

Concrete Crib for Pier Construction at Victoria, B.C.

A contract has been let by the Public Works Department for the construction of two piers at Victoria, B.C., which are to be followed by two more of similar size and design. The cost of the two now proposed will approximate \$3,000,000. The piers will be 250 ft. wide, from 800 to 1,000 ft. long and spaced so as to allow a 300 ft. berthing slip between them.

In preparing the foundations the first work will be the dumping of large rock at the site, bringing the water to a uniform depth of 35 ft. The maximum natural depth is 65 ft. After sufficient rock has been dumped divers are to be employed to mark off the foundation and then assist in leveling a strip 35 ft. wide just inside the entire perimeters of the docks. This leveling will be done by dumping small rubble where required and having the divers pack up the surface. The central portion of the foundation area will be left in the rough.

While the foundation is being prepared reinforced concrete cribs, 100 by 35 ft. in plan, with 39 ft. walls, are to be built and launched. These cribs are to be strengthened by two longitudinal walls 11 ft. 8 in. on centres and transverse bulkheads 10 ft.

apart and 10 in. thick. The floors and main walls of the cribs are to be 20 in. thick, and sea cocks are to be provided in the floors to admit water for sinking the cribs after they have been floated to the exact location desired over the 35 ft. strip which has been leveled off around the foundation border. These cribs are to weigh 3220 tons each, and are calculated to draw 29 ft. of water.

The cribs will be located end on entirely around the piers, 20 being required for pier 3, twenty two for pier 2, and three for the bulkhead between piers. All of these bulkheads will stand with their tops 4 ft. above low tide level. When the cribs have been sunk in place they are to be filled with rubble, which will then be levelled off to provide a uniform base for the superstructure. The superstructure is to be of concrete and will rise to a height of 12 ft. above the cribs for the full length of the piers. Finally, the area between the superstructural walls will be filled with hard-packed rubble.

It is estimated that 4,334 tons of reinforcing will be used in the cribs, which are to require 66,500 cu. yd. of concrete, while the superstructure will need 18,000 cu. yd. more. The total rock capacity of the cribs will be 161,000 cu. yd., while 1,094,000 cu. yd. more will be needed to fill in between the cribs and behind the bulkhead.

The plans and specifications of the docks have been prepared under the direction of the Chief Engineer of the Department of Public Works. J. S. MacLachlan, District Engineer for the Department, will supervise the construction.

The Abolition of the Quebec Corporation of Pilots.

The Minister of Marine has introduced a bill into the House of Commons, to amend part 6 of the Canada Shipping Act, relative to the Corporation of Pilots for and below the harbor of Quebec. The bill provides that the Minister shall have charge of the examination, licensing, control and management of the pilots and pilot apprentices, pilot schooners and other vessels for the pilotage district of Quebec, of all questions respecting pilotage arising in connection and of the collection of all pilotage dues, and all powers vested in the Corporation are to be transferred to and vested in the Minister. All the powers hitherto vested in the Corporation of Pilots are to be repealed, but the management and disposal of the pilot fund is not interfered with, it being exercised under the supervision of the Minister, as heretofore.

List of Steam Vessels Registered in Canada From Jan. 1 to Apr. 30, 1914.

No.	Name	Port of Registry	Where and When Built	Length	Breadth	Depth	Gross Tons	Reg. Tons	Engines, Etc.	Owner or Managing Owner
130227	Athabasca		Athabasca Landing,							
	River	Winnipeg	Alta.	1912	136 0	23 0	3 6	341	231	9n.h.p. pa.
134076	B.C. Maid	Vancouver, B.C.	Seattle, Wash.	1893	65 0	14 7	5 7	80	26	8 " sc.
84134	Bellona	Montreal	Dundee, Scotland	1881	340 0	40 2	23 8	2032	1864	320 " "
130280	City of St.									
	Boniface	Winnipeg	Winnipeg	1913	100 0	30 0	4 0	314	163	13 " pa.
104606	Cruizer	Halifax, N.S.	Glasgow, Scotland	1895	150 0	24 5	13 0	380	24	112 " sc.
134230	Edouard G.	Montreal	Sorel, Que.	1914	69 0	16 0	7 5	71	32	24 " "
134111	Fispa	New Westminster	New Westminster, B.C.	1913	74 0	14 0	7 5	63	25	12 " "
126659	Glenfinnan	Midland, Ont.	Cleveland, Ohio	1893	324 0	42 0	19 5	2406	1472	195 " "
134251	Granite Rock	Winnipeg	Winnipeg	1913	110 0	22 7	10 2	214	99	42 " "
116572	J. T. Horne	Fort William, Ont.	Port Arthur, Ont.	1913	123 6	23 0	14 4	423	291	117 " "
130387	John E. Monk	Amherstburg, Ont.	Sandusky, Ohio	1887	72 0	16 5	7 5	58	40	10 " "
134119	M. C. M.	New Westminster	New Westminster, B.C.	1914	69 3	17 3	6 9	73	46	16 " "
130279	McKenzie River	Winnipeg	Fort Smith, Alta.	1911	126 0	26 0	5 0	413	287	9 " pa.
126660	Minnekahta	Midland, Ont.	West Bay City, Mich.	1893	323 0	42 5	20 5	2769	1644	144 " sc.
130717	Northland									
	Trader	Kenora, Ont.	Fort Smith, Alta.	1906	87 0	16 5	6 0	110	59	8 " "
130719	Notin	"	Winnipeg	1913	48 0	10 0	9 2	18	13	4 " "
87034	Santa Maria	Vancouver, B.C.	Govan, Scotland	1883	154 0	22 0	12 4	235	124	80 " "
88730	Sindbad	Montreal	Scotswood, Eng.	1883	216 2	31 2	13 5	897	539	99 " "
130390	Sir John	Ottawa	Sorel, Que.	1902	81 2	17 3	8 0	94	41	8 " "
130276	Slave River	Winnipeg	Athabasca Landing	1912	109 0	23 3	5 0	318	205	5 " pa.
130390	Trudeau	Ottawa, Ont.	Lockport, N.Y.		75 5	17 0	8 0	81	55	8 " sc.

List of Sailing Vessels and Barges Registered in Canada From Jan. 1 to Apr. 30, 1914.

No.	Name	Port of Registry	Rig	When and Where Built	Length	Breadth	Depth	Reg. Tons	Owner or Managing Owner
134212	Albert Meyer	Prince Rupert, B.C.	Schr.	1896 Fairhaven, Cal.	156 0	36 0	11 9	398	Atlin Construction Co., Toronto.
134046	Allison H. Maxner	Lunenburg	Schr.—Glt.	1913 Lunenburg, N.S.	104 2	25 8	10 5	92	E. Maxner, M.O., Lunenburg, N.S.
134047	Aranoka	Lunenburg	Schr.—Glt.	1914 Mahone Bay, N.S.	97 6	25 0	10 0	94	R. Hiltz, M.O., Indian Point, N.S.
134118	Atagi No. 1	New Westminster, B.C.	Barge	1913 Steveston, B.C.	50 0	16 0	4 0	28	Atagi, Steveston, B.C.
134120	B. C. T. No. 2	"	"	1912 New Westminster	79 6	29 0	7 0	147	B.C. Transport Co., London, Eng.
134121	B. C. T. No. 6	"	"	1912 " "	79 6	29 0	7 0	147	" " "
134172	Cecil L. Shave	Shelburne, N.S.	Schr.	1914 Shelburne, N.S.	96 0	23 0	9 6	98	T. Shave, Burin, Nfld.
134081	Coquitlam City	New Westminster, B.C.	"	1914 Pt. Coquitlam, B.C.	196 0	41 0	13 0	922	Coquitlam Shipbuilding and Marine Ry. Co., Port Coquitlam, B.C.
134237	Don R.	Montreal	Scow—Chd.	1914 Montreal, Que.	120 2	28 1	8 5	225	Quinlan & Robertson, Montreal.
134122	E. E. H. II.	New Westminster, B.C.	Barge	1913 New Westminster	117 8	39 8	9 2	375	E. E. Higgins, Eburne, B.C.
134123	E. E. H. III.	"	"	1913 " "	117 8	39 8	9 2	375	" " "
134234	Edward Q.	Montreal	Scow—Chd.	1913 Montreal, Que.	99 7	28 4	6 6	145	General Contracting Co., Montreal.
134240	Frank Q.	Montreal	Scow—Chd.	1911 Montreal, Que.	110 3	28 2	7 2	174	" " "
130766	Harriett D.	Kingston	Barge—Chd.	1885 Mount Clemens, N.Y., U.S.A.	163 9	32 2	11 4	460	J. Donnelly, Kingston, Ont.
134045	J. Henry Mackenzie	Lunenburg	Schr.—Glt.	1914 Lunenburg, N.S.	109 8	26 3	10 4	199	W. C. Smith, M.O., Lunenburg, N.S.
134238	Leo B.	Montreal	Scow—Chd.	1911 Montreal, Que.	110 8	28 1	8 2	100	General Contracting Co., Montreal.
133672	Lottie R. Russell	Halifax, N.S.	"	1895 Leesburg, N.J.	122 8	32 6	10 4	282	C. Brister, Halifax, N.S.
133942	Naden	Ottawa	Schr.—Glt.	1913 Vancouver, B.C.	80 0	20 1	8 6	88	Minister of Naval Service, Ottawa.
134341	Nap. L.	Montreal	Scow—Chd.	1911 Montreal, Que.	110 3	28 2	7 2	174	General Contracting Co., Montreal.
133943	Norman F. Wilson	Ottawa	Barge—Chd.	1914 Hull, Que.	113 0	24 2	7 8	179	Ottawa Transportation Co., Ottawa, Ont.
133941	P. W. D. No. 114	Ottawa	Dredge	1877 Lockport, N.Y.	72 7	25 0	6 5	103	Minister of Public Works, Ottawa.
133938	P. W. D. No. 120	"	"	1911 Wallaceburg, Ont.	79 0	28 0	6 8	217	" " "
134233	Q. & R. No. 1	Montreal	"Dredge—Drage	1899 Ottawa, Ont.	110 1	35 1	6 8	431	Quinlan & Robertson, Montreal.
134226	R. Charland	Montreal	Barge—Chd.	1909 Sorel, Que.	108 4	23 4	7 3	126	R. Charland, Montreal
134112	R. F. No. 5	New Westminster, B.C.	Barge	1913 New Westminster	86 0	30 0	8 1	84	R. Fenton, New Westminster, B.C.
134036	Transfer No. 5	Victoria, B.C.	"	1913 Nelson, B.C.	224 1	42 5	7 9	681	Canadian Pacific Ry. Co., Montreal.
97098	Urania	Sydney, N.S.	Schr.	1891 Lunenburg, N.S.	85 9	24 5	8 8	100	W. C. Trenholm, Louisburg, N.S.