the locks to feet wide ur proposen, rafts \&ic of the ordinary size might pass through with rase and safety, aroding the expence of pilote as well at the danget to running orer the rapidy

It ham hilherto been argued that ste:mmionte are irjurioue to canals and should thorefore not be admitted, but the fallicy of this argument we believe has been fully demonstruted an Europe. At all eients we feek convinced that it can only apply to cinala, ff small dimetisiona.

Hartig been pinticulirly directed to asiertuin the stuation of the channel oa the north side of Barnhart's Island, we devoted some tume to that parpose; finding however nion due exmmution thit all emdeavours to render that channel practicable for the transportaton of lumber and other produce from the upper couniry munt altumately prove abortwe. There being no pasubility of approching it with grfetr in descending the river on account of ithmmedate connexion with the praripal rapid of the Long Sault, where no vessels or rifis can rier altempt to deecend

The channel along the Northaide of the inhad sa much contercted and very choal, without water sofficient to float a loaded boit of the ordinary aze. But inasmuch as $t 1 n$ wot capable of acess at the head, we abondoned all deas of matang unprovements on any other part of that channel, besties theght probibly be questioned whether we have the right of such anprovement ence it cannot be done whout interlermg with the shmi, wheh is unfortuately chamed by atothe government.
 Sheck's lhand, we propose to construct a waste weir acrow the nurtia branch in order to raise asutheient depth of witer and entuely


 well adipted.

If whatly granfying to uc to lie enubled to state for the information of your Errellency und others, that the naturnl advantages for

 operation- The only phace on the whole route that witheattended with any partacular inconvemence is at the rapid Plat, the lank aljarent in the rise he very high and will cause some deep excultion whith it is imposvibie to avord.

It has been sugested that the naverum of the river $S$. Lan rence might be sutficiently mproved by deepenan the natural bed. conctructung lock-, \& and superst the riretpis and expence of canals. We feel cunscious however from actual survey and due rellectun that ach epmons could only orignate with permant who have not propelly exammed the nature of the different ultuntions or at leat, they camot be fully armare of the espence and inconventenre tir muat naturally atteud an attempt to effect a channel capd

 fir vecols of buten in to cut canalh where the river cannot interfore. It wh he sern however that we propose to alopt the natural
 the fect. It may not be unvortiy of r.mark that 13 mifes of excaration and eleven locks areraging six feet hifs is all that will be required, (having aesther aqueduct or culvert) to effect a complete line of narigation, the whole of the above distince. All the rapids abuse the Loug Sentt are practucable in going down. vesel, will of course prefer the ntur il chanuel being more "xperhtious and less expenive. It is those ascending only, that wall require the cnanl which allows us to contract the width of those placis and gre.aly re. duce the expence.

It would be imposible for us at the moment to anticipate the innonerable adoantages that most nuturally result from an enter. prise like ths; nether do we consider it necessary to potat out infimportance of opening auch a line of commumication fur advincing the prosperty of thas country; for if we look bach to Europe and yen to the thite of New York we spe the fact fally dem anstrated.

With anch anlutary examples before us, th to be hoped, that ary indivilual acquanted with the gengraphy of our $c$ mory, nat? the advantares which the hand of nature has so hberally bestowed tipon us, it fully convinced of the profis it would tecure to the trade of these Colones. We shall therefore only atterapt to p .mst int a few lending facts mmediately conaected with our commerctal interest.

The St. Lawrence being the shortest and most direct line of communceation with the Allantic, will, by removiag a few matural obastructiona, ever be the highriny for commerce notwithstanding mprovements in any other quartor.

The Ridenu Canal, if rarried inio ، flect upon tbe plan suggested. will be a most stupendous work, and will in tume of war be $n$ infinite importance to the secursty of this Province; being in the interior it will form a safe depot and open an modepenipat line f communcation through the country completely out of reach of the enemy. It will ant only be eminentiy udeful in a m litary point of view, but it will aleo open an outlet to a large extent of fertile conntry butherto nearly exrioded the market, and miterially facilthate the frabapit of lumber irom immense forests, now onc of the chief sources of trade. Besides, if accomplished by the Imper:al Government. (wil rut the and of if frosincial fund) as at preseat contemplated, it will canse a large amovnt of captal to be brought into and expended in the Colonims wheh will render th the more desirable. But as it reapects onr commerchal interest in general the St Luwrence is an object of prumary mportance, and whel should naturally first nccupy the attenfon of vor Leculatiare, as the particular object in expendiug manty on cathas is to fachinte and rapente the aransportation of our commodities to market. No route. we beliric, poascones equal natual adrantage whit the one now in contemplation ; being the shortest, it will alkars enable forwarding merchants to transport soods much cheaper and quicher than by any uther line, and $t$ is reasonahle to suppose that commerce will find the way by the shortest and che.pett route.

Another important advantige worthy of notice in this woik is, the many valuable sites that will he obtained for mills and machine. ry, a there is not a duralle steam of natel from Kingston to Lewer Cinada on our side, except the Gannouque, capable of turning mills for manufacturing the quabtity of fluor necessiry for linme con-tr ftiod, an inconvenience sererely felt by the inhabitants of a large tract of country which, for the growh of wheat, wot eupassed by any other part of the frovince. Armong the few mills occasionally in operation, not orie of them save on the stream shove alladed to) is c.pable of making good merchantible flour for marLet, and owing to the finctuations of the water in the river during the summer, and the accumalation of of ice in the winter, thery become en limited in their operations that farmprs are frequenily compelled to go from 40 to 50 aules and cross into the United tateto get grinding done, and then (unless they smuggle) their gram ix suliject to duty in crossing the !ines.

Mills and marhinery, to any necessary evtent, may be erected at Mill Roche, Cusowall, and at the foot of must Rapids where the canal will dracend by means of Loiks. and whire there will be an ineshasctible supply of water at all seasuns complete' $y$ at com mand withont materially interfering with the navigation.

Thas, among many others, is an ohject that will not be the lenst io stimnlate the trade and ayricultare of this rining Colony.
Our present shackled mode of conveyance up the St Lawrence causes a very serious impeliment to the trade of our upper districts ; the enormuls rates of transportation amount almost to a prohibilion of heavy articles. It excludes mefichants $\mathcal{S}$ others along the frontier from a fair competinion with treir American neighbours. The easy access to the New York market by means of their canals: gives them a decided advantage over our trade, and except we effect similar improvements on our line of transit, a great proportion of the commerce of Upper Canada must necessarily sepk a rent the same way. which will causc a constant drain of money from this province to the U . S. and erreourage smaggling (which to restrictions can ever entirely suppress) to the injury of our revenue.

We have not been enabled to collect all the necessary information in order io enter into a minutr de tail on the comparative advantages that an improved line of navigation would produce. It appears however that the present price of transportation from Montreal to Prescott, a distance of 135 miles. is 4 s . per cwt or $£ 4$ per ton. Thence to York, or Niagara, about $25^{\prime \prime}$ miles, the price is 2 s. per cwt. or $£ 2$ per ton. by Whish it will'appear that owing to the imperfect state of the navigation, oue ton of goods costs as mneh in proportion from Montreal to Prescott as three tons and three quarters from the latter place up, adverting simply to the difference of the expence of carriage and saying nothing of the hazard delay and wear and tear of boats in dragging them over rocks and shoals:

We are not in possession of the rates of"transit on the Erie Canal, but are informed that the arerago cost of a ton of goodsis about 3 d permile; at which rates 13.5 miles, the distance from Montrcal to Prencottio
 in that distance. A ton of goods from New York to Niugara costs L5. From Montreal in the eient of an improved navigation it could not.erceed e's 139 leaving a balance in favour of Montrcal, market, of $\boldsymbol{E}_{1} 6.3$ on every ton admitting them to be subject to the same rate of tolls the whole distance to Prescott as on the Erie Canal ; but the probability is that the expence would be considerably diminished to the latter place an tolls could only be demanded where the canal passes the rapids. whereas on the Eric Canal they pay toll the whole distance, which must give us an advantage in the expence of transportation.

Should there be any persons, less sanguine than'we are, who still doubt whether the advantages to bc derived from this canal would warrant the undertaking, we would beg leave to refer such to the very able letter written by John Macaulay, Esq. President of the late Commissioners of internal navigation, and subjoined to their report of the 25th February 1825. By"whieh it will be seen that from his immediate. knowledge and active researches he. has proved beyond a doubt, that a canal by the Rideau, would not only pay the interest on the capital expended, bat yield an annual revenue.

The line of intercoursi down the 5 . Lawrence being 54 miles slrorter, and having at least 350 feet less lockage, (one of the chief sources of expence on canals) besides many other superior natural advantages. mast always command a greater propprtion of transit, and will consequently be more productive.

## SAMUEL CLOWES.

Work, 12th Dember, 1826.

Primed at the Ogine of the Cotonial Adrocation - 7y. Ordes of the Bouse of Amembty:

