

Department of Public Works

with a capacity of 900 gallons per minute which is used to clear the drainage well when the dock is in use.

The main pumps, two in number, are of the ordinary style of lift pumps, 4 feet in diameter with a 5 feet stroke, and discharge 14,000 gallons per minute. They are worked by a pair of jet condensing engines, 27½ inches cylinders and 3 feet stroke, and the horse-power is 400. Steam is supplied by three tubular boilers 14 feet 10 inches in length and 6 feet in diameter.

The dock proper is built of limestone from the Terrebonne quarries, the courses being exceptionally large and the stone of the best quality, laid in Portland cement. It is lighted with 12 arc lamps supplied from a Thomson and Houston dynamo, so that vessels can be docked at night and work carried on without interruption.

During the fiscal year, the dock property has been kept in excellent working condition with ordinary care to the pumping machinery and caisson. The north and east walls of the engine-house as well as the shop were painted three coats, the work being done by the dock staff.

The caisson was placed in the chamber and the bottom and lower portions of the sides and ends were scraped and painted with two coats. The timber facing was repaired to ensure a closer joint with the invert and side walls, and this has shortened the time of emptying the dock by from 30 to 45 minutes.

While the caisson was in the chamber undergoing repairs, the extraordinary high tide of May 16th rose above the stop logs and flooded the dock, causing the caisson to float, and raise with it the covering of the chamber as well as the cement in which the ends of the beams are bedded, also causing some slight damage to the folding bridge on the caisson. The sum of \$250 made good the damage referred to.

A 6 inch section pipe and a 5 inch delivery pipe were procured for the fire pumps to furnish clear water from the river outside of the caisson to the reservoir in the engine-room from which the boilers and jet condenser are fed, instead of using, as heretofore, water from the dock or caisson chamber which always contained sediment.

The following is a list of the vessels which occupied the dock during the year:—

| Date. | Name of Vessel. | From | To | Amount. | Remarks. |
|--------------|---|------------|------------|--------------------|------------|
| | | | | \$ cts. | |
| 1892. | | | | | |
| Aug. 12.... | SS. "America"..... | Aug. 5.. | Aug. 11.. | 538 75 | |
| Sept. 27.... | Bark "Prince Oscar"..... | Sept. 24.. | | 200 00 | |
| Oct. 6.... | do do..... | do 26.. | Oct. 5.. | 397 90 | |
| do 19.... | Government str. "Alert"..... | Aug. 30.. | Sept. 15.. | 833 25 | |
| do 29.... | SS. "State of Georgia"..... | Oct. 17.. | Oct. 28.. | 1,696 08 | |
| Nov. 15.... | Government dredge No. 11..... | do 8.. | do 11.. | 340 00 | |
| do 21.... | Stone lifter No. 3..... | Nov. 1.. | Nov. 5.. | 320 00 | |
| do 23.... | Strs. "Montreal" and "Canada"..... | | | 200 00 | |
| Oct. 9.... | Government stone lifter No. 3..... | Nov. 14.. | Nov. 19.. | 325 00 | |
| | | | | | |
| 1893. | | | | | |
| May 5.... | Strs. "Montreal" and "Canada"..... | | | 1,300 00 | Wintering. |
| do 19.... | SS. "Hurona"..... | May 19.. | | 200 00 | |
| June 16.... | SS. "Wandrahm"..... | June 15.. | | 200 00 | |
| July 15.... | SS. "Hurona"..... | May 21.. | July 14.. | 6,842 45 | |
| | Less, refund to Davis for actual outlay on SS. "Alert"..... | | | 13,393 43 87 00 | |
| | Total..... | | | 13,306 43 | |

The expenditure for maintenance and repairs amounted to \$8,470.07, thus leaving the net revenue of the dock for the year \$4,836.36.