

# Ninth Annual Status Report on U.S. Army Corps of Engineers Construction Projects Requiring Mitigation Under Section 906 of the Water Resources Development Act of 1986

As required by section 2036(b)  
Water Resources Development Act of 2007, as amended

January 2017



**U.S. Army Corps  
of Engineers®**

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## INTRODUCTION

This Ninth Annual Status Report on U.S. Army Corps of Engineers (Corps) Construction Projects Requiring Mitigation was prepared in response to Section 2036(b) of the Water Resources Development Act (WRDA) of 2007, as amended. Data for this report are presented in three tables and will be included in the Fiscal Year (FY) 2018 Civil Works Budget press book.

TABLE 1. – Corps Projects under Construction Receiving an Allocation in FY2016. Table 1 lists 198 projects and/or programs that were allotted funds in FY2016 in the Construction Account or Mississippi River and Tributaries Construction Account. Programs such as the various environmental infrastructure authorities are represented by one line item. Projects that are under construction but received funds in a previous fiscal year are not included in Table 1. However, if these previously funded ongoing construction projects have ongoing mitigation requirements, the projects are included in Table 2.

TABLE 2. - Status of Corps Projects with Incomplete Compensatory Mitigation. Table 2 outlines the status of the 83 projects with incomplete compensatory mitigation. Most of the 198 projects from Table 1 are not listed in Table 2 because physical construction may not have started, the project may not require compensatory mitigation, or the mitigation may have been completed in previous years. As stated above, projects in Table 2 may not be reflected in Table 1 if they did not receive funding in FY2016 but have ongoing mitigation commitments. Table 2 includes compensatory mitigation projects pending acquisition of all required lands, pending initial construction of the mitigation actions, and/or constructed mitigation actions that are currently being monitored to confirm the mitigation action is functioning successfully as defined by project specific performance criteria. The number of acres listed under the column heading "Mitigation Total Acres of Land Acquired" are acres of land available to mitigate adverse project impacts through either construction of compensatory mitigation actions or preservation of at risk habitat as compensatory mitigation. It may include lands that have been purchased in fee to provide mitigation; are within existing Corps project boundaries or mitigation banks; have been made available by other agencies; or are located below mean low water in coastal areas. For some projects, the mitigation listed includes actions required to meet the Endangered Species Act of 1973 (ESA), as amended, as well as, section 906 of WRDA 1986, as amended. Projects that were initiated prior to section 906 of WRDA 1986 but required mitigation are included in Table 2 and noted accordingly.

Mitigation is considered complete when the Major Subordinate Command (MSC)/Division Commander determines the mitigation is successful based on monitoring results and the results of the consultation with the appropriate agencies regarding mitigation success as required by section 2036 (a)(4) of WRDA 2007. During FY2016 there were no mitigation consultation completions to report.

FY 2017 Civil Works Budget Press Book. This report normally references the

press book containing a listing of all projects for which the President requests funding for the next fiscal year. At the time this report was prepared, the press book was still under preparation.

## CONCLUSION

Based on the percentage of mitigation completed and the percentage of construction completed data in Table 2, mitigation and construction activities are have progressed concurrently, in accordance with section 906 of WRDA 1986, as amended. It should be noted that some mitigation features reported are being managed programmatically, over the geographic scope of the system, and from a system-wide perspective the mitigation is progressing concurrently with construction.

## U.S. Army Corps of Engineers Major Subordinate Commands (MSCs) and Districts

| <b>Acronym</b> | <b>Major Subordinate Command (MSC)/District</b> |
|----------------|---|
| LRD            | GREAT LAKES AND OHIO RIVER DIVISION             |
| LRB            | BUFFALO   |
| LRC            | CHICAGO   |
| LRE            | DETROIT   |
| LRH            | HUNTINGTON                                      |
| LRL            | LOUISVILLE                                      |
| LRN            | NASHVILLE                                       |
| LRP            | PITTSBURGH                                      |
|                |   |
| MVD            | MISSISSIPPI VALLEY DIVISION                     |
| MVK            | VICKSBURG                                       |
| MVM            | MEMPHIS   |
| MVN            | NEW ORLEANS                                     |
| MVP            | ST PAUL DISTRICT                                |
| MVR            | ROCK ISLAND                                     |
| MVS            | ST LOUIS  |
|                |   |
| NAD            | NORTH ATLANTIC DIVISION                         |
| NAB            | BALTIMORE                                       |
| NAE            | NEW ENGLAND                                     |
| NAN            | NEW YORK  |
| NAO            | NORFOLK   |
| NAP            | PHILADELPHIA                                    |
|                |   |
| NWD            | NORTHWESTERN DIVISION                           |
| NWK            | KANSAS CITY                                     |
| NWO            | OMAHA   |
| NWP            | PORTLAND  |
| NWS            | SEATTLE   |
| NWW            | WALLA WALLA                                     |
|                |   |
| POD            | PACIFIC OCEAN DIVISION                          |
| POA            | ALASKA  |
| POH            | HONOLULU  |
|                |   |
| SAD            | SOUTH ATLANTIC DIVISION                         |
| SAJ            | JACKSONVILLE                                    |
| SAM            | MOBILE  |
| SAS            | SAVANNAH  |
| SAW            | WILMINGTON                                      |
| SAC            | CHARLESTON                                      |
|                |   |
| SPD            | SOUTH PACIFIC DIVISION                          |
| SPA            | ALBUQUERQUE                                     |
| SPK            | SACRAMENTO                                      |

|     |               |
|-----|---------------|
| SPL | LOS ANGELES   |
| SPN | SAN FRANCISCO |

| <b>Acronym</b> | <b>MSC/District</b>   |
|----------------|-----------------------|
| SWD            | SOUTHWESTERN DIVISION |
| SWF            | FT WORTH              |
| SWG            | GALVESTON             |
| SWL            | LITTLE ROCK           |
| SWT            | TULSA                 |

| TABLE 1. CORPS PROJECTS UNDER CONSTRUCTION RECEIVING AN ALLOCATION DURING FY 2016 |          |  |
|---|----------|--|
| MSC   | DISTRICT | PROJECT (OR PROGRAM NAME)                                      |
| LRD   | LRC      | CALUMET HARBOR AND RIVER, IL & IN                              |
| LRD   | LRC      | CALUMET REGION, INR  |
| LRD   | LRC      | CHICAGO SANITARY AND SHIP CANAL DISPERSAL BARRIER, IL          |
| LRD   | LRC      | COOK COUNTY INFRASTRUCTURE, IL                                 |
| LRD   | LRC      | INDIANA SHORELINE EROSION, IN                                  |
| LRD   | LRC      | MCCOOK AND THORNTON RESERVOIRS, IL                             |
| LRD   | LRE      | NORTHERN WISCONSIN ENVIRONMENTAL ASSISTANCE, WI                |
| LRD   | LRE      | OAKLAND COUNTY, MI   |
| LRD   | LRE      | SAULT STE MARIE (REPLACEMENT LOCK), MI                         |
| LRD   | LRH      | BLUESTONE LAKE, WV   |
| LRD   | LRH      | BOLIVAR DAM, OH (DAM SAFETY)                                   |
| LRD   | LRH      | DOVER DAM, MUSKINGUM RIVER, OH (DAM SAFETY)                    |
| LRD   | LRH      | LEVISA AND TUG FORKS AND UPPER CUMBERLAND RIVER, VA, WV & KY   |
| LRD   | LRH      | OHIO & NORTH DAKOTA ENVIRONMENTAL INFRASTRUCTURE, OH & ND      |
| LRD   | LRH      | SOUTHERN AND EASTERN KENTUCKY ENVIRONMENTAL                    |
| LRD   | LRH      | SOUTHERN WEST VIRGINIA ENVIRONMENTAL INFRASTRUCTURE, WV        |
| LRD   | LRH      | ZOAR LEVEE AT DOVER DAM, OH (SEEPAGE CORRECTION -              |
| LRD   | LRL      | INDIANAPOLIS, WHITE RIVER (NORTH), IN                          |
| LRD   | LRL      | OLMSTED LOCKS AND DAM, OHIO RIVER, IL & KY                     |
| LRD   | LRL      | SOUTHERN AND EASTERN KENTUCKY ENVIRONMENTAL                    |
| LRD   | LRN      | CENTER HILL LAKE, TN   |
| LRD   | LRN      | CHICKAMAUGA LOCK, TENNESSEE RIVER, TN                          |
| LRD   | LRN      | CUMBERLAND COUNTY WATER SUPPLY, TN                             |
| LRD   | LRN      | EASTERN SHORE AND SOUTHWEST VIRGINIA, VA                       |
| LRD   | LRN      | KENTUCKY LOCK AND DAM, TENNESSEE RIVER, KY                     |
| LRD   | LRN      | LEVISA AND TUG FORKS AND UPPER CUMBERLAND RIVER, VA, WV & KY   |
| LRD   | LRP      | EAST BRANCH CLARION RIVER LAKE, PA                             |
| LRD   | LRP      | LOCKS AND DAMS 2, 3 AND 4, MONONGAHELA RIVER, PA               |
| LRD   | LRP      | OHIO & NORTH DAKOTA ENVIRONMENTAL INFRASTRUCTURE, OH & ND      |
| LRD   | LRP      | SOUTH CENTRAL PA ENVIRONMENTAL IMPROVEMENT PROGRAM, PA         |
| LRD   | LRP      | THREE RIVERS WET WEATHER DEMO PROGRAM, PA                      |
| MVD   | MVK      | CHANNEL IMPROVEMENT, DIKES, AR, IL, KY, LA, MS, MO & TN        |
| MVD   | MVK      | CHANNEL IMPROVEMENT, REVETMENT OPERATIONS, AR, IL, KY, LA, MS, |
| MVD   | MVK      | J BENNETT JOHNSTON WATERWAY, LA                                |
| MVD   | MVK      | MISSISSIPPI ENVIRONMENTAL INFRASTRUCTURE, MS                   |
| MVD   | MVK      | MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO & TN          |
| MVD   | MVK      | YAZOO BASIN - DELTA HEADWATERS PROJECT, MS                     |
| MVD   | MVK      | YAZOO BASIN - UPPER YAZOO PROJECTS, MS                         |
| MVD   | MVK      | YAZOO BASIN, BIG SUNFLOWER RIVER, MS                           |
| MVD   | MVK      | YAZOO BASIN, YAZOO BACKWATER AREA, MS                          |
| MVD   | MVM      | BAYOU METO BASIN, AR   |
| MVD   | MVM      | CHANNEL IMPROVEMENT, DIKES, AR, IL, KY, LA, MS, MO & TN        |
| MVD   | MVM      | CHANNEL IMPROVEMENT, REVETMENT OPERATIONS, AR, IL, KY, LA, MS, |
| MVD   | MVM      | DESOTO COUNTY WASTEWATER TREATMENT, MS                         |
| MVD   | MVM      | GRAND PRAIRIE REGION, AR                                       |
| MVD   | MVM      | MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO & TN          |

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|---|----------|--|
| MSC   | DISTRICT | PROJECT (OR PROGRAM NAME)                                      |
| MVD   | MVM      | ST FRANCIS BASIN, AR & MO                                      |
| MVD   | MVN      | ASCENSION PARISH ENVIRONMENTAL INFRASTRUCTURE                  |
| MVD   | MVN      | ATCHAFALAYA BASIN, FLOODWAY SYSTEM, LA                         |
| MVD   | MVN      | ATCHAFALAYA BASIN, LA  |
| MVD   | MVN      | CHANNEL IMPROVEMENT, REVETMENT OPERATIONS, AR, IL, KY, LA, MS, |
| MVD   | MVN      | COMITE RIVER, LA   |
| MVD   | MVN      | EAST BATON ROUGE PARISH ENVIRONMENTAL INFRASTRUCTURE, LA       |
| MVD   | MVN      | LOUISIANA COASTAL AREA ECOSYSTEM RESTORATION, LA               |
| MVD   | MVN      | MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO & TN          |
| MVD   | MVP      | FARGO, ND - MOORHEAD, MN METRO                                 |
| MVD   | MVP      | MARSH LAKE, MN (MINNESOTA RIVER AUTHORITY)                     |
| MVD   | MVP      | NORTHEASTERN MINNESOTA ENVIRONMENTAL INFRASTRUCTURE, MN        |
| MVD   | MVP      | UPPER MISSISSIPPI RIVER RESTORATION, IL, IA, MN, MO & WI       |
| MVD   | MVR      | DES MOINES AND RACCOON RIVERS, IA                              |
| MVD   | MVR      | ILLINOIS WATERWAY, LOCKPORT LOCK AND DAM, IL (MAJOR REHAB)     |
| MVD   | MVR      | UPPER MISSISSIPPI RIVER RESTORATION, IL, IA, MN, MO & WI       |
| MVD   | MVS      | BOIS BRULE DRAINAGE AND LEVEE DISTRICT, MISSOURI               |
| MVD   | MVS      | CAPE GIRARDEAU (FLOODWALL), MO                                 |
| MVD   | MVS      | EAST ST LOUIS, IL  |
| MVD   | MVS      | MELVIN PRICE LOCK AND DAM, IL & MO                             |
| MVD   | MVS      | MISSISSIPPI RIVER BETWEEN THE OHIO AND MISSOURI RIVERS (REG    |
| MVD   | MVS      | MONARCH - CHESTERFIELD, MO                                     |
| MVD   | MVS      | ST. LOUIS, MO (COMBINED SEWER OVERFLOW)                        |
| MVD   | MVS      | UPPER MISSISSIPPI RIVER RESTORATION, IL, IA, MN, MO & WI       |
| MVD   | MVS      | WOOD RIVER LEVEE, DEFICIENCY CORRECTION AND RECONSTRUCTION,    |
| NAD   | NAB      | ASSATEAGUE, MD   |
| NAD   | NAB      | CHESAPEAKE BAY OYSTER RECOVERY, MD & VA                        |
| NAD   | NAB      | POPLAR ISLAND, MD  |
| NAD   | NAN      | ATLANTIC COAST OF NYC, ROCKAWAY INLET TO NORTON POINT, NY      |
| NAD   | NAN      | EAST ROCKAWAY INLET TO ROCKAWAY INLET AND JAMAICA BAY, NY      |
| NAD   | NAN      | FIRE ISLAND INLET TO MONTAUK POINT, NY                         |
| NAD   | NAN      | LAKE CHAMPLAIN WATERSHED INITIATE,VT                           |
| NAD   | NAN      | LONG BEACH ISLAND, NY  |
| NAD   | NAN      | MONTAUK POINT, NY  |
| NAD   | NAN      | NEW YORK CITY WATERSHED, NY                                    |
| NAD   | NAN      | PASSAIC RIVER MAINSTEM, NJ                                     |
| NAD   | NAN      | RARITAN BAY AND SANDY HOOK BAY, PORT MONMOUTH, NJ              |
| NAD   | NAN      | RARITAN BAY AND SANDY HOOK BAY, UNION BEACH, NJ                |
| NAD   | NAN      | RARITAN RIVER BASIN, GREEN BROOK SUB-BASIN, NJ                 |
| NAD   | NAN      | SANDY HOOK TO BARNEGAT INLET, NJ                               |
| NAD   | NAO      | AIWW, BRIDGES AT DEEP CREEK, VA                                |
| NAD   | NAO      | CHESAPEAKE BAY OYSTER RECOVERY, MD & VA                        |
| NAD   | NAO      | NORFOLK HARBOR AND CHANNELS, CRANEY ISLAND, VA                 |
| NAD   | NAO      | WILLOUGHBY SPIT AND VICINITY, NORFOLK, VA                      |
| NAD   | NAP      | BARNEGAT INLET TO LITTLE EGG HARBOR INLET, NJ                  |
| NAD   | NAP      | BRIGANTINE INLET TO GREAT EGG INLET (ABSECON ISLAND), NJ       |

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|---|----------|---|
| MSC   | DISTRICT | PROJECT (OR PROGRAM NAME)   |
| NAD   | NAP      | CAPE MAY INLET TO LOWER TOWNSHIP, NJ                                |
| NAD   | NAP      | DELAWARE COAST PROTECTION, DE                                       |
| NAD   | NAP      | DELAWARE RIVER MAIN CHANNEL, NJ, PA & DE                            |
| NAD   | NAP      | GREAT EGG HARBOR INLET TO TOWNSEND INLET, NJ                        |
| NAD   | NAP      | LOWER CAPE MAY MEADOWS, CAPE MAY POINT, NJ                          |
| NAD   | NAP      | MANASQUAN INLET TO BARNEGAT INLET, NJ                               |
| NAD   | NAP      | NEW JERSEY SHORE PROTECTION, HEREFORD TO CAPE MAY INLET, NJ         |
| NAD   | NAP      | SOUTHEASTERN PENNSYLVANIA, PA                                       |
| NWD   | NWK      | BLUE RIVER BASIN, KANSAS CITY, MO                                   |
| NWD   | NWK      | KANSAS CITYS, MO & KS   |
| NWD   | NWK      | MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & |
| NWD   | NWK      | MISSOURI RIVER LEVEE SYSTEM, IA, NE, KS & MO                        |
| NWD   | NWK      | MISSOURI RIVER LEVEE SYSTEM, UNITS L455 & R460-471, MO & KS         |
| NWD   | NWK      | SWOPE PARK INDUSTRIAL AREA, KANSAS CITY, MO                         |
| NWD   | NWK      | TOPEKA, KS  |
| NWD   | NWK      | TURKEY CREEK BASIN, KS & MO   |
| NWD   | NWO      | GARRISON DAM, LAKE SAKAKAWEA, ND                                    |
| NWD   | NWO      | MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & |
| NWD   | NWO      | NORTH DAKOTA INFRASTRUCTURE, ND                                     |
| NWD   | NWO      | RURAL MONTANA, MT   |
| NWD   | NWP      | COLUMBIA RIVER AT THE MOUTH, OR & WA                                |
| NWD   | NWP      | COLUMBIA RIVER FISH MITIGATION, WA, OR & ID                         |
| NWD   | NWP      | COLUMBIA RIVER TREATY FISHING ACCESS SITES, OR & WA                 |
| NWD   | NWP      | LOWER COLUMBIA RIVER ECOSYSTEM RESTORATION, OR & WA                 |
| NWD   | NWP      | MOUNT SAINT HELENS SEDIMENT CONTROL, WA                             |
| NWD   | NWP      | THE DALLES LOCK AND DAM, WA & OR                                    |
| NWD   | NWS      | GRAYS HARBOR, WA  |
| NWD   | NWS      | HOWARD HANSON DAM, WA   |
| NWD   | NWS      | MUD MOUNTAIN DAM, WA  |
| NWD   | NWS      | PUGET SOUND AND ADJACENT WATERS RESTORATION, WA                     |
| NWD   | NWS      | RURAL IDAHO, ID   |
| NWD   | NWS      | RURAL MONTANA, MT   |
| NWD   | NWW      | COLUMBIA RIVER FISH MITIGATION, WA, OR & ID                         |
| NWD   | NWW      | LOWER SNAKE RIVER FISH AND WILDLIFE COMPENSATION, WA, OR & ID       |
| NWD   | NWW      | RURAL IDAHO, ID   |
| POD   | POA      | BETHEL BANK STABILIZATION, AK                                       |
| POD   | POA      | PORT LIONS HARBOR, AK   |
| POD   | POH      | IAO STREAM FLOOD CONTROL, MAUI, HI                                  |
| SAD   | SAC      | CHARLESTON HARBOR, SC   |
| SAD   | SAC      | FOLLY BEACH, SC   |
| SAD   | SAC      | MYRTLE BEACH, SC  |
| SAD   | SAJ      | BREVARD COUNTY, CANAVERAL HARBOR, FL                                |
| SAD   | SAJ      | BROWARD COUNTY, FL (REIMBURSABLE)                                   |
| SAD   | SAJ      | CENTRAL & SOUTHERN FLORIDA, FL                                      |
| SAD   | SAJ      | FLORIDA KEYS WATER QUALITY IMPROVEMENTS, FL                         |
| SAD   | SAJ      | FORT PIERCE BEACH, FL   |

| <b>TABLE 1. CORPS PROJECTS UNDER CONSTRUCTION RECEIVING AN ALLOCATION DURING FY 2016</b> |                 |  |
|--|-----------------|--|
| <b>MSC</b>   | <b>DISTRICT</b> | <b>PROJECT (OR PROGRAM NAME)</b>                         |
| SAD  | SAJ             | HERBERT HOOVER DIKE, FL (SEEPAGE CONTROL)                |
| SAD  | SAJ             | KISSIMMEE RIVER, FL                                      |
| SAD  | SAJ             | MANATEE HARBOR, FL                                       |
| SAD  | SAJ             | NASSAU COUNTY, FL  |
| SAD  | SAJ             | RIO DE LA PLATA, PR                                      |
| SAD  | SAJ             | RIO PUERTO NUEVO, PR                                     |
| SAD  | SAJ             | ST JOHN'S COUNTY, FL                                     |
| SAD  | SAM             | ATLANTA ENVIRONMENTAL INFRASTRUCTURE, GA                 |
| SAD  | SAS             | RICHARD B RUSSELL DAM AND LAKE, GA & SC                  |
| SAD  | SAS             | SAVANNAH HARBOR DISPOSAL AREAS, GA & SC                  |
| SAD  | SAS             | SAVANNAH HARBOR EXPANSION, GA                            |
| SAD  | SAW             | WILMINGTON HARBOR, NC                                    |
| SPD  | SPA             | ACEQUIAS IRRIGATION SYSTEM, NM                           |
| SPD  | SPA             | ALAMOGORDO, NM   |
| SPD  | SPA             | CENTRAL NEW MEXICO, NM                                   |
| SPD  | SPA             | EL PASO COUNTY, TX                                       |
| SPD  | SPA             | NEW MEXICO ENVIRONMENTAL INFRASTRUCTURE PROGRAM          |
| SPD  | SPA             | RESTORATION OF ABANDONED MINE SITES                      |
| SPD  | SPA             | RIO GRANDE FLOODWAY, SAN ACACIA TO BOSQUE DEL APACHE, NM |
| SPD  | SPK             | AMERICAN RIVER COMMON FEATURES, NATOMAS BASIN, CA        |
| SPD  | SPK             | AMERICAN RIVER WATERSHED (FOLSOM DAM MODIFICATIONS), CA  |
| SPD  | SPK             | AMERICAN RIVER WATERSHED (FOLSOM DAM RAISE), CA          |
| SPD  | SPK             | HAMILTON CITY, CA  |
| SPD  | SPK             | ISABELLA LAKE, CA (DAM SAFETY)                           |
| SPD  | SPK             | MID-VALLEY AREA LEVEE RECONSTRUCTION, CA                 |
| SPD  | SPK             | RURAL UTAH   |
| SPD  | SPK             | SACRAMENTO RIVER BANK PROTECTION PROJECT, CA             |
| SPD  | SPK             | STOCKTON METROPOLITAN FLOOD CONTROL REIMBURSEMENT, CA    |
| SPD  | SPK             | SUCCESS DAM, TULE RIVER, CA (DAM SAFETY)                 |
| SPD  | SPK             | TAHOE BASIN RESTORATION 108                              |
| SPD  | SPK             | TULE RIVER, CA   |
| SPD  | SPK             | YUBA RIVER BASIN, CA                                     |
| SPD  | SPL             | CAMBRIA SEAWATER DESALINATION, CA                        |
| SPD  | SPL             | CITY OF INGLEWOOD  |
| SPD  | SPL             | DESERT HOT SPRINGS, CA                                   |
| SPD  | SPL             | MURRIETA CREEK, CA                                       |
| SPD  | SPL             | NORTH VALLEY REGIONAL WATER INFRASTRUCTURE, CA           |
| SPD  | SPL             | RIO DE FLAG FLAGSTAFF, AZ                                |
| SPD  | SPL             | RURAL NEVADA (SECTION 595)                               |
| SPD  | SPL             | SAN LUIS REY RIVER, CA                                   |
| SPD  | SPL             | SANTA ANA RIVER MAINSTEM, CA                             |
| SPD  | SPL             | SOUTH PERRIS, CA   |
| SPD  | SPL             | SURFSIDE - SUNSET - NEWPORT BEACH, CA                    |
| SPD  | SPL             | TROPICANA AND FLAMINGO WASHES, NV                        |
| SPD  | SPL             | TUCSON DRAINAGE AREA, AZ                                 |
| SPD  | SPN             | CONTRA COSTA CANAL, CA (SEC 219)                         |

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|--|-----------------|---|
| <b>MSC</b>   | <b>DISTRICT</b> | <b>PROJECT (OR PROGRAM NAME)</b>                        |
| SPD  | SPN             | COYOTE & BERRYESSA CREEKS, CA                           |
| SPD  | SPN             | HAMILTON AIRFIELD WETLANDS RESTORATION, CA              |
| SPD  | SPN             | NAPA RIVER, SALT MARSH RESTORATION, CA                  |
| SPD  | SPN             | OAKLAND HARBOR (50 FOOT PROJECT), CA                    |
| SPD  | SPN             | SAN FRANCISCO, CA (PIER 36)                             |
| SPD  | SPN             | UPPER GUADALUPE RIVER, CA                               |
| SWD  | SWF             | CENTRAL CITY, FORT WORTH, UPPER TRINITY RIVER BASIN, TX |
| SWD  | SWF             | DALLAS FLOODWAY EXTENSION, TRINITY RIVER PROJECT, TX    |
| SWD  | SWF             | LOWER COLORADO RIVER BASIN (WHARTON/ONION), TX          |
| SWD  | SWG             | BRAYS BAYOU, HOUSTON, TX                                |
| SWD  | SWG             | BUFFALO BAYOU AND TRIBUTARIES, TX                       |
| SWD  | SWG             | GIWW, CHOCOLATE BAYOU, TX                               |
| SWD  | SWG             | GREENS BAYOU, HOUSTON, TX                               |
| SWD  | SWT             | PINE CREEK LAKE, OK                                     |

**ACRONYMS USED IN TABLE 2**

|        |  |
|--------|--|
| ac     | acres  |
| AAHU   | Average Annual Habitat Unit                        |
| AGFC   | Arkansas Game and Fish Commission                  |
| BLH    | Bottomland Hardwoods                               |
| CVPIA  | Central Valley Project Improvement Act             |
| DMMP   | Dredged Material Management Plan                   |
| EA     | Environmental Assessment                           |
| EFH    | Essential Fish Habitat                             |
| EIS    | Environmental Impact Statement                     |
| ESA    | Endangered Species Act                             |
| FDEP   | Florida Department of Environmental Protection     |
| FR     | Feasibility Report                                 |
| ft     | feet   |
| FY     | Fiscal Year  |
| GRR    | General Re-evaluation Report                       |
| HEP    | Habitat Evaluation Protocol                        |
| HES    | Habitat Evaluation System                          |
| HGM    | Hydrogeomorphic Model                              |
| H&H    | Hydrology and Hydraulics                           |
| HMP    | Habitat Management Plan                            |
| HSDRRS | Hurricane and Storm Damage Risk Reduction System   |
| IER    | Individual Environmental Report                    |
| IWM    | In-water woody material                            |
| KDFWR  | Kentucky Department of Fish and Wildlife Resources |
| lf     | linear feet  |
| LRR    | Limited Re-evaluation Report                       |
| MDC    | Missouri Department of Conservation                |
| NCDMS  | North Carolina Division of Mitigation Services     |
| NFS    | Non-Federal Sponsor                                |
| NFWF   | National Fish and Wildlife Foundation              |
| NEPA   | National Environmental Policy Act                  |
| O&M    | Operations and Maintenance                         |
| PDD    | Project Decision Document                          |
| PIER   | Programmatic Individual Environmental Report       |
| PNA    | Primary Nursery Area                               |
| ROD    | Record of Decision                                 |
| TSP    | Tentatively Selected Plan                          |
| USFWS  | U.S. Fish and Wildlife Service                     |
| USFS   | U.S. Forest Service                                |
| VELB   | Valley Elderberry Longhorn Beetle                  |
| WMP    | Wildlife Management Area                           |
| WRDA   | Water Resources Development Act                    |

| TABLE 2. STATUS OF CORPS PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION FY 2016 |          |  |  |                                     |                                      |                                      |   |  |                           |
|---|----------|--|--|-------------------------------------|--------------------------------------|--------------------------------------|---|--|---------------------------|
| MSC   | District | Project Name   | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements   | Mitigation Accomplishments to Date   | Estimated Date of Success |
| LRD   | LRC      | Little Calumet River, IN   | 20                                     | 100                                 | 435.1                                | 435.1                                | A total of 435.1 ac are required to meet the compensatory mitigation requirement for the Little Calumet River project. Mitigation includes establishing functional BLH forests and emergent wetlands offsite.   | To date, all of the required land has been acquired. Little Cal mitigation area restored: 3 ac of wet prairie, 42 ac of mesic/wet mesic prairie and 44 ac of wet oak savanna. At the Hobart Marsh site (346 ac), no mitigation work has taken place since land acquisition was completed. No monitoring or mitigation work was done during 2011 or 2012, and the project was suspended pending resolution of financial issues of the NFS. These issues were resolved and a mitigation contract was awarded for the Hobart marsh mitigation in FY16.  | 2021                      |
| LRD   | LRH      | Marmet Lock Replacement, WV (Kanawha River Navigation Study - Marmet Lock Replacement) | 100                                    | 100                                 | 104.8                                | 104.8                                | A total of 59.45 ac were required for mitigation of impacts to terrestrial natural resources. Terrestrial mitigation activities included restoration of hardwood forest, BLH/riparian habitats, and agricultural/old field. A total of 45.3 ac were required for mitigating impacts to the Kanawha River aquatic habitat. Instream mitigation activities for adverse impacts included construction of instream stone and timber dikes, rubble placement, and root wads for habitat improvement. | In-stream aquatic habitat mitigation activities included fish re-introduction; habitat conservation; and, construction of structural measures - stone and timber dikes, rubble placement, and root wads for habitat improvement. Aquatic habitat mitigation comprised 45.3 ac. Mitigation for impacts to aquatic habitat was completed and success criteria met in 2007. Created 5.3 ac of riverine riparian habitat, planted 31.1 ac of hardwood forest, planted 4.1 ac of BLH forest/riparian, and planted 17.7 ac of prairie grasses and mast seed. Construction of mitigation requirements for terrestrial impacts was completed in 2009. No work conducted in 2014 or 2015. HEP started in 2016 to determine success of terrestrial mitigation.                 | 2020                      |
| LRD   | LRL      | Olmsted Locks and Dam, Ohio River, IL & KY   | 100                                    | 74                                  | 3463                                 | 3463                                 | Mitigation for the project includes purchase of mitigation lands; increased water management capability on Ballard WMA, KY; monitoring of bald eagles and waterfowl populations; monitoring of freshwater mussel populations; support of development of restoration and propagation methodologies for mussels; and, restoration of former clay mine site that serves as large part of construction site.  | Acquired BLHs, wetlands, and agricultural lands totaling 2,063 ac for wildlife management. Constructed water supply system providing wetland management capabilities on Ballard WMA State Lands, KY. Provided KDFWR funding to monitor and construct or repair managed wetlands. All mitigation has been completed, but success cannot be determined until completion of project construction. The Corps continues monitoring mussels in 14 miles of Ohio River. Annual monitoring began in 1993 and is scheduled to continue for 5 years into operation of the facility or after the end of construction funding. Sampling for 2016 has been conducted. Data related to 2016 sampling is currently being entered and analyzed with a completion report forthcoming. | 2023                      |

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| TABLE 2. STATUS OF CORPS PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION FY 2016 |          |  |  |                                     |                                      |                                      |   |  |                           |
|---|----------|--|--|-------------------------------------|--------------------------------------|--------------------------------------|---|--|---------------------------|
| MSC   | District | Project Name                                     | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements   | Mitigation Accomplishments to Date   | Estimated Date of Success |
| LRD   | LRN      | Center Hill Dam Safety Major Rehab, KY           | 1                                      | 38                                  | 44.3                                 | 44                                   | Mitigation requirements to address impacts for Center Hill Major Rehab Seepage include: payment into a wetland mitigation bank or in-lieu fee fund at a 2:1 ratio for wetland loss (cost to be determined); restoration of stream and riparian habitat along 450 lf of Moss Hollow Branch for temporary stream impacts; and, planting of 43 ac of forested habitat with native seedling trees at 200 stems/ac.  | Mitigation Plan has been completed and attached to the final EA. In FY16, the Corps purchased 0.26 ac of in lieu fee credits from wetland bank to mitigate 0.13 ac of impacted wetland habitat by segment PEM1, totaling more than 1% of minimum mitigation requirement.   | 2023                      |
| LRD   | LRP      | Locks and Dams 2, 3 and 4, Monongahela River, PA | 25                                     | 23.2                                | 0                                    | 0                                    | Construction of design features into the Braddock Dam to increase water aeration and increase dissolved oxygen concentration in receiving water. A total of 396 ac are required to meet the compensatory mitigation requirement for the dams 2, 3, and 4 on the Lower Monongahela River. Of the total acreage, 213 ac are riverine/shoreline accessible through navigation servitude. The other 183 ac of upland were an abandoned strip mine acquired for project disposal requirements and not for project mitigation needs. Mitigation includes restoring shallow riverine habitat, establishing emergent wetlands, and ecosystem restoration of the upland disposal site at project completion. | Low flow re-aeration (water quality gate) completed and operational at Braddock Dam since 2004. Mitigation for aquatic habitat (40 ac of dam tail water loss) and wetland impacts from pool elevation changes (173 ac) is scheduled to coincide with the removal of Dam 3 and its consequential pool elevation changes, anticipated about 2023. No upland mitigation work will be initiated at the project's government disposal site (183 ac) until the conclusion of project construction. | 2023                      |
| MVD   | MVK      | J Bennett Johnston Waterway, LA *                | 60                                     | 89                                  | 14000                                | 9679                                 | Purchase 14,000 ac of BLH lands for management and reforestation. Lands may be a mixture of agricultural for restoration or be already existing forest.   | As of FY16, 9,679 ac have been purchased. Ongoing efforts underway to acquire remaining 4,321.06 ac of land from willing sellers.  | 2025                      |

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|---|----------|---|--|-------------------------------------|--------------------------------------|--------------------------------------|---|---|---------------------------|
| MSC   | District | Project Name  | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements   | Mitigation Accomplishments to Date  | Estimated Date of Success |
| MVD   | MVK      | Mississippi River Levees (MRL) Construction, MS **  | 98                                     | 41.2                                | 5200                                 | 5095                                 | Reforestation of 5,200 ac of frequently flooded agricultural lands. These areas would be acquired in fee and planted in BLH typical of the project area. For the 3 levee districts combined, these mitigation features would mitigate 100% of the wetland losses, 252% of the terrestrial losses, and 412% of the waterfowl losses. All attempts would be made to purchase lands in the approximate vicinity of the project impacts and within the state and/or levee district in which the losses occur.                 | Reforested ~5,095 or the required 5,200 ac of BLH. Remaining acreage of mitigation will continue to be purchased concurrently with future construction efforts. To date, mitigation is ahead of construction.   | 2025                      |
| MVD   | MVK      | Yazoo Basin, Upper Yazoo Projects, MS *, **         | 74.6                                   | 70                                  | 16250                                | 12402.9                              | Purchase 16,250 ac of BLH habitat, either cleared or agriculture land, for reforestation and management.  | As of FY16, 12,402.94 ac of cleared frequently flooded agricultural lands has been purchased, 10,327.94 ac has been reforested with BLHs, 1,503 ac is in moist soil management, and 272 ac were reforested in 2013. 3,847 ac remain to be acquired.   | 2025                      |
| MVD   | MVK      | Yazoo Basin, Yazoo Backwater Maintenance, MS, *, ** | 66                                     | 100                                 | 12500                                | 9653.6                               | It was determined that 12,500 ac of frequently flooded agricultural lands were to be purchased in fee from willing sellers and reforested to create BLHs.   | Between 1988 and 1997, 8807 ac at the Lake George tract were planted. Seedling survival exceeds 50% for the BLH species replanted. The Less Rocky 2015 and Less Rocky 2016 tracts were acquired in 2015- 2016, totaling 847 ac, which will contribute to the Lake George mitigation requirement.  | 2035                      |
| MVD   | MVM      | Bayou Meto Basin, AR                                | 2.5                                    | 14                                  | 4113                                 | 100                                  | HEP and HGM evaluations were conducted to determine the appropriate compensatory mitigation requirements for the loss and adverse impacts to BLH. ~4,113 ac of BLH restoration is expected to fully mitigate project impacts. The Corps, in coordination with the environmental interagency team, determined that the appropriate compensatory mitigation for the 27 ac of impacts to backwater habitat would be in-kind mitigation of 27 ac of currently isolated backwater habitat within the Arkansas River watershed. | A 100 ac tract of prior converted farmland was planted with BLH tree species in 2014. Informal monitoring conducted in 2015 and 2016 concluded that tree survival is >90% and the site is functioning well. No formal report has been created. In 2015, ~27 ac backwater site was investigated for use as mitigation. Discussions with the landowner fell through due to the landowner's eventual reluctance to sell the land. The Corps, USFWS, and AGFC are continuing to search for land that is suitable to mitigate for expected and incurred impacts. | 2021                      |

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| TABLE 2. STATUS OF CORPS PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION FY 2016 |          |   |  |                                     |                                      |                                      |  |   |                           |
|---|----------|---|--|-------------------------------------|--------------------------------------|--------------------------------------|--|---|---------------------------|
| MSC   | District | Project Name  | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements  | Mitigation Accomplishments to Date  | Estimated Date of Success |
| MVD   | MVM      | Grand Prairie Region, AR  | 38                                     | 27                                  | 380                                  | 142.5                                | The HES was used to determine the appropriate compensatory mitigation for the Grand Prairie Area Demonstration Project. It was determined in the 2004 EA that restoration of 182 ac of prior converted farmland to BLH and restoration of 198 ac of farmland to upland vegetation would satisfy compensatory mitigation requirements for the project. Since that time, coordination with the interagency team has revealed the preference for native prairie grass restoration, in some instances, depending on the sites acquired.                            | As of 2016, 106 ac of farmland for wetland mitigation has been purchased. 40 ac were planted in January 2014 with BLH species. Remaining planting has not yet occurred due to flooding. 36.5 ac of upland habitat has been purchased, 20 ac of which were planted with Arkansas native warm season prairie grass with low success. Replanting is expected to occur in Feb 2017.     | 2023                      |
| MVD   | MVM      | Mississippi River Levees (MRL), AR, IL, KY, LA, MS, MO & TN *, ** | 30                                     | 99                                  | 1346                                 | 410.1                                | The Corps portion of the originally authorized MRL project mitigation required the acquisition of a total of 639 ac of farmland, restoration of hydrology, and planting of BLH forest. This requirement has increased to a total of 1346 ac for impacts that were not anticipated in the 1998 supplemental EIS.  | The Corps portion of the MRL project is ~30% complete with 1,346 ac of land purchased and are in varying phases of restoration. ~99 ac in Missouri were acquired in 2016 to partially mitigate impacts from the original 1998 EIS. The MRL Program as a whole is on track with mitigation requirements.   | 2025                      |
| MVD   | MVM      | St. Francis Basin, AR & MO *                                      | 98                                     | 89                                  | 13500                                | 13311                                | Measures authorized in the St. Francis Basin EIS for compensatory mitigation included the purchase of 13,500 ac of land; water level control structures in Ditches 60 and 61 at the foot of St. Francis Lake; plugging of the major bendway at the Wilhelmina Cutoff; control structures at the north and south ends of Big Lake; and the extension of the Little River Ditch 81, along the west side of Big Lake from the state line to below the foot of the lake. Of the 13,500 ac, 12,589 ac are required in Arkansas and 911 ac are required in Missouri. | A total of 13,311 ac have been purchased toward the requirement. To date, 12,648 ac (only 12,589 ac were required) have been purchased in Arkansas and 663 ac have been purchased in Missouri. No new mitigation acreage was acquired in 2016. Talks with the MDC revealed a tentative willingness on the part of MDC to manage existing St. Francis mitigation tracts in Missouri. | 2020                      |

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|---|----------|---|--|-------------------------------------|--------------------------------------|--------------------------------------|---|---|---------------------------|
| MSC   | District | Project Name  | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements   | Mitigation Accomplishments to Date  | Estimated Date of Success |
| MVD   | MVM      | West Tennessee Tributaries, TN *  | 42                                     | 42                                  | 32000                                | 13527                                | The Federal Court ordered 32,000 ac of mitigation for the total project. ~42% of the project was constructed prior to shut down for re-evaluation. Therefore, 42% of the lands required for mitigation has been purchased and turned over to the Tennessee Wildlife Resources Agency. No further mitigation is required unless a re-evaluation leads to further construction. | ~13,527 ac of 32,000 ac have been purchased to date. These ac have been handed over to the State of Tennessee for management.   | 2025                      |
| MVD   | MVN      | Comite River Basin, LA  | 36                                     | 20                                  | 522                                  | 596                                  | Mitigate for impacts to 890 ac of BLH by providing 704.6 AAHUs through acquiring, reforesting, and managing cleared agriculture and other suitable land for BLH, or acquiring mitigation bank credits.  | 74 ac of landed were acquired in 2011 to provide ~33 AAHUs. Monitoring efforts continued in 2014. No additional mitigation occurred in 2014 due to project funding constraints. Currently, 20 ac out of the 39 ac planted are meeting success criteria. In 2015, 218.47 mitigation credits were purchased from 3 mitigation banks for a total of \$8.3M. The Comite floodplain tract was replanted/inter-planted in 2016 with good survival. Upon success of that tract, 251.62 of 704.6 required AAHUs will have been achieved. Control over invasive species tallow has also been successful. | 2019                      |
| MVD   | MVN      | East Baton Rouge Parish LA (Amite River and Tributaries, Louisiana, East Baton Rouge Parish Watershed Flood Control Projects) | 0                                      | 0                                   | 397                                  | 0                                    | Replace in-kind 100% of the BLH losses for each watershed. Acquire, reforest and manage 397 ac of cleared land (agriculture or other suitable type) for BLH habitat. Return lost vegetative cover along 29.55 linear miles of impacted stream banks in Blackwater Bayou, Beaver Bayou, Bayou Fountain, Ward Creek, and Jones Creek.   | No project construction or mitigation occurred in FY16. Project construction and related mitigation work cannot proceed until a project cost sharing agreement with the NFS has been executed. There is currently no schedule for execution of the cost sharing agreement.  | 2025                      |

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| MSC   | District | Project Name  | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements   | Mitigation Accomplishments to Date   | Estimated Date of Success |
| MVD   | MVN      | Fed New Orleans to Venice, LA   | 0                                      | 0                                   | 698                                  | 0                                    | Estimated mitigation AAHUs from constructing project segments NOV 05, NOV 07, NOV 09, NOV 10, NOV 11, and (NOV 02, NOV 06b, NOV 08b, NOV 13, NOV 14, P14A, P17A): BLH - wet: 57.1 AAHUs; Marsh - Brackish: 0 AAHUs; Marsh - Intermediate: 0.4 AAHUs; Marsh - Saline: 77.7 AAHUs; Marsh - Freshwater: 5.2 AAHUs; Shrub-Scrub: 1.3 AAHUs; and Dry BLH: 0 AAHUs.   | Mitigation construction has not yet begun. A TSP identifying mitigation site(s) is anticipated in FY2017. Site acquisition and subsequent construction activities are expected to begin immediately after approval.  | 2023                      |
| MVD   | MVN      | Inner Harbor Navigation Lock, LA *  | 0                                      | 1                                   | 0                                    | 0                                    | Acquire, revegetate and manage 85 ac of currently submerged land and shallow brackish water through beneficial use of dredged material, plantings, and management.  | The mitigation plan was approved in 2009 through signing of the ROD for the supplemental EIS. In 2011, before any mitigation efforts were begun, a Federal court determined that the supplemental EIS was inadequate. No construction or mitigation occurred in FY12, FY13, FY14, FY15, or FY16. Project construction and mitigation are on hold pending completion of a GRR and 2nd supplemental EIS, initiated in FY15 with an expected completion in 2017. The new TSP recommends landfill disposal that would result in no impacts to wildlife habitat and therefore no compensatory mitigation would be required. | 2025                      |
| MVD   | MVN      | Lake Pontchartrain and Vicinity (LPV), Inner Harbor Navigation Canal, Lake Borgne, LA | 0                                      | 90                                  | 940                                  | 1379                                 | The PIER presenting the whole plan for mitigating the LPV HSDRRS impacts was finalized Nov 22, 2013. The PIER proposed moving forward with certain constructible features of the plan, the purchase of mitigation bank credits, but required additional NEPA documentation to implement the Corps constructed projects once advanced design was achieved. The PDD for the project was approved by the Corps in Feb 2014. One tiered IER, one supplemental IER, and a supplemental EA have been completed for the Corps constructed projects in the mitigation plan. | Mitigation bank credit purchase for E2F01 and E2F02 impacts was completed in May 2014. 940 ac of off-site mitigation and 417 ac of mitigation bank credit have been purchased, but no mitigation construction has taken place.   | 2020                      |

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|---|----------|--|--|-------------------------------------|--------------------------------------|---------------------------------------|---|--|---------------------------|
| MSC   | District | Project Name   | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Ac quired | Mitigation Requirements   | Mitigation Accomplishments to Date   | Estimated Date of Success |
| MVD   | MVN      | Larose to Golden Meadow, LA *                        | 100                                    | 95                                  | 4598                                 | 4598                                  | The required and authorized mitigation for the Larose to Golden Meadow 1985 Hurricane Protection Project calls for construction of a levee and water-control structure along the eastern boundary of the mitigation site; herein referred to as the Pointe-au-Chien WMA Mitigation Site. These features will serve to enhance the functional values of wetlands in the mitigation site.   | The primary component of the 1985 Mitigation plan involved construction of a 7-mile long levee and 3 water control structures (weirs). These features were the backbone of a regional water management system intended to enhance existing degraded wetlands within the mitigation site proper. This site encompassed 4,598 ac in the publicly owned Pointe-au-Chien WMA. Construction of the levee and weirs has been completed and indications are that enhancement of wetland habitats in the mitigation site is progressing favorably. | 2035                      |
| MVD   | MVN      | LP 30000-Jefferson, LA *                             | 100                                    | 100                                 | 10                                   | 10                                    | Construct breakwaters to protect wetlands and dredged material deposition to restore wetlands (preserve/restore 1,100 average annual acres). Modification of these breakwaters are being designed to be continuous rather than segmented. Dredged material will be place behind the breakwater as a wetland platform.   | This project is in support of the existing hurricane levees and mitigation. Construction of initial segmented breakwaters was previously completed. Modifications to these breakwaters began in 2013 and was completed in 2016.  | 2035                      |
| MVD   | MVN      | MTC Mississippi River Levees Construction Program ** | 83                                     | 83                                  | 59.4                                 | 54.6                                  | Under analyses conducted for the 1998 supplemental EIS, the Corps had 12 work items that collectively required reforestation of 24 ac of frequently-flooded BLH habitat in order to provide sufficient mitigation to compensate for anticipated impacts. The work items constructed under Operation Watershed are expected to impact 40.2 ac of BLH forest. The ecological losses were calculated to total 28.5 AAHUs. The plan to mitigate for these losses is to acquire credits in commercial mitigation banks within the watersheds where the impacts occurred. | Reforested 20 ac of BLH of the required 24 ac. No field survey was conducted in 2016. Review of aerial photography conducted in Jun 2016. 38.4 ac of mitigation credit were purchased in 2016.   | 2025                      |

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| MVD   | MVN      | West Bank and Vicinity (WBV), New Orleans, LA                       | 53                                     | 100                                 | 2002.2                               | 698.5                                | Mitigation of 2002.2 ac of BLH, swamp, and marsh was required. Partial mitigation occurred for swamp, BLH, and marsh through the protection of ~562.5 ac (351 AAHUs) of marsh and swamp. The impacts associated with previously authorized WBV mitigation plans that have not been implemented to date are 724 ac (or 408.23 AAHUs) of BLH and swamp. The mitigation for these impacts was covered in supplemental EA #498 and would include the preservation of 1,211 ac of swamp/BLH, the restoration of 12.8 ac of BLH, and the enhancement of 90.9 ac of swamp/BLH in St. Charles Parish.   | Partial mitigation has been completed for Swamp, BLH, and marsh of ~562.5 ac (351 AAHUs) of marsh. No monitoring was required for this work. An additional 2012 ac are being considered for real estate acquisition. Project is undergoing a GRR/supplemental EIS. No mitigation work will occur until complete. | 2019                      |
| MVD   | MVN      | West Bank and Vicinity (WBV) - GIWW WCC - West Closure (321192), LA | 0                                      | 98                                  | 939.7                                | 939.7                                | The PIER presenting the plan for mitigating the WBV HSDRRS impacts was finalized in June 2014. This document allowed the immediate purchase of mitigation bank credits for the impacts of segment PF01 impacts, but required additional NEPA documentation to implement the Corps constructed projects in the plan once advanced design was complete. The purchase of mitigation bank credits for a portion of the PF01 impacts is complete. A supplemental PIER 37 has been completed for the remainder of the PF01 impacts. A tiered EA and supplemental EA 548 for the PEM1, E2FO1, and E2FO2 impacts occurring on Jean Lafitte National Historical Park and Preserve is complete. | As of Jan 2017, Notice to Proceed has been given to the contractors for the Avondale and Jean Lafitte National Historical Park and Preserve projects, but no significant construction activities have occurred yet.  | 2023                      |

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| MVD   | MVP      | SA LD3, MISSISSIPPI RIVER – CONSTRUCTION, MN & WI (Mississippi River: Lock and Dam 3 Navigation Safety and Embankment) | 100                                    | 100                                 | 314.3                                | 561.9                                | Given the limited opportunities to provide functional mitigation features for affected channel border aquatic habitat in a cost effective manner, resource agencies concurred through interagency coordination that an acceptable mitigation approach is to focus primarily on BLHs restoration combined with freshwater marsh features. Acquisition and development of 313 ac is required.              | Grading, ditch plugs and re-routing of previously-modified drainage channels were successful in restoring natural hydrologic regime to key portions of the mitigation area. A total of 313 ac have been direct seeded or planted with seedlings or cuttings to initiate forest restoration. Supplemental plantings were completed in 2012 on areas with less than expected results. Monitoring in Summer 2013 and 2014 indicated that revegetation efforts are on track to meet criteria for success by 2022. Awaiting results of regeneration monitoring.  | 2022                      |
| MVD   | MVR      | Des Moines and Raccoon Rivers, IA  | 100                                    | 100                                 | 20.8                                 | 20.8                                 | 6.4 ac of upland forest, 0.4 ac of BLH forest, 2.8 ac of emergent wetland, 1.2 ac of herbaceous upland buffer, and, 2.7 ac of open water.  | All emergent and deep water habitat construction was complete. All seeding and tree planting was completed in 2011. Due to drought conditions, 2013 success was improved over 2012. The wetland monitoring showed an improvement of wetland plant coverage in 2014, 2015, and 2016. Success criteria met for 3 consecutive years.   | 2017                      |
| MVD   | MVR      | Mississippi River DMMP (Pool 13 Site Plan for the Sabula Reach (includes 4 dredge cuts)) **                            | 50                                     | 50                                  | 12                                   | 6                                    | 12 ac of island creation at 2 locations (~6 ac of island at each site). The Corps anticipates ~6-10 ac of wetlands would develop within the downstream “coves” or “shadows” of the islands through sediment accumulation and other natural processes. The banks of the islands would be armored with riprap to prevent erosion and to provide additional aquatic habitat (e.g., catfish spawning areas). | The Corps built 1 of 2 mitigation islands (6 ac of the required 12 ac) in 2006. No construction or mitigation was done in 2015. Excellent emergent wetland vegetation has grown on the island and in the shallows surrounding the island. Waterfowl, fish, and mussels are using the constructed habitat. Mitigation success has been met at the 1st island. Since the Corps has not built the remaining 6 ac, no monitoring is required at this time. As of Nov 2016, the Corps does not anticipate needing to build the 2nd mitigation island in the near future unless volume of dredged material requires construction of another island. | 2025                      |

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| MVD   | MVS      | Chain of Rocks, IL * | 100                                    | 100                                 | 146.4                                | 253.1                                 | Mitigation will consist of the development of 146.4 ac of habitat, including 134.7 ac of wetlands (92.4 ac forested and 42.3 ac herbaceous) and 11.7 ac of non-wetland bottomland forest.  | In 2000, 14 ac of wet prairie was constructed. In 2004, 62 ac of forested wetlands and non-wetland forest were established. In 2008, 97 ac tract was acquired for establishment of 34 ac of forested wetlands, 1 ac of herbaceous wetlands, 54 ac of non-wetland forest, and protection of 8 ac of forested wetlands. In late 2010 to early 2011, site grading and vegetation plantings were accomplished on the 97 ac tract. In early 2014, 75 ac tract was acquired to complete the project's mitigation requirement, and construction was completed in summer-fall 2014 to create ~35 ac of herbaceous wetlands and forested wetlands.   | 2022                      |
| MVD   | MVS      | Chesterfield, MO     | 95                                     | 83                                  | 91.3                                 | 101                                   | The initial mitigation requirement for creation of 9.2 ac of emergent wetlands and 6.8 ac of forested wetlands changed to preservation of 73 ac of forested wetlands and restoration of 14 ac of cropland due to proximity to an airport. The plan also includes the creation of 4.3 ac of open water wetlands at a distance from the airport. | Construction completed for preservation of forested wetland. In 2006, 95 ac tract was acquired and conservation easement placed on property. In 2010, native grasses were planted within the tract in 14 ac of crop field to allow for reforestation through natural succession. In 2010, planning commenced for the establishment of 4.3 ac of open water wetlands at a site away from the airport. As of 2013, no compensatory site acceptable to agencies had been located. In 2014, options were considered to meet the remaining requirement, including a potential compensatory site at a new location as well as available mitigation banks. In 2016, an available mitigation bank was identified (Big Rivers Wetland Mitigation Bank), and 6.45 credits were purchased (1.5:1 ratio on original 4.3 ac identified). | 2022                      |

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| TABLE 2. STATUS OF CORPS PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION FY 2016 |          |  |  |                                     |                                      |                                       |   |   |                           |
|---|----------|--|--|-------------------------------------|--------------------------------------|---------------------------------------|---|---|---------------------------|
| MSC   | District | Project Name   | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Ac quired | Mitigation Requirements   | Mitigation Accomplishments to Date  | Estimated Date of Success |
| NAD   | NAN      | Green-Brook, NJ (Segment U)  | 40                                     | 60                                  | 85                                   | 85                                    | This mitigation is for the Bound Brook construction element of the overall project (Segments A, N, R1, R2, T, and U), and a portion of structural project elements proposed in Middlesex County that could not be mitigated on-site. The mitigation plan was to provide in-kind mitigation for 21 ac of wetlands impacted by the Green Brook Flood Control Project. The project also includes the enhancement of approximately 32 ac of existing forested wetlands, 6 ac of scrub- shrub wetland, 5 ac of emergent wetland and preservation of 6 ac of palustrine, 6 ac of upland forest and 27 ac of riparian forest, and 800 ft of an unnamed stream. | The Finderne site is located in the Township of Bridgewater in Somerset County, NJ and was completed in July 2006. To ensure compliance with Corps policy and the NJ Department of Environmental Protection wetland mitigation regulations, the mitigation site was monitored for 5 full growing seasons. As a result of indications that the site is not trending towards meeting success criteria as concluded in the previous years' monitoring reports, the Corps is currently formulating and evaluating adaptive management strategies related to ensuring native wetland establishment and survival.   | 2020                      |
| NAD   | NAN      | Minish Park, NJ (Joseph G. Minish Waterfront Park and Historic Area) | 0                                      | 66.6                                | 1.7                                  | 0                                     | Mitigation required: 1.68 ac of mitigation for riverine tidal marsh/mudflat.  | No mitigation implemented to date. The Corps is still seeking appropriate marsh habitat to meet the 1.68 ac requirement. The implementation may need to be deferred until after Superfund activities are completed. The Corps is working to identify potential suitable sites associated with the HRE-Lower Passaic Ecosystem Restoration project. Hurricane Sandy related note: As a result of funds being received as part of Public Law (P.L.) 113-2, Disaster Relief Appropriations Act, Chapter 4, and being cited in the 2 <sup>nd</sup> Interim Report in response to P.L. 113-2, dated May 2013, funds have been appropriated to seek/select/develop the required new site alternative to meet the mitigation requirements. | 2021                      |

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| TABLE 2. STATUS OF CORPS PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION FY 2016 |          |                                      |  |                                     |                                      |                                      |  |   |                           |
|---|----------|--------------------------------------|--|-------------------------------------|--------------------------------------|--------------------------------------|--|---|---------------------------|
| MSC   | District | Project Name                         | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements  | Mitigation Accomplishments to Date  | Estimated Date of Success |
| NAD   | NAO      | Craney Island Expansion, VA          | 10                                     | 10                                  | 122.2                                | 122.2                                | Mitigation involves a total of 122.2 ac including: 56 ac of saltmarsh wetlands, 16 ac of oyster reefs, and 50.2 ac of sediment clean-up. As identified in the final EIS, synergistic benefits provide 487 ac of compensatory mitigation in the Elizabeth River watershed.  | The 1st mitigation project is to construct ~ 11.3 ac of tidal emergent, ebb-flood channels, and tidal, scrub shrub at Paradise Creek (Chesapeake, VA) on the Elizabeth River. Construction started in Dec 2010 and was completed in Oct 2012. Monitoring began in 2013. Restored wetland vegetation is growing on site at present and meeting expectations for growth and survival. The wetland site has been completed. Oyster reef construction began in 2013, with the 1 <sup>st</sup> of 5 reefs constructed and the second underway as of Dec 2013. Reefs were completed in summer 2014 and monitoring of the reefs has begun. | 2019                      |
| NWD   | NWK      | Blue River Basin, Kansas City, MO    | 0                                      | 45                                  | 0.5                                  | 0.5                                  | A total of 0.5 acre of wetland mitigation is being required for this project for impacts associated with construction of a borrow area. Acquisition of real estate for the mitigation site and future management of the mitigation site is the NFS's responsibility.   | Project is being designed and constructed in phases. Design is ongoing for remaining phases and mitigation will be done in sync with these remaining construction elements. No mitigation has been accomplished to date since the project has not reached the phase that uses the borrow area.  | 2018                      |
| NWD   | NWK      | Blue River Channel, K.C., MO         | 100                                    | 99                                  | 319                                  | 319                                  | A maximum of 234 ac of native grass and shrubs, and 85 ac forest/woodland is required to mitigate for this project. Changes to the project design, as a result of value engineering studies, have resulted in less adverse impacts to fish and wildlife habitat.   | 234 ac of mitigation have been completed by planting the project right of way with native grass and shrubs and 85 ac of forest/woodland mitigation have been completed by planting young trees. Monitoring initiated in FY14. Tree planting survival criteria was not met. Replanting occurred in 2015. Monitoring of survival rate is underway.  | 2018                      |
| NWD   | NWO      | Chatfield Reservoir Reallocation, CO | 0                                      | 0                                   | 1053                                 | 165                                  | Mitigation conservatively includes 165 ac onsite within project boundary, and estimated 888 ac offsite upstream of the project to mitigate for 3 target environmental resources identified in FR/EIS (wetlands, bird habitat, and, preble's meadow jumping mouse habitat (ESA habitat)). Actual ac depends on finalization of ongoing Ecological Functional Index assessments. | Ongoing coordination with design contractors to: refine mitigation estimate requirements through verification of field conditions; identify offsite parcels to supplement mitigation not possible onsite; and, ensure preliminary design plans meet requirements and intent of FR/EIS. Participation in Technical Advisory Committee by Corps and USFWS to provide review and guidance thru mitigation completion   | 2025                      |

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|---|----------|--|--|-------------------------------------|--------------------------------------|--------------------------------------|---|--|---------------------------|
| MSC   | District | Project Name   | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Acquired | Mitigation Requirements   | Mitigation Accomplishments to Date   | Estimated Date of Success |
| NWD   | NWO      | Western Sarpy/ Clear Creek, NE                                       | 95                                     | 85                                  | 40                                   | 40                                   | 40 ac wet meadow mitigation to offset immediate impact to 8.29 ac of wetlands and unknown predicted future impacts to wetlands. Creation of chutes/backwaters to connect rivers with floodplain.  | Total mitigation of 40 ac of wet meadow constructed to date. 2 ac wetland experiment was used to determine correct seeding rate, mulch cover and elevation of 40 ac of wetland mitigation. The mitigation wetlands were constructed at 2 locations within the project area: 32 ac and 8 ac in size. Following monitoring of constructed features in 2016, it was concluded that about 85% of the performance standards were met after 3 growing seasons.   | 2018                      |
| NWD   | NWP      | Columbia River Channel Improvement, Cottonwood Island, OR & WA<br>** | 100                                    | 100                                 | 128                                  | 128                                  | Deepening of the Columbia River Federal navigation resulted in a loss of upland habitat due to upland disposal of dredged material. A total of 388 ac was acquired to conduct 371 ac of habitat development improvement, or maintenance at 3 locations, to replace the loss of 172 ac of agricultural lands, 50 ac of riparian habitat and 16 ac of wetland habitat. At Cottonwood, planting trees in 96 ac of pasture is required to restore to riparian forest, 14 ac of wetland are to be enhanced and expanded, and 20 ac of mature riparian forest is to be protected. | Construction at Cottonwood was completed in 2013 including: 14.5 ac of emergent wetland habitat development; planting trees and shrubs on 94 ac of pasture lands to create a riparian forest; and, 20 ac of riparian forest protected. During spring 2013, new plantings were done to offset a >20% mortality of initial plantings, and plant protectors were removed. In 2013 and 2014, maintenance mowing and herbicide application was performed. Plant markers were installed in 2013 to monitor mortality. Monitoring will be done on a routine schedule to determine if the plantings and wetlands are meeting the success criteria. | 2020                      |
| NWD   | NWP      | Columbia River Channel Improvement, Webb, OR & WA<br>**              | 100                                    | 100                                 | 190                                  | 190                                  | Deepening of the Columbia River Federal navigation channel resulted in a loss of upland habitat due to upland disposal of dredged material. A total of 388 ac was acquired to conduct 371 ac of habitat development improvement, or maintenance at 3 locations, to replace the loss of 172 ac of agricultural lands, 50 ac of riparian habitat and 16 ac of wetland habitat. At Webb, 96 ac of pasture land is required to be managed as short grass pasture for Canada geese, and 74 ac converted to permanent wetlands for waterfowl and other wildlife.                  | Maintenance mowing of the 96 acre agricultural pastures has been successful at attracting waterfowl on a yearly basis, including 2014. The wetland is functioning to provide habitat for waterfowl which were observed in the site on all visits in 2014. Control actions continued in 2015 and 2016 to address unwanted reed canary grass and other invasive plants.  | 2020                      |

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|---|----------|--|--|-------------------------------------|--------------------------------------|---------------------------------------|--|---|---------------------------|
| MSC   | District | Project Name   | Percent Mitigation Physically Complete | Percent Project Physically Complete | Mitigation Total Ac of Land Required | Mitigation Total Ac of Land Ac quired | Mitigation Requirements  | Mitigation Accomplishments to Date  | Estimated Date of Success |
| NWD   | NWS      | Howard Hanson Dam, Additional Water Storage Project, Phase 1, WA | 90                                     | 85                                  | 368.7                                | 368.7                                 | Mitigation consists of: in-stream habitat restoration through culvert replacement engineered logjams and side channels; riparian planting, thinning, protection and conservation, management of forest, pasture and emergent marsh; and, creation of elk forage habitat.   | Set aside and managed 238 ac riparian buffer/managed forest, 12.7 ac instream habitat plus 118 ac of elk pasture. All the areas are being monitored. The emergent elk pasture has not developed as planned and is being monitored to determine the conditions required for success. There were 4 culverts replaced, 1,198 logs placed in logjams, and 0.5 ac of side channel created as mitigation. For the fish mitigation sites, preliminary monitoring has determined that, on average, the sites are performing as expected providing the intended improved habitat structure for aquatic organisms. No mitigation monitoring accomplished in FY16 and the previous monitoring results have been inconclusive.                          | 2022                      |
| NWD   | NWS      | Shoalwater Bay Erosion, WA                                       | 0                                      | 100                                 | 0                                    | 0                                     | Mitigation requirements will be dependent upon the presence of Dungeness crab and snowy plover at the time of construction and during periodic beach nourishment cycles (~ every 5 years). During construction, the impact areas will were surveyed for the presence of these species and the survey results determined that no mitigation was required for construction. After the initial placement, mitigation might be required for any adverse impacts to crabs and snowy plovers due to the periodic beach nourishment work. Placement activities will be monitored and mitigation formulated if needed. Habitat development will be monitored to assess if restoration is meeting projected targets | No mitigation sites are available to evaluate yet. Initial crab trawl data for 2012 was analyzed in FY15 compared to the dredge amounts to determine if mitigation is required. The determination is that no mitigation will be required for the initial placement. The Corps is vetting its finding on crabs with resource agencies. Snowy Plover nested on beach in 2012. The single nest present fledged chicks. In 2013, plovers returned in greater numbers (3 nests) with 7 chicks fledged. In 2014, 8 nests were observed. Construction operations were altered to avoid disruption to sites. Mitigation will be adaptively managed based on survey results for Dungeness crab and snowy plover. No monitoring was done in FY4-FY16. | 2035                      |

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| POD   | POA      | Akutan Harbor, AK           | 70                                     | 100                                 | 41.7                                 | 41.7                                 | Prior to construction, capture and relocate Dolly Varden in the stream to avoid construction impacts. Post-construction, monitor salinity in the stream to ensure that the project has not caused a hydrologic imbalance in the watershed. Monitor presence/absence of marine mammals and sea birds to determine if they return to the area. If any substantial adverse effects are identified, the Corps, in consultation with USFWS and other appropriate agencies, will recommend appropriate measure and associated monitoring. Additionally, a 41.7 acre conservation easement of high value habitat is required. | The Dolly Varden were relocated successfully. In Aug 2013, the Corps conducted water quality monitoring and results indicated that there was no saltwater intrusion to the freshwater portion of the estuary and thus maintaining the ecological integrity of the freshwater habitat. Additional salt water intrusion monitoring was not accomplished in 2014 due to logistic constraints. Additional salt water intrusion was completed in 2015. Confirmation of mitigation success is expected in 2017.  | 2017                      |
| SAD   | SAC      | Lakes Marion & Moultrie, SC | 0                                      | 98                                  | 0                                    | 0                                    | Purchase 14.76 mitigation credits from the Francis Beidler Forest mitigation bank.   | Use of the Francis Beidler Forest mitigation bank was committed to in the EA. However, the mitigation bank ran out of available credits before the purchase could be made. Since the waterline crossed the Beidler Forest property and since Beidler Forest is an internationally recognized wetland (as evidenced by its Ramsar site designation), a decision was made to wait until more mitigation credits were available rather than purchasing credits from a different mitigation bank. A suitable site for an in-lieu fee purchase was recently identified by Beidler Forest. The NFS is expected to complete the in-lieu fee purchase of mitigation credits in 2017. | 2017                      |

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| SAD   | SAJ      | Intracoastal Water Way Jacksonville-Miami, FL **                                       | 100                                    | 100                                 | 7.2                                  | 7.2                                   | Create 5.95 ac of wetland mangrove and upper marsh and obtain perpetual conservation easement over an additional 1.23 ac of on-site wetlands.   | Mitigation constructed and planted in the summer of 2012. 5.95 ac of wetland mangrove and upper marsh created from a former citrus grove by grading to establish hydrology and by planting. A perpetual conservation easement over an additional 1.23 ac of on-site wetlands was established. Monitoring ongoing. Apr 2013 baseline mitigation monitoring report indicates presence of native wetland and aquatic species. Planted red mangroves in one area are struggling. Subsequent annual monitoring in Apr 2016 (3rd Annual Mitigation Report) indicated loss of red mangroves in this area. Additionally, the 3rd Annual Mitigation Report indicated overall continued mitigation success. | 2018                      |
| SAD   | SAJ      | Intracoastal Water Way Caloosahatchee River to Anclote River, Manatee County, FL *, ** | 0                                      | 100                                 | 0.7                                  | 0.7                                   | Repair previously damaged (prop scars and blowouts) seagrass habitat with appropriate material to the appropriate elevation to support seagrass.  | Initial post-construction survey indicates 0.40 ac of sea grass impacted. Additional post-construction monitoring indicates only 0.1 ac of impact. Mitigation construction began in FY16 and will follow that with 3 years of monitoring. Since pre- and post-construction monitoring indicates only a limited amount of impact, the Corps is consulting with FDEP to remove the mitigation requirement from the permit/water quality certification.  | 2019                      |
| SAD   | SAJ      | Martin County, FL (3rd Periodic Renourishment )  | 0                                      | 100                                 | 5                                    | 5                                     | ROD for final EIS/report signed by SAD 15 Feb 2012. Creation of nearshore artificial reef with concrete rubble (original mitigation for direct/indirect impacts) and additional mitigation for indirect impacts beyond that previously mitigated with concrete rubble or other suitable material (current supplemental EIS/LRR). Indirect impacts identified by the post-construction monitoring (completed) would be mitigated by creation of artificial reef. | Mitigation for 3rd renourishment not yet constructed. Amount of mitigation constructed to be based on post-construction monitoring of indirect impacts. Construction (beach renourishment) completed 20 May 2013. Post-construction monitoring though FY15 did not indicate additional impacts requiring mitigation.  | 2018                      |

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| SAD   | SAJ      | Miami Harbor Deepening, Miami Harbor Phase III Expansion, FL | 100                                    | 100                                 | 36.4                                 | 36.4                                 | The seagrass mitigation shall consist of filling a portion of the dredge hole on the north side of the Julia Tuttle Causeway to restore at least 16.6 ac of a seagrass community. At a minimum, 7.15 ac of the mitigation area within the filled mitigation site shall be planted with seagrass. A total of 11.6 ac of artificial reef shall be constructed at two locations to mitigate for impacts to corals.   | Project and mitigation construction physically completed on 17 Sep 2015. Mitigation will undergo monitoring. Year 1 post-construction monitoring of the artificial reef was completed by report dated Nov 19, 2015. Year 2 data collection and report writing is underway.   | 2020                      |
| SAD   | SAJ      | Mile Point, FL   | 0                                      | 45                                  | 18.2                                 | 18.2                                 | Using the Uniform Mitigation Assessment Method, the Corps has determined that 18.84 ac of salt marsh mitigation would be required to offset impacts. Loss of oyster habitat shall be offset by creating intertidal habitat along the west leg of the new training wall (0.76 ac) and reconfiguration of the east leg training wall (0.37 ac), total of 1.13 ac. Additional oyster habitat would be created by the construction of tidal channels within the restoration area at Great Marsh Island (in excess of 1.6 ac). | Mitigation not yet constructed. Project under construction. Mitigation contract awarded on Apr 24, 2015 and physical completion of Phase I scheduled for Dec 15, 2016. Mitigation area required to settle for 1 year before Phase II commencement. Phase II construction scheduled to be begin Jan 2018 and be completed by Jan 2019. Scheduled to monitor success for 5 years after the completion of Phase II. | 2021                      |
| SAD   | SAJ      | Rio De La Plata, PR  | 100                                    | 100                                 | 85                                   | 85                                   | Northern Segment, Mameyal Community (Contract 1A), Mitigation: Create mangrove (21.3 ac), lagoon (10 ac), and herbaceous wetland habitat (53.7 ac).   | Real Estate acquired by NFS. Mitigation Construction: 10 Ac estuarine lagoon (constructed), 21.3 ac mangrove (80% completed), and 53.7 ac herbaceous wetland (65% completed). Monitoring began in 2015. Final report was received, mitigation successful, and monitoring complete (8 parcels for a total of 84.88 ac).   | 2017                      |
| SAD   | SAJ      | Rio Puerto Nuevo, PR   | 100                                    | 71                                  | 28                                   | 28                                   | Creation of 23.1 ac mangrove forest in project right-of- way plus 4.9 ac northeast of the improved channel.   | 4.9 ac of mangrove adjacent to project already excavated and established. The remaining 23.1 ac was physically completed on Jun 16, 2014 and consultation will USFWS will occur in 2017.   | 2017                      |

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| SAD   | SAJ      | San Juan Harbor, PR   | 0                                      | 100                                 | 4                                    | 4                                     | 1.2 ac marine submerged aquatic vegetation established by raising and stabilizing bottom (~ -12 ft to -15 ft below the surface).  | Mitigation has been relocated and has not yet started. An EA has been prepared for the new mitigation site in Condado Lagoon. Expect to complete all environmental compliance and award contract for mitigation in FY17. Previous mitigation contracts were not awarded because there were no bidders.   | 2017                      |
| SAD   | SAM      | Tennessee - Tombigbee Waterway (TTW) Beville Cross Current, AL & MS * | 100                                    | 100                                 | 50                                   | 54.2                                  | Compensatory mitigation for the proposed activity is required and the Corps will implement a 3 part plan addressing impacts to TTW wildlife mitigation lands, aquatic habitat, and BLH wetlands along with a species specific management plan. The plan includes: preservation of 12 ac of predominantly BLH and wetlands of similar quality to those impacted; control and removal of invasive/exotic species from 16 ac of Corps controlled surface waters; and, enhancement of 22 ac of BLH through control of invasive/exotic species on Corps controlled reserve properties not currently bound by previous management agreements. | Mitigation implementation began in Aug 2013 at the Miller Tract Emergent Vegetation site and White's Slough BLH site with the initial herbicide treatments of water hyacinth, cuban bulrush, common salvinia and chinese privet. Survey and monitoring are performed annually for spot treatment of invasive species to prevent re-infestation. In FY16, Miller Tract 1 (reserve BLH habitat) was surveyed and monitored for the existence of chinese privet. There have not been any invasive species found. It will continued to be managed as an integral part of the TTW wildlife mitigation program. Miller Tract 2 (emergent vegetation site) was surveyed and treated to control water hyacinth, cuban club-rush and common salvinia in Aug 2016. White Slough Tract 3 (reserve BLH site) was surveyed for chinese privet and chinese tallow in Nov 2016. | 2022                      |

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| SAD   | SAS      | Brunswick Harbor Deepening GA                 | 100                                    | 100                                 | 37.6                                 | 19.1                                 | The Corps is required to mitigate for impacts to 34.5 ac of EFH. This impact resulted from the creation of a beneficial use dredge material island (sometimes referred to as bird island) in St. Simon's Sound. The bird island has some self-mitigation components by providing EFH habitat by associated oysters and mudflats resulting from the island creation in addition to providing rare bare ground bird nesting acreage. The Corps is also committed to provide mitigation for impacts to 5.9 ac of salt marsh from the turning basin enlargement and 1 ac of salt marsh from future maintenance activities at Andrew's Island. | No funds were budgeted for this project in FY16. Estimates from 2014 were used. Monitoring and O&M costs should be approximately the same each year. Andrews Island: Year 5(2016) monitoring = 95% percent coverage, ahead of schedule. Bird Island (2015) nesting activity: royal terns (only site in state for this species), sandwich terns (only site in state for this species, least terns, black skimmers & laughing gulls. FY15 success rate remained at ~ 95%. FY16 success rate was observed to be over 95%. Final survey results have not been compiled. Final report and meeting with resource agencies is tentatively scheduled for Jan 2017. | 2017                      |
| SAD   | SAS      | Richard B Russell (RBR) Dam and Lake, GA & SC | 100                                    | 100                                 | 0                                    | 0                                    | The Corps and South Carolina Department of Natural Resources agreed for commercial operation of pumped storage at the RBR Dam and Powerhouse. The items included in the agreement were: construction of an O <sub>2</sub> system approximately 5.5 miles upstream of J. Strom Thurmond Dam and Lake; 5 years of environmental monitoring once full capacity of the 4-unit pumped storage is achieved; Corps limitation to utilization of only 2 pumped storage units during the months of Jun through Sep until the O <sub>2</sub> system is constructed, which was completed in Jun 2013.  | All 4 pumped storage units are operational and available. Monitoring results show that striped bass are utilizing the habitat created by the O <sub>2</sub> system and the objectives of that portion of the mitigation have been successfully accomplished.   | 2017                      |

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| SAD   | SAS      | Savannah Harbor Disposal Areas, GA & SC                 | 100                                    | 100                                 | 3.4                                  | 2.5                                  | Restore 3.44 ac of salt marsh by excavating 5.1 ac of fill from areas that historically supported salt marsh. Allow the area to naturally revegetate, while monitoring for erosion and percent coverage. If erosion occurs, removing wetlands located between the mitigation site and the Savannah River, the Corps will deposit rocks to protect the Savannah River side of the mitigation site.  | No funds were received in FY16 although earlier monitoring of the mitigation marsh indicated success criteria were being met (80% success rate for revegetation). However, there is on-going erosion at the site. Over 0.25 ac has been lost. The Corps is investigating ways to stabilize the site and ensure future mitigation compliance. A FY16 survey currently under review will likely show further loss of habitat.  | 2017                      |
| SAD   | SAS      | Savannah Harbor, GA                                     | 100                                    | 100                                 | 1769                                 | 1411                                 | In order to mitigate for the 311 ac of salt marsh lost a long term management strategy 2012 EIS was developed. The plan commits the Corps to providing bird habitats as follows; an annual production of 74 ac bare ground nesting, 450 ac wetland nesting, 505 ac waterfowl feeding, and 740 ac shorebird feeding. At the end of a 6 year cycle, the Corps should be in compliance with each of the habitat acreages.   | Based on the 1 <sup>st</sup> 3 quarters of FY16, the Corps continues to be behind in the 6 year rolling average of each habitat type. However, the annual acreage is close to the required commitment. With similar success in future years, the Corps will meet the 6-year commitment. A new operational plan is being developed for the dredged material containment areas which outlines methods to meet all four types of mitigation requirements by FY18.   | 2019                      |
| SAD   | SAW      | Manteo (Shallowbag) Bay, Wanchese Harbor Mitigation, NC | 0                                      | 10                                  | 42                                   | 0                                    | 42 ac of aquatic habitat (oyster reef). This mitigation requirement accounts for project components constructed. The mitigation plan is defined in the Corps Memorandum, dated 11 Aug 1981. To date, the only project components constructed is the deepening of Wanchese Harbor. Mitigation for this project component is 42 ac of oyster reef habitat (site locations currently in development by the NCDMS. Additional proposed work has been deferred. Should additional project components be constructed, additional mitigation would be required. | NCDMS will construct 42 ac of estuarine subtidal reef-mollusk habitat improvements in vicinity of Gull Shoal. NCDMS oyster habitat construction is currently anticipated to begin in 2017. The NCDMS will construct oyster reef habitat improvements to satisfy the Corps mitigation obligations relating to Wanchese Harbor improvements. NCDMS states in their acceptance letter that, "NCDMS will provide 42 ac of estuarine subtidal reef-mollusk (Cowardin, et al. 1979) habitat in the vicinity of Gull Shoal to satisfy the mitigation and enhancement plan as described in the project's EIS." This alternative, would fully satisfy the Corps' existing mitigation obligation associated with Wanchese Harbor improvements. | 2030                      |

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| SAD   | SAW      | Wilmington Harbor, NC                                 | 90                                     | 88                                  | 768.3                                | 732.8                                | Island 13: Restoration of 30.4 ac primary nursery at Cape Fear River dredged material disposal island 13. Prevention of Degradation Lands: Acquisition of 700 ac riparian wetland habitat buffer on NE Cape Fear River, including river shoreline & two tributaries (Tony's and Lagoon Creeks). Protects 29 ac of estuarine PNA. Fish passage at Cape Fear River Lock & Dam #1: Construction of rock rapids downstream of dam to aid anadromous fish passage. >80% passage for anadromous fishes was not met after 2 years of required post-construction monitoring. Tidal Freshwater Marsh Credits: Purchase of 35.5 credits in Sneedon Tract for loss of 35.45 ac of Eagle Island marsh. | Island 13: Restoration of 30.4 ac of marsh and intertidal habitat is complete and was determined successful in 2005 after 3 years of monitoring. Prevention of Degradation Lands: The entirety of the required 700 ac have been acquired (including 29 ac of estuarine PNA) as of Jun 10, 2011. Fish passage at Lock and Dam #1: Construction of rock rapids on downstream face of dam to better facilitate anadromous fish passage upstream was completed in Nov 2012. After 2013 and 2014 post-construction monitoring, 80% of flathead catfish passed Lock and Dam #1, but only 50-70% of shad and 21-23% of striped bass passed. Tidal Freshwater Marsh Credits: 35.5 credits yet to be acquired. | 2020                      |
| SPD   | SPA      | Rio Grande Flood, San Acacia, NM                      | 0                                      | 0                                   | 99                                   | 99                                   | 50.4 ac of tree/shrub riparian plantings, 35.1 ac of riparian grassland, and 13.5 ac of aquatic habitat.   | Southwestern willow flycatcher pre-construction monitoring occurred between 2011-2015. As of 2016, no mitigation construction has taken place.  | 2035                      |
| SPD   | SPA      | Southwest Valley Albuquerque, Riparian mitigation, NM | 100                                    | 100                                 | 15                                   | 15                                   | Mitigation is required for construction of the spillway channel to the Rio Grande as it necessitated the removal of ~60 mature cottonwood trees. Mitigation entails replacing each mature tree with 10 saplings at nearby locations. 10 additional trees were required as the contractor went outside of the project boundary.   | As of 2012, 700 cottonwood saplings were required. Monitoring for 2014, 2015, and 2016 has been completed. Due to the lower success rates that were found during the 2013 monitoring, it was thought that replacement trees may be necessary. Based on the monitoring that occurred in 2014, 2015, and 2016, replacement trees would not be required at this time.  | 2017                      |

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| SPD   | SPK      | American River Common Features, Folsom Outlet Modifications, CA ** | 100                                    | 90                                  | 14                                   | 14                                   | Mitigation for project Phase IV impacts to 30 native trees consists of restoring ~14 ac of oak woodland habitat at an off-site location referred to as the "Rossmoor Bar 14 ac Mitigation Site". Mitigation for the project Phase IV impacts to jurisdictional waters of the U.S. consisted of purchasing 2.5 credits from a mitigation bank for the impacts to transitional wetlands and purchasing 11.0 credits from a mitigation bank for impacts to open water.                   | Rossmoor Bar 14 ac Mitigation Site: Easement for land was acquired in 2016. Initial site preparation work and the initial planting of the site to restore oak woodland habitat was also completed in 2016 and success rating will begin in 2018. Mitigation necessary to compensate for project Phase IV impacts to jurisdictional waters of the U.S. (wetland and open water habitats) was fully completed in 2013 through the purchase of mitigation bank credits. No further actions or reporting required for impacts to waters of the U.S. | 2021                      |
| SPD   | SPK      | American River Common Features, Natomas Basin, CA **               | 0                                      | 0                                   | 11.1                                 | 11.1                                 | Mitigation for removal of ~44 trees, mostly valley oak and California sycamore, would take place at the Novak mitigation site, which covers ~11 ac near the intersection of Garden Highway and Powerline Road, in Sacramento County, CA. Tree mitigation entails installing and maintaining plants until they have reached self-sufficiency. Plantings would be surveyed annually for survival for 3-4 years. Replacement plantings would be added on an as-needed basis for 2 years. | Although not planted yet, the mitigation will be considered successful if 60% survival is reached by 2027. Plants should reach a moderate height/growth to survive most potential hazards, barring wildfire. Habitat should have height in trees with sufficient understory to support multiple species. Monitoring will begin in 2017 and conclude in 2027.  | 2027                      |
| SPD   | SPK      | Isabella Lake DSP  | 5                                      | 1                                   | 154.7                                | 154.7                                | Compensate for impacts on sagebrush scrub habitat by creating ~110 ac of sage-brush scrub. Compensate for impacts on the emergent wetland cover- type by creating ~0.3 acre of emergent wetlands. Compensate for impacts on pine-oak woodland by creating about 42 ac of pine-oak woodland.   | The 3 mitigation sites are located on USFS land (South Fork Kern River; Main Dam Campground) and conservation land (Sprague Ranch) purchased by NFWF through a cooperating agreement with the Corps to fulfill 2005 biological opinion requirements for operation of the reservoir. Awarded vegetation mitigation contract in Jun 2016. Propagule collection, growing and planting activities, and wetland and irrigation system construction are ongoing.  | 2021                      |

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| SPD   | SPK      | Sacramento River Bank Protection, CA (FHR at River Mile 7.0L) *, **  | 100                                    | 100                                 | 0.7                                  | 0.7                                  | Mitigate on-site for effects to riparian vegetation and associated habitat with 0.73 ac of native riparian vegetation and associated habitat, including IWM.   | The site was replanted with 0.73 ac of native riparian vegetation for on-site mitigation in fall 2011. The 1 <sup>st</sup> 3 years of monitoring have showed all performance criteria being met except percent cover of vegetation. In monitoring year 3, vegetation cover was 9% too low. The site did not meet all performance standards in the last year of monitoring. Therefore, monitoring will continue for at least another year and anticipate final coordination to occur in 2017.   | 2017                      |
| SPD   | SPK      | Sacramento River Bank Protection, CA (LAR at River Mile 10.0L) *, ** | 100                                    | 100                                 | 3.2                                  | 3.2                                  | Mitigate on-site for effects to riparian vegetation and associated habitat with 0.65 ac of native riparian vegetation and associated habitat, including IWM. Purchased 33.6 VELB credits (1.39 ac). Purchased 1.19 ac of spawning habitat, which monitoring for 3 years. | 33.6 VELB credits (1.39 ac) were purchased from River Ranch VELB Conservation Bank on Jan 11, 2013. 1.19 ac of spawning gravel credits were also purchased from the CVPIA Spawning Gravel Augmentation Program for impacts to chinook salmon and steelhead on Sep 21, 2012. The 0.65 acre site was constructed, hydro-seeded and replanted; and is currently undergoing monitoring. Monitoring will be repeated annually, starting in Set 2012 and ending Sep 2017, for another year until it can be turned over to the Department of Water Resources for O&M. | 2017                      |
| SPD   | SPK      | Sacramento River Bank Protection, CA (LAR at River Mile 10.6L) *, ** | 100                                    | 100                                 | 7.2                                  | 7.2                                  | On-site mitigation required for effects to riparian vegetation and associated habitat to include installation of 0.77 ac of native riparian vegetation and associated habitat, and addition of IWM. Purchased 155.6 VELB credits (6.43 ac).                              | VELB off-site mitigation has been completed through purchase of 155.6 credits (6.43 ac) from River Ranch VELB Conservation Bank. The site has also been hydro-seeded and replanted to meet requirements for 0.77 ac of on-site mitigation. The site is currently undergoing monitoring, that started in Feb 2002 and is anticipated to end Dec 2019. Monitoring will continue for 3 to 5 years depending on the health and growth of vegetation at the site. Results for 2015 will be finalized in 2017. Results are not yet available for reporting.          | 2017                      |

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| SPD   | SPK      | Sacramento River Bank Protection, CA (SAC at River Mile 77.2L) **                   | 100                                    | 100                                 | 1                                    | 1                                    | Mitigation required on-site for effects to riparian vegetation and associated habitat to include 0.71 ac of native riparian habitat, and IWM. Purchased 6.6 VELB credits (0.27 ac).  | Purchased 6.6 credits (0.27 ac) for impacts to VELB from River Ranch VELB Conservation bank. After construction was completed, the 0.71 ac were replanted with a native hydro-seed mixture and native seedlings. The on-site plantings will be monitored for 3-5 years (2012-2017). Results from the 3 <sup>rd</sup> monitoring year show all performance criteria being met except for percent of vegetation cover, which did not meet the criteria by 8%. Results for 2015 will be finalized in 2017. Results are not yet available for reporting. The site will continue to be monitored for another 2 years.   | 2017                      |
| SPD   | SPK      | Sacramento River, Glenn-Colusa Irrigation District (GCID), Gradient Facility, CA ** | 100                                    | 100                                 | 34.3                                 | 34.3                                 | Short-term degradation to riverine habitat restored through natural processes following construction; compensatory mitigation for loss or degradation of shaded riverine aquatic cover, riparian and elderberry habitat (supporting VELB – an ESA species) by installing 34.3 ac of offsite and onsite riverine and riparian habitats (5.3 ac of shaded riverine aquatic cover habitat and 29 ac of riparian/elderberry habitat); and, providing suitable site conditions for natural reestablishment of emergent wetland habitat temporarily disturbed by construction. | 34.3 ac of habitat mitigation has been accomplished (5.3 ac of revetment at the project site was revegetated with riverine habitat and 29 ac of riparian floodplain terraces were planted near the project site). Mitigation monitoring, from Jan 2001 to Jan 2010, has been completed, except for the Gradient Facility onsite area. High erosive flows caused the loss of 1.4 ac of riverine cover onsite. The GCID intake channel was planted in 2009 to compensate for loss of these plantings from erosion. However, monitoring indicated significant beaver damage to these plantings. Coordination with the NFS and USFWS is in process to determine if area should be replanted or bank credits purchased. | 2017                      |
| SPD   | SPK      | Yuba River Basin, CA (Marysville Ring Levee)  | 80                                     | 20                                  | 12.3                                 | 11.4                                 | Total woodland mitigation required is 8.73 ac. In addition, the USFWS' biological opinion requires that 2.5 ac to be set aside for elderberry shrub transplants, 303 elderberry seedlings and 303 associated natives. In addition, 1.05 ac of giant garter snake habitat were required for additional impacts during Phase 1 construction.   | Woodland mitigation was successfully established in 2008 at the Anderson Mitigation site. Due to an excess of habitat created at the site, this project did not require any additional plantings. Successfully transplanted 34 elderberry shrubs out of Phase 2 project area to the mitigation site. These shrubs had a high survivorship when monitored in spring of 2013 and 2014 and will continue to be watered and monitored until 2015. The transplants are surviving and will be successful. Contract was awarded in 2013 to purchase 1.05 ac of giant garter snake credits from the Gilsizer Slough South Giant Garter Snake Conservation Bank.  | 2017                      |

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| SPD   | SPL      | Murrieta Creek, CA          | 25                                     | 25                                  | 12.1                                 | 12.1                                 | Mitigation required includes revegetation of an unmaintained habitat "corridor" within the modified channel, vegetated with riparian cottonwood/willow plant communities. For Phase I, this habitat corridor is 70 ft wide and includes 2 4-ft tall "benches" that are periodically inundated based on the intensity of winter storms. Mitigation also includes revegetation of the channel side slopes with coastal sage scrub vegetation. | Revegetation ~3000 ft x 70 ft riparian corridor as well as the adjacent side slopes. Monitoring was conducted from 2009 to 2016. Monitoring in 2014 and 2015 noted successful establishment of the riparian corridor with high percent cover of natives and relatively low percent cover of non-natives, due to continued weeding efforts. Success criteria have been met for tree and shrub density. However, other criteria, such as tree canopy and native cover, have not been met. Monitoring and evaluation of the site will continued in 2016. | 2017                      |
| SPD   | SPL      | Nogales Wash, AZ            | 25                                     | 99                                  | 8.6                                  | 8.6                                  | Mitigation entails on-site creation of 5.93 ac in Areas A through C with native cottonwood, willow, and mesquite, accompanied by an appropriate assemblage of native understory vegetation. Additional mitigation measures include preservation of 2.7 ac of dense native riparian vegetation. Off-site mitigation entails establishment of 2 Gila minnow refugia.  | The NFS has acquired 2.7 ac of willow/cotton wood riparian habitat for preservation. Revegetation of 3.28 ac of willow/cotton wood riparian in Area A is complete. Area A is partially unsuccessful due to improper operation and maintenance of the irrigation system by the NFS. As of Dec 2016, no change.   | 2020                      |
| SPD   | SPL      | Rio De Flag - Flagstaff, AZ | 0                                      | 52                                  | 3                                    | 1.2                                  | Mitigation for impacts to cottonwood/willow include installation of 3.0 ac of riparian habitat preceded by exotic weed/invasive removal. ~1.2 ac will be mitigated on-site; 1.8 off site.   | Construction in the mainstem Rio de Flag has been delayed due to problems with previous work. Construction to date did not require compensatory mitigation. A LRR for project construction within Rio De Flag is underway, focusing on maintain costs under authorized limit. Mitigation will be initiated after LRR completed and funds are appropriated.  | 2025                      |

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| SPD   | SPL      | San Luis Rey River, CA * | 75                                     | 100                                 | 243.2                                | 197.7                                | Mitigation is required for temporary and permanent impacts to waters of U.S. and State of California, and riparian and ESA habitat. ESA species (vireo, flycatcher) utilize riparian habitat; thus mitigation overlaps in most areas, totaling 241 ac, to be completed in phases, on- and offsite: Pre-construction (32ac); Phase 1 (100.2ac); Phase 2 (35.4ac); Phase 3 Year 1 (51.8ac); Phase 3 Year 5 (21.6ac). Flycatcher habitat is required (2.11ac). Provision of fish passage under bridges is required; boulders will be removed/reconfigured. An adaptive HMP has been prepared. | Riparian habitat, including creation of 32 ac, was established onsite prior to and during construction. Habitat preservation for Phases 1-3 is complete. Restoration initiated in 2006 is near complete. Phase 1 onsite restoration requirement (85ac) was met in 2011. Review of Phase 2 and 3 restoration areas show impacts from drought (2015); measures conducted for Winter 2015. A bulk of the active restoration was completed in Winter 2013 and Spring 2014. Acquisition of offsite area by the NFS is complete (45.5ac). Real Estate Plan and NEPA document is being finalized for the site. An adaptive HMP was completed in Aug 2014. Coordination with resource agencies is ongoing. | 2018                      |

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| SPD   | SPL      | Santa Ana River Mainstem, CA | 80                                     | 85                                  | 3440                                 | 3437                                 | Restore 92 ac salt marsh, 5 ac freshwater marsh, ~1,318 ac of riparian habitat (mostly through non- native vegetation removal, with monitoring), and over 14 ac perennial stream; trapping of nest-predating cowbirds; wildlife corridor improvements; develop and implement an HMP for 1,100 ac of floodplain downstream of Prado Dam; and develop and implement Multi-Species HMP for 764 ac preserve area downstream of Seven Oaks Dam. | Full restoration of 401 ac of riparian habitat (through arundo removal), 200 ac riparian/upland habitats (through recovery of temporary impact areas), and 17 ac riparian habitat through planting at Fairview Park. Partial restoration of ~900 ac of riparian habitat (through 1-2 year herbicide treatment of arundo-infested areas, with full restoration to be completed by others). Restoration of 92 ac of salt marsh and 5 ac of freshwater marsh and 11 ac perennial stream restoration in 2013 (initiated 5-year monitoring in 2014). Ongoing management of 1,864 ac of river wash/floodplain habitats. Acquisition/conservation of at least 150 ac outside of the habitat management areas. Fairview Park has been completed and turned over to the NFS. Continued treating a 250 ac arundo removal site in Norco (work began in 2010; non-natives are under control, native habitat is growing well). This site is mitigation for ongoing construction (Reach 9 Phase 2B, Reach 9 Phase 2A and Auxiliary Dike). Began restoration through arundo removal of an additional 165-215 ac area to mitigate for Reach 9 Phase 3, Phase 4, Phase 5A, California Institution of Women Dike, National Housing Dike renovations and future work. Additional mitigation features will be added as construction continues. Mitigation plans (including type, location, total acreage, etc.) will be finalized after the detailed project description and impact analysis for remaining flood control features are completed. Certain mitigation requirements such as post-construction restoration and on-site improvements cannot be initiated until project construction is complete. | 2019                      |
| SPD   | SPL      | Tucson Drainage Area, AZ     | 100                                    | 100                                 | 5.5                                  | 5.5                                  | Compensatory mitigation requirements include 5.5 ac of mitigation to replace 4.1 ac of desert riparian habitat that will be impacted by construction of the flood detention basin complex. Mitigation would be installed at Basin 1, 2 and 3.  | Mitigation of the required 5.5 ac was completed in Apr 2013 and will be monitored through Dec 2018. Per annual monitoring conducted in Oct 2014, at the end of the plant warranty period, percent survival was 90%. Annual monitoring was conducted in 2015. 2015 monitoring results are currently being finalized. Preliminary results indicate an increase in biota. Adaptive management plan is complete.  | 2017                      |

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| SPD   | SPN      | Oakland Harbor Deepening 50', CA                                    | 92                                     | 100                                 | 15                                   | 15                                    | The dredging activities would result in the direct removal and loss of eelgrass bed habitat. Mitigation for the loss of the eelgrass bed would consist of the establishment and long-term monitoring of an eelgrass bed with equal or greater spatial extent and density as that which already exists.   | 100% of the dredged material has been placed in the Middle Harbor area. Although no habitat has been fully restored, mitigation activities accomplished in 2012 include additional material settling and the beginning of contour shaping. Funding for the project was not received in FY13 or FY14. Project construction, which consisted of final shaping, lowering of the rock containment walls, and creation of the educational marsh template and construction of rock bird islands was completed in summer 2016. A test-planting of eelgrass should occur in 2017, after the H&H models are physically verified. | 2028                      |
| SPD   | SPN      | Upper Guadalupe River, CA   | 30                                     | 20                                  | 21                                   | 21                                    | Restoration of stream habitat and the riparian zone in 6 reaches of the Upper Guadalupe River to compensate for construction impacts. Restoration of the 1 <sup>st</sup> reach to be constructed also includes fluvial geomorphic reconstruction of the stream channel. Mitigation plantings for the project amount to 21 ac of riparian forest planting and replacement of lost jurisdictional wetland. The water quality certification required substantial upfront mitigation work before flood control work could start. | The 1 <sup>st</sup> 2 reaches (10B and 12) constructed involved stream, floodplain, aquatic habitat, and riparian forest restoration. High costs to date were due to substantial physical construction. Remaining mitigation will consist primarily of plantings with some placement of woody debris and gravel. Due to a new pathogen (Phytophthora) issue in plant nurseries, plants are now being grown for planting in late 2017.   | 2024                      |
| SWD   | SWF      | Central City Upper Trinity River Basin Construction, Fort Worth, TX | 0                                      | 5                                   | 148.6                                | 0                                     | Mitigation requirements include development of 1.43 ac of emergent wetland, establishment of 76.2 ac of riparian woodland, and establishment of 45.5 ac of upland forest.  | Mitigation is onsite and project features have to be constructed before project features can be completed. Construction is underway. Mitigation costs may be adjusted as Lewisville Aquatic Ecosystem Research Facility may be brought in to facilitate mitigation.   | 2025                      |

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| SWD   | SWF      | Dallas Floodway Extension (DFE), TX | 50                                     | 25                                  | 1540.1                               | 1540.1                               | Acquisition, planting, and management of 1,179 ac of additional project lands.  | Several mitigation tracts to be certified for DFE were withdrawn at the NFS request. During FY14, other potential tracts were surveyed to determine if they would be appropriate for mitigation. Assessment of these properties continued into FY15. In FY 14, 14 additional test sites were added to the existing eight sites for full-scale plantings. Plant production continued for FY15 plantings. Floods in 2016 have impacted plantings. Waiting on 2017 to assess impacts. Due to inadequate success of the plantings in the mitigation plantings an adaptive management approach was developed in 2012. Test plantings utilizing the adaptive management approach were planted in 2013. | 2025                      |
| SWD   | SWF      | Waco Lake, TX                       | 60                                     | 100                                 | 1540.3                               | 1540.3                               | Acquire and reforest approximately 1,000 ac of land. Reforest another 540 ac for a total of 1540 ac. This would include creating a 174 ac wetland.  | In FY14, the City planted/replanted 74 ac in mitigation site MX-3. However, survival was very low (~10%) due to continued drought. No other sites have met the success criteria. 174 ac of emergent wetlands have been established and success has been met. 220 ac of riparian woodlands have been established and the success criteria have been met. A total of 394 ac have been completed. An additional 186 ac were planted in FY11 and are doing well, but have not meet the success criteria.   | 2017                      |
| SWD   | SWG      | Brays Bayou, TX                     | 46                                     | 80                                  | 23.6                                 | 23.6                                 | Construction of 27.9 ac of wetlands in Willow Waterhole Detention Basin in project area. As of Nov 2014, only 23.6 ac of wetlands have been impacted by project construction. 4.3 ac of wetlands identified in a potential disposal area were not impacted because the disposal area is now not needed for the project and will not be constructed. As such, the NFS, Harris County Flood Control District, has coordinated a reduction in mitigation from 27.9 ac to 23.6 ac. This plan is described in summary update form the NFS, dated Nov 7, 2014 | 10.82 ac of wetlands at Willow Waterhole Detention Basin have been constructed. The revised mitigation requirement is for construction of 23.6 ac of wetlands. Construction of features by the NFS on the detention basin continue and range from 50-100% complete. The most recent coordination included USFWS, Texas Council on Environmental Quality, and Texas Parks & Wildlife Department, who met with the NFS on Jul 31, 2014. A field trip to the mitigation area and discussion of the revised (smaller) mitigation plan was held on Sep 11, 2014.  | 2022                      |

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| SWD   | SWG      | Corpus Christi Ship Channel, TX (La Quinta Extension), | 0                                      | 100                                 | 15                                   | 15                                   | Impacts to seagrasses would be mitigated through creation of 15 ac of submerged aquatic vegetation in beneficial use site GH.  | Seagrass will be planted in the beneficial use site after dredged material has consolidated sufficiently to allow planting. The mitigation planting contract is planned for award during 2017.   | 2027                      |
| SWD   | SWL      | Arkansas River Navigation Study, AR & OK               | 4                                      | 3                                   | 558.1                                | 15.1                                 | 130 ac of BLH forest and 248 ac of marsh restoration. Relocation of ~30K mussels to Lake Dardanelle, relocation of ~60K mussels to Pool 2 and then using these individuals to recolonize the Canal. Throughout system, only scattered beds and patches of mussels were noted. Mitigation for mussel beds and patches that are located near construction areas will consist of relocating bed or patches as needed. Gravel bar surveys in proposed dredging locations indicated that an estimated 165 ac of gravel would be impacted and would require mitigation by relocating or creating gravel bars. 15.1 acre island required for terns. | In 2014, 15.1 ac of marsh and forest island habitat was constructed to primarily mitigate impacts to terns. No project construction or associated mitigation occurred in 2015 or 2016 due to lack of funding.  | 2021                      |
| SWD   | SWT      | Canton Lake, Dam Safety, OK                            | 95                                     | 90                                  | 220                                  | 220                                  | Relocation of existing prairie dog town impacted by project construction. Replacement of warm semi-desert scrub and grassland have been acquired and licensed to Oklahoma Department of Wildlife Conservation and impacted by project construction.  | Acquisition of warm semi-desert scrub and grassland, similar in function to those impacted, has been accomplished and acquired additional lands have been turned over to the State of Oklahoma under license for wildlife management. Acquisition is complete and only minor improvements, such as a water well installation, remain to be accomplished at appropriate time in project construction schedule. Prairie dog town was successfully relocated prior to construction activities thus avoiding direct impacts to prairie dogs in the project area. All remaining minor mitigation items cannot be initiated or completed until project construction is complete as they are within construction footprint. | 2017                      |

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