

**TITLE LXXXI OF DIVISION H OF THE HOUSE AMENDMENT TO THE SENATE**  
**AMENDMENT TO H.R. 7776, THE WATER RESOURCES DEVELOPMENT ACT OF 2022**  
**SECTION-BY-SECTION SUMMARY**

**Sec. 8001. Short title; table of contents.**

**Sec. 8002. Secretary defined.**

**Subtitle A – General Provisions**

**Sec. 8101. Federal breakwaters and jetties.** This section directs the Secretary of the Army (Secretary) to repair or maintain jetties and breakwaters to dimensions that include increases in projected wave action or height over the life of the project, and to classify such work as routine operations and maintenance if the functionality of the structure will be diminished due to changes in wave action or height, or the structure is degraded due to a lack of regular Federal maintenance.

**Sec. 8102. Emergency response to natural disasters.** Subsection (a) authorizes the Secretary to repair or restore a hurricane or shore protection project or structure beyond the original design level of the project to increase the resilience or effectiveness of the project and account for increases in projected wave action, height, or storm surge to meet the authorized purposes of the project. Subsection (b) prohibits the U.S. Army Corps of Engineers (Corps) from denying advance measures assistance requested by a State to reduce the risk of damage from rising water levels in the Great Lakes solely on the basis that the damage is caused by erosion.

**Sec. 8103. Shoreline and riverbank protection and restoration mission.** This section amends section 212 of the Water Resources Development Act (WRDA) of 1999 to allow the Corps to carry out projects for the protection and restoration of coastal shorelines and riverbanks and authorizes the Secretary to cover the first \$200,000 of the costs to study these projects.

**Sec. 8104. Floodplain management services.** This section amends section 206 of the Flood Control Act of 1960 to authorize the Corps to identify areas that may be subject to flooding due to accumulated snags and other debris. This section also directs the Corps to perform outreach to States and non-Federal interests about opportunities to partner with the Corps to address flood hazards and allows the Corps to partner with institutions of higher education to carry out these activities.

**Sec. 8105. Public recreational amenities in ecosystem restoration projects.** This section authorizes the Secretary to consider the inclusion of recreational amenities into ecosystem restoration projects.

**Sec. 8106. Scope of feasibility studies.** This section directs the Corps, at the request of a non-Federal interest, to formulate project study alternatives that reduce comprehensive flood risk or hurricane and storm damage risk, or that address water supply or water supply conservation, when conducting certain feasibility studies.

**Sec. 8107. Water supply conservation.** This section amends section 1116 of WRDA 2016 to make permanent the authority of the Corps to evaluate and approve water supply conservation measures at water resources development projects in States that have experienced repeated droughts. This section also specifies that the Corps may evaluate a water supply conservation measure utilizing a natural feature or nature-based feature to reduce drought risk.

**Sec. 8108. Managed aquifer recharge study and working group.** This section authorizes the Secretary to assess opportunities to carry out managed aquifer recharge projects at Corps projects and to create a working group to assist with carrying out prescribed activities. This section also authorizes the Secretary to conduct, at the request of non-Federal interests, up to ten feasibility studies to carry out managed aquifer recharge projects in areas affected by prolonged drought conditions, aquifer depletion, or water supply scarcity.

**Sec. 8109. Updates to certain water control manuals.** This section authorizes the Secretary to update water control manuals at the request of the governor in a State where the governor declared a statewide drought disaster in 2021.

**Sec. 8110. National coastal mapping study.** This section directs the Secretary to study and map coastal geographic land changes and identify improved tools and practices for coastal mapping.

**Sec. 8111. Tribal partnership program.** This section amends section 203 of WRDA 2000 to extend the authorization of the Corps' Tribal Partnership Program through fiscal year 2033, to allow technical assistance as an eligible use, to authorize the first \$200,000 of the costs of a feasibility study to be at Federal expense, and to increase the Federal cost limit for continuing authority to design and construct projects.

**Sec. 8112. Tribal Liaison.** This section requires each Corps district that contains a Tribal community to have on staff a Tribal liaison to serve as a direct line of communication between the District Commander and the Tribal communities within the boundaries of the Corps district, as well as ensure consistency in government-to-government relations.

**Sec. 8113. Tribal assistance.** This section requires the Secretary to revise and carry out the village development plan for Dalles Dam, Bonneville Dam, McNary Dam, and John Day Dam in Washington and Oregon to address the impacts to Indian villages and housing sites that resulted from construction of multiple dams by the Corps in the Columbia River Basin.

**Sec. 8114. Cost sharing provisions for the territories and Indian Tribes.** This section amends section 1156 of WRDA 1986 to require the Secretary to apply the cost-share waiver for territories and Indian Tribes to watershed assessments and to apply the waived amount to the non-Federal share of the costs of a study or project, rather than to the total cost of a study or project. This section also authorizes certain indigenous people to participate under section 1156.

**Sec. 8115. Tribal and Economically Disadvantaged Communities Advisory Committee.** This section requires the Secretary to establish a Tribal and Economically Disadvantaged Communities Advisory Committee, in accordance with the Federal Advisory Committee Act. This Committee is directed to provide the Secretary with advice and recommendations to ensure the effective delivery of water resources development projects, programs, and other assistance to Indian Tribes and to economically disadvantaged communities located in urban and rural areas.

**Sec. 8116. Workforce planning.** This section authorizes the Secretary to carry out activities to recruit individuals for careers at the Corps and to foster, enhance, and support science, technology, engineering, and math education and awareness at schools and institutions of learning at all levels. This section directs the Secretary to prioritize recruitment of individuals located in both urban and rural economically disadvantaged communities, where practicable.

**Sec. 8117. Corps of Engineers support for underserved communities; outreach.** This section authorizes \$30 million for the Secretary to increase outreach to potential non-Federal interests, including those in economically disadvantaged communities, on Corps' water resources development authorities and to provide additional publicly available resources for increased community engagement with Corps programs.

**Sec. 8118. Pilot programs for certain communities.** This section increases the number of projects and feasibility studies that can be carried out annually under two pilot programs created in WRDA 2020 for small, rural, and economically disadvantaged communities.

**Sec. 8119. Technical assistance.** This section amends section 22 of WRDA 1974 to increase the funding authorization for technical assistance, to prioritize the provision of such assistance to address inland and coastal life safety risks, and to authorize the Secretary to waive the cost of such assistance to economically disadvantaged communities located in urban and rural areas.

**Sec. 8120. Technical assistance for levee inspections.** This section requires the Secretary to provide credit or reimbursement for the cost of carrying out an inspection in any instance where, as a condition of eligibility for Federal assistance under section 5 of the Act of August 18, 1941, the non-Federal sponsor of a levee project is required to undertake an electronic inspection of the portion of such project that is under normal circumstances submerged.

**Sec. 8121. Assessment of Corps of Engineers levees.** This section directs the Secretary to periodically assess Corps levees and to evaluate opportunities for any modifications through a report to Congress. The Secretary is also directed to assess federally authorized levee systems operated by non-Federal interests under certain conditions.

**Sec. 8122. National low-head dam inventory.** This section amends the National Dam Safety Program Act to require the Secretary to develop, and make publicly available, an inventory of all low-head dams in the United States and to periodically update the inventory in consultation with relevant Federal and State agencies.

**Sec. 8123. Expediting hydropower at Corps of Engineers facilities.** This section amends section 1008 of the Water Resources Reform and Development Act (WRRDA) of 2014 to assess opportunities to increase the development of hydroelectric power at existing Corps water resources development projects.

**Sec. 8124. Reserve component training at water resources development projects.** This section authorizes members of the Armed Forces reserves to support Corps programs when fulfilling reserve training requirements.

**Sec. 8125. Payment of pay and allowances of certain officers from appropriation for improvements.** This section authorizes warrant officers and enlisted members of the Armed Forces to support Corps projects or programs.

**Sec. 8126. Maintenance dredging permits.** This section encourages the Secretary to prioritize the reissuance of any regional general permit for maintenance dredging that expired prior to May 1, 2021, in accordance with relevant environmental statutes.

**Sec. 8127. Environmental dredging.** This section directs the Secretary to coordinate efforts with other Federal agencies and regional and State agencies responsible for the remediation of contaminated sediments at certain authorized Corps projects.

**Sec. 8128. Assessment of regional confined aquatic disposal facilities.** This section directs the Secretary to assess the availability and need for confined disposal facilities for the New England District region.

**Sec. 8129. Studies for periodic nourishment.** This section amends section 156 of WRDA 1976 to increase the maximum additional period of beach nourishment for a water resources development project from 15 additional years to 50 additional years. This section also extends eligibility for nourishment for projects meeting certain criteria.

**Sec. 8130. Beneficial use of dredged material; management plans.** This section directs the Secretary to develop a strategic plan for fully implementing the Federal authority for maximizing the beneficial use of dredged material. This section also directs the Secretary, when formulating dredged material management plans for a federally authorized harbor in the state of Ohio, to include a prohibition on open-lake disposal of dredged material consistent with existing law and maximize the beneficial reuse of dredged material.

**Sec. 8131. Criteria for funding operation and maintenance of small, remote, and subsistence harbors.** This section requires the Secretary to develop criteria for the annual evaluation and ranking of maintenance dredging requirements for small, remote, and subsistence harbors and include such criteria in the annual Civil Works Direct Program Development Policy Guidance of the Corps. This section also requires a biennial report to Congress that identifies the ranking of projects based on the criteria developed under this section.

**Sec. 8132. Additional projects for underserved community harbors.** This section authorizes the Secretary to carry out additional projects to dredge underserved community harbors for sustaining water-dependent commercial and recreational activities at such harbors. This section also specifies cost-share requirements for such projects and requires not less than 35 percent of annual funds be used for projects that include the beneficial use of dredged material.

**Sec. 8133. Inland waterways regional dredge pilot program.** This section authorizes the Secretary to establish a pilot program to award combined operations and maintenance and construction dredging contracts of up to five years for projects on inland waterways.

**Sec. 8134. NEPA reporting.** This section requires the Secretary to track and provide an annual report to Congress on the timeframes for completing environmental reviews for water resources development projects, as required by the National Environmental Policy Act (NEPA) of 1969.

**Sec. 8135. Funding to process permits.** This section amends section 214 of WRDA 2000 to authorize the Secretary to include the evaluation of a mitigation bank instrument in the expedited review of a qualifying permit under such section.

**Sec. 8136. Lease durations.** This section requires the Secretary to issue guidance regarding when a lease duration of more than 25 years is appropriate and in the public interest. This guidance applies when the Corps makes a leasing decision pursuant to section 2267 of title 10, United States Code, or section 4 of the Flood Control Act of 1944.

**Sec. 8137. Reforestation.** This section encourages the Secretary to consider measures to restore swamps and other wetland forests in studies for water resources development projects for ecosystem restoration and flood and coastal storm risk management.

**Sec. 8138. Emergency streambank and shoreline protection.** This section amends section 14 of the Flood Control Act of 1946 to increase the Federal share of a project to \$10 million and to allow funds to be used for the protection of lighthouses, including lighthouses with historical value.

**Sec. 8139. Lease deviations.** This section directs the Secretary to meet the requirements of section 153 of WRDA 2020 regarding deviations for the terms and length of leases between the Corps and non-Federal lessees.

**Sec. 8140. Policy and technical standards.** This section directs the Secretary to update certain policy and technical standards publications for its Civil Works programs every five years.

**Sec. 8141. Corps records relating to harmful algal blooms in Lake Okeechobee, Florida.** This section requires the Secretary to indicate exposure to microcystin in the service records of service members and civilian employees of the Corps who perform covered duties at Lake Okeechobee, Florida.

**Sec. 8142. Forecasting models for the Great Lakes.** This section authorizes funding to complete and maintain a model suite to forecast water levels of the Great Lakes.

**Sec. 8143. Monitoring and assessment program for saline lakes in the Great Basin.** This section authorizes the Secretary to carry out a monitoring and assessment program for the hydrology of saline lake ecosystems in the Great Basin.

**Sec. 8144. Chattahoochee River program.** This section requires the Secretary to establish a program to provide assistance to non-Federal interests in the Chattahoochee River Basin for water-related resource protection and restoration projects affecting the basin.

**Sec. 8145. Lower Mississippi River Basin demonstration program.** This section requires the Secretary to establish a program to provide assistance to non-Federal interests in the Lower Mississippi River Basin for projects focused on flood or coastal storm risk management or aquatic ecosystem restoration.

**Sec. 8146. Washington Aqueduct.** This section authorizes the Secretary to carry out capital improvements for the Washington Aqueduct.

**Sec. 8147. Water infrastructure public-private partnership pilot program.** This section amends section 5014 of WRRDA 2014 to ensure that ecosystem restoration projects are eligible under the pilot program.

**Sec. 8148. Advanced payment in lieu of reimbursement for certain Federal costs.** This section authorizes the Secretary to provide, in advance to the non-Federal interest, the Federal share of funds required for the acquisition of land, easements, rights-of-way, and relocations for designated projects.

**Sec. 8149. Use of other Federal funds.** This section amends section 2007 of WRDA 2007 to allow the non-Federal interest for a water resources development study or project, a study or project under a Continuing Authority Program, or an environmental infrastructure study or project to use funds provided by another Federal agency to satisfy the non-Federal share of the cost of the study or project, if certain conditions are met.

**Sec. 8150. Non-Federal Interest Advisory Committee.** This section requires the Secretary to establish a Non-Federal Interest Advisory Committee, in accordance with the Federal Advisory Committee Act. This Committee is directed to provide the Secretary with advice and recommendations to ensure more effective and efficient delivery of water resources development projects, programs, and other assistance.

**Sec. 8151. Materials, services, and funds for repair, restoration, or rehabilitation of certain public recreation facilities.** This section authorizes the Secretary to accept and use non-Federal materials, services, and funds to repair, restore, or rehabilitate public recreation facilities at Corps-operated reservoirs in the Upper Missouri River Basin during periods of low water.

**Sec. 8152. Rehabilitation of pump stations.** This section amends section 133 of WRDA 2020 to allow the Secretary to rehabilitate non-Federal pump stations if they are integral to the operation of a broader Corps project for flood or coastal storm risk management.

**Sec. 8153. Report to Congress on Corps of Engineers reservoirs.** This section directs the Secretary to expedite completion of, and make publicly available, the updated report on Corps reservoirs required by section 1046(a)(2)(B) of WRRDA 2014.

**Sec. 8154. Temporary relocation assistance pilot program.** This section directs the Secretary to establish a pilot program to evaluate the effect of including temporary relocation assistance provided by the non-Federal interest in the non-Federal interest's cost-share for designated water resources development projects that use nonstructural measures. These measures are for the elevation or modification of a dwelling that is a primary residence and for the instance that an owner-occupant is required to relocate temporarily from the dwelling during the period of construction.

**Sec. 8155. Continuation of construction.** This section provides the Secretary with temporary authority to continue with the construction of certain projects. This section also directs the Secretary to provide the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate with a written notification of projects requiring potential modification by Congress.

**Sec. 8156. Federal interest determination.** This section amends section 905(b)(1) of WRDA 1986 to expand the authority of the Secretary to, at Federal expense (not to exceed \$200,000), determine the Federal interest in carrying out a study and the project that it may propose.

**Sec. 8157. Inland waterway projects.** This section makes permanent the existing cost-share for authorized navigation projects on the inland waterways (65 percent from the General Fund of the U.S. Treasury and 35 percent from the Inland Waterways Trust Fund) that was set to expire in 2030.

**Sec. 8158. Corps of Engineers Western Water Cooperative Committee.** This section requires the Secretary to establish a Western Water Cooperative Committee. The Committee is directed to work with the Secretary to ensure that water resources development projects in Western States are operated in a manner consistent with congressional directives by identifying opportunities to avoid or minimize conflicts between the operation of those projects and water rights and water laws of Western States.

**Sec. 8159. Support of Army civil works missions.** This section authorizes the Secretary to enter into cooperative agreements, contracts, or any other authorized means to support the civil works missions of the Corps.

**Sec. 8160. Civil works research and development.** This section expands the basic research and development capabilities of the Corps to support its missions and authorities and authorizes the Corps to enter into transactions other than contracts, cooperative agreements, and grants, when carrying out prototype projects.

**Sec. 8161. Sense of Congress on operations and maintenance of recreation sites.** This section expresses a sense of Congress that the Secretary, as part of the annual work plan, should distribute amounts provided for the operations and maintenance of recreation sites of the Corps of Engineers so that each site annually receives an amount that is not less than 80 percent of the recreation fees generated by such site.

**Sec. 8162. Sense of Congress relating to post-disaster repairs.** This section expresses a sense of Congress that the Secretary should, in scoping and funding post-disaster repairs, repair assets to the project design levels or above project design levels if the original project design is outdated.

### **Subtitle B – Studies and Reports**

**Sec. 8201. Authorization of proposed feasibility studies.** This section authorizes the Secretary to carry out 94 new feasibility studies and 12 studies of modifications to existing water resources development projects.

**Sec. 8202. Expedited completion.** This section directs the Secretary to expedite the completion of 25 authorized water resources development project feasibility reports, two post-authorization change reports, two authorized watershed and river basin assessments, and one determination related to the maintenance of a Corps navigation project.

**Sec. 8203. Expedited modifications of existing feasibility studies.** This section directs the Secretary to expedite modifications to the scope of five authorized feasibility studies.

**Sec. 8204. Corps of Engineers reservoir sedimentation assessment.** This section directs the Secretary to assess, and submit a report to Congress, on sedimentation issues and impacts at reservoirs owned or operated by the Corps.

**Sec. 8205. Report and recommendations on dredge capacity.** This section directs the Secretary to submit a report to Congress on current and future public and private dredge capacity and availability to meet dredging needs nationwide, including any recommendations for increasing dredging capacity.

**Sec. 8206. Assessment of impacts from changing operation and maintenance responsibilities.** This section directs the Secretary to submit a report to Congress on the costs and effects of increasing the depths at which operation and maintenance at a harbor or inland harbor is a Federal responsibility.

**Sec. 8207. Maintenance dredging data.** This section expands the maintenance dredging database to include information on costs associated with the disposal of dredged material.

**Sec. 8208. Western infrastructure study.** This section directs the Secretary to conduct a comprehensive study to evaluate the effectiveness of carrying out additional measures, including those that utilize natural features or nature-based features, at or upstream of reservoirs owned and operated by the Corps in the South Pacific Division.

**Sec. 8209. Recreation and economic development at Corps facilities in Appalachia.** This section directs the Secretary to submit a plan to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate to implement the recreational and economic development opportunities identified in the report prepared under section 206 of WRDA 2020.

**Sec. 8210. Ouachita River watershed, Arkansas and Louisiana.** This section directs the Secretary to conduct a review of projects in the Ouachita River watershed, Arkansas and Louisiana, under section 216 of the Flood Control Act of 1970.

**Sec. 8211. Report on Santa Barbara streams, Lower Mission Creek, California.** This section directs the Secretary to submit to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate a report that provides an updated economic review of the remaining portions of the project for flood damage reduction at Santa Barbara streams, Lower Mission Creek, California.

**Sec. 8212. Disposition study on Salinas Dam and Reservoir, California.** This section clarifies the details to be included in the ongoing disposition study for the project for Salinas Dam, California.

**Sec. 8213. Excess lands report for Whittier Narrows Dam, California.** This section directs the Secretary to submit a report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate that identifies any excess property at Whittier Narrows Dam that could be transferred to the city of Pico Rivera, California, for the replacement of recreational facilities adversely impacted by ongoing safety repairs at such dam.

**Sec. 8214. Comprehensive central and southern Florida study.** This section authorizes a study of opportunities for resiliency and other improvements or modifications to existing Corps projects in central and southern Florida.

**Sec. 8215. Northern estuaries ecosystem restoration, Florida.** This section directs the Secretary to develop a proposed comprehensive plan for the purpose of restoring, preserving, and protecting the Caloosahatchee Estuary, Charlotte Harbor, Indian River Lagoon, Lake Worth Lagoon, and St. Lucie River Estuary (collectively referred to as the “Northern Estuaries”) in Florida.

**Sec. 8216. Study on shellfish habitat and seagrass, Florida Central Gulf Coast.** This section authorizes the Secretary to study and report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on the project and activities carried out by the Corps’ Engineer Research and Development Center (ERDC) to restore shellfish habitat and seagrass in coastal estuaries in the Florida Central Gulf Coast.

**Sec. 8217. Report on South Florida ecosystem restoration plan implementation.** This section directs the Secretary to submit a report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on the status and costs of authorized projects or studies within the Comprehensive Everglades Restoration Plan and the South Florida Ecosystem Restoration Plan Integrated Delivery Schedule, and the review of the Lake Okeechobee Regulation Schedule.

**Sec. 8218. Great Lakes recreational boating.** This section requires the Secretary to submit an updated report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on the economic benefits of recreational boating in the Great Lakes basin previously authorized under section 455(c) of WRDA 1999.

**Sec. 8219. Hydraulic evaluation of Upper Mississippi River and Illinois River.** This section directs the Secretary to periodically study the flow frequencies and water surface profiles for certain rivers in the Upper Mississippi River and Illinois River basins.

**Sec. 8220. Disposition study on hydropower in the Willamette Valley, Oregon.** This section directs the Secretary to study the effects of deauthorizing hydropower as an authorized project purpose at dams in the Willamette Valley hydropower project.

**Sec. 8221. Houston Ship Channel Expansion Channel Improvement Project, Texas.** This section directs the Secretary to expedite the ongoing study under section 216 of the Flood Control Act of 1970 for modifications to the Houston Ship Channel Expansion to incorporate the construction of certain barge lanes into the project.

**Sec. 8222. Sabine–Neches waterway navigation improvement project, Texas.** This section directs the Secretary to expedite the review and coordination of the feasibility study for the Sabine–Neches Waterway navigation project in Texas consistent with section 203(b) of WRDA 1986.

**Sec. 8223. Norfolk Harbor and Channels, Virginia.** This section directs the Secretary to complete a post-authorization change report for the Anchorage F modifications to the Norfolk Harbor and Channels, Virginia navigation project by December 31, 2023.

**Sec. 8224. Coastal Virginia, Virginia.** This section authorizes the Secretary to coordinate with other Federal agencies on the inclusion of property owned or operated by another Federal agency in the scope of the Coastal Virginia feasibility study.

**Sec. 8225. West Virginia hydropower.** This section authorizes the Secretary to evaluate the addition of hydropower or energy storage development capacity at seven authorized water resources development projects in West Virginia.

**Sec. 8226. Electronic preparation and submission of applications.** This section revises the completion deadline for the electronic system required under section 2040 of WRDA 2007 and requires the Secretary to submit quarterly updates to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on its implementation status.

**Sec. 8227. Investments for recreation areas.** This section expresses the sense of Congress that the Secretary should use all authorities to promote and enhance development and recreational opportunities at lakes that are part of authorized Corps projects. It also directs the Secretary to submit a report to Congress on investments needed, and plans to, support recreational activities that are part of authorized projects.

**Sec. 8228. Automated fee machines.** This section directs the Secretary to consider alternatives to automated fee machines for the collection of public recreational access fees at sites and facilities in West Virginia.

**Sec. 8229. Review of recreational hazards.** This section directs the Secretary to review and mitigate threats to recreational safety at the Buford Dam, Georgia, the banks of the Mississippi River, Louisiana, and along the Murderkill River, Delaware.

**Sec. 8230. Assessment of coastal flooding mitigation modeling and testing capacity.** This section directs the Secretary to submit a report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on the Corps' ability to model coastal flood mitigation systems and test the effectiveness of the systems in preventing flood damage from storm surge.

**Sec. 8231. Report on socially and economically disadvantaged small business concerns.** This section directs the Secretary to submit a report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on the use of contracts and subcontracts between the Corps and small disadvantaged businesses.

**Sec. 8232. Report on solar energy opportunities.** This section directs the Secretary to identify opportunities for integrating solar panels or floating solar at certain Corps projects and properties.

**Sec. 8233. Report to Congress on economic valuation of preservation of open space, recreational areas, and habitat associated with project lands.** This section directs the Secretary to review and report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on existing policies for the valuation of preserving open space, recreational areas, and habitat as part of a water resources development project.

**Sec. 8234. Report on corrosion prevention activities.** This section directs the Secretary to submit a report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on corrosion prevention activities at water resources development projects.

**Sec. 8235. Report to Congress on easements related to water resources development projects.** This section directs the Secretary to review its policies and procedures related to the use of easements and to identify potential opportunities for increased use of such easements in future water resources development projects.

**Sec. 8236. GAO studies.** This section authorizes various studies of Corps programs and policies by the U.S. Government Accountability Office (GAO).

**Sec. 8237. Assessment of forest, rangeland, and watershed restoration services on lands owned by the Corps of Engineers.** This section directs the Secretary to assess the impacts of authorizing non-Federal interests to provide certain forest, rangeland, and watershed restoration services on Corps lands.

### **Subtitle C – Deauthorizations and Modifications**

**Sec. 8301. Deauthorization of inactive projects.** This section directs the Secretary to develop and submit to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate a list of water resources development projects that are eligible for deauthorization.

**Sec. 8302. Watershed and river basin assessments.** This section includes additional assessment purposes and locations for watershed-based studies under section 729 of WRDA 1986.

**Sec. 8303. Forecast-informed reservoir operations.** This section authorizes additional water resources development projects for the Secretary to evaluate, and report to the Committee on Transportation and Infrastructure of the House and the Committee on Environment and Public Works of the Senate on, the utilization of forecast-informed reservoir operations.

**Sec. 8304. Lakes program.** This section includes additional locations in the Corps' Lakes program authority under section 602 of WRDA 1986.

**Sec. 8305. Invasive species.** This section amends the Corps' invasive species authorities by extending the authorization of two invasive species pilot programs through 2028, modifying the Aquatic Invasive Species Research authority to include hydrilla, and adding additional focus areas under an existing Corps harmful algal bloom demonstration program. This section also increases the authorized annual appropriations for invasive species partnerships between the Corps and applicable States and Federal agencies and adds the Lake Erie Basin and Ohio River Basin as eligible locations for these partnerships.

**Sec. 8306. Maintenance of navigation channels.** This section amends section 509 of WRDA 1996 to authorize the Secretary to maintain navigation channels at select water resources development projects, if certain conditions are met.

**Sec. 8307. Project reauthorizations.** This section reauthorizes identified projects that were previously deauthorized by Congress and requires the Secretary to carry out, and submit to Congress, a report on the results of feasibility studies for each of the reauthorized projects.

**Sec. 8308. Special rule for certain beach nourishment projects.** This section directs the Secretary, for specified projects, to fund the incremental increase in project cost that results from a legal requirement to use a sediment source that is not the least-cost option.

**Sec. 8309. Columbia River Basin.** This section clarifies the authority of the Secretary as it relates to the obligations of the United States under the Columbia River Treaty. This section also requires the Corps to provide additional assistance to address the treaty obligations, including the authorization of a study on flood risk management in the Columbia River Basin.

**Sec. 8310. Evaluation of hydrologic changes in Souris River Basin.** This section authorizes the Secretary to evaluate hydrologic changes affecting the "Agreement Between the Government of Canada and the United States of America for Water Supply and Flood Control in the Souris River Basin" that was entered into in 1989.

**Sec. 8311. Acequias irrigation systems.** This section amends section 1113 of WRDA 1986 to increase the authorization amount for the Acequia program in New Mexico and authorizes the Secretary to protect and restore Acequias located on land belonging to a federally recognized Indian Tribe in New Mexico. This section also modifies the cost-sharing requirements for projects that benefit an economically disadvantaged community.

**Sec. 8312. Port of Nome, Alaska.** This section modifies the cost-sharing requirements for the project for navigation, Port of Nome, Alaska, authorized by section 401(1) of WRDA 2020.

**Sec. 8313. St. George, Alaska.** This section requires the Secretary to waive any and all future payments due to the United States by the City of St. George, Alaska, resulting from the Federal Court of Claims judgement in *J.E. McAmis, Inc. v. United States*.

**Sec. 8314. Unalaska (Dutch Harbor) Channels, Alaska.** This section updates the authorization for the project for navigation, Unalaska (Dutch Harbor) Channels, Alaska, to account for a supplemental Chief's Report dated October 2, 2020.

**Sec. 8315. Storm damage prevention and reduction, coastal erosion, and ice and glacial damage, Alaska.** This section establishes a program for structural and nonstructural projects for storm damage prevention and reduction, coastal erosion, and ice and glacial damage in Alaska.

**Sec. 8316. St. Francis Lake Control Structure.** This section directs the Secretary to establish the ordinary high-water mark for water impounded behind the St. Francis Lake Control Structure, Arkansas.

**Sec. 8317. South Platte River and Tributaries, Adams and Denver Counties, Colorado.** This section directs the Secretary to expedite the completion of a written agreement under section 204(d) of WRDA 1986 with the non-Federal interest for the project for ecosystem restoration and flood risk management, South Platte River and Tributaries, Adams and Denver Counties, Colorado.

**Sec. 8318. Fruitvale Avenue Railroad Bridge, Alameda, California.** This section repeals section 4017(d) of WRDA 2007.

**Sec. 8319. Los Angeles County, California.** This section authorizes funding for environmental infrastructure in Los Angeles County, California.

**Sec. 8320. Deauthorization of designated portions of the Los Angeles County Drainage Area, California.** This section deauthorizes certain debris basins within the project for flood risk management, Los Angeles County, California.

**Sec. 8321. Murrieta Creek, California.** This section modifies the project for flood control, environmental restoration, and recreation, Murrieta Creek, California.

**Sec. 8322. Sacramento River Basin, California.** This section deauthorizes a portion of the project for flood protection in the Sacramento River Basin, California.

**Sec. 8323. San Diego River and Mission Bay, San Diego County, California.** This section modifies the project for flood control and navigation for the San Diego River and Mission Bay, San Diego County, California, to change the authorized conveyance capacity.

**Sec. 8324. Additional assistance for Eastern Santa Clara Basin, California.** This section amends section 111 of the Consolidated Appropriations Act of 2001 to clarify activities eligible for assistance in the Santa Clara Basin, California.

**Sec. 8325. San Francisco Bay, California.** This section clarifies additional areas for inclusion in the study of San Francisco Bay, California.

**Sec. 8326. South San Francisco Bay Shoreline, California.** This section prohibits the Secretary from requiring the non-Federal interest for the project at South San Francisco Bay Shoreline, California, to contribute certain funds in excess of the total cash contribution requirements. This section also prohibits the Secretary from deferring, suspending, or terminating construction of the project under certain conditions.

**Sec. 8327. Delaware shore protection and restoration.** This section modifies various authorities or projects located in the state of Delaware, including the Delaware Dredged Material Utilization project, authorized by section 401(3) of WRDA 2020. In addition, this section makes modifications to the Indian River Inlet Sand Bypass Plant coastal storm risk management project authorized by section 869 of WRDA 1986.

**Sec. 8328. St. Johns River Basin, Central and Southern Florida.** This section deauthorizes certain portions of the project for flood control and other purposes, Central and Southern Florida, authorized by section 203 of the Flood Control Act of 1948.

**Sec. 8329. Little Pass, Clearwater Bay, Florida.** This section deauthorizes a portion of the project for navigation Little Pass, Clearwater Bay, Florida, originally authorized by the Act of July 14, 1960.

**Sec. 8330. Comprehensive Everglades Restoration Plan, Florida.** This section clarifies the accounting of non-Federal interest contributions for the Comprehensive Everglades Restoration Plan.

**Sec. 8331. Palm Beach Harbor, Florida.** This section deauthorizes a portion of the project for navigation, Palm Beach Harbor, Florida.

**Sec. 8332. Port Everglades, Florida.** This section modifies the project for navigation, Port Everglades, Florida.

**Sec. 8333. South Florida Ecosystem Restoration Task Force.** This section amends the membership requirements of the South Florida Ecosystem Restoration Task Force.

**Sec. 8334. New Savannah Bluff Lock and Dam, Georgia and South Carolina.** This section modifies the requirements for certain project mitigation features at the New Savannah Bluff Lock and Dam element of the Savannah Harbor Expansion Project.

**Sec. 8335. Little Wood River, Gooding, Idaho.** This section modifies the project for flood control, Little Wood River, Gooding, Idaho.

**Sec. 8336. Chicago shoreline protection.** This section modifies the project for storm damage reduction and shore protection, Lake Michigan, Illinois.

**Sec. 8337. Great Lakes and Mississippi River Interbasin Project, Brandon Road, Will County, Illinois.** This section modifies the project for ecosystem restoration, Great Lakes and Mississippi River Interbasin Study, Brandon Road, Will County, Illinois.

**Sec. 8338. Southeast Des Moines, Southwest Pleasant Hill, Iowa.** This section modifies the project for flood control and other purposes, Red Rock Dam and Lake, Des Moines River, Iowa.

**Sec. 8339. City of El Dorado, Kansas.** This section amends a 1972 water supply storage contract between the United States and the City of El Dorado, Kansas, to change the method of interest calculation.

**Sec. 8340. Algiers Canal Levees, Louisiana.** This section directs the Secretary to resume operation and maintenance of the Algiers Canal Levees, Louisiana.

**Sec. 8341. Mississippi River Gulf Outlet, Louisiana.** This section modifies the project for ecosystem restoration, Mississippi River Gulf Outlet, Louisiana.

**Sec. 8342. Camp Ellis, Saco, Maine.** This section modifies the project for mitigation of shore damage from navigation works, Camp Ellis, Saco, Maine.

**Sec. 8343. Lower Mississippi River comprehensive management study.** This section modifies the Lower Mississippi River Comprehensive Management Study, authorized by section 213 of WRDA 2020.

**Sec. 8344. Upper Mississippi River protection.** This section places limitations on the disposition study carried out at the Upper St. Anthony Falls Lock and Dam and authorizes the Secretary to investigate the feasibility of making certain modifications to the project.

**Sec. 8345. Upper Mississippi River restoration program.** This section amends section 1103(e)(3) of WRDA 1986 to increase the authorization of appropriations for ecosystem restoration activities in the Upper Mississippi River system.

**Sec. 8346. Water level management on the Upper Mississippi River and Illinois Waterway.** This section directs the Secretary to carry out water level management activities as part of the operation and maintenance of navigation channel projects on the Upper Mississippi and Illinois Rivers to mitigate sedimentation impacts and restore aquatic ecosystems under certain conditions.

**Sec. 8347. Mississippi Delta Headwaters, Mississippi.** This section authorizes the Secretary to carry out emergency maintenance activities on completed features of the project for flood damage reduction, bank stabilization, and sediment and erosion control, Yazoo Basin, Mississippi Delta Headwaters, Mississippi.

**Sec. 8348. Sense of Congress relating to Okatibbee Lake, Mississippi.** This section includes a sense of Congress that addressing shoreline sloughing and erosion at a Corps project is eligible to be carried out by the Corps as part of the operation and maintenance of the project.

**Sec. 8349. Argentine, East Bottoms, Fairfax-Jersey Creek, and North Kansas Levees units, Missouri River and tributaries at Kansas Cities, Missouri and Kansas.** This section modifies the project for flood control, Kansas Cities on Missouri and Kansas Rivers in Missouri and Kansas.

**Sec. 8350. Lower Missouri River streambank erosion control evaluation and demonstration projects.** This section creates a demonstration program for new methods and techniques that prevent erosion and protect or stabilize streambanks in the Lower Missouri River.

**Sec. 8351. Missouri River interception-rearing complexes.** This section authorizes the Secretary to carry out construction of interception-rearing complexes at certain locations on the Missouri River, provided any adverse impacts from such construction are identified and mitigated.

**Sec. 8352. Missouri River mitigation project, Missouri, Kansas, Iowa, and Nebraska.** This section directs the Secretary to apply lands or interests in lands held by other Federal agencies to fulfill acreage requirements under the Corps' mitigation responsibilities on the Missouri River.

**Sec. 8353. Northern Missouri.** This section authorizes funding for environmental infrastructure in Northern Missouri.

**Sec. 8354. Israel River, Lancaster, New Hampshire.** This section deauthorizes the project for flood control, Israel River, Lancaster, New Hampshire.

**Sec. 8355. Middle Rio Grande flood protection, Bernalillo to Belen, New Mexico.** This section modifies the project for flood risk management, Middle Rio Grande, Bernalillo to Belen, New Mexico.

**Sec. 8356. Ecosystem restoration, Hudson-Raritan Estuary, New York and New Jersey.** This section modifies section 401(5) of WRDA 2020 to authorize the Corps to conduct additional feasibility studies for ecosystem restoration in New York and New Jersey as part of the Hudson-Raritan Estuary project.

**Sec. 8357. Arkansas River corridor, Oklahoma.** This section amends section 3132 of WRDA 2007 to increase the authorization level and authorize the Corps to carry out additional feasibility studies for certain components of the Arkansas River Corridor Master Plan.

**Sec. 8358. Copan Lake, Oklahoma.** This section directs the Secretary to amend the contract for storage space for water supply between the United States and the Copan Public Works Authority in Copan Lake, Oklahoma.

**Sec. 8359. Southwestern Oregon.** This section authorizes funding for environmental infrastructure in Southwestern Oregon.

**Sec. 8360. Yaquina River, Oregon.** This section modifies the navigation project, Yaquina River, Oregon, to clarify that the Secretary shall not require the non-Federal interest to provide or pay for a floating plant.

**Sec. 8361. Lower Blackstone River, Rhode Island.** This section modifies the project for ecosystem restoration, Lower Blackstone River, Rhode Island, carried out under section 206 of WRDA 1996.

**Sec. 8362. Charleston Harbor, South Carolina.** This section requires the Secretary to reimburse non-Federal interests for advanced funds exceeding the non-Federal share of construction costs as soon as practicable after the completion of each individual contract for the project for navigation, Charleston Harbor, South Carolina.

**Sec. 8363. Colleton County, South Carolina.** This section allows construction carried out by non-Federal interests before the date of enactment of this Act for the project for hurricane and storm damage risk reduction, Colleton County, South Carolina, to be eligible for in-kind credit.

**Sec. 8364. Ensley levee, Tennessee.** This section incorporates the Ensley levee system into the project for flood risk management, lower Mississippi River, and directs the Secretary to resume operation and maintenance of such system.

**Sec. 8365. Wolf River Harbor, Tennessee.** This section modifies the project for navigation, Wolf River Harbor, Tennessee, to reduce the authorized dimensions of the project.

**Sec. 8366. Addicks and Barker Reservoirs, Texas.** This section authorizes the Secretary to provide technical assistance related to sediment removal at the Addicks and Barker Reservoirs, Texas.

**Sec. 8367. North Padre Island, Corpus Christi Bay, Texas.** This section clarifies that the project for ecosystem restoration, North Padre Island, Corpus Christi Bay, Texas, is not eligible for emergency repair and restoration assistance under the Flood Control Act of 1941.

**Sec. 8368. Nueces County, Texas.** This section authorizes the Secretary to review easements held by the United States for purposes of navigation in Nueces County, Texas, and to convey the easements the Secretary determines are no longer required for project purposes back to the covered landowners under certain circumstances.

**Sec. 8369. Lake Champlain Canal, Vermont and New York.** This section amends section 5146 of WRDA 2007 to require the Secretary to scope the phase II portion of the Lake Champlain Canal Aquatic Invasive Species Barrier study carried out under section 542 of WRDA 2000 to satisfy the requirement in section 5146 for a feasibility determination.

**Sec. 8370. Rehabilitation of Corps of Engineers constructed dams.** This section modifies section 1177 of WRDA 2016 related to the rehabilitation project for Waterbury Dam, Washington County, Vermont.

**Sec. 8371. Puget Sound nearshore ecosystem restoration, Washington.** This section requires the Secretary to consider the removal and replacement of certain bridges and a causeway at the Duckabush River Estuary site in the Puget Sound Nearshore Restoration Project, as a primary project feature rather than a relocation.

**Sec. 8372. Lower Mud River, Milton, West Virginia.** This section modifies the project for flood control, Milton, West Virginia, as originally authorized by section 580 of WRDA 1996.

**Sec. 8373. Northern West Virginia.** This section amends section 571 of WRDA 1999 to realign the counties participating in the program.

**Sec. 8374. Southern West Virginia.** This section amends section 340 of WRDA 1992 to realign the counties participating in the program.

**Sec. 8375. Environmental infrastructure.** This section authorizes new and modifies existing environmental infrastructure authorities of the Secretary.

**Sec. 8376. Additional assistance for critical projects.** This section makes modifications to existing authorities for environmental infrastructure and environmental restoration.

**Sec. 8377. Conveyances.** This section authorizes the Secretary to convey real property owned by the Federal government in the following locations: City of Lewes, Delaware; Army Reserve Facility, Belleville, Illinois; Lake Barkley, Kentucky; Sardis Lake, Panola County, Mississippi; Rogers County, Oklahoma; and Corpus Christi, Texas.

**Sec. 8378. Land transfer and trust land for Choctaw Nation of Oklahoma.** This section authorizes a transfer of land at Sardis Lake, Oklahoma, to be held in trust for the benefit of the Choctaw Nation.

**Sec. 8379. John P. Murtha Locks and Dam.** This section designates Locks and Dam 4, Monongahela River, Pennsylvania, as the “John P. Murtha Locks and Dam.”

**Sec. 8380. Treatment of certain benefits and costs.** This section makes a technical change to an authority enacted in section 152(a) of WRDA 2020.

**Sec. 8381. Debris removal.** This section includes ecosystem restoration as an authorized justification for debris removal.

**Sec. 8382. General reauthorizations.** This section reauthorizes or extends the authorization of appropriations for existing authorities.

**Sec. 8383. Transfer of excess credit.** This section amends section 1020 of WRRDA 2014 to allow a credit for a study or project with multiple non-Federal sponsors to be applied to the non-Federal share of the cost of a study or project of any of the sponsors, to allow for the conditional approval of excess credit under certain circumstances, and to extend this authority through 2028.

**Sec. 8384. Treatment of credit between projects.** This section authorizes the Secretary, under the terms of the deferred payment agreement entered into between the Secretary and the non-Federal interest for the Lake Pontchartrain and Vicinity Hurricane Storm Damage Risk Reduction project, to reduce the non-Federal cost-share by applying a credit earned by the non-Federal interest on a different project.

**Sec. 8385. Non-Federal payment flexibility.** This section amends section 103(l) of WRDA 1986 to authorize the Secretary, at the request of any non-Federal interest, to waive accrual of interest on any non-Federal cash contribution for up to one year for a water resources development project.

**Sec. 8386. Coastal community flood control and other purposes.** This section authorizes the State of Louisiana to repay the remaining balance of the non-Federal share of costs for the Greater New Orleans Hurricane and Storm Damage Risk Reduction System it financed under section 103(k) of WRDA 1986 through the provision of approved mitigation activities for water resources development projects in the coastal area.

**Sec. 8387. National levee safety program.** This section modifies the definition of “rehabilitation” under the Levee Rehabilitation Assistance Program to include levee improvements to reduce flood risk or increase resiliency to extreme weather events. This section also directs the Secretary to prioritize levee restoration in rural and urban economically disadvantaged communities, where practicable. Finally, this section extends the authorization for the Levee Safety Initiative to 2028.

**Sec. 8388. Surplus water contracts and water storage agreements.** This section makes permanent the prohibition on the charging of fees for surplus water contracts in the Upper Missouri Mainstem Reservoirs enacted in section 1046(c) of WRRDA 2014.

**Sec. 8389. Water supply storage repair, rehabilitation, and replacement costs.** This section amends section 301(b) of the Water Supply Act of 1958 to clarify payment options for State or local interests to reimburse the Corps for repair, rehabilitation, and replacement costs for municipal and industrial water supply storage.

**Sec. 8390. Abandoned and inactive noncoal mine restoration.** This section amends section 560 of WRDA 1999 to specifically authorize restoration activities on land taken into trust on behalf of, and for the benefit of, an Indian tribe and reauthorize increased appropriations for the program.

**Sec. 8391. Asian carp prevention and control pilot program.** This section amends section 509(a)(2) of WRDA 2020 to authorize Asian carp prevention and control activities within the Tombigbee River watershed.

**Sec. 8392. Enhanced development program.** This section directs the Secretary to fully implement section 3134 of WRDA 2007 and section 164 of WRDA 2020.

**Sec. 8393. Recreational opportunities at certain projects.** This section expresses a sense of Congress that two Corps projects in Vermont, Ball Mountain Lake and Townshend Lake, should be operated in such a manner as to protect and enhance recreation. This section authorizes the Secretary to modify, or undertake temporary deviations from, the water control plans for these projects in order to enhance recreation.

**Sec. 8394. Federal assistance.** This section extends the Corps' operation and maintenance assistance authority under section 1328 of WRDA 2018.

**Sec. 8395. Mississippi River mat sinking unit.** This section directs the Secretary to expedite the replacement of the Mississippi River mat sinking unit.

**Sec. 8396. Sense of Congress on lease agreement.** This section expresses the sense of Congress that the City of Corona, California, has entered into a valid lease agreement with the Secretary for land and water areas within the Prado flood control basin project area.

**Sec. 8397. Expedited completion of projects and studies.** This section directs the Secretary, to the maximum extent practicable, to expedite the completion of designated water resources development projects and studies.

#### **Subtitle D – Water Resources Infrastructure**

**Sec. 8401. Project authorizations.** This section authorizes 25 water resources projects that have completed technical review by the Corps and are recommended by the Chief of Engineers. The projects are authorized to be carried out in accordance with the plan, and subject to the conditions, described in the Chief's Reports. The section also authorizes six modifications to previously authorized projects.

**Sec. 8402. Special rules.** This section modifies two projects, the project for coastal storm risk management, South Shore Staten Island, New York, and the project for hurricane and storm damage risk reduction, Charleston Peninsula, South Carolina, authorized by this Act.

**Sec. 8403. Facility investment.** This section authorizes the Secretary to design and construct a facility in Branson, Missouri, using funds available in the revolving fund established by the first section of the Civil Functions Appropriations Act, 1954.