

APPENDIX B.3

CHRONOLOGIC SUMMARY OF CONSTRUCTION AND DREDGING IN THE DETROIT RIVER

Fiscal
Years

1874. Approval was given to remove boulders and rocks from the river. The objective of this project was to create a curved channel 300 ft. wide and 20 ft. deep across a bed of limestone at Limekiln Crossing, which had a natural depth of only 13 ft.
1875. A survey of the river in the vicinity of Limekiln Crossing was made by Canada; the results were furnished to the United States. The United States and Canada agreed to unite to remove obstructions from the Detroit River at specific places.
1876. There was no reply from the Canadian government to join the U.S. in the removal of obstructions at the Limekiln Crossing; as such, operations were limited.
1877. Work began in September 1876, in the shallowest portion of Limekiln Crossing; 2,632 cu. yds. of rock excavated; funds exhausted.
1878. Nothing was done by the United States; no funds. Canada carried out some dredging at Limekiln Crossing.
1879. Limekiln Crossing: Drilling and blasting were done over an area of 90,000 sq. ft. containing 7,134 cu. yds. of rock, prism measurement; 3,262 cu. yds. of this material removed.
1880. Limekiln Crossing: As of June 30, 1880, a total of 8,401 cu. yds. of material removed.
1881. Limekiln Crossing: Dredging continued; 13,261 cu. yds. removed.
1882. Limekiln Crossing: Dredging continued; 10,469 cu. yds. removed. In May 1882, due to a lack of funds, the project was stopped.
1883. Limekiln Crossing: The project was modified to provide a straight channel 300 ft. wide, utilizing much of the work already done; 6,534 cu. yds. of rock removed.
1884. Limekiln Crossing: 656 cu. yds. of rock removed.

1885. Limekiln Crossing: 8,401 cu. yds. of material removed.
- A bridge was proposed between Belle Isle and the United States mainland.
1886. Limekiln Crossing: The 1874 project was further modified; its width was to be increased to 400 ft. by removing an additional 100 ft. from the western (American) side.
1887. Limekiln Crossing: The original 300 ft. channel was completed and an additional width of 50 ft. was removed from the western side for nearly the whole extent of the project.
- During the calendar year 1887, construction began on the bridge between Belle Isle and the United States mainland.
1888. Limekiln Crossing: The project continued until September 15, 1889, when it was suspended, due to the exhaustion of available funds.
1889. Limekiln Crossing: The project was further modified; an additional width of 40 ft. on the western side was authorized; drilling and blasting continued; 8,508 cu. yds. of solid rock and 30 yds. of loose rock removed.
- Belle Isle Bridge: Construction completed, during calendar year 1889.
- 1890 Limekiln Crossing: The canal was completed to a depth of 20 feet and a width to
1891. of 440 ft.; some shoals in the vicinity were removed to the same depth; 1,213 cu. yds. of solid rock and 1,584 cu. yds. of loose rock removed; range lights were established by the U.S. and Canadian governments to mark the completed channel.
1892. The need for a project to remove shoals from the head of Ballards Reef to the head of Limekiln Crossing to a depth of 20 ft. and a width of 800 ft. was acknowledged.
- Bar at Mouth of Detroit River: Between December 1892 and June 1896, 970,769 cu. yds., scow measure, removed (mostly sand, clay, gravel and boulders)
1893. A survey was conducted to determine the location and extent of obstructions between the head of Ballards Reef and the head of Limekiln Crossing; obstructions found consisted of bedrock and boulders.
- Hackett Range: Work began on a channel 21 ft. deep by 600 ft. wide.
- Grosse Pointe Flats: Between December 1892 and June 1896, 4,330,951 cu. yds. of material, mostly clay, gravel, sand and boulders removed.

1894. During calendar year 1894, dredging began to remove shoals from an area extending from the head of Ballards Reef to Limekiln Crossing, for a width of 800 ft. and a depth of 21 ft.
- 1894
to
1896. Shoal Near Ballards Reef: 16,097 cu. yds., scow measure, removed.
1897. Grosse Pointe Flats: 1,219,258 cu. yds. of material removed (mostly clay, gravel, sand and boulders); a channel 20, 000 ft. long, 800 ft. wide and 20 ft. deep was completed.
- Bar at Mouth of Detroit River: 40,354 cu. yds., scow measure, removed (sand, clay, gravel and boulders). Many projections remain to be cleared.
- Bridge Across West Channel: Reconstruction plans were approved in April.
- Ballards Reef: East half of channel, 3,661 cu. yds. of boulders removed; west half of channel, 1,513 tons of boulders and bedrock removed to a depth of 21 ft.
1898. Grosse Isle Lower Range: The objective was to clear a channel to a depth of 21 ft. and a width of 600 ft.; east side of range area, width 150 ft., length 6,200 ft. and depth 20 ft.; 4,528 cu. yds. plus 12,946 tons of material removed.
- Amherstburg Reach: The objective was to clear a channel to a width of 400 ft. and a depth of 21 ft.; east half of channel, 200 ft. by 1400 ft., depth 18 ft.; 5,523 cu. yds. of sand, clay, boulders, some limestone and bedrock, removed; partially cleared to a 21 ft. depth, 726 tons of boulders removed.
- Hackett Range: Work began in 1893 and was completed in October 1897; during the Fiscal Year, 82,793 cu. yds. of material (clay, gravel, boulders and loose stone) removed.
- Limekiln Crossing: The depth was improved from 18 ft. to 19 ft. for a width of 440 ft.; 583 tons of boulders and loose stone removed.
- Ballards Reef: 10,855 tons removed from the east side of the range line and from bedrock shoal (150 ft. wide by 250 ft. long) 300 ft. west of range lights. Work in the east channel was completed in October 1897.
1899. Grosse Isle Lower Range: 11,815 tons of rock and boulders and 55,456 cu. yds., scow measure, of clay, gravel, boulders and stone were removed from the east half of the channel between Ballards Reef Light and Duff and Gatfield's Dock, giving a

clear channel 20 ft. by 300 ft. through the Ballards Reef Section for a length of 10,000 ft.. To obtain a 21 ft. depth, scattered bedrock and boulders remained to be removed.

Amherstburg Reach: The channel depth was increased to 19-1/2 ft., length 2,250 ft.; 14,245 cu. yds. of sand, clay, gravel, boulders, some limestone and bedrock removed.

Lower Detroit River: 800 tons of material (1,700 boulders) were removed from the Limekiln Crossing, Amherstburg Reach and Hackett Range. The reach below Limekiln Crossing to the south end of Bois Blanc Island was still limited to a depth of 18 ft.

1900. North End of Limekiln Crossing to South End of Bois Blanc Island: 362 cu. yds. of boulders removed; channel below Limekiln Crossing to south of Bois Blanc Island still at 18 ft.

Grosse Isle Lower Range (south channel range, head of Ballards Reef to Limekiln Crossing, (21 ft. by 300 ft. by 12,000 ft.): 13,771 cu. yds. removed under contract; an additional 10,134 cu. yds. removed by hired labor (plant operated by the U.S. Government), plus 2,147 cu. yds. of boulders removed; work was completed in October 1899; total excavation 84,045 cu. yds., scow measure, of material.

1901. Limekiln Crossing: The objective was to increase its width to 600 ft.; 20, 196 cu. yds., bank measure, of rock removed.

Grosse Isle South Channel: The objective was to deepen the west half of the 600 ft. wide channel to 21 ft. (an area 300 ft. wide and 8,500 ft. long was excavated) 32,346 cu. yds., bank measure, of limestone, bedrock boulders, loose stone, clay and sand removed.

Between Lower End of Limekiln Crossing and Bar Pointe: The objective was a channel 21 ft. by 600 ft. along Bois Blanc Island and Hackett Range, and 500 ft. along Amherstburg Reach; 21,891 cu. yds. of clay, sand, stone and boulders removed.

Shoal Near South End of Fighting Island: The objective was to improve the channel from 15 ft. to 21 ft. in depth; 10,108 cu. yds. of sand, clay and channel boulders removed.

Southern Approach to Limekiln Crossing, East Channel along Bois Blanc Island: The objective was to improve the channel from 17 ft. to 21 ft. in depth; 10,175 cu. yds. of sand, clay, gravel and boulders removed.

Amherstburg Reach: The objective was a 21 ft. deep, 500 ft. wide and 4500 ft. long channel; 3,986 cu. yds. removed.

Lower End of Limekiln Crossing to a Point about 1/2 mi. South of Bois Blanc Island:
2,040 cu. yds. of boulders removed.

1902. Limekiln Crossing: 41,838 cu. yds. above the 21 ft. grade, 15,029 cu. yds. between the 21 and 23 ft. grades and 6,324 cu. yds. below the 23 ft. grade, all of limestone bedrock, removed.

Ballards Reef Channel: 8,741 cu. yds. above the 22 ft. grade, 29,123 cu. yds. between the 22 and 23 ft. grades and 38,840 cu. yds. below the 23 ft. grade, all of limestone bedrock, boulders, and other heavy material, removed.

Amherstburg Reach: 59,665 cu. yds. above the 22 ft. grade and 31,480 cu. yds. below the 22 ft. grade, all of limestone bedrock, boulders and other heavy material, removed.

Upper End of Amherstburg Reach: 14,124 cu. yds. of boulders and heavy material above the 21 ft. grade removed.

1903. Limekiln Crossing: 10,998 cu. yds. above the 21 ft. grade, 4,000 cu. yds. between the 21 and 23 ft. grades and 12,682 cu. yds. below the 23 ft. grade, all of limestone bedrock, removed.

Ballards Reef Channel: 2,396 cu. yds. above the 22 ft. grade, 1,537 cu. yds. between the 22 and 23 ft. grades and 3,105 cu. yds. below the 23 ft. grade, all of limestone bedrock, boulders and other heavy material, removed; work completed.

Amherstburg Reach: 37,798 cu. yds. above the 22 ft. grade and 55,898 cu. yds. below the 22 ft. grade, all of limestone bedrock, boulders and other heavy material, removed.

Upper End of Amherstburg Reach: 3,257 cu. yds. of boulders and heavy material above the 22 ft. grade and 3,570 cu. yds. between the 22 and 23 ft. grades and 6,653 cu. yds. below the 23 ft. grade, removed.

South End of Limekiln Crossing: 3,630 cu. yds. above the 22 ft. grade, 1,850 cu. yds. between the 22 and 23 ft. grades and 1,488 cu. yds. below the 23 ft. grade removed.

Upper End of Amherstburg Reach and Upper End of Hackett Range: 67,250 cu. yds., scow measurement, of heavy material, mainly above the 21 ft. grade, removed.

Isolated boulders to the extent of approximately 370 cu. yds. removed from the channel.

1904. Limekiln Crossing: 1,540 cu. yds. of limestone rock removed; work completed October 27, 1903. A triangular area at the south end of the crossing was deepened from 16 to 21 ft.; 30 cu. yds. removed during the Fiscal Year; the total amount of material removed being 5,502 cu. yds; work completed October 27, 1903.
- Amherstburg Reach: 18,891 cu. yds. of limestone rock removed this Fiscal Year; the total amount of material removed being 98,332 cu. yds.; work completed October 14, 1903.
- Dredging commenced on May 24, 1904 on the Amherstburg Reach and Hackett Range; 7,500 cu. yds. of sand, clay and boulders overlying the bedrock, removed.
- Deepening the Channel to Wyandotte, Michigan: 65,568 cu. yds. of material removed; work completed June 27, 1904.
- Channel between the Head of Ballards Reef and Bar Point: 775 cu. yds. of boulders removed over an area of some 200,000 sq. yds.
1905. Limekiln Crossing: 30,581 cu. yds. of limestone bedrock removed.
- Amherstburg Reach and Hackett Range: Up to June 30, 1905, 186,653 cu. yds. of limestone bedrock, loose stones and boulders, clay and sand removed, of which 179,153 cu. yds. were removed during the Fiscal Year.
- Bar Point Shoals: 8,226 cu. yds. of sand, clay, small stones and hardpan removed between September 27 and November 22, 1904, for the purpose of determining the nature of the material. Commencing on April 20, 1905, 251,674 cu. yds. of sand, clay silt and small boulders removed.
- Between Head of Ballards Reef and Bar Point: 660 cu. yds. of boulders removed.
1906. Limekiln Crossing: Deepening of the west 300 ft. of the 600 ft. channel; 114,000 cu. yds. of limestone bedrock removed; 64% of work completed.
- Amherstburg Reach and Hackett Range: Deepening of the 600 ft. channel through Amherstburg Reach and deepening of the westerly half of the 600 ft. channel through Hackett Range; 304,498 cu. yds. of limestone bedrock, loose stone or boulders, clay and sand removed from an area of about 670,000 sq. yds; approximately 88% of work completed.
- Bar Point Shoals: 859,112 cu. yds. removed; approximately 80% of work completed.

Channel from Ballards Reef to Bar Point: Examined in order to locate and remove obstructions to navigation.

The channel leading from Hickory and Sugar Islands to Lake Erie and to Limekiln Crossing was cleared to a depth of 10.5 ft.

Bar Point Shoals: 859,112 cu. yds. removed; about 80% of work completed.

1907. Limekiln Crossing: Work continued under the existing contract; 37,789 cu. yds. of material above 22 ft. grade, 25,366 cu. yds. of material between 22 and 24 ft. grades and 21,163 cu. yds. of material below the 24 ft. grade removed; work completed on December 15, 1906.

Limekiln Crossing: Under a new contract, work commenced on May 24, 1907, 1,205 cu. yds. of material above 22 ft. grade and 1,473 cu. yds. of material between 22 and 24 ft. grades removed.

Bois Blanc Island Range: 217,750 cu. yds. of material above 22 ft. grade, 42,870 cu. yds. of material between 22 and 24 ft. grades and 30,540 cu. yds. of material below the 24 ft. grade removed; approximately 85% of work completed.

Amherstburg Reach and Hackett Range: 7,921 cu. yds. of material above 22 ft. grade, 13,202 cu. yds. of material between 22 and 24 ft. grades and 5,792 cu. yds. of material below the 24 ft. grade removed; about 97% of work completed.

Bar Point Shoals: 328,190 cu. yds. removed; about 95% of work completed.

Channel from Ballards Reef to Bar Point: The channel was examined to locate and remove obstructions to navigation.

1908. Amherstburg Channel, Limekiln Crossing: 44,965 cu. yds. of limestone bedrock above 22 ft. grade, 53,417 cu. yds. between 22 and 24 ft. grades and 34,264 cu. yds. below 24 ft. grade removed.

Drilling and blasting was done to the extent of 250,462 lin. ft. of holes drilled and 336,104 pounds of dynamite used. The total amount of material removed to June 30, 1908, was 135,324 cu. yds.; about 75% of work completed.

Bois Blanc Island Range: 7,590 cu. yds. of clay and boulders above 22 ft. grade, 32,427 cu. yds. between 22 and 24 ft. grades and 231 cu. yds. below 24 ft. grade removed; work completed on October 30, 1907. The total amount of material removed under this contract was 331,408 cu. yds.

Amherstburg Reach: 534 cu. yds of limestone bedrock, boulders, clay and sand above 22 ft. grade, 890 cu. yds. between 22 and 24 ft. grades, and 656 cu. yds. below 24 ft. grade removed; work completed. The total amount of material removed under this contract was 557,491 cu. yds.

Hackett Range: 47,028 cu. yds, scow measure, of boulders, clay and sand removed; work completed on May 20, 1908.

Bar Point Shoals: 26,974 cu. yds., scow measure, removed; work completed. The total material removed under this contract was 1,424,281 cu. yds., scow measure, above 23 ft. grade and 41,669 cu. yds. below 23 ft. grade.

Livingstone Channel, Section 1: 5,923 cu. yds. of limestone bedrock, boulders and clay above 22 ft. grade and 3,949 cu. yds. between 22 and 24 ft. grades removed; about 3% of work completed.

Livingstone Channel, Section 2: 61,709 cu. yds. of clay and boulders above 22 ft. grade and 3,961 cu. yds. between 22 and 24 ft. grades removed; also, 66,851 cu. yds of material placed in a 6,400 ft. cofferdam, which was built to the water surface.

Livingstone Channel, Section 3: 156,902 cu. yds. of clay, sand and boulders above 22 ft. grade, 29,065 cu. yds. between 22 and 24 ft. grades and 7,287 cu. yds. below 24 ft. grade, removed; also, limestone bedrock to the extent of 9,202 cu. yds. removed.

Livingstone Channel, Section 4: 2,220,306 cu. yds. of sand, clay, silt, boulders and hardpan, scow measure, removed; about 65% of work completed. As a result of the work done, there is in use a channel 18.2 ft. deep from the old channel by the east route to Lake Erie; the rest of the channel is closed to navigation.

1909. Amherstburg Channel, Limekiln Crossing: 15,911 cu. yds. of limestone bedrock above 22 ft. grade, 21,012 cu. yds. between 22 and 24 ft. grades and 18,061 cu. yds. below 24 ft. grade removed; work completed. The total amount of material removed under this contract was 190,308 cu. yds.

Hackett Range: 2,545 cu. yds., scow measure, of boulders, clay and sand removed; work completed November 10, 1908. Under this contract the total amount removed was 109,077 cu. yds., scow measure. Also 1,845 cu. yds. of boulders were removed above the required 21 ft. depth within areas improved by dredging.

Livingstone Channel, Section 1: A cofferdam was constructed around the south 1,500 ft. of contract area and material was excavated within the inclosed channel in the dry; 191,683 cu. yds. of material placed in cofferdam; 90% of work completed.

Dredged 73,671 cu. yds. of limestone bedrock, boulders and clay above 22 ft. grade, 35,225 cu. yds. between 22 and 24 ft. grades and 21,108 cu. yds. below 24 ft. grade; about 35% of work performed.

Livingstone Channel, Section 2: The cofferdam surrounding 2,800 ft. of channel length was completed on October 4, 1908. The cofferdams surrounding other areas (together with 1500 ft. at the south end of Section 1) were under construction. The total amount of material placed in the cofferdams, to June 30, 1909, was 177,000 cu. yds. dry excavation, included removing 1,405 cu. yds. of clay, sand and boulders above 23 ft. grade; limestone bedrock to the extent of 305,440 cu. yds. above 23 ft. grade; 4,029 cu. yds. between 23 and 24 ft. grades; and 1,087 cu. yds. below 24 ft. grade.

Livingstone Channel, Section 3: 854,845 cu. yds. of clay, sand, boulders and hardpan above 22 ft. grade, 158,840 cu. yds. between 22 and 24 ft. grades, 52,944 cu. yds. below 24 ft. grade; and also, limestone bedrock to the extent of 148,666 cu. yds., removed; about 35% of work completed.

Livingstone Channel, Section 4: 1,321,263 cu. yds. of sand, clay, silt, boulders and hardpan above 21 ft. grade and 376,812 cu. yds. below 21 ft. grade removed; about 95% of work completed. As a result of the work done, there is a channel 22 ft. deep, 800 ft. wide and about 11,000 ft. long to deep water in Lake Erie, passing to the east of the Detroit River light-house; the remaining portion of this channel is closed to navigation.

1910. Amherstburg Channel, Limekiln Crossing: 62,081 cu. yds. of limestone bedrock above 22 ft. grade, 75,902 cu. yds. between 22 and 24 ft. grades and 52,325 cu. yds. below 24 ft. grade removed.

Bar Point Shoals: 444,892 cu. yds. of sand, clay, silt, boulders and hardpan, scow measure, removed; work completed on June 25, 1910.

Hackett and Grosse Isle South Channels: 690 cu. yds. of boulders removed.

Livingstone Channel, Section 1: 31,957 cu. yds. of limestone bedrock, boulders and clay above 22 ft. grade, 31,888 cu. yds. between 22 and 24 ft. grades and 23,106 cu. yds. below 24 ft. grade, removed during subaqueous excavation; also, 103,316 cu. yds. of limestone bedrock removed during dry excavation. About 80% of the entire work to be done under this contract completed.

Livingstone Channel, Section 2: 28,023 cu. yds. of clay, sand and boulders above 23 ft. grade, 360,664 cu. yds. of limestone bedrock above 23 ft. grade, 24,236 cu. yds. between 23 and 24 ft. grades and 4,809 cu. yds. below 24 ft. grade removed; also,

20,830 cu. yds. of limestone bedrock above 22 ft. grade and 3,058 cu. yds. between 22 and 24 ft. grades removed, all during dry excavation. Also, 474 cu. yds. of limestone bedrock above 22 ft. grade, 11,473 cu. yds. between 22 and 24 ft. grades and 40,694 cu. yds. below 24 ft. grade removed, during subaqueous excavation. About 90% of the entire work under this contract has been completed.

Livingstone Channel, Section 3: 356,760 cu. yds. of clay, sand, boulders and hardpan above 22 ft. grade; also, 195,667 cu. yds. of limestone bedrock above 22 ft. grade, 56,284 cu. yds. between 22 and 24 ft. grades and 56,630 cu. yds. below 24 ft. grade removed; about 65% of the entire work under this contract has been completed.

Livingstone Channel, Section 4: 506,437 cu. yds. of sand, clay, silt, boulders and hardpan, scow measure, removed.

1911. Amherstburg Channel, Ballards Reef: Under contract dated May 13, 1911, 2,832 cu. yds. of clay, hardpan, boulders and bedrock above 22 ft. grade, 5,378 cu. yds. between 22 and 24 ft. grades and 753 cu. yds. below 24 ft. grade removed.

Amherstburg Channel, Ballards Reef: Under contract dated September 2, 1910, 117,140 cu. yds. of loose rock, boulders, hardpan and clay, scow measure, removed.

Amherstburg Channel, Ballards Reef: Under contract dated August 25, 1910, 82,077 cu. yds. of hardpan, clay and boulders removed.

Amherstburg Channel, Ballards Reef: Under contract dated August 29, 1910, 69,994 cu. yds. of hardpan, clay and boulders, scow measure, removed; work completed.

Amherstburg Channel, Ballards Reef: There were 3,097 cu. yds. of boulders removed.

Livingstone Channel, Section 1: 127 cu. yds. of limestone bedrock, boulders and clay above 22 ft. grade, 756 cu. yds. between 22 and 24 ft. grades and 378 cu. yds. below 24 ft. grade removed; 86,852 cu. yds. of limestone bedrock, dry excavation, removed.

Livingstone Channel, Section 2: An unwatered area surrounded by dams has a channel length of 4,300 ft.; material excavated from the channel was used in the construction of the dams to the extent of 218,500 cu. yds.

Livingstone Channel, Section 2, Dry Excavation: 2,896 cu. yds. of earth above 23 ft. grade, 9,105 cu. yds. of limestone bedrock above 23 ft. grade, 2,090 cu. yds. between 23 and 24 ft. grades, 503 cu. yds. below 24 ft. grade and also, limestone bedrock to the extent of 4,340 cu. yds. above 22 ft. grade removed.

Livingstone Channel, Section 2, Subaqueous Excavation: 62,303 cu. yds. of earth above 22 ft. grade, 262 cu. yds. of limestone bedrock above 22 ft. grade, 4,542 cu. yds. between 22 and 24 ft. grades and 17,712 cu. yds. below 24 ft. grade removed. This contract was completed on May 27, 1911.

Livingstone Channel, Section 3: 86,787 cu. yds. of earth above 22 ft. grade, 5,108 cu. yds. between 22 and 24 ft. grades, 196,599 cu. yds. of limestone bedrock above 22 ft. grade, 111,492 cu. yds. between 22 and 24 ft. grades and 25,964 cu. yds. below 24 ft. grade, removed; about 85% of work completed.

Livingstone Channel, Section 3, Dry Excavation: 50,850 cu. yds. of earth above 23 ft. grade, 190,645 cu. yds. of limestone bedrock above 23 ft. grade, 6,150 cu. yds. between 23 and 24 ft. grades and 741 cu. yds. below 24 ft. grade removed. The side walls were channeled for 46,378 sq. ft. (uniform depth); also, a dry stone wall along the west side of the channel was built to the extent of 10,455 sq. ft. (uniform depth).

1912. Amherstburg Channel, Ballards Reef: Under a contract dated May 13, 1911, 16,122 cu. yds. of bedrock, boulders, clay and hardpan above 22 ft. grade, 66,644 cu. yds. between 22 and 24 ft. grades and 32,108 cu. yds. below 24 ft. grade removed.

Amherstburg Channel, Ballards Reef: Under a contract dated August 25, 1910, 4,410 cu. yds. of loose rock, boulders, hardpan and clay, scow measure, removed. The total material removed under this contract was 86,487 cu. yds.

Amherstburg Channel, Ballards Reef: Under a contract dated September 2, 1910, 19,320 cu. yds. of loose rock, boulders, hardpan and clay, scow measure, removed; work completed on December 27, 1911, the total material removed was 136,460 cu. yds.

Amherstburg Channel, Ballards Reef: Under a contract dated April 29, 1912, 24,715 cu. yds. of blasted rock, boulders, hardpan and clay removed; about 80% of work completed.

Amherstburg Channel, Ballards Reef: Under a contract dated April 27, 1912, drilling and blasting bedrock was done with 15,245 lin. ft. of holes drilled.

Amherstburg Channel, Ballards Reef: Under a contract dated April 29, 1912, drilling and blasting bedrock was done with 21,011 lin. ft. of holes drilled.

Amherstburg Channel, Ballards Reef: Under an oral agreement, drilling and blasting bedrock was done with 11,255 lin. ft. of holes drilled; work completed on December 27, 1911.

Amherstburg Channel, Ballards Reef: 3,493 cu. yds. of boulders removed.

Livingstone Channel, Section 3: Under a contract dated December 23, 1907, 49,794 cu. yds. of earth above 22 ft. grade, 13,353 cu. yds. between 22 and 24 ft. grades and 5,843 cu. yds. below 24 ft. grade, removed; also, 214,141 cu. yds. of limestone bedrock removed; about 96% of work done.

Widening that Portion of the Livingstone Channel Inside the Cofferdams from 300 ft. to 450 ft.: 67,024 cu. yds. of earth and 340,600 cu. yds. of rock removed. Drilling and blasting was done with 175,933 lin. ft. of holes drilled. The side walls were channeled for 43,044 sq. ft. (uniform depth), and 4,526 sq. ft. (uniform depth), of dry stone wall along the west side of the channel was built. About 97% of the work was completed.

The portion of the dams within the channel limits surrounding a portion of the Livingstone Channel at Stony Island, which were constructed during the seasons of 1908 and 1909, were removed during May and June, 1912.

1913. Amherstburg Channel, Ballards Reef: Under a contract dated May 13, 1911, 28,756 cu. yds. of bedrock, boulders, clay and hardpan above 22 ft. grade, 51,775 cu. yds. between 22 and 24 ft. grades and 39,131 cu. yds. below 24 ft. grade removed. The total amount removed under this contract to June 30, 1913 was 243,499 cu. yds; about 99% of work completed.

Amherstburg Channel, Ballards Reef: Under a contract dated April 29, 1912, 8,330 cu. yds. of blasted rock, boulders, hardpan and clay removed; the total amount removed under this contract was 33,045 cu. yds.; work completed on September 4, 1912.

Amherstburg Channel, Ballards Reef: Under a contract dated October 14, 1912, 93,619 cu. yds. of bedrock, boulders and clay removed; about 40% of work completed.

Amherstburg Channel, Ballards Reef: 2,276 cu. yds. of boulders removed from the channel at Ballards Reef, opposite the head of Bois Blanc Island and along Hackett Range.

Livingstone Channel, Section 3: Under a contract dated December 23, 1907, 16,328 cu. yds. of earth above 22 ft. grade, 7,034 cu. yds. between 22 and 24 ft. grades and 1,733 cu. yds. below 24 ft. grade; and also, 19,736 cu. yds. of limestone bedrock removed; the total amount of material removed under this contract was 1,626,456 cu. yds. of earth and 1,034,367 cu. yds. of rock; work completed on November 30, 1912.

Widening Livingstone Channel: 8,335 cu. yds. of rock and 7,088 cu. yds. of other material removed; the total amount of material removed under this contract was 117,874 cu. yds. of earth and 553,568 cu. yds. of rock; the total amount of channeled wall built was 89,422 sq. ft., and the total amount of dry stone wall built was 14,981 sq. ft.; work completed on September 21, 1913.

As a result of the work already done, there is available for traffic a channel about 11 miles long, from Ballards Reef to deep water in Lake Erie; this channel was formally opened for traffic on October 19, 1912.

Fighting Island Channel: Specifications were prepared, work was advertised and bids were opened on June 16, 1913.

1914. Amherstburg Channel, Ballards Reef: Under a contract dated May 13, 1911, 287 cu. yds. of bedrock, boulders, clay and hardpan above 22 ft. grade, 276 cu. yds. between 22 and 24 ft. grades and 98 cu. yds. below 24 ft. grade removed; the total amount of material removed under this contract was 256,504 cu. yds.; work completed on August 6, 1913.

Amherstburg Channel, Ballards Reef: Under a contract dated October 14, 1912, 48,968 cu. yds. of bedrock, clay, hardpan and boulders from above grade and 60,098 cu. yds. of similar material from below grade removed; the total material removed under this contract was 91,456 cu. yds. from above grade and 111,229 cu. yds. from below grade; work completed on June 8, 1914.

Livingstone Channel: Under a contract dated October 27, 1913, 86,126 lin. ft. of holes were drilled, but more of this broken material was removed by dredging; with the removal of boulders a channel area of 5,000 sq. yds. was cleared to grade; contract was about 10% completed.

Fighting Island Channel: Under a dredging contract dated June 26, 1913, 310,743 cu. yds. of sand and clay were removed from five shoals at the Fighting Island Channel; work approximately 22% completed.

1915. Livingstone Channel: The entrance to the channel was widened by removing portions of a reef of limestone bedrock on western side; and removed boulders over an area of 58,000 sq. yds.

Fighting Island: The channel was straightened abreast of Fighting Island by dredging clay and sand; work completed.

- 1916 No construction and/or dredging information found.
to
1919.
1920. Livingstone Channel: The objective was to widen the channel to 450 ft., and to construct a compensating waste bank and a dike along the westerly channel side; contract entered into on February 11, 1920. Under this contract about 350,000 cu. yds. of earth and 156,000 cu. yds. of rock will be removed.
- By the close of the Fiscal Year, 48,334 cu. yds. of earth and boulders removed.
1921. Livingstone Channel: 248,211 cu. yds. of earth and boulders overlying ledge rock removed and 79,315 cu. yds. of ledge rock removed (to provide for widening channel to 450 ft. and to construct west side dike). West side dike 80% completed, with 176,193 cu. yds. of material placed.
1922. Livingstone Channel: Under the contract dated February 11, 1920, to widen channel to 450 ft. for 10,310 ft. and construct west side dike; earth removed, 35,081 cu. yds.; ledge rock removed, 76,361 cu. yds; and rock placed in west side dike, 76,628 cu. yds.
- Livingstone Channel: Under a contract dated March 1, 1921, to widen the channel to 450 ft., to construct west side dike and to construct west side compensation works; earth removed, 125,317 cu. yds; ledge rock removed, 32,295 cu. yds; rock placed in west side dike, 19,546 cu. yds; and rock placed in compensation works, 1,857 cu. yds.
1923. Livingstone Channel: Under a contract dated October 1, 1921, to widen the channel; earth removed, 40,065 cu. yds; ledge rock removed, 73,504 cu. yds; rock placed, west-side dike, 43,092 cu. yds. and rock placed, east-side compensation works, 8,118 cu. yds., completed in November 28, 1922.
- Livingstone Channel: Under a contract dated January 17, 1923, to widen channel; earth removed, 47,434 cu. yds. and ledge rock removed, 11,616 cu. yds.
1924. Livingstone Channel: Under a contract dated January 17, 1923, to widen channel; earth removed, 199,626 cu. yds. and ledge rock removed, 117,854 cu. yds.
- Livingstone Channel: Under a contract dated July 9, 1923, earth removed, 421,700 cu. yds.
- Amherstburg Channel: Obstructions removed restoring project depths.

1925. Livingstone Channel: Under the continuation of the channel widening contract, earth removed, 43,404 cu. yds. and rock removed, 134,546 cu. yds.; widening the channel through the earth section, under contract, 239,028 cu. yds. of earth removed and 63,688 cu. yds. removed by U.S. Dredge.
1926. Livingstone Channel: Removed, by place measurement, 1,648 cu. yds. of earth and 12,524 cu. yds. of rock.
1927. Leveling off dumping grounds south of Bois Blanc Island.
1928. Leveling the dumping grounds south of Bois Blanc Island to provide a depth of 5 ft. at datum was continued; completed on August 16, 1929.
1929. Lake Erie End of Channels: Removed 52,728 cu. yds., bin measurement, of material (maintenance dredging).
1930. Lake Erie End of Livingstone Channel, Earth Section: A channel 8,000 ft. long and 800 ft. wide was dredged to a 22 ft depth; removed 296,987 cu. yds., place measurement, of earth.
- Lake Erie End of Detroit River Channels, Maintenance Dredging: Removed 92,244 cu. yds., bin measurement.
- Channels Near Mouth of River Rock Sections: Loose rocks and boulders, obstructive to navigation, removed.
1931. Lake Erie End of Channels: Removed 51,394 cu. yds., bin measurement, (maintenance dredging).
- Channels Near Mouth of River Rock Sections: Loose rocks and boulders, obstructive to navigation, removed.
1932. Amherstburg Channel: Loose rocks, obstructive to navigation, removed.
- Amherstburg Channel: A 24 ft. navigation project began.
1933. Livingstone Channel: Contracts were made for deepening in the rock portion of the channel and for deepening of a 13,000 ft. length in the earth portion southerly from the rock section; 323,200 cu. yds., mainly rock, removed.
- Fighting Island Channel: 130,000 cu. yds. of earth removed.

Maintenance dredging was conducted in the channels passing east and west of the Detroit River Lighthouse at the mouth of the river: 81,036 cu. yds., bin measure, removed.

Amherstburg Channel: About 30 boulders or loose rocks, obstructive to navigation, removed.

1934. Ballards Reef Channel: Deepening 8,540 ft. long rock portion of the channel, 149,240 cu. yds. removed; deepening the earth portion of 5,460 ft. length at the north end, 193,856 cu. yds. removed.

Livingstone Channel: Deepening 32,000 ft. long rock portion of the channel; 538,946 cu. yds. removed; deepening 13,000 ft. long earth portion of the channel, 1,286,600 cu. yds. removed.

Fighting Island Channel: Deepening of the channel; 347,537 cu. yds. removed.

Amherstburg Channel: 360 cu. yds. of boulders, obstructive to navigation, removed.

Head of Detroit River: Deepening the channel through the shoal areas for a length of 20,800 ft.; 321,808 cu. yds. removed.

Channel to Lake Erie: Deepening 14,500 ft. long channel passing east of Detroit River Lighthouse; 28,850 cu. yds. removed.

Dredged a channel to Wyandotte, Michigan, about 2,500 ft. long across the north end of Grassy Island; 61,148 cu. yds. removed.

1935. Ballards Reef Channel: Deepening 8,540 ft. long rock portion of channel; 391,260 cu. yds. removed.

Livingstone Channel: Deepening 32,000 ft. long rock portion of channel, 837,704 cu. yds. removed; deepening 13,000 ft. length of the earth portion of channel, just southerly from the rock portion of this channel, 37,006 cu. yds. removed.

Amherstburg Channel: About 390 cu. yds. of boulders, obstructive to navigation, removed.

Head of Detroit River: Deepening the channel for a length of 20,800 ft.; 44,578 cu. yds. of shoal material removed.

Channel to Lake Erie: Deepening and widening a portion of the channel to Lake Erie, about 14,500 ft. long, passing east of Detroit River Lighthouse; 1,659,650 cu. yds. removed.

On August 13, 1934, dredging was started for the removal of shoals and obstructions from the Detroit River between Belle Isle and the head of the Ballards Reef Channel; 56,070 cu. yds., scow measure, removed.

1936. During the period July 23, 1935 to July 22, 1936, 38,480 cu. yds., scow measure, removed from shoals between Belle Isle and the Head of Ballards Reef Channel.

Ballards Reef Channel: Contract work for deepening the rock portion of the channel north of the junction with the Livingstone Channel was continued; 253,420 cu. yds., place measure, removed.

Livingstone Channel: Contract work for deepening the rock portion of the channel was continued; 753,470 cu. yds., place measure, removed.

Dredging was continued for deepening and widening the portion (about 17,500 ft.) of the channel to Lake Erie passing east of Detroit River Lighthouse; 1,520,363 cu. yds., bin measure, removed.

Channel Above Ballards Reef: Removal of obstructions; 719 cu. yds., scow measure, removed.

Constructed a rock-fill compensating dike about 2,750 ft. long, extending from the existing dike along the west side of Livingstone Channel to about 400 ft. from the east shore of Sugar Island; finished June 22, 1936.

Deepening the earth portion of 5,460 ft. length at the north end of Ballards Reef; completed on November 21, 1935, 366,081 cu. yds. removed, of which 172,277 cu. yds. removed during the Fiscal Year.

1937. Ballards Reef Channel: 31,542 cu. yds. of rock material, place measure, removed; work completed August 18, 1936.

Livingstone Channel: 86,826 cu. yds. of rock material, place measure, removed; work completed August 25, 1936. The total quantity of material removed under the contract was 2,540,106 cu. yds.

Sugar Island Compensating Dike: Work completed October, 1936, 71,127 cu. yds., place measure, placed.

Channel to Lake Erie Passing East of Detroit River Lighthouse: 1,199,228 cu. yds., bin measure, removed.

Amherstburg Channel: 85 cu. yds., scow measure, removed.

1938. Channel to Lake Erie Passing East of Detroit River Lighthouse: 285,404 cu. yds., bin measure, removed. The total amount of material removed by U.S. hopper dredges between July 5, 1934, the date of commencement, and August 14, 1937, the date of completion of the work, amounted to 4,240,059 cu. yds., bin measure.

Up-bound Channel: From the head of the Livingstone Channel to the lower junction with the Livingstone Channel, opposite Bar Point; 2,586 cu. yds., scow measure, of boulders and broken rock removed; work was completed on October 30, 1937.

The rock and boulder sections of the Livingstone, Amherstburg, Ballards Reef and Fighting Island channels were swept during April-June 1938.

1939. Trenton Channel: 44,000 cu. yds., place measure, removed.

Amherstburg Channel: 1,870 cu. yds., scow measure, removed and 112,900 sq. yds. of channel cleared to the 21 ft. depth.

Livingstone and Ballards Reef Channels: Swept during April-June, 1939, 524 cu. yds., scow measure, removed.

1940. Trenton Channel: Dredging continued; 583,000 cu. yds., place measure, removed.

Shoals in Trenton Channel: 8,527 cu. yds., bin measure, removed during the period September 27-30, 1939, and 617 cu. yds., scow measure, removed during the period May 1 through June 9, 1940.

Amherstburg Channel: Dredging continued; 2,649 cu. yds. of rock material, scow measure, removed; 193,980 sq. yds. of channel cleared to a depth of 21 ft.

Lower Detroit River rock channels swept, during April through June 1940.

Livingstone Channel: 32,327 cu. yds., bin measure, removed from the lower section of the channel.

Wyandotte Channel: Shoals cleared to project depth; 4,023 cu. yds., bin measure, removed during the period September 26 through 27, 1939, 150 cu. yds., scow measure, removed during the period April 25 through 30, 1940.

1941. Trenton Channel: 18,301 cu. yds., place measure, removed during the Fiscal Year; the total quantity removed was 600,301 cu. yds; project completed.
- Amherstburg Channel: Dredging continued; 910 cu. yds. of rock material, scow measure, removed and 354,064 sq. yds. of channel cleared to a depth of 21 ft.; project completed November 4, 1940.
- Lower Detroit River: Rock channels swept, during April through June 1941, and obstructions removed.
- Livingstone Channel: Dredging continued; 25,651 cu. yds., bin measure, removed from the lower section of the channel.
1942. Upper Trenton Channel: Clean-up of obstructions; 322 cu. yds., scow measure, removed during the period October 20 to November 12, 1941.
- Amherstburg Channel: 370 cu. yds., scow measure, removed and 2,918 sq. yds. of channel cleared to a depth of 21 ft., during the period May 20 to June 30, 1942.
- Lower Detroit River: Rock channels swept, during July 1941, and obstructions removed.
- Livingstone Channel: 35,178 cu. yds., bin measure, removed.
1943. Amherstburg Channel: 845 cu. yds., scow measure, removed and 19,555 sq. yds. of channel cleared to a depth of 21 ft., during the period July 1942 to June 1943.
- Channel at the Head of the River: 669 cu. yds., scow measure, removed, providing a project depth of 25 ft., during the period October 1942 to May 1943.
- Lower Detroit River: Rock channels swept, during July through September 1942 and May through June 1943, and obstructions removed.
- Livingstone Channel: 38,588 cu. yds., bin measure, removed.
1944. Amherstburg Channel: 1,123 cu. yds., of material, scow measure, removed in cleaning up 50,360 sq. yds. of rock channel to a depth of 21 ft.
- Livingstone Channel: 375 cu. yds., scow measure, removed.
- Fighting Island Channel: 16 cu. yds., scow measure, removed in clearing 61,263 sq. yds. of channel to depth of 26 ft.

Livingstone Channel: Shoals in the lower section of the channel were removed; 40,808 cu. yds., bin measure, dredged.

1945. Amherstburg Channel: Obstructions removed in rock areas; 697 cu. yds., scow measure, of material removed in cleaning up 45,425 sq. yds. of channel to a depth of 21 ft.

About 400 ft. of the compensating dike between Stony Island and the Livingstone Channel was partially repaired.

Livingstone Channel: Shoals in the lower section of the channel continued to be removed; 69,272 cu. yds., bin measure, removed.

1946. Amherstburg Channel: 607 cu. yds., scow measure, removed in cleaning up 21,499 sq. yds. of channel to a depth of 21 ft.

About 500 ft. of the compensating dike between Stony Island and the Livingstone Channel was repaired; 793 cu. yds. placed in the dike.

Livingstone Channel: Shoals in the lower section of the channel were removed; 70,518 cu. yds., bin measure, dredged.

1947. Amherstburg Channel: 371 cu. yds., scow measure, removed in cleaning up 13,817 sq. yds. of channel to a depth of 21 ft.

Repairs to the compensating dike between Stony Island and the Livingstone Channel continued.

Livingstone Channel: The removal of shoals in the lower section continued; 70,728 cu. yds., bin measure, removed.

1948. Amherstburg Channel: Obstructions removed to restore project depths; 631 cu. yds., scow measure, of material removed in cleaning up 7,826 sq. yds. of channel to a depth of 21 ft.

Livingstone Channel: Dredging continued; 20,182 cu. yds., bin measure, removed.

1949. Amherstburg Channel: 594 cu. yds., scow measure, removed.

Livingstone Channel Lower Section and Channel East of Detroit River Light: 108,076 cu. yds., bin measure, of shoaled material removed.

1950. Amherstburg Channel: Obstructions removed.
Livingstone Channel, Lower Section and Channel East of Detroit River Light: 109,514 cu. yds., bin measure, of shoaled material removed.
1951. Amherstburg Channel: Obstructions removed.
Livingstone Channel, Lower Section and Channel East of Detroit River Light: 87,573 cu. yds., bin measure, removed.
1952. Amherstburg Channel: Obstructions removed.
Livingstone Channel, Lower Section and Channel East of Detroit River Light: 237,195 cu. yds., bin measure, removed.
1953. Amherstburg Channel: Obstructions removed above 21 ft. depth.
Livingstone Channel, Lower Section and Channel East of Detroit River Light: 187,204 cu. yds., bin measure, removed.
1954. Amherstburg Channel; Obstructions removed.
Channel Passing East of Detroit River Light and Extension thereto: 870,899 cu. yds., bin measure, of shoals material removed.
Lower Livingstone Channel and Channel Passing East of Detroit River Light: 119,035 cu. yds., bin measure, removed.
1955. Amherstburg Channel: Obstructions removed above 21 ft. depth.
Livingstone Channel, Lower Section and Channel Passing East of Detroit River Lighthouse: 274,894 cu. yds., bin measure, of shoal material removed.
1956. Amherstburg Channel: Obstructions removed.
Lower Livingstone Channel and the Channel Passing East of Detroit River Light: 214,858 cu. yds., bin measure, of shoal material removed.
1957. Amherstburg Channel: Obstructions removal continued.
Lower Livingstone Channel and the Channel Passing East of Detroit River Light: 266,724 cu. yds., bin measure, of shoal material removed.

A 27 ft. channel deepening project began.

1958. Amherstburg Channel: 1,216,504 cu. yds. of ledge rock and overburden removed under three separate contracts.

Head of the River: 279,550 cu. yds. of clay removed.

Lower Livingstone Channel and the Channel Passing East of Detroit River. Light: 283,309 cu. yds., bin measure, of shoal material removed.

1959. Amherstburg Channel: 1,284,498 cu. yds. of ledge rock and overburden removed under three separate contracts.

1960. Amherstburg Channel: Channel deepening work completed.

Upper Livingstone Channel: Work was begun.

East Outer Channel: Dredging work was begun.

Removed shoals and obstructions in the channel from the Detroit River Light to Pelee Passage.

1961. Detroit River Channel from the Head of the Detroit River to the Fighting Island Channel: 529,933 cu. yds. and 643,000 sq.yds. (uniform depth) of clay removed under dredging contract; 66,500 sq. yds. (uniform depth) of clay removed by hired labor (plant operated by the U.S. Government); 65% completed.

Fighting Island Channel: Dredging the complete channel; 269 cu. yds. and 830,126 sq. yds. (uniform depth) of clay dredged under contract; 1,179,445 sq. yds. (uniform depth) of clay dredged by hired labor (plant operated by U.S. Government); 88% completed.

Ballards Reef Channel: Dredging from the Fighting Island Channel to the Upper Livingstone Channel Light; 42,200 sq. yds. (uniform depth) of sand and gravel removed; 5% completed.

Livingstone Channel: Dredging the entire channel; 298,680 cu. yds, of clay and rock removed under contract; 273,388 sq. yds. (uniform depth) of rock dredged by hired labor (plant operated by the U.S. Government); 50% completed.

East Outer Channel: 386,000 cu. yds. of silty sand removed under contract; 2,571,858 cu. yds. of silt dredged by hired labor (plant operated by the U.S. Government); 90% completed.

1962. Head of Detroit River: 40,135 cu. yds. of clay dredged and 75,172 sq. yds. of shoals removed under contract.
- Belle Island to Fighting Island: Miscellaneous shoals and obstructions removed.
- Fighting Island: 313,631 cu. yds. of clay removed under contract.
- Ballards Reef: Clay, stone and rocks over an area of 441,700 sq. yds. removed under contract.
- Upper Livingstone Channel: Loose blasted rocks removed.
- Lower Livingstone Channel: 858,963 cu. yds. of rock and clay removed under contract.
- East Outer Channel: 120,000 cu. yds. of clay removed under contract; 405,506 cu. yds. of clay removed by hired labor (plant operated by the U.S. Government).
- Pelee Passage Shoals and Sailing Courses: 315,700 cu. yds. of sand removed.
- Trenton Channel: Obstructions removed, during July 1961 and March 1962.
1963. Head of Detroit River: 205,725 cu. yds. of shoal material removed under contract.
- Belle Isle to Fighting Island: Miscellaneous shoals and obstructions were removed.
- Ballards Reef Channel: Contract dredging north of junctions with Sections A, B and C.
- Upper Livingstone: 52,000 sq. yds. (uniform depth) of sand, gravel, clay and stone dredged.
- Lower Livingstone: 30,250 sq. yds. (uniform depth) of sand, gravel, clay and stone dredged.
- Trenton Channel: 413,800 cu. yds. of stone, clay and sand removed from Sections B and C; 178,690 cu. yds. of sand removed from Section A.
- East Outer Channel: 32,387 cu. yds. of clay, gravel and stone removed.
- Sailing Courses in Lake Erie: 2,496,300 cu. yds. of sand and gravel removed.
- Pelee Passage Shoals: Removed rock shoals.

1964. Channel North of Belle Isle: 53,000 sq. yds. (uniform depth) removed, contract dredging completed; 20,870 sq. yds. (uniform depth) of miscellaneous shoals removed by hired labor (plant operated by the U.S. Government).
- Head of Detroit River Channel: 110,775 sq. yds. (uniform depth) of material removed by hired labor (plant operated by the U.S. Government).
- Belle Isle to Fighting Island Channel: Miscellaneous shoal and obstructions removed.
- Upper Livingstone Channel: Hired labor dredging (plant operated by the U.S. Government) completed.
- Lower Livingstone Channel: 215,485 sq. yds. (uniform depth) removed.
- Trenton Channel: 93,515 cu. yds. removed from Trenton Reach, contract work completed; 45,800 cu. yds. removed from Wyandotte Reach and 11,653 cu. yds. removed from Section D, contract work completed; 28,700 sq. yds. (uniform depth) removed from Section B by hired labor, (plant operated by the U.S. Government) work completed.
- East Outer Channel: 69,607 cu. yds. of material removed.
- Sailing Courses in Lake Erie: Dredging completed.
- Pelee Passage Shoal: Contract dredging completed; 49,070 sq. yds. (uniform depth) removed by hired labor (plant operated by the U.S. Government).
- Maintenance: 169,813 cu. yds., bin measure, of shoal material removed.
1965. Pelee Passage Shoal: Sweeping and dredging continued.
- East Outer Channel: 60,200 cu. yds., scow measure, of shoal material removed and 158,025 cu. yds., bin measure, removed.
- Lower Livingstone Channel: Removal of miscellaneous shoals continued; 177,982 cu. yds., bin measure, removed.
1966. Pelee Passage Shoal: Sweeping and dredging continued.
- East Outer Channel: Maintenance dredging of 450,072 cu. yds. of shoal material completed.

1967. Pelee Passage Shoal: Sweeping and dredging completed.
- East Outer Channel: Maintenance dredging; 595,594 cu. yds., bin measure, of shoal material, removed.
- Livingstone Channel: Maintenance dredging; 188,414 cu. yds., bin measure, of shoal material, removed.
1968. Livingstone Channel: Maintenance dredging; 151,623 cu. yds., bin measure, of shoal material, removed.
- East Outer Channel: Maintenance dredging; 381,333 cu. yds., bin measure, of shoal material, removed.
1969. Preliminary studies concerning the compensating works and channel improvements in the Detroit River were continued.
- Maintenance: 808,041 cu. yds., bin measure, of shoal material removed; location and removal of obstructions in rock channels continued.
1970. Minor design studies concerning the compensating works and channel improvements in the Detroit River were continued.
- Maintenance: 813,191 cu. yds., bin measure, of shoal material removed; location and removal of obstructions in rock channels continued.
1971. Maintenance: 39,427 cu. yds., bin measure, of material removed; location and removal of obstructions in rock channels continued.
1972. Maintenance: The location and removal of obstructions in rock channels continued.
1973. Maintenance: The location and removal of obstructions in rock channels continued.
1974. Maintenance: The location and removal of obstructions in rock channels continued.
1975. Maintenance: 546,589 cu. yds., bin measure, of shoal material removed; location and removal of obstructions in rock channels continued.
1976. Maintenance: 792,199 cu. yds., bin measure, of shoal material removed; location and removal of obstructions in rock channels continued.
- A contract was awarded for construction of a Phase I diked disposal area; contract approximately 14% completed.

1977. Maintenance: The location and removal of obstructions continued; repairs to the compensating dikes at Sugar Island were performed.
- Construction of the Phase I diked disposal area was 42% completed.
1978. Maintenance: The location and removal of obstructions continued.
- Engineering and design was completed for repairs to the compensating dike at Stoney Island; a contract was awarded for the repairs.
- Construction of the Phase I diked disposal area was 70% completed.
- A contract was awarded for construction of diked disposal area Phase II - but, no work was performed this Fiscal Year.
1979. Maintenance: The location and removal of obstructions continued.
- The contract for repairs to the compensating dike was completed.
- The construction of the Phase I diked disposal area was completed.
- The contract awarded for the construction of the Phase II diked disposal area was 27% completed.
1980. Maintenance: 560,130 cu. yds., bin measure, of shoal material removed; a contract for maintenance dredging was awarded (51% completed); the location and removal of obstructions continued; maintenance of the disposal area was performed.
- The contract awarded in Fiscal Year 1978 for the construction of the Phase II diked disposal area was approximately 74% completed.
- Engineering and design work for a diked disposal area for the Detroit River Sailing courses were performed.
1981. Maintenance: 11,983 cu. yds., bin measure, of material removed; the location and removal of obstructions continued; repairs to the compensating dikes were performed; maintenance of disposal areas was performed.
- Maintenance of the Pointe Mouillee Access Channel: 123,536 cu. yds., bin measure, of shoal material removed, work completed.
- Pointe Mouillee Access Channel: A dredging contract was awarded and completed; 34,000 cu. yds. of shoal material removed.

The contract awarded last Fiscal year for maintenance dredging was completed.

The contract for the construction of the Phase II diked disposal area was 95% completed.

1982. Environmental investigations for the extended navigation season study were performed.

Studies were continued for the construction of a marsh.

Maintenance: 162,598 cu. yds., bin measure, of shoal material removed; the location and removal of obstructions continued.

Maintenance of disposal area and modification of the booster pump system was performed.

South Turning Basin of Pointe Mouillee: A maintenance dredging contract was awarded and completed.

The contract for the construction of the Phase II diked disposal area was completed.

A contract was awarded for dredging of the East Outer Channel, Lower Livingstone Channel and Pointe Mouillee Access and South Interior Channels. No work was performed this Fiscal Year.

A contract was awarded for repair of the Sugar Island Compensating Dike. No work was performed this Fiscal Year.

1983. The environmental investigations for the extended navigation season study continued.

Studies were continued for the construction of a marsh.

Maintenance: 35,863 cu. yds., bin measure, of shoal material removed; maintenance of disposal areas work was performed; the location and removal of obstructions continued.

Repair of Sugar Island Compensating Dike: Work completed.

Maintenance Dredging in East Outer Channel, Lower Livingstone Channel and Pointe Mouillee Access and South Interior Channel: Work completed by removing 642,838 cu. yds., bin measure, of shoal material.

A contract was awarded for dredging East Outer Channel, Lower Livingstone and Pointe Mouillee Access Channel and Pointe Mouillee North Interior Channel, including North Turning Basin; no work was performed.

1984. Studies for the construction of a wetland marsh continued.

Environmental investigations for the extended navigation season study continued.

Maintenance: 26,438 cu. yds., bin measure, of shoal material removed; maintenance of disposal areas continued; the location and removal of obstructions continued; repairs to the compensating works continued.

The contract for dredging the East Outer Channel, the Lower Livingstone and Pointe Mouillee Access Channel and the Pointe Mouillee North Interior Channel was completed; approximately 84,080 cu. yds., bin measure, of shoal material removed.

Two contracts were awarded, one for dredging the East Outer Channel and the other for dredging the Pointe Mouillee Access Channel, North and South Interior Channel and North and South Turning Basin; but, no work was performed.

1985. Studies, plans and specifications for the construction of a wetland marsh were completed.

Environmental investigations for the extended navigation season study were continued.

Maintenance of disposal areas continued.

The location and removal of obstructions continued.

East Outer Channel Dredging Contract: 394,533 cu. yds., bin measure, of shoal material removed; work completed.

Pointe Mouillee Access Channel, North and South Interior Channel and North and South Turning Basin Dredging Contract: 44,777 cu. yds, of shoal material removed; work completed.

Pointe Mouillee Access Channel and Interior Channels Dredging: Contract awarded; 48,052 cu. yds. of shoal material removed; work completed.

East Outer and Lower Livingstone Channels Dredging: Contract awarded; 235,000 cu. yds. of material removed; work completed.

Plans and specifications for the repair of the Pointe Mouillee disposal area were completed; contract awarded; no work performed.

1986. Environmental investigations for the extended navigation season study continued.

Maintenance of disposal areas continued.

The location and removal of obstructions continued.

Pointe Mouillee Access Channel Dredging: Contract awarded and completed; 18,116 cu. yds. of material removed.

Repair of the Pointe Mouillee Diked Disposal Facility: Work completed.

Construction of Wetland Marsh: 99% of the contract completed.

East Outer and Lower Livingstone Channels Dredging: Contract awarded; but, no work performed.

1987. Environmental investigations continued under the extended navigation season study.

Maintenance of disposal areas was performed.

The location and removal of obstructions continued.

East Outer and Lower Livingstone Channels Dredging: 65,000 cu. yds. of material removed; work completed.

A contract for the repair of the diked disposal facility at Point Mouillee was awarded; 94% completed.

Construction of the wetland marsh was completed.

1988. Maintenance of disposal areas was performed.

The location and removal of obstructions continued.

1989. Maintenance of disposal areas was performed.

The location and removal of obstructions continued.

Maintenance Dredging at Pointe Mouillee Access Channel: Contract was awarded and completed; 49,000 cu. yds. of material removed.

1990. Maintenance of disposal areas was performed.
- The location and removal of obstructions continued.
- Maintenance Dredging at East Outer and Lower Livingstone Channels: Contract was awarded and completed; 240,000 cu. yds. of material removed.
1991. Maintenance of disposal areas was performed.
- The location and removal of obstructions continued.
- Maintenance Dredging at Pointe Mouillee Channel: Contract was awarded and completed; 31,118 cu. yds. of material removed.
1992. The location and removal of obstructions continued.
- Maintenance of disposal areas was performed.
- Dredging the Turning Basin at Pointe Mouillee Channel: Contract awarded; 4,113 cu. yds. of material removed; contract work was 4% completed.
- Maintenance Dredging East Outer and Lower Livingstone Channels: Contract was awarded and completed; 471,934 cu. yds. of material removed; .
1993. The location and removal of obstructions continued.
- Maintenance of disposal areas was performed.
- Dredging the Turning Basin at Pointe Mouillee Channel: 91,237 cu. yds. of material removed; work completed.
- Maintenance Dredging: Contract was awarded; 59,316 cu. yds. of material removed; contract work was 37% completed.