DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY
CIVIL WORKS
108 ARMY PENTAGON
WASHINGTON DC 20310-0108

APR 10 2013

Honorable Barbara Boxer
Chairman
Committee on Environment and Public Works
410 Dirksen Senate Office Building
Washington, D.C. 20510-6175

Dear Chairman Boxer:

As required by Section 2036(b) of the Water Resources Development Act of 2007, I am submitting the fifth annual Status Report on Construction Projects Requiring Mitigation. This report reflects the status of compensatory mitigation work associated with U.S. Army Corps of Engineers Civil Works projects as of the end of Fiscal Year (FY) 2012.

Table 1 includes all projects/programs currently under construction by the Corps as indicated by funding in FY 2012. Table 2 lists the status of projects that require compensatory mitigation, as well as an estimate of the percentage of the construction and the mitigation that have been completed. Table 3 contains information on consultation on mitigation success with state and Federal resource agencies. In addition, the FY 2014 Budget Press Book accompanies this report and contains a complete list of all the Corps projects included in the FY 2014 President's budget. This information will be made available on the Corps Civil Works internet site concurrent with the release of the President's budget.

If you need additional information regarding the enclosed data, please contact Mr. Doug Lamont, my Deputy for Project Planning and Review at 202-761-0016. I am sending an identical letter to Senator Vitter and to the House Committee on Transportation and Infrastructure.

Very truly yours,

Jo-Ellen Darcy
Assistant Secretary of the Army
(Civil Works)

Enclosure

DEPARTMENT OF THE ARMY
OFFICE OF THE ASSISTANT SECRETARY
CIVIL WORKS
108 ARMY PENTAGON
WASHINGTON DC 20310-0108

APR 10 2013

Honorable Nick J. Rahall
Ranking Member
Committee on Transportation and Infrastructure
2163 Rayburn House Office Building
Washington, D.C. 20515

Dear Representative Rahall:

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APR 10 2013

Honorable Bill Shuster
Chairman
Committee on Transportation and Infrastructure
2165 Rayburn House Office Building
Washington, D.C. 20515

Dear Chairman Shuster:

As required by Section 2036(b) of the Water Resources Development Act of 2007, I am submitting the fifth annual Status Report on Construction Projects Requiring Mitigation. This report reflects the status of compensatory mitigation work associated with U.S. Army Corps of Engineers Civil Works projects as of the end of Fiscal Year (FY) 2012.

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WASHINGTON DC 20310-0108

APR 10 2013

Honorable David Vitter
Ranking Member
Committee on Environment and Public Works
456 Dirksen Senate Office Building
Washington, D.C. 20510-6175

Dear Senator Vitter:

As required by Section 2036(b) of the Water Resources Development Act of 2007, I am submitting the fifth annual Status Report on Construction Projects Requiring Mitigation. This report reflects the status of compensatory mitigation work associated with U.S. Army Corps of Engineers Civil Works projects as of the end of Fiscal Year (FY) 2012.

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If you need additional information regarding the enclosed data, please contact Mr. Doug Lamont, my Deputy for Project Planning and Review at 202-761-0016. I am sending an identical letter to Chairman Boxer and to the House Committee on Transportation and Infrastructure.

Very truly yours,

Jo-Ellen Darcy
Assistant Secretary of the Army
(Civil Works)

Enclosure

5th 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

April 2013

INTRODUCTION

This 5th Annual Status Report on U.S. Army Corps of Engineers Construction Projects Requiring Mitigation was prepared in response to Section 2036(b) of the Water Resources Development Act (WRDA) of 2007. Data for this report are presented in three tables and the FY 2014 Civil Works Budget press book.

TABLE 1. – USACE Projects under Construction during Fiscal Year (FY) 2012 - Table 1 lists 262 projects and/or programs that were allotted funds in FY 2012 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.

TABLE 2. - Status of Projects with Incomplete Compensatory Mitigation - Table 2 outlines the status of the 81 projects with incomplete compensatory mitigation. Most of the 262 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. The number of acres listed under the column heading “Mitigation Total Acres of Land Acquired” is available to mitigate adverse project impacts. 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.

TABLE 3. – Annual Consultation on Success of Mitigation - Table 3 shows the results of the on-going ecological success consultations with federal and state resource agencies for 29 mitigation efforts. In order to initiate the success consultation, the compensatory mitigation construction features must at least in-part be accomplished, and data from the monitoring of the constructed mitigation feature must be available. Mitigation is considered complete when the Division Engineer 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. Table 3 also provides an evaluation of the ecological success to date for the constructed mitigation.

Fiscal Year 2014 Civil Works Budget Press Book. - The press book contains a listing of all projects for which the President requests funding for the next fiscal year.

5TH ANNUAL REPORT NOTES

2011 Completions

Six projects that were reported in the 4th Annual Report on Table 2, Status of Projects with Incomplete Compensatory Mitigation, have met their mitigation success criteria and are therefore not included in this 5th Annual report. The completed

mitigation projects are Pool 18-Keithsburg, Illinois, Pool 19-Kemps-Craigles, Illinois, Wolf Creek Dam Safety, Kentucky, Bolivar Dam Safety, Ohio, Tuttle Creek, Kansas and False Pass Harbor, Alaska. The mitigation measures used to offset adverse impacts included:

1) Pool 18-Keithsburg project: the development of a 13-acre wetland, capping and revegetating 11.3 acres of the placement site, creating ephemeral pools, and planting trees on site;

2) Pool 19, Kemps-Craigles project: 5.4 acres of farmland were purchased and will revert to riparian wetland;

3) Wolf Creek Dam Safety project: credits were purchased from the Kentucky Wetland and Stream Mitigation fund;

4) Bolivar Dam safety project: credits were purchased from two mitigation banks to compensate for impacts to forested areas;

5) Tuttle Creek: one-half acre of bottomland hardwood was planted; and

6) False Pass Harbor: Two subtidal boulder fields totaling 1.24 acres were created, 25 reef balls were placed to provide fish habitat, and a near-shore breach was included in a breakwater for fish passage through the harbor.

2012 Completions

Mitigation was successfully completed during fiscal year 2012 for three of the projects listed in Table 2 of this report. The projects are the Dover Dam, Ohio, St. Louis Flood Protection, Missouri and the New York and New Jersey Harbor Deepening. The mitigation requirement for Dover Dam was the preservation of about one acre of Federal land consisting of wetland, stream and riparian areas. Credits were purchased from a mitigation bank for the St. Louis project. The success criteria and the consultation requirements have been met on these projects due to the methods used (mitigation banking and land acquisition and preservation) to effect the compensatory mitigation. The mitigation for New York and New Jersey Harbor Deepening involved the construction of approximately 57 acres of tidal wetlands over 4 sites within the estuary. The consultation results for this project are included on Table 3.

CONCLUSION

Based on the percentage of mitigation completed and the percentage of construction completed data in Table 2, mitigation and construction activities are generally progressing concurrently, in accordance with Section 906 of WRDA 1986, as amended.

Acronym	Division/District
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

Acronym	Division/District
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
SWD	SOUTHWESTERN DIVISION
SWF	FT WORTH
SWG	GALVESTON
SWL	LITTLE ROCK
SWT	TULSA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2012		
MSC	**DISTRICT**	**Project (or Program Name)**
LRD	LRB	GREAT LAKES FISHERIES AND ECOSYSTEM RESTORATION, IL, IN, MN, OH & PA
LRD	LRB	PRESQUE ISLE PENINSULA, PA (PERMANENT)
LRD	LRC	CALUMET REGION, IN
LRD	LRC	CHICAGO SANITARY AND SHIP CANAL DISPERSAL BARRIER, IL
LRD	LRC	COOK COUNTY INFRASTRUCTURE, IL
LRD	LRC	DES PLAINES RIVER, IL
LRD	LRC	LAKE MICHIGAN WATERFRONT, IN
LRD	LRC	LITTLE CALUMET RIVER, IN
LRD	LRC	MCCOOK AND THORNTON RESERVOIRS, IL
LRD	LRE	GRAND HAVEN HARBOR, MI
LRD	LRE	GREEN BAY HARBOR, WI
LRD	LRE	NORTHERN WISCONSIN ENVIRONMENTAL ASSISTANCE, WI
LRD	LRE	SAULT STE MARIE (REPLACEMENT LOCK), MI
LRD	LRE	ST CLAIR RIVER, MI
LRD	LRH	BEACH CITY LAKE, OH SEEPAGE CORRECTION REHAB
LRD	LRH	BLUESTONE LAKE, WV
LRD	LRH	BOLIVAR DAM, OH (DAM SAFETY)
LRD	LRH	CENTRAL WEST VIRGINIA ENVIRONMENTAL INFRASTRUCTURE, WV (SECTION 571)
LRD	LRH	DOVER DAM, MUSKINGUM RIVER, OH (DAM SAFETY)
LRD	LRH	LEVISA AND TUG FORKS AND UPPER CUMBERLAND RIVER, VA, WV & KY
LRD	LRH	MOHAWK DAM, OH SEEPAGE CORRECTION MAJOR REHAB
LRD	LRH	OHIO & NORTH DAKOTA ENVIRONMENTAL INFRASTRUCTURE, OH & ND (SECTION 594)
LRD	LRH	ROBERT C BYRD LOCKS AND DAM, OHIO RIVER, WV & OH
LRD	LRH	SOUTHERN AND EASTERN KENTUCKY ENVIRONMENTAL INFRASTRUCTURE, KY (SECTION 531)
LRD	LRH	TAPPAN DAM, OH
LRD	LRH	ZOAR LEVEE AT DOVER DAM, OH (SEEPAGE CORRECTION REHABILITATION)
LRD	LRL	HOLES CREEK
LRD	LRL	MARKLAND LOCKS AND DAM, KY & IN (REHAB)
LRD	LRL	OLMSTED LOCKS AND DAM, OHIO RIVER, IL & KY
LRD	LRL	SPRINGFIELD AIRPORT WATER PROJECT, OH
LRD	LRN	BLACK FOX, MURFREE AND OAKLANDS SPRINGS WETLANDS, TN
LRD	LRN	CENTER HILL LAKE, TN
LRD	LRN	CHICKAMAUGA LOCK, TENNESSEE RIVER, TN
LRD	LRN	KENTUCKY LOCK AND DAM, TENNESSEE RIVER, KY
LRD	LRN	WOLF CREEK DAM, LAKE CUMBERLAND, KY
LRD	LRP	EAST BRANCH CLARION RIVER LAKE, PA
LRD	LRP	GRAYS LANDING LOCK AND DAM, MONONGAHELA RIVER, PA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2012		
MSC	**DISTRICT**	**Project (or Program Name)**
LRD	LRP	LOCKS AND DAMS 2, 3 AND 4, MONONGAHELA RIVER, PA
LRD	LRP	SOUTH CENTRAL PA ENVIRONMENTAL IMPROVEMENT PROGRAM, PA
LRD	LRP	THREE RIVERS WET WEATHER DEMO PROGRAM, PA
LRD	LRP	WEST VIRGINIA AND PENNSYLVANIA FLOOD CONTROL, PA & WV
MVD	MVD	CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO, & TN
MVD	MVK	J BENNETT JOHNSTON WATERWAY, LA
MVD	MVK	MISSISSIPPI ENVIRONMENTAL INFRASTRUCTURE, MS
MVD	MVK	RED RIVER BELOW DENISON DAM, LA, AR & TX
MVD	MVK	CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO, & TN - dikes
MVD	MVK	CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO, & TN - revetments
MVD	MVK	MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO, & TN
MVD	MVK	YAZOO BASIN - UPPER YAZOO PROJECTS, MS
MVD	MVK	YAZOO BASIN, BIG SUNFLOWER RIVER, MS
MVD	MVK	YAZOO BASIN, MAIN STEM, MS
MVD	MVK	YAZOO BASIN, YAZOO BACKWATER AREA (Less Rocky Bayou), MS
MVD	MVM	DESOTO COUNTY WASTEWATER TREATMENT, MS
MVD	MVM	CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO, & TN - dikes
MVD	MVM	CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO, & TN - revetments
MVD	MVM	GRAND PRAIRIE REGION, AR
MVD	MVM	MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO, & TN
MVD	MVM	ST FRANCIS BASIN, AR & MO
MVD	MVM	WEST TENNESSEE TRIBUTARIES, TN
MVD	MVN	LAKE PONTCHARTRAIN AND VICINITY, LA (HURRICANE PROTECTION)
MVD	MVN	LAROSE TO GOLDEN MEADOW, LA (HURRICANE PROTECTION)
MVD	MVN	SOUTHEAST LOUISIANA, LA
MVD	MVN	WEST BANK AND VICINITY, NEW ORLEANS, LA
MVD	MVN	ATCHAFALAYA BASIN, FLOODWAY SYSTEM, LA
MVD	MVN	ATCHAFALAYA BASIN, LA
MVD	MVN	CHANNEL IMPROVEMENT, AR, IL, KY, LA, MS, MO, & TN
MVD	MVN	MISSISSIPPI RIVER LEVEES, AR, IL, KY, LA, MS, MO, & TN
MVD	MVP	BRECKENRIDGE, MN
MVD	MVP	CROOKSTON, MN
MVD	MVP	GRAFTON, PARK RIVER, ND
MVD	MVP	GRAND FORKS, ND EAST GRAND FORKS, MN
MVD	MVP	NORTHEASTERN MINNESOTA ENVIRONMENTAL INFRASTRUCTURE, MN
MVD	MVP	ORWELL LAKE, MN
MVD	MVP	PORTAGE, WI
MVD	MVP	ROSEAU, MN
MVD	MVP	UPPER MISSISSIPPI RIVER RESTORATION, IL, IA, MN, MO & WI
MVD	MVR	DAVENPORT, IA
MVD	MVR	DES MOINES AND RACCOON RIVERS, IA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2012		
MSC	**DISTRICT**	**Project (or Program Name)**
MVD	MVR	DES MOINES RECREATION RIVER AND GREENBELT, IA
MVD	MVR	ILLINOIS WATERWAY, LOCKPORT LOCK AND DAM, IL (MAJOR REHAB)
MVD	MVS	ALTON TO GALE ORGANIZED LEVEE DISTRICTS, IL & MO
MVD	MVS	CHAIN OF ROCKS CANAL, MISSISSIPPI RIVER, IL (DEF CORR)
MVD	MVS	EAST ST LOUIS, IL
MVD	MVS	LAKE SHELBYVILLE, IL
MVD	MVS	LOCK AND DAM 27, MISSISSIPPI RIVER, IL (MAJOR REHAB)
MVD	MVS	MELVIN PRICE LOCK AND DAM, IL & MO
MVD	MVS	MISSISSIPPI RIVER BETWEEN THE OHIO AND MISSOURI RIVERS (REG WORKS), MO & IL
MVD	MVS	MONARCH CHESTERFIELD, MO
MVD	MVS	ST LOUIS FLOOD PROTECTION, MO
MVD	MVS	WOOD RIVER LEVEE, DEFICIENCY CORRECTION AND RECONSTRUCTION, IL
NAD	NAB	ASSATEAGUE, MD
NAD	NAB	CHESAPEAKE BAY ENV RESTORATION AND PROTECTION, MD, VA & PA
NAD	NAB	CHESAPEAKE BAY OYSTER RECOVERY, MD & VA
NAD	NAB	FOSTER JOSEPH SAYERS DAM, PA
NAD	NAB	LACKAWANNA RIVER, OLYPHANT, PA
NAD	NAB	LACKAWANNA RIVER, SCRANTON, PA
NAD	NAB	POPLAR ISLAND, MD
NAD	NAB	SOUTH CENTRAL PA ENVIRONMENTAL IMPROVEMENT PROGRAM, PA
NAD	NAB	TIOGA HAMMOND LAKES, PA
NAD	NAB	WASHINGTON, DC & VICINITY
NAD	NAB	WYOMING VALLEY, PA (LEVEE RAISING)
NAD	NAE	BALL MOUNTAIN, VT
NAD	NAE	TOWN BROOK, MA
NAD	NAE	UNION VILLAGE DAM, VT
NAD	NAE	MUDDY RIVER, MA
NAD	NAN	ATLANTIC COAST OF NYC, ROCKAWAY INLET TO NORTON POINT, NY
NAD	NAN	BURLINGTON HARBOR BREAKWATER, VT
NAD	NAN	EAST ROCKAWAY INLET TO ROCKAWAY INLET AND JAMAICA BAY, NY
NAD	NAN	FIRE ISLAND INLET TO MONTAUK POINT, NY
NAD	NAN	LONG BEACH ISLAND, NY
NAD	NAN	NEW YORK AND NEW JERSEY HARBOR, NY & NJ
NAD	NAN	RAMAPO RIVER AT OAKLAND, NJ
NAD	NAN	RARITAN BAY AND SANDY HOOK BAY, PORT MONMOUTH, NJ
NAD	NAN	RARITAN RIVER BASIN, GREEN BROOK SUBBASIN, NJ
NAD	NAN	SANDY HOOK TO BARNEGAT INLET, NJ
NAD	NAO	AIWW, BRIDGES AT DEEP CREEK, VA
NAD	NAO	NORFOLK HARBOR AND CHANNELS, CRANEY ISLAND, VA

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2012		
MSC	**DISTRICT**	**Project (or Program Name)**
NAD	NAO	VIRGINIA BEACH, VA (HURRICANE PROTECTION)
NAD	NAP	BARNEGAT INLET TO LITTLE EGG HARBOR INLET, NJ
NAD	NAP	BRIGANTINE INLET TO GREAT EGG INLET (ABSECON ISLAND), NJ
NAD	NAP	CAPE MAY INLET TO LOWER TOWNSHIP, NJ
NAD	NAP	DELAWARE BAY COASTLINE, BROADKILL BEACH, DE & NJ
NAD	NAP	DELAWARE COAST, BETHANY BEACH TO SOUTH BETHANY BEACH
NAD	NAP	DELAWARE COAST, CAPE HENLOPEN TO FENWICK ISLAND, DE
NAD	NAP	DELAWARE COAST, REHOBOTH BEACH TO DEWEY BEACH, DE
NAD	NAP	DELAWARE RIVER MAIN CHANNEL, NJ, PA & DE
NAD	NAP	GREAT EGG HARBOR INLET AND PECK BEACH, NJ
NAD	NAP	LOWER CAPE MAY MEADOWS, CAPE MAY POINT, NJ
NAD	NAP	SOUTHEASTERN PENNSYLVANIA, PA
NAD	NAP	TOWNSENDS INLET TO CAPE MAY INLET, NJ
NWD	NW0	BIG SIOUX RIVER, SIOUX FALLS, SD
NWD	NW0	CHERRY CREEK LAKE, CO
NWD	NW0	FT PECK DAM AND LAKE, MT
NWD	NW0	GARRISON DAM, LAKE SAKAKAWEA, ND
NWD	NW0	MISSOURI RIVER FISH AND WILDLIFE RECOVERY, IA, KS, MO, MT, NE, ND & SD
NWD	NW0	RURAL MONTANA, MT
NWD	NW0	SAND CREEK WATERSHED, SAUNDERS COUNTY, NEBRASKA
NWD	NWK	BLUE RIVER BASIN, KANSAS CITY, MO
NWD	NWK	BLUE RIVER CHANNEL, KANSAS CITY, MO
NWD	NWK	KANSAS CITYS, MO & KS
NWD	NWK	SWOPE PARK INDUSTRIAL AREA, KANSAS CITY, MO
NWD	NWK	TURKEY CREEK BASIN, KS & MO
NWD	NWP	COLUMBIA RIVER CHANNEL IMPROVEMENTS, OR & WA
NWD	NWP	COLUMBIA RIVER FISH MITIGATION, WA, OR & ID
NWD	NWP	COLUMBIA RIVER TREATY FISHING ACCESS SITES, OR & WA
NWD	NWP	ELK CREEK LAKE, OR
NWD	NWP	LOWER COLUMBIA RIVER ECOSYSTEM RESTORATION, OR & WA
NWD	NWP	MOUNT SAINT HELENS SEDIMENT CONTROL, WA
NWD	NWP	WIILLAMETTE RIVER TEMPERATURE CONTROL, OR
NWD	NWS	DUWAMISH AND GREEN RIVER BASIN, 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	DWORSHAK DAM AND RESERVOIR, ID
NWD	NWW	LOWER SNAKE RIVER FISH AND WILDLIFE COMPENSATION, WA, OR & ID
NWD	NWW	RURAL IDAHO, ID

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2012		
MSC	**DISTRICT**	**Project (or Program Name)**
POD	POA	ALASKA COASTAL EROSION, AK
POD	POA	BETHEL BANK STABILIZATION, AK
POD	POA	CHENA RIVER LAKES, AK
POD	POA	FALSE PASS HARBOR, AK
POD	POA	SITKA HARBOR, AK
SAD	SAC	FOLLY BEACH, SC
SAD	SAC	MYRTLE BEACH, SC
SAD	SAJ	ARECIBO RIVER, PR
SAD	SAJ	BREVARD COUNTY, CANAVERAL HARBOR, FL
SAD	SAJ	CENTRAL & SOUTHERN FLORIDA, FL
SAD	SAJ	COMPREHENSIVE EVERGLADES RESTORATION PLAN, FL
SAD	SAJ	DADE COUNTY, FL
SAD	SAJ	DUVAL COUNTY, FL
SAD	SAJ	EVERGLADES & SOUTH FLORIDA ECOSYSTEM RESTORATION, FL
SAD	SAJ	FLORIDA KEYS WATER QUALITY IMPROVEMENTS, FL
SAD	SAJ	FORT PIERCE BEACH, FL
SAD	SAJ	HERBERT HOOVER DIKE, FL (SEEPAGE CONTROL)
SAD	SAJ	JACKSONVILLE HARBOR, FL
SAD	SAJ	KISSIMMEE RIVER, FL
SAD	SAJ	MANATEE COUNTY, FL
SAD	SAJ	NASSAU COUNTY, FL
SAD	SAJ	PONCE DE LEON INLET, FL
SAD	SAJ	PORTUGUES AND BUCANA RIVERS, PR
SAD	SAJ	RIO DE LA PLATA, PR
SAD	SAJ	RIO GRANDE DE LOIZA, PR
SAD	SAJ	RIO PUERTO NUEVO, PR
SAD	SAJ	SAN JUAN HARBOR, PR
SAD	SAJ	SARASOTA COUNTY, FL
SAD	SAJ	ST JOHN'S COUNTY, FL
SAD	SAJ	TAMPA HARBOR, FL
SAD	SAM	ATLANTA ENVIRONMENTAL INFRASTRUCTURE, GA
SAD	SAM	MOBILE HARBOR, AL
SAD	SAS	BRUNSWICK HARBOR, GA
SAD	SAS	HARTWELL LK,CLEMSON UPPER & LOWER DIVERSION, SC (DAM SAFETY)
SAD	SAS	LOWER SAVANNAH RIVER BASIN, 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	SAS	TYBEE ISLAND, GA
SAD	SAW	BRUNSWICK COUNTY BEACHES, NC
SAD	SAW	CAROLINA BEACH AND VICINITY, NC

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2012		
MSC	**DISTRICT**	**Project (or Program Name)**
SAD	SAW	DARE COUNTY BEACHES, NC
SAD	SAW	MANTEO (SHALLOWBAG) BAY, NC
SAD	SAW	ROANOKE RIVER UPPER BASIN, HEADWATERS AREA, VA
SAD	SAW	STANLY COUNTY WASTEWATER INFRASTRUCTURE, NC
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	MIDDLE RIO GRANDE FLOOD PROTECTION, BERNALILLO TO BELEN, NM
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 WATERSHED (COMMON FEATURES), CA
SPD	SPK	AMERICAN RIVER WATERSHED (FOLSOM DAM MODIFICATIONS), CA
SPD	SPK	AMERICAN RIVER WATERSHED (FOLSOM DAM RAISE), CA
SPD	SPK	CALFED LEVEE STABILITY PROGRAM, CA
SPD	SPK	ISABELLA LAKE DSAP
SPD	SPK	MARTIS CREEK LAKE DSAP
SPD	SPK	NAPA RIVER, CA
SPD	SPK	RURAL NEVADA (SECTION 595)
SPD	SPK	RURAL UTAH
SPD	SPK	SACRAMENTO RIVER BANK PROTECTION PROJECT, CA
SPD	SPK	SACRAMENTO URBAN AREA, CA
SPD	SPK	SOUTH SACRAMENTO COUNTY STREAMS, CA
SPD	SPK	SUCCESS DAM, TULE RIVER, CA (DAM SAFETY)
SPD	SPK	TAHOE BASIN RESTORATION 108
SPD	SPK	TERMINUS DAM, LAKE KAWEAH, CA
SPD	SPK	WEST SACRAMENTO, CA
SPD	SPK	YUBA RIVER BASIN, CA
SPD	SPL	LOS ANGELES COUNTY DRAINAGE AREA, CA
SPD	SPL	MURRIETA CREEK, CA
SPD	SPL	NOGALES WASH, AZ
SPD	SPL	NORTH VALLEY REGIONAL WATER INFRASTRUCTURE, CA
SPD	SPL	RIO DE FLAG FLAGSTAFF, AZ
SPD	SPL	SAN LUIS REY RIVER, CA
SPD	SPL	SANTA ANA RIVER BASIN, CA
SPD	SPL	SANTA ANA RIVER MAINSTEM, CA
SPD	SPL	SANTA MARIA LEEVES, CA
SPD	SPL	SANTA PAULA CREEK, CA
SPD	SPL	TUCSON DRAINAGE AREA, AZ

Table 1. USACE PROJECTS UNDER CONSTRUCTION DURING FISCAL YEAR 2012		
MSC	**DISTRICT**	**Project (or Program Name)**
SPD	SPN	CONTRA COSTA CANAL, CA (SEC 219)
SPD	SPN	CORTE MADERA CREEK, CA
SPD	SPN	HAMILTON AIRFIELD WETLANDS RESTORATION, CA
SPD	SPN	LLAGAS CREEK, CA
SPD	SPN	NAPA RIVER, SALT MARSH RESTORATION, CA
SPD	SPN	OAKLAND HARBOR (50 FOOT PROJECT), CA
SPD	SPN	PETALUMA RIVER, CA
SPD	SPN	SACRAMENTO DEEPWATER SHIP CHANNEL, CA
SPD	SPN	SAN FRANCISCO BAY TO STOCKTON, CA
SPD	SPN	SAN FRANCISCO, CA (PIER 36)
SPD	SPN	UPPER GUADALUPE RIVER, CA
SWD	SWD	BRAYS BAYOU, HOUSTON, TX
SWD	SWD	BUFFALO BAYOU AND TRIBUTARIES, TX
SWD	SWD	CENTRAL CITY, FORT WORTH, UPPER TRINITY RIVER BASIN, TX
SWD	SWD	CLEAR CREEK, TX
SWD	SWD	HOUSTON GALVESTON NAVIGATION CHANNELS, TX
SWD	SWD	LEWISVILLE DAM, TX
SWD	SWG	SIMS BAYOU, HOUSTON, TX
SWD	SWL	CLEARWATER LAKE, MO
SWD	SWT	CANTON LAKE, OK
SWD	SWT	PINE CREEK LAKE, OK
SWD	SWT	RED RIVER BASIN CHLORIDE CONTROL, TX & OK

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
LRD	LRC	Little Calumet River, IN	21.4	90	435.1	435.1	A total of 435 acres are required to meet the compensatory mitigation requirement for the Little Calumet River project. Mitigation includes establishing functional bottomland hardwood forests and emergent wetlands offsite.	To date, all of the required land has been acquired. Little Cal mitigation area restored: 3 acres of wet prairie, 42 acres of mesic/wet mesic prairie and 44 acres of wet oak savanna. No monitoring has been done in 2011 or 2012. Hobart Marsh, no mitigation work has taken place since land acquisition was completed. No monitoring or mitigation work was done regarding this project during 2011 or 2012.
LRD	LRH	Dover Dam, OH Dam Safety Assurance	100	15	0.9	0	Preservation of 0.9 acres of wetland, stream, and buffer area downstream of the dam.	The mitigation/preservation area has been designated as a protected area and mowing, dumping, or any other activity that would result in degradation of the wetland, stream, or buffer area is prohibited. Signs will be maintained around the perimeter of the protected area to denote its status as a preservation area in perpetuity.
LRD	LRH	Marmet Lock Replacement, WV (Kanawha River Navigation Study - Marmet Lock Replacement)	100	100	104.8	104.8	A total of 48 acres were required for mitigation of impacts to terrestrial natural resources. Terrestrial mitigation activities included restoration of hardwood forest, bottomland hardwood/riparian habitats, and agricultural/old field. A total of 45.3 acres were required for mitigation for impacts resulting instream 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.	Created 5.3 acres of riverine riparian habitat, planted 31.1 acres of hardwood forest, planted 4.1 acres of bottomland hardwood forest/riparian, and planted 17.7 acres of prairie grasses and mast seed. Construction of mitigation requirements for terrestrial impacts was completed in 2009. In-stream aquatic habitat mitigation activities included fish re-introduction, habitat conservation, and the construction of structural measures; stone and timber dikes, rubble placement, and root wads for habitat improvement. Mitigation for impacts to aquatic habitat comprised 45.3 acres and was completed in 2007.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
LRD	LRL	Cincinnati Metro Region, Duck Creek, OH	100	100	23	23	Riparian restoration (23 acres total) which includes reforestation (bottomland hardwood tree plantings) and placement of 10 wood duck and 25 squirrel nesting boxes.	All 23 acres of plantings completed, enhancing wildlife habitat within riparian environment. Several areas were replanted that initially failed to meet contract specifications. Extra treatments for invasive species were applied as needed. The first phase of planting included 9,800 each 18-24 inch bareroot tree stems/saplings. The second phase planting included 2,800 each bareroot replant/replace mixed bitternut and persimmon tree stems/saplings. Some plats had selective foliar herbicide applied for eradicating Amur honeysuckle infestation. Additionally, Hamilton County provided 25 squirrel boxes and 10 wood duck boxes, for placement at other sites.
LRD	LRL	Indianapolis, White, IN	0	66	29	0	The final phase of the project is undergoing significant reformulation. Renegotiations of mitigation requirements for the entire project are on going. Dependent upon the results of these efforts, the 29 acres required by the previous EIS will likely be expanded to 90-150 acres.	No mitigation has been accomplished to date because previously identified mitigation sites are now unavailable due to changes in the landowners' plans for the property.
LRD	LRL	Olmsted Lock and Dam, OH	100	60	3463	3463	Purchase of mitigation lands, increased water management capability on Ballard Wildlife Management Area (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 bottomland hardwoods, wetlands and agricultural lands for wildlife management, constructed water supply system providing wetland management capabilities on Ballard Wildlife Management Area - State Lands, KY, and provided Kentucky Department of Fish and Wildlife Resources funding to monitor and construct or repair managed wetlands. Additionally, LRL continues monitoring mussels in 14 miles of Ohio River. Mussels inhabit the same area as before the locks and dam project began construction. 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.
MVD	MVK	Upper Yazoo Projects, MS	74.6	70	16250	12402.9	Purchase 16,250 acres of bottomland hardwood habitat, either cleared or agriculture land, for reforestation and management.	12,402.94 acres of cleared frequently flooded agricultural lands has been purchased and 10,327.9 acres has been reforested with bottomland hardwoods to date. 1,503 acres is in moist soil management and 272 acres are scheduled to be reforested in 2013. 3,847 acres remain to be acquired.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION

February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
MVD	MVK	J. Bennett Johnston Waterway, LA	60	89	14000	8437.9	Purchase 14,000 acres of bottomland hardwood lands for management and reforestation. Lands may be a mixture of agricultural for restoration or be already existing forest.	8,437.9 acres have been purchased to date, effort is ongoing to acquire land from willing sellers. 5,562.1 acres remaining.
MVD	MVK	Mississippi River Levees-Construction, AR, IL, KY, LA, MS, MO &TN	98	85	5200	5094.7	The Vicksburg District was required to reforest 5,200 acres of bottom land hardwoods.	Reforested approximately 5,094 acres of bottom land hardwoods of the required 5,200 acres. Remaining acres of mitigation will continue to be purchased concurrently with future construction efforts. To date, mitigation is ahead of construction.
MVD	MVM	Bayou Meto Basin, AR	0	20	4093	100	Purchase 4,093 acres of prior converted farmland. Restore hydrology and plant bottomland hardwood forest.	A 100-acre tract of prior converted farmland has been purchased. The site specific mitigation plan has been coordinated with the agencies and finalized. Mitigation work is scheduled to begin in the 2013 planting season.
MVD	MVM	Mississippi River Levees-Construction, AR, IL, KY, LA, MS, MO &TN	9.9	99	1221	100	The Memphis District portion of the originally authorized MRL project mitigation requires the acquisition of a total of 1,011 acres of farmland, restoration of hydrology, and planting of bottomland hardwood (BLH) forest. The Island 8, KY portion of the project requires mitigation in the amount of 55.8 acres of BLH wetlands. The Above Cairo, IL portion of the project requires a total of 174.6 acres of land to mitigate for permanent impacts to wetlands. fifty of these acres will be accomplished using credits from a mitigation bank.	The Memphis District portion of the originally authorized MRL project is 9.9% complete as 100 acres have been purchased and planted with bottomland hardwood species. The Island 8, KY project mitigation is being coordinated through NRCS, US Fish and Wildlife and other appropriate agencies. No mitigation work has been completed to date. The Above Cairo, IL project mitigation has begun as 15 credits have been purchased from an approved mitigation bank.
MVD	MVM	St Francis Basin Construction, MO	98	89	13500	13310	Acquire and manage 13,500 acres of bottomland hardwood forest habitat.	13,310 wetland acres have been purchased of the 13,500 required. To date 12,648 acres have been purchased in Arkansas and 663 acres have been purchased in Missouri. The lands are being managed by the State of Arkansas and the State of Missouri as bottomland hardwood forest. No new mitigation acreage was acquired in 2012.
MVD	MVM	West Tennessee Tributaries, TN	41	41	32000	13527	The Court ordered 32,000 acres of mitigation for the total project. 41% of the project was constructed prior to shutdown for reevaluation. 41% of the land required for mitigation has been purchased. No further mitigation is required unless the reevaluation leads to further construction.	Approximately 13,527 of 32,000 acres have been purchased to date. These acres have been handed over to the State of Tennessee for management.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
MVD	MVN	Inner Harbor Navigation Canal Lock, LA	0	1	85	0	Acquire, revegetate and manage 85 acres of currently submerged land and shallow brackish water through beneficial use of dredged material, plantings, and management.	No construction, mitigation, or consultation occurred in Fiscal Year 2012. The mitigation plan was approved in 2009 through signing of the Record of Decision for the supplemental EIS. In 2011, before any mitigation efforts were begun, a Federal court determined that the supplemental EIS was inadequate. Project construction and mitigation are on hold until another supplemental EIS is prepared.
MVD	MVN	Comite River Basin, LA	0	18	3235	74	Project related impacts to 890 acres of bottomland hardwoods (BLH) will remove approximately 704.6 Average Annualize Habitat Units (AAHUs). The goal of the mitigation project is to acquire, reforest and manage cleared agriculture and other suitable land for bottomland hardwood habitat restoration and preservation to account for 704.6 AAHU's. USACE is currently coordinating with the local sponsor on acquiring the most cost practical properties first. As of EA 426 (July 2012), the project deals only in units of AAHU's (not acres) to offset project related impacts to BLH. An additional 144 acres of project disposal lands will be reforested (in construction ROW).	No mitigation occurred in 2012. The mitigation efforts focused instead on EA 426, which evaluated and approved additional mitigation areas for acquisition in the project vicinity. Moving forward, the project now has sufficient mitigation alternatives available to accomplish its objectives.
MVD	MVN	139572 - FCCE HPO Non-Federal Levees (Flood Control and Coastal Emergency Hurricane Protection Office Non-Federal Levees (USACE Response to Hurricanes Katrina & Rita In Louisiana, EA #433))	0	100	24	0	Construction associated with Task Force Unwatering resulted in the loss of 21.3 acres of fresh intermediate marsh with a habitat value loss of approximately 12.1 average annual habitat units (AAHUs).	Implementation/construction of the mitigation project has not begun yet. 21.3 acres of fresh to intermediate marsh were impacted or approximately 12.1 AAHUs. Project is in real estate acquisition phase at the mitigation site. Construction is anticipated to begin early 2014.
MVD	MVN	Mississippi River Levees-Construction, AR, IL, KY, LA, MS, MO &TN	83	83	24.8	20	New Orleans District was required to mitigate for 24 acres of bottomland hardwood habitat.	Reforested 20 acres of bottomland hardwood of the required 24 acres. Field survey in 2012 and analysis of aerial photography indicates good survival and growth. No new construction items requiring mitigation implemented in 2012.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
MVD	MVN	East Baton Rouge Parish LA (Amite River and Tributaries, Louisiana, East Baton Rouge Parish Watershed Flood Control Projects)	0	0	397	0	1)Habitat Mitigation: Replace in-kind 100% of the bottomland hardwood losses for each watershed--Acquire, reforest and manage 397 acres of cleared land (agriculture or other suitable type)for bottomland hardwood habitat; 2) Return lost vegetative cover along 29.6 linear miles of impacted stream banks in Blackwater Bayou, Beaver Bayou, Bayou Fountain, Ward Creek, and Jones Creek.	No construction or mitigation occurred in Fiscal Year 2012. Mitigation effort (e.g., mitigation surveys, site investigations/visits, etc.) is ongoing to acquire targeted land from willing sellers. No land acquired to date.
MVD	MVN	Lake Pontchartrain 30000- Jefferson, LA	50	100	10	10	Construct breakwaters to protect wetlands and dredged material deposition to restore wetlands - 1,100 average annual acres total preserved/restored. Modification of these breakwaters are being designed to be continuous rather than segmented. Also dredged material will be place behind the breakwater as a wetland platform.	This is in support of the existing hurricane levees and mitigation. Construction of initial segmented breakwaters was previously completed. Modifications to these breakwaters has been initiated pursuant to mitigation design modifications authorized in 2011.
MVD	MVN	Larose to Golden Meadow, LA (1985 Mitigation)	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 acres in the publicly owned Pointe-au-Chien Wildlife Management Area. Construction of the levee and weirs has been completed and indications are that enhancement of wetland habitats in the mitigation site is progressing favorably.
MVD	MVN	West Bank and Vicinity, New Orleans, LA	31	100	2002	562	Partial mitigation has occurred for Swamp, Bottom Land Hardwoods (BLH), and marsh of approximately 562.5 acres (351 Average Annual Habitat Unit (AAHUs)) of marsh. Total impacts associated with previously authorized WBV mitigation plans that have not been implemented are 724 impact acres (or 408.23 AAHUs) of BLH and Swamp.The mitigation for these impacts will require an additional 1439.7 acres. The mitigation plan for the remaining acres includes 1,211 acres of preservation Cypress/BLH, 12.8 acres of restoration of BLH, and 90.9 acres of preservation and management of BLH at the STC site. In addition 125 acres of restoration/enhancement at the BAS site is required.	Partial mitigation has been completed for Swamp, bottomland hardwood, and marsh of approximately 562.5 acres (351 Average Annual Habitat Units) of marsh. No monitoring was required for this work. The remaining impacts were covered in Supplemental Environmental Assessment #498 and the FONSI was signed July 13, 2012. The mitigation plan for these impacts involves both activities requiring construction & and actions that do not require construction (preservation). The mitigation construction is expected to start in October 2013 for one area and in October 2014 for the remaining area (project includes 2 mitigation sites).

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
MVD	MVP	LD3, Mississippi River - Construction (Mississippi River: Lock and Dam 3 Navigation Safety and Embankments, Minnesota and Wisconsin)	100	98	314.3	561.9	Interagency coordination determined that given the limited opportunities to provide functional mitigation features for affected channel border aquatic habitat in a cost effective manner, resource agencies concurred that an acceptable mitigation approach is to focus primarily on bottomland hardwoods restoration combined with freshwater marsh features. Acquisition and development of 313 acres is required.	Acquired 561.9 acres to obtain sufficient habitat of type 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 acres have been direct seeded or planted with seedlings or cuttings to initiate forest restoration. Monitoring in Summer 2012 indicated that re-establishment efforts are meeting expectations with over 2,500 live trees per acre on 99 percent of planted lands.
MVD	MVR	Mississippi River Dredged Material Management Plan, IL (Pool 13 Site Plan for the Sabula Reach (includes 4 dredge cuts))	50	20	12	12	Replace 1.5 acres of wetlands lost to dredged material placement at Sites 1, 2, and 10. Lost wetland functions include sediment/shoreline stabilization through the presence of thick wetland vegetation, nutrient removal/retention; and, wildlife habitat. This goal would be met through the following objectives: develop roughly 12 acres of mid-river island habitat; use island design promoting wetland development adjacent to the islands – e.g., within the island “shadow”; establish a diverse, native, wetland plant community; and establish wetland hydrology.	6 of 12 acres completed (1 island) No construction or mitigation was done in 2012.
MVD	MVR	Des Moines & Raccoon Rivers, IA	100	100	20.8	20.8	6.4 acres of upland forest 0.4 acres of bottomland forest 2.8 acres of emergent wetland 1.2 acres of herbaceous upland buffer 2.7 acres of open water	All emergent and deep water habitat construction is complete. All seeding and tree planting was completed in 2011. Due to drought conditions, 2012 success was very limited.
MVD	MVS	Chain of Rocks, IL	76	92	146.4	178.1	Mitigation will consist of the development of 146.4 acres of habitats, including 134.7 acres of wetlands (92.4 acres forested and 42.3 acres herbaceous) and 11.7 acres of nonwetland bottomland forest.	In 2000 a 14-acre wet prairie was constructed. In 2004 62 acres of forested wetlands and nonwetland forest were established. In 2008 a 97-acre tract was acquired for establishment of 34 acres of forested wetlands, 1 acre of herbaceous wetlands, and 54 acres of nonwetland forest, and protection of 8 acres of forested wetlands. In late 2010 - early 2011 site grading and vegetation plantings were accomplished on the 97-acre tract.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
MVD	MVS	Chesterfield, MO	95	63	91.3	95	The initial mitigation requirement for creation of 9.2 acres of emergent wetlands and 6.8 acres of forested wetlands changed to preservation of 73 acres of forested wetlands and restoration of 14 acres of cropland due to proximity to an airport. The plan also includes the creation of 4.3 acres of open water wetlands at a distance from the airport.	Construction completed for preservation of forested wetland; in 2006 95-acre tract acquired and conservation easement placed on property. In 2010 native grasses planted within this tract in 14-acre crop field to allow for reforestation through natural succession. In 2010 planning commenced for the establishment of 4.3 acres of open water wetlands at a site away from the airport; no implementation to date.
MVD	MVS	St. Louis Flood Protection, MO	100	72	0.1	0.1	Compensate for loss of 0.1 acres of forested wetland by obtaining credits from a mitigation bank.	Suitable mitigation bank identified. Mitigation credits were purchased in 2012.
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 acres of wetlands impacted by the Green Brook Flood Control Project. The project also includes the enhancement of approximately 32 acres of existing forested wetlands, 6 acres of scrub-shrub wetland, 5 acres of emergent wetland and preservation of 6 acres of palustrine, 6 acres of upland forest and 27 acres of riparian forest and 800ft of an unnamed stream.	The Finderne site is located in the Township of Bridgewater in Somerset County, New Jersey and was completed in July 2006. To ensure compliance with Corps policy and the NJDEP wetland mitigation regulations, the mitigation site was monitored for five 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 has elected to continue monitoring for Year-6 in conjunction with adaptive management strategies both proposed and currently underway onsite.
NAD	NAN	Minish Park, NJ (Joseph G. Minish Waterfront Park and Historic Area)	0	66.6	1.7	0	Mitigation required: 1.7 acres of mitigation.	0 acres implemented; still seeking 1.7 acres of marsh habitat - may be deferred until after Superfund activities are completed. Minish Project Delivery Team is working with HRE-Lower Passaic Ecosystem Restoration Team to find suitable site.
NAD	NAN	NY & NJ Harbor (50') NY&NJ	100	90	86	86	The construction of approximately 57 acres of tidal wetlands over 4 sites (out of kind) within the NY/NJ Harbor estuary was required. Mitigation on lands owned by National Park Service, Towns of Woodbridge and Carteret, NJ and New York State.	To date, all sites have been constructed and monitoring has shown that the sites are functioning as designed. Both State Regulatory Agencies have spoken positively on the coordination and construction of the multiple project sites. Change in total acreage was result of better reporting and survey results.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION

February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
NAD	NAO	Craney Island Expansion, VA	7	5	122.2	106.2	Mitigation involves a total of 122.2 acres as follows: 56 acres of saltmarsh wetlands, 16 acres of oyster reefs, and 50.2 acres of sediment clean-up. As identified in FEIS, synergistic benefits provide 487 acres of compensatory mitigation in the Elizabeth River watershed.	First mitigation project is to construct approximately 11.3 acres of tidal emergent, ebb-flood channels, and tidal, scrub shrub at Paradise Creek (Chesapeake, VA) on the Elizabeth River. Construction started in December 2010 and is currently scheduled to be completed by October 2012. Project is currently on schedule and monitoring will begin in 2013.
NWD	NWK	Blue River Basin, Kansas City, MO	0	45	0.5	0.5	A total of 0.5 acre of wetland mitigation would be required for this project. Acquisition of real estate for the mitigation site and future management of the mitigation site would be the project sponsor'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.
NWD	NWK	Blue River Channel, Kansas City, MO	73	90	319	319	A maximum of 234 acres of native grass and shrubs, and 85 acres 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 acres of mitigation have been completed by planting the project right of way with native grass and shrubs. 85 acres of forest/woodland are still to be completed.
NWD	NWO	Western Sarpy/Clear Creek, NE	88	74	278	278	40 acres wet meadow mitigation to offset immediate impact to 8.29 acres of wetlands and unknown predicted future impacts to wetlands. Consultation with the FWS under Section 7 of the Endangered Species Act, has resulted in the development of a number of means and measures to conserve the impacted threatened and endangered species. Briefly, the project modifications are a levee setback and associated construction of a new side channel, reconnection of a previously destroyed side channel, reconstruction of an aggraded side channel, clearing of two islands of woody vegetation, and notching of a levee/tire revetment to create three side channels and sandbars.	Total mitigation of 40 acres of wet meadow; a two acre wetland experiment was used to determine correct seeding rate, mulch cover and elevation of 40 acres of wetland mitigation. The mitigation wetlands were constructed at two locations within the project area. A 32 acre wetland, a 8 acre wetland, multiple chutes and backwaters and native grass restoration have been completed. Following monitoring of constructed features in 2012, it was concluded that about half of the performance standards were met after one growing season. Drought conditions were problematic for the establishment of desired species.
NWD	NWP	Columbia River Channel Improvement - Navigation, OR &WA (Chumbley)	100	100	71	71	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 acres was acquired to conduct 371 acres of habitat development improvement, or maintenance at three locations, to replace the loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. At Chumbley, 71 acres of pasture land is required to be converted to riparian forest by planting native trees and shrubs.	The 71 acre Chumbley site, planted in 2008, to date has shown a extremely high success for tree survival, above established standards. Trees are greater than 8 feet and multi-agency inspection team will continue monitoring annually until 2020. At this time no further planting is required since the planting has a high rate of survivability.

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February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
NWD	NWP	Columbia River Channel Improvement - Navigation, OR &WA (Cottonwood Island)	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 acres was acquired to conduct 371 acres of habitat development improvement, or maintenance at three locations, to replace the loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. At Cottonwood, 96 acres of pasture is required to by planted to riparian forest, 14 acres of wetland are to be enhanced and expanded, and 20 acres of mature riparian forest is to be protected.	The mitigation costs will remained lumped across three project areas until next year's reporting, because projects have been implemented and completed in different phases of timing and some contracts are on-going, the exact costs will be easier to sort out during the summer of 2013. Of the 388 total acres acquired for mitigation 371 are proposed for improvement or maintenance. Most of the construction has been completed for all three sites. Cottonwood maintenance mowing will continue for two years to promote tree growth and survivability.
NWD	NWP	Columbia River Channel Improvement - Navigation, OR &WA (Webb)	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 acres was acquired to conduct 371 acres of habitat development improvement, or maintenance at three locations, to replace the loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. At Webb, 96 acres of pasture land is required to be managed as short grass pasture for Canada geese, and 74 acres converted to permanent wetlands for waterfowl and other wildlife.	The mitigation costs will remained lumped across three project areas until next year's reporting, because projects have been implemented and completed in different phases of timing and some contracts are on-going, the exact costs will be easier to sort out during the summer of 2013. Of the 388 total acres acquired for mitigation 371 are proposed for improvement or maintenance.
NWD	NWS	Shoalwater Bay Erosion, WA	0	26	0	0	Mitigation will be dependent upon the presence of Dungeness crab and snowy plover at the time of construction. During construction, the impact areas will be surveyed for the presence of these species and mitigation will be formulated based on the survey results.	No mitigation sites are available to evaluate yet. Initial crab trawl data for 2012 is being analyzed to determine if mitigation is required. Snowy Plover nested on beach in 2012. The single nest present fledged chicks. Construction operations were altered to avoid disruption to site. Mitigation will be adaptively managed based on survey results for Dungeness cab and snowy plover.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION

February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
NWD	NWS	Howard Hanson Dam, WA (Additional Water Storage Project (Phase 1 only))	100	85	369	369	Mitigation consists of: 1. instream habitat restoration through culvert replacement engineered logjams and side channels. 2. riparian planting, thinning, protection and conservation. management of forest, pasture and emergent marsh. 3. creation of elk forage habitat.	Set aside and managed 238 acres riparian buffer/managed forest, 12.7 acres instream habitat plus 118 acres of elk pasture. All the areas are being monitored. The emergent elk pasture has not 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 1/2 acre 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. The monitoring results for the forest mitigation sites has been inconclusive to date.
POD	POA	Unalaska Harbor, AK	100	80	0.2	0.2	Compensatory in-kind mitigation is required to replace nearshore and intertidal habitat for sea otters, seals, waterfowl, and benthic communities by creating 30 rubble/boulder reef structures comprising approximately 0.2 acres in the intertidal and nearshore subtidal habitat lost during harbor construction. Monitoring is required to determine colonization by key marine organisms. Monitoring is also required to determine whether the project affects movement, abundance, or distribution of Steller's eiders or northern sea otters or is otherwise causing a taking of those species.	Constructed 30 reefs to provide in-kind habitat of rocky intertidal and subtidal habitat that favors use by sea ducks and marine organisms that use more open habitat. This in-kind offsite mitigation is 100% complete. There are no recommendations to improve features at this time. Monitoring that occurred in 2012 indicated that the mitigation features are on track. Monitoring has also indicated that rubblemound breakwaters can improve habitat diversity much quicker than originally thought.
POD	POA	Akutan Harbor, AK	60	75	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. Also 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, with 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 capture of Dolly Varden in the stream within the influence of the harbor construction and release into streams beyond was successful. This was a one time request by the Alaska Fish and Game with no request to monitor. This action was request to protect the current Dolly Varden population from construction activities. Success of maintaining the hydrologic regime of the streams within the conservation easement and the recolonization of the harbor area by marine mammals and sea birds will be determined by monitoring salinity of the streams and mammals and sea birds occupying the area after construction.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION

February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
SAD	SAJ	Cedar Hammock, Wares Creek, FL	50	23	2.5	2.5	Mitigation consists of restoring 2.5 acres of estuarine habitat at the Emerson Point Restoration Project by restoring tidal flow and removal of exotic plant species.	Mitigation construction is underway (site preparation only) - 0 acres mitigation completed. Remaining mitigation will be contracted out by sponsor. Will complete mitigation during/after project construction. Project construction contract awarded July 2011 and 23% executed.
SAD	SAJ	Inland Waterway Jacksonville-Miami, FL (Construct Upland Disposal Sites IR-2 and SL-2)	100	99	7.2	7.2	(1) 5.9 acres of wetland mangrove and upper marsh creation from a former citrus grove by grading to establish hydrology and by planting. (2) perpetual conservation easement over an additional 1.2 acres of on-site wetlands.	(1) 5.9 acres of wetland mangrove and upper marsh created from a former citrus grove by grading to establish hydrology and by planting. (2) perpetual conservation easement over an additional 1.2 acres of on-site wetlands. (3) Monitoring ongoing. Expect results of initial monitoring in FY13.
SAD	SAJ	Martin County, FL (4th Periodic Renourishment)	0	0	5	5	Creation of nearshore artificial reef with concrete rubble (original mitigation for direct impacts) and additional mitigation for indirect impacts with concrete rubble or other suitable material (Current SEIS/LRR: Indirect impacts identified by the post-construction monitoring would be mitigated by creation of artificial reef).	Mitigation for 4th renourishment not yet constructed. Amount of mitigation constructed to be based on post-construction monitoring of indirect impacts. ROD for Final EIS/report signed by SAD 15 Feb 2012. Expect to have construction contract in FY13.
SAD	SAJ	Rio De La Plata, PR (Northern Segment, Mameyal Community (Contract 1A))	50	48.8	85	85	Northern Segment, Mameyal Community (Contract 1A), Mitigation: create mangrove (21.3 acres), lagoon (10 acres), and herbaceous wetland habitat (53.7 acres).	Real Estate acquired by sponsor (DNER) to establish 21.3 acres of mangrove, 10 acres of lagoon, and 53.7 acres of herbaceous wetlands. Mitigation Construction: 10 Acres estuarine lagoon, 11.8 acres mangrove planted, and 15.5 acres herbaceous wetland planted.
SAD	SAJ	Rio Grande de Arecibo, PR	0	25	8	8	Restoration 7.2 acres of mangrove forest required for next phase. Restoration consists of clearing and grading, then planting with mangrove seedlings.	Contract 1 is constructed. Future construction requires replacement of estuarine wetlands. Mitigation will be part of contract 3 (not yet awarded). Construction contract award for contract 3 is 2025 and construction complete 2027.
SAD	SAJ	Rio Puerto Nuevo, PR	10	44	28	28	Creation of 23.1 acres mangrove forest in project right-of-way plus 4.9 acres NE of improved channel.	4.9 acres of mangrove adjacent to project already excavated and established. Remaining 23.1 acres to be constructed towards end of contract for Magarita Channel (ARRA, currently under construction).
SAD	SAJ	San Juan Harbor, PR	0	100	1.2	1.2	1.2 acres marine submerged aquatic vegetation established by raising and stabilizing bottom.	Mitigation not yet started. Mitigation to be relocated. Requires an LRR and EA. LRR must be prepared/reviewed/approved and construction must be authorized. LRR is currently underway with completion in FY14.

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SAD	SAM	Tennessee - Tombigbee Waterway (Bevill Cross Current)	0	100	50	54.2	Compensatory mitigation for the proposed activity is required and the Corps will implement a three part plan addressing impacts to TTW Wildlife Mitigation lands, aquatic habitat, and bottomland hardwood wetlands along with a species specific management plan. The plan includes 1) preservation of 12 acres of predominantly bottomland hardwoods and wetlands of similar quality to those impacted, 2) control and removal of invasive/exotic species from 16 acres of Corps controlled surface waters, and 3) enhancement of 22 acres of bottomland hardwood through control of invasive/exotic species on Corps controlled reserve properties not currently bound by previous management agreements.	Mitigation implementation will begin spring 2013 at the Miller Tract Emergent Vegetation site and White's Slough Bottomland Hardwood site with the initial herbicide treatments of invasive aquatic species and Chinese privet. The treatments will be more effective starting in the spring when the temperatures change and are optimal for the growing season.
SAD	SAS	Brunswick Harbor Deepening GA	100	100	37.6	19.1	The District is required to mitigate for impacts to 34.5 acres of essential fish habitat. 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 District is also committed to provide mitigation for impacts to 5.9 acres of salt marsh from the turning basin enlargement and 1 acre of salt marsh from future maintenance activities at Andrew's Island.	Bird Island: 16.6 acres intertidal sand created, 1 acre oyster flats created, 0.8 acres intertidal riprap created, 0.7 acres subtidal riprap created, total = 19.1 acres created completing EFH construction requirements at Bird Island, and 1.0 acre of oyster flats at Andrew's Island. Andrew's Island areas were planted with marsh grasses in July and September of 2011. All areas at Andrews are being monitored and adaptive management techniques are being utilized as needed to meet wetland impact commitments (re-sprigging, ditching to improve hydraulic flows, investigating weir designs to reduce erosion at outfall pipes).
SAD	SAS	Richard B Russell Dam & Lake, GA & SC	100	98.5	0	0	The Savannah District and South Carolina Department of Natural Resources agreed for commercial operation of pumped storage at the Richard B. Russell (RBR) Dam and Powerhouse. The items included in the agreement were: Construction of an O2 system approximately 5.5 miles upstream of J. Strom Thurmond (JST) Dam and Lake; five years of environmental monitoring once full capacity 4-unit pumped storage is achieved; Corps limitation to utilization of only two pumped storage units during the months of June through September until the O2 system is complete.	Access road improvements to the Oxygen System Site at JST Dam and Lake and construction of the Underwater and Aboveground O2 system components have been completed. The O2 system was completed and has been 100% functional since April 2012.

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SAD	SAS	Savannah Harbor Disposal Areas, GA & S C	100	100	3.4	3.9	Restore 3.44 acres of salt marsh by excavating 5.1 acres 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.	Monitoring of the mitigation marsh indicates success criteria are being met (100% success rate for re-vegetation).
SAD	SAS	Savannah Harbor, GA	100	100	1769	1411	In order to mitigate for the 311 acres of salt marsh lost a Long Term Management Strategy EIS was developed. The plan commits the District to providing bird habitats as follows; an annual production of 74 bare ground nesting acres, 450 wetland nesting acres, 505 waterfowl feeding acres, and 740 shorebird feeding acres. The District is exploring options to reverse negative mitigation results. Options include having more areas wet for longer, creation of more bird islands, better maintenance of islands (vegetation removal), protection of nests by electric fencing and installation of cameras to monitor predation/nesting activities, different weir designs, and acquisition of additional lands.	There are ongoing actions to mitigate for the loss of 311 acres of wetlands due to project operations. These actions include providing the following bird habitats: 74 acres of bare ground nesting, 450 ac of wetland nesting, 505 ac of waterfowl feeding, and 740 ac of shorebird feed annually.
SAD	SAW	Wilmington Harbor, NC - 96 Act	100	69	732.8	732.8	Island 13 - Restoration of 30.4 acres primary nursery (including 3.4 acres intertidal marsh) on Cape Fear River dredged material disposal island 13. Prevention of Degradation (POD) Lands - Acquisition of 700 acres riparian wetland habitat buffer on NE Cape Fear River, including river shoreline & two tributaries (Tony's and Lagoon Creeks), which serve to protect 29 acres estuarine primary nursery area. Fish passage at Lock and Dam #1 on the Cape Fear River - Construction of rock rapids on downstream face of dam to better facilitate anadromous fish passage upstream.	- Island 13: Restoration of 30.4 acres of marsh and intertidal habitat is complete and was determined successful in 2005 after 3 years of monitoring. - POD Lands: The entirety of the 700 required acres have been acquired (including 29 acres of estuarine primary nursery area) as of June 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 November 2012. Monitoring on anadromous fish passage will begin in January 2013.
SPD	SPA	SW Valley Albuquerque, NM (Riparian mitigation)	100	100	15	15	Mitigation is required for construction of the spillway channel to the Rio Grande as it necessitated the removal of approximately 60 mature cottonwood trees. Mitigation entails replacing each mature tree with 10 saplings at nearby locations.	700 of 700 cottonwood saplings have been planted.

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SPD	SPK	American River - Bridge, CA	75	100	64.2	64.2	Mitigation required included 50 acres of oak woodland habitat, 6 acres of riparian habitat, 2.5 acres of seasonal wetland and 14.2 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle.	The Goethe site (14.2 acres of elderberry habitat) was planted in 2006, and the Rossmoor site (56 acres of oak woodland/riparian habitat) was planted in FY10. Mitigation bank credits for seasonal wetlands mitigation were purchased in 2008.
SPD	SPK	American River - Common Features, CA (American River Common Features)	100	100	25.6	25.6	The majority of impacts and associated mitigation for this project relate to the Federally listed valley elderberry longhorn beetle (VELB). Because they are host to this species, impacts to elderberry shrubs require mitigation under the ESA. Mitigation for this project has been accomplished, in most cases, on the consolidated sites referred to as the Goethe mitigation sites.	All mitigation sites have been established and are in the 10 year monitoring period. Conditions of the Biological Opinion have been partially met, and once monitoring is complete they will have been fully met. Combining multiple projects on one site resulted in a large cost savings to the government and local sponsors, because it is more cost effective to maintain and monitor a single location than multiple sites. We also worked with the county parks department to find sites that would benefit the parks and have easy access and on-site water, which reduced the cost of installation (no wells required).
SPD	SPK	American River - Folsom Outlet Modifications, CA (Joint Federal Project - Auxiliary Spillway)	90	10	16.8	16.8	Mitigation for the Joint Federal Project Flood Risk Management impacts include 1.8 acres riparian habitat, 0.2 acres chaparral habitat, and 1.4 acres oak woodland. Mitigation for the Folsom Dam Modifications Staging Area includes 7.7 acres of habitat for the Federally listed Valley Elderberry Longhorn Beetle (VELB), 6.8 acres oak woodland, and 0.5 acres chaparral habitat.	Initial maintenance at 11.5 is complete, and coordination is underway to turn the site over to the non-federal sponsor, it has not been turned over yet. Sailor Bar is also doing well, though additional watering will be needed for the next couple of years to assist in plant survival. VELB monitoring is continuing. Rossmoor Bar planting occurred in FY10 and surveys have indicated that the site has high survival.
SPD	SPK	Glenn Colusa Dam Gradient Facility/ RM208, CA	100	100	34.3	34.3	(1) Short-term degradation to riverine habitat restored through natural processes following construction; (2) compensatory mitigation for loss or degradation of Shaded Riverine Aquatic (SRA) cover, riparian and elderberry habitat (supporting Federally listed Valley Elderberry Longhorn Beetle) by installing 34.3 acres of offsite and onsite riverine and riparian habitats (5.3 acres of shaded riverine aquatic cover habitat and 29 acres of riparian/elderberry habitat); and (3) providing suitable site conditions for natural reestablishment of emergent wetland habitat temporarily disturbed by construction.	34.3 acres of habitat mitigation has been accomplished (5.3 acres of revetment at the project site was revegetated with riverine habitat and 29 acres of riparian floodplain terraces were planted near the project site). Mitigation monitoring has been completed, except for the GF onsite area. High river stages resulted in the loss of 1.4 acres of riverine cover onsite due to erosion. The GCID intake channel was planted in 2009 to compensate for loss of these plantings from erosion. The 60% canopy cover success criterion was expected to be fully met in 2011, however, the intake channel plantings suffered beaver damage. Coordination with USFWS and local sponsor to address loss is in process.

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SPD	SPK	Kaweah Spillway Enlargement, CA	100	100	5735.2	5735.2	Based on adverse impacts associated with project construction, mitigation was required to include installation of 40 acres of riparian habitat, 7.2 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle (VELB), and preservation of 4,388 acres of oak woodland and 1,300 acres of seasonal waterfowl habitat.	At the Davis Ranch site,(4,388 acres) success criteria was met the O&M manual was finalized and the site has been turned over to the non-Federal sponsor. The Dry Creek site (40 acres) is also on its way to meeting success criteria to include canopy density and vigor, areal cover and habitat structure. Consultation was done this year with FWS 2012 and we have determined that ecological success was met and the site is being turned over to the non-Federal sponsor in Spring 2013. Tulare Lakebed Site (1,300 acres) has met the success criteria and has been turned over to the non-federal sponsor. The elderberry site, FWS had agreed to turn over in 2017.
SPD	SPK	Sacramento River Bank Protection, CA -Construction (FHR at River Mile 7.0L)	100	100	0.7	0.7	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.7 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	The site was replanted with 0.7 acres of native riparian vegetation for on-site mitigation in fall 2011. The site is still in its first year of growth and first year monitoring occurred in fall 2012, however the results have not yet been processed. Monitoring will continue annually for the next 3 to 5 years until the site is turned over to the Department of Water Resources for Operations and Maintenance.
SPD	SPK	Sacramento River Bank Protection, CA - Construction (LAR at River Mile 10.0L)	100	100	3.2	3.2	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.6 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Purchased 33.6 valley elderberry longhorn beetle credits (1.4 ac). Purchase 1.2 acres of spawning habitat and monitoring for 3 years. Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	We purchased 33.6 valley elderberry longhorn beetle credits (1.4 ac)from River Ranch VELB Conservation Bank on 11 January 2013. Also purchased was 1.2 acres of spawning gravel credits from the CVPIA Spawning Gravel Augmentation Program for impacts to Chinook salmon and steelhead on 21 September 2012. The 0.6 acres site was constructed, hydroseeded and replanted and is currently undergoing monitoring. The site will continue to be monitored annually for the next 3 to 5 years until it can be turned over to the Department of Water Resources for Operations and Maintenance

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SPD	SPK	Sacramento River Bank Protection, CA - Construction (LAR at River Mile 10.6L)	100	100	7.2	7.2	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.8 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Purchased 155.6 valley elderberry longhorn beetle credits (6.4 ac). Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	Valley elderberry longhorn beetle off site mitigation has been completed through the purchase of 155.6 credits (6.4 ac)from River Ranch VELB Conservation Bank. The site has also been hydroseeded and replanted to meet the requirements for 0.8 acres of on-site mitigation. The site is currently undergoing monitoring and that will continue for 3 to 5 years depending on the health and growth of vegetation at the site.
SPD	SPK	SAC RVR BANK PROTECTION CA-CON (SAC Setback Levee at River Mile 57.2R)	100	80	28	4.2	Seventy eight elderberry plants require transplanting with associated native riparian plantings that will mitigate for the loss of heritage oak trees. Impacts associated with the Valley Elderberry Longhorn Beetle resulting from transplanting elderberry plants within the project footprint requires 577.6 VELB credits. Impacts to wetlands requires 0.6 acres of seasonal wetland credits.	To mitigate for effects to Valley Elderberry Longhorn Beetle (VELB) habitat loss and heritage trees, 78 elderberry shrubs were transplanted to a VELB mitigation bank. The transplants and 2579 additional planting of elderberry seedlings and 3001 associated native plants compensated for the adverse effects to the VELB, habitat loss and heritage trees. Success remains to be measured per agreement with the USFWS and the VELB Mitigation Bank. The purchase of 577.6 VELB credits (23.9 ac) was completed on 11 January, 2013, from River Ranch VELB Conservation Bank. The 0.6 acres of wetland mitigation credits were purchased from River Ranch Wetland Mitigation Bank on 11 January, 2013
SPD	SPK	Sacramento River Bank Protection, CA - Construction (SAC at River Mile 77.2L)	100	100	1	1	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.7 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Purchased 6.6 valley elderberry longhorn beetle credits (0.3 ac). Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	Purchased 6.6 credits (0.3 ac) for impacts to valley elderberry longhorn beetles from River Ranch VELB Conservation bank. After construction was completed, the 0.7 acres was replanted with a native hydroseed mixture and native seedlings. The on-site plantings will be monitored for 3-5 years. Once the site is determined to be successful, it will be turned over to DWR for Operation and Maintenance.

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SPD	SPK	South Sacramento County Streams, CA	100	80	433.5	433.5	Mitigation was required for GGS, Vernal Pool Fairy & Tadpole Shrimp, wetlands impacts, Burrowing Owl, & VELB habitat. These impacts occurred in multiple years & in multiple streams in the project area. They are as follows, and construction & mitigation are completed except as noted. GGS- 8.7 acres for Unionhouse Creek to Franklin, 22.9 acres for Unionhouse Creek Franklin-Center Parkway, 4.8 acres for '98-2002 construction, .24 acres for 2004 design changes. Vernal Pool Preservation- for fairy and tadpole shrimp- 9.2 acres Seasonal wetland creation- 1.1 acres VELB- 7 transplants Burrowing Owl- 386 acres for impacts to various creeks	Monitoring of burrowing owls in 2012 found 10 owls using constructed burrows, which is 3 more than last year. Bank credits were purchased to meet all other mitigation requirements.
SPD	SPK	Yuba River Basin, CA (Marysville Ring Levee)	80	20	12.3	11.4	Total woodland mitigation required is 8.7 acres. In addition the US Fish and Wildlife Services' Biological Opinion (BO) requires that 2.5 acres be set aside for elderberry shrub transplants,303 elderberry seedlings and 303 associated natives. In addition, 1.0 acres of GGS 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 September 2012 and will continue to be watered and monitored until 2015. Developing contract to purchase 1.0 acres of giant garter snake (GGS) credits from the Gilsizer Slough South GGS Conservation Bank.
SPD	SPL	Murrieta Creek, CA (Phase I)	100	100	5.8	5.8	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 feet wide and includes 2 4-foot 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 of an approximately 3000 feet x 70 feet riparian corridor as well as the adjacent side slopes. Continued maintenance and monitoring of the mitigation area until the end of the 5-year monitoring period. As of November 2012, the project is in it's fourth year of the 5-year monitoring period. Observations as of October 2012 noted successful establishment of the riparian corridor with increasing percent cover of natives and decreasing percent cover of non-natives, due to continued weeding efforts. There are still bare areas on the slopes; overall native cover is high.

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SPD	SPL	Nogales Wash, AZ	70	90	8.6	8.6	Mitigation entails on-site creation of 5.9 acres in Areas A through C with native cottonwood, willow, and mesquite, accompanied by an appropriate assemblage of native understory vegetation. Area A has been constructed. Areas B and C have yet to be constructed. Additional mitigation measures include preservation of 2.7 acres of dense native riparian vegetation which the local sponsor has successfully acquired. Off-site mitigation entails establishment of two Gila minnow refugia. The refugia have not been established.	Local sponsor has acquired 2.7 acres of willow/cotton wood riparian habitat for preservation. Revegetation of 3.3 acres of willow/cotton wood riparian in Area A is complete.
SPD	SPL	Rio De Flag - Flagstaff, AZ	0	52	3	3	Mitigation for impacts to cottonwood/willow include installation of 3.0 acres of riparian habitat preceded by exotic weed/invasive removal. Mitigation will be installed at various sites along the Rio de Flag within the project footprint.	There has been no mitigation accomplished to date. Construction has been delayed due to problems with previous work. The previously constructed detention basis was found to be deficient and is now under reconstruction. Mitigation is required for resources that will not be impacted until later in the construction process within the main stem of Rio de Flag. A limited reevaluation for construction within Rio de Flag is currently underway focused on maintaining costs under the authorized limit.
SPD	SPL	San Luis Rey River, CA	75	100	241	195.5	Mitigation is required for temporary and permanent impacts to waters of U.S. and State of California, and riparian and endangered species habitat. Endangered species (vireo, flycatcher) utilize riparian habitat; thus, endangered species and riparian habitat mitigation overlap in most areas, totaling 241 acres (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). Provision of fish passage under bridges is required; boulders will be removed/reconfigured. An adaptive habitat management plan is required; will cover the project area and an off-site mitigation site.	Riparian habitat, including creation of 32 acres, was established onsite prior to and during construction. Phases 1-3 habitat preservation piece has been met. Invasive plant control initiated in 2006 is near complete. Phase 1 onsite restoration requirement (85ac) was met in 2011. Active restoration/planting begun in Fall 2012. Review of Phase 2 onsite restoration areas indicate areas meet success criteria (2011-2012). Acquisition of offsite area by sponsor is complete (45.5ac); a Real Estate Plan and draft NEPA document has been prepared for the site. A revised draft adaptive habitat management plan has been completed (Oct 2012); coordination with resource agencies is ongoing.

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SPD	SPL	Santa Ana River Mainstem, CA	75	83	3376	3291	Restore 92 acres salt marsh, 5 acres freshwater marsh, ~1,257 acres of riparian habitat (mostly through non-native vegetation removal, with monitoring), and 11 acres perennial stream; trapping of nest-predating cowbirds; wildlife corridor improvements; develop and implement Habitat Management Plan for 1,100 floodplain acres downstream of Prado Dam; and develop and implement Multi-Species Habitat Management Plan for 764 acre preserve area downstream of Seven Oaks Dam.	Full restoration (rest.) of 467 acres (ac) of riparian habitat (hab.); partial rest. of 900 ac of riparian hab.; rest. of 92 ac of salt marsh and 5 ac of freshwater marsh; initiated efforts to restore 11 ac perennial stream; ongoing management of 1,864 ac of river wash/floodplain hab.; and acquisition/conservation of 150 ac outside of those habitat management areas. In 2012, no new mitigation (mit.) was initiated, and most mit. that was ongoing last year has not been completed. Fairview Park has been completed. Continued treating a 250 ac arundo removal site in Norco (non-natives under control, native hab. growing well) and continued construction of perennial stream mit. project.
SPD	SPL	Santa Maria River, CA	50	100	86	86	The permanent loss of 9.0 acres of habitat due to project construction would be fully mitigated by creating/establishing approximately 12 acres of native riparian habitat by removal of non-native vegetation and re-vegetation with native plants. Another 74 acre area temporarily disturbed by project construction would be fully restored to appropriate native habitat consistent with the natural conditions of the river.	Restoration of all 86 acres of temporarily disturbed areas is nearly complete. Unsuccessful plots are being revegetated. The project site previously consisted of non-native vegetation, groin, and barren areas. Restoration/mitigation includes the following riparian and upland plant communities: Arroyo Willow Riparian (Riparian); Riparian Scrub (Riparian); Mulefat Scrub (Riparian); Coyote Bush/Central Coast Scrub; Active Channel (Riparian). The site is meeting or exceeding expectations with the help of winter rainy season. By October 2012 the site continued to do well, plant survivability is high with more than 55% native cover. (The goal is 75% cover.) Weed maintenance has continued.
SPD	SPL	Tucson Drainage Area, AZ	72	100	5.5	5.5	Compensatory mitigation requirements include 5.5 acres of mitigation to replace 4.1 acres of desert riparian habitat that will be impacted by construction of the flood detention basin complex.	Installation of approximately 4 acres of the required 5.5 acres of mitigation was started and completed in December 2012. The remaining 1.5 acres are anticipated to be planted by March or April of 2013.
SPD	SPN	Oakland Harbor Deepening 50', CA	92	100	15	15	Proposed dredging activities would result in the direct removal and loss of eelgrass bed habitat. Mitigation for the potential 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 0 acres of habitat have been fully restored, mitigation activities accomplished in 2012 include additional material settling and the beginning of contour shaping.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION

February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
SPD	SPN	Upper Guadalupe River, CA	25	2	21	21	Restoration of stream habitat and the riparian zone in six reaches of the Upper Guadalupe River. Restoration of the first reach includes 1.8 acres of riparian planting, which has been partially completed. Remaining mitigation acreage for the project includes 19.2 acres of riparian planting.	1.8 acres of riparian zone restoration plantings have been accomplished in the first reach to be constructed. Stream restoration areas in this reach have had construction activity (channel and floodplain reconfiguration) but minimal planting yet so are not complete. 0 acres of stream habitat and riparian zone restoration have been accomplished in the remainder of the project as these portions have had no construction yet. Mitigation work in these reaches will consist of riparian forest planting and aquatic habitat enhancement with channel modification and placement of large woody debris.
SWD	SWF	Central City, Upper Trinity River Basin, TX - Construction	0	5	148.6	0	Mitigation requirements include development of 1.4 acres of emergent wetland, establishment of 76.2 acres of riparian woodland, and establishment of 45.5 acres of upland forest. Additional requirements include management activities on 12.2 and 13.3 acres of existing riparian woodland and upland forest, respectively.	Mitigation has not started. Mitigation is onsite and project features have to be constructed before project features can be completed. No construction occurred in FY12.
SWD	SWF	Dallas Floodway Extension, TX - Construction	40	10	1540.1	1540.1	Acquisition, planting, and management of 1,179 acres of additional project lands.	745 acres of the have been acquired and 120 acres of that has been managed/planted. In FY 11, there was a drought and the 120 acres needs to be replanted. In addition, we did not perform any additional work in FY 11 due to contract issues. In FY 12, ERDC began growing seedlings for planting in FY 13 and conducted a site survey to develop a planting plan in FY 12.
SWD	SWF	Waco Lake, TX	60	100	1540.3	1540.3	Acquire and reforest approximately 1000 acres of land. Reforest another 540 acres for a total of 1540 acres. This would include creating a 174 acre wetland.	174 acres of Emergent Wetlands have been established and success has been met. 220 acres of Riparian Woodlands have been established and the success criteria have been met. A total of 394 acres have been completed. An Additional 186 acres were planted in FY11 and are doing well, but have not meet the success criteria. 164 acres were planted at MX-3 and 40 acres were planted at MX-7 in FY 12. No mitigation was certified as complete in FY 12
SWD	SWG	Brays Bayou, TX	70	65	27.9	27.9	Construction of 27.9 acres of wetlands in Willow Waterhole Detention Basin in project area.	20 acres of wetlands at Willow Waterhole Detention Basin have been constructed. Mitigation requirement is for construction of 27.9 acres of wetlands. Completion of last cell has been delayed. No construction was undertaken in 2012.

Table 2. STATUS OF PROJECTS WITH INCOMPLETE COMPENSATORY MITIGATION February 19, 2013

Division	District	Project Name	Percent Mit Physically Complete	Percent Project Physically Complete	Mit Total Acres of Land Required	Mit Total Acres of Land Acquired	Mitigation Requirements	Mitigation Accomplishments to Date
SWD	SWT	Canton, OK, Dam Safety	95	75	220	220	1. Relocation of existing prairie dog town impacted by project construction. 2. Replacement of lands licensed to OK Dept of Wildlife Conservation and impacted by project construction.	Acquisition of lands similar in function to those impacted has been accomplished and acquired additional lands have been turned over to the State of OK 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.

Table 3. ANNUAL CONSULTATION ON SUCCESS OF MITIGATION as required by Section 2036 of WRDA 2007

February 12, 2013

Division	District	Project Name	Mitigation % Physically Complete	Mitigation Requirements	Consultation Date and Agency Name		Evaluate Ecological Success to Date	Likelihood of Success	Projected Timeline for Achieving Success	Recommendations for improving the likelihood of success made during consultation
LRD	LRL	Olmsted Lock and Dam, OH	100	Purchase of mitigation lands, increased water management capability on Ballard Wildlife Management Area (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.	13-NOV-12	Kentucky Field Office - USFWS - KY (Federal)	The downstream mussel population is monitored annually by ERDC. Mussels have been reduced somewhat by impacts of the zebra mussel and droughts. Typically droughts are very favorable for mussel recruitment, as is often documented in mussel population data 3 to 5 years after the event. Bald eagle nesting has increased throughout the area of confluence of the Ohio and Mississippi Rivers, including on mitigation lands. Both summer and winter populations have increased. Breeding pairs may come from Northern or Southern Bald eagle populations. Migratory birds are monitored by KDFWR. Waterfowl numbers have increased; however, the composition of waterfowl has changed since initiation of the project. Far fewer migratory geese visit the region due to milder winters in the more northern latitudes. These have been replaced by the overall increase in migratory ducks as documented by the USFWS. This increase has been facilitated by both management practices and by favorable nesting conditions for many years. None of this change is believed to be in response to the construction of the locks and dam.	High	2023	None provided.
MVD	MVN	Mississippi River Levees-Construction, AR, IL, KY, LA, MS, MO &TN	83	New Orleans District was required to mitigate for 24 acres of bottomland hardwood habitat.	03-OCT-12	USFWS Lafayette Area Office - LA (Federal)	The mitigation site has developed generally as anticipated.	High	2016	None provided.

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MVD	MVN	Larose to Golden Meadow, LA (1985 Mitigation)	100	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.	09-NOV-11	Louisiana Department of Wildlife and Fisheries (State/Territory)	Construction of the mitigation levee (final lift) was completed in May of 2002. Construction of the water control structures was completed in late 1989 when the first lift of the mitigation levee was completed. Construction completion of the levee & water control structures was the main active component of the mitigation plan and the key to achieving the plan's objectives. Since this time, conditions within the PCMS have been significantly enhanced (ex. more stable salinity levels, greater retention of fresh water, increased utilization by wildlife, favorable changes in fresh/intermediate and saline marsh, wet bottomland hardwoods and wooded swamp, colonization of former open water areas by emergent plant species) based on general field observations performed by the LDWF. These observations indicate the mitigation is progressing well toward meeting the broad objectives set forth in the 1985 Mitigation Plan. The likelihood of success was determined from observations conducted by the Louisiana Department of Wildlife and Fisheries (LDWF)within the PCMS, though not fully obtained yet.	High	2035	None provided.

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MVD	MVP	LD3, Mississippi River - Construction (Mississippi River: Lock and Dam 3 Navigation Safety and Embankments, Minnesota and Wisconsin)	100	Interagency coordination determined that given the limited opportunities to provide functional mitigation features for affected channel border aquatic habitat in a cost effective manner, resource agencies concurred that an acceptable mitigation approach is to focus primarily on bottomland hardwoods restoration combined with freshwater marsh features. Acquisition and development of 313 acres is required.	14-SEP-12	Department of Natural Resources - WI (State/Territory) FWS. Ecological Service Office, MN (Federal)	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 acres have been direct seeded or planted with seedlings or cuttings to initiate forest restoration. Initial monitoring indicated direct seeding and seedling plantings have resulted in a very successful response and growth with over 2,500 live trees per acre on 99 percent of planted lands. Supplemental plantings were completed on areas with less than expected results as part of adaptive management. It will take several more years to determine that this effort is proceeding correctly, then success rating can be changed to high.	Medium	2022	None provided.
MVD	MVS	Chesterfield, MO	95	The initial mitigation requirement for creation of 9.2 acres of emergent wetlands and 6.8 acres of forested wetlands changed to preservation of 73 acres of forested wetlands and restoration of 14 acres of cropland due to proximity to an airport. The plan also includes the creation of 4.3 acres of open water wetlands at a distance from the airport.	13-JUL-12	US Fish and Wildlife Service, Columbia Ecological Services Field Office- MO (Federal) Missouri Department of Conservation - MO (State/Territory)	At Site 1, preservation of the 73 acres of floodplain forest has been a success. Efforts to reforest a 14-acre crop field adjacent to this forest have been successful to date. A mix of prairie grasses was planted in the field in June 2010 to establish a dense groundcover that would allow for woody encroachment of native tree species in a slow and controlled fashion. A dense groundcover of grasses and forbs was observed in the field in early November 2011. In September 2012 the groundcover was still present, and woody encroachment was observed over most of the field.	High	2018	None provided.

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NAD	NAN	Green-Brook, NJ (Segment U)	40	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 acres of wetlands impacted by the Green Brook Flood Control Project. The project also includes the enhancement of approximately 32 acres of existing forested wetlands, 6 acres of scrub-shrub wetland, 5 acres of emergent wetland and preservation of 6 acres of palustrine, 6 acres of upland forest and 27 acres of riparian forest and 800ft of an unnamed stream.	28-JUN-12	New Jersey Department of Environmental Protection (State/Territory)	The project is trending away from the criteria established to be considered successful. Will continue monitoring and are currently in the process of developing a conceptual adaptive management plan expected to be completed by early 2013 to address the hydrologic deficiencies on the site.	Medium	2020	Adaptive manage site for success

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NAD	NAN	NY & NJ Harbor (50') NY&NJ	100	The construction of approximately 57 acres of tidal wetlands over 4 sites (out of kind) within the NY/NJ Harbor estuary was required. Mitigation on lands owned by National Park Service, Towns of Woodbridge and Carteret, NJ and New York State.	28-JUN-12	New York Department of Environmental Conservation (State/Territory)	Based on site visits and quarterly monitoring, the interagency monitoring team reviewed the results and determined that no adaptive management is necessary. Mitigation at all sites are on target. At Elders Point East, high and low marsh vegetation is flourishing promoting the return of wildlife. The water flow at the Joseph P. Medwick Park site has been reestablished and native fish and wildlife have returned. in addition to the tidal flow returning to the KeySpan site, the area is also providing vegetation for nesting birds. Project at Woodbridge Creek has restored the water flow to the site and as a result fish species are creating nurseries there, and bird and wildlife habitats are returning to the site.	High	2012 mitigation success	mitigation determined to be successful
NWD	NWP	Columbia River Channel Improvement - Navigation, OR &WA (Chumbley)	100	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 acres was acquired to conduct 371 acres of habitat development improvement, or maintenance at three locations, to replace the loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. At Chumbley, 71 acres of pasture land is required to be converted to riparian forest by planting native trees and shrubs.	11-JUL-12	Oregon Department of Environmental Quality (State/Territory) Washington Dept. of Ecology (State/Territory) US Fish and Wildlife Service (Federal) National Oceanic and Atmospheric Administration (NOAA) - WA (Federal) US Geological Survey - OR (Federal)	All three mitigation sites are visited by the multi-agency adaptive management team of federal and state agencies which tour the sites annually. This team will continue to monitor the successes of this project to ensure the mitigation for the Columbia River Channel Improvement meets the intended purpose.	High	2020	None provided.

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NWD	NWP	Columbia River Channel Improvement - Navigation, OR &WA (Cottonwood Island)	100	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 acres was acquired to conduct 371 acres of habitat development improvement, or maintenance at three locations, to replace the loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. At Cottonwood, 96 acres of pasture is required to by planted to riparian forest, 14 acres of wetland are to be enhanced and expanded, and 20 acres of mature riparian forest is to be protected.	11-JUL-12	Oregon Department of Environmental Quality (State/Territory) Washington Dept. of Ecology (State/Territory) US Geological Survey - WA (Federal) National Oceanic and Atmospheric Administration (NOAA) - WA (Federal)	All three mitigation sites are visited by the multi-agency adaptive management team of federal and state agencies which tour the sites annually. This team will continue to monitor the successes of these three project to ensure projects meet their intended purpose.	Medium	2020	This site may require more attention to unwanted weeds than Chumbley and therefore should be monitored semi-annually
NWD	NWP	Columbia River Channel Improvement - Navigation, OR & WA (Webb)	100	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 acres was acquired to conduct 371 acres of habitat development improvement, or maintenance at three locations, to replace the loss of 172 acres of agricultural lands, 50 acres of riparian habitat and 16 acres of wetland habitat. At Webb, 96 acres of pasture land is required to be managed as short grass pasture for Canada geese, and 74 acres converted to permanent wetlands for waterfowl and other wildlife.	11-JUL-12	Oregon Department of Environmental Quality (State/Territory) Washington State Department of Ecology (State/Territory) National Oceanic and Atmospheric Administration (NOAA) (Federal) US Geological Survey (Federal) US Fish and Wildlife Service - OR (Federal)	All three mitigation sites for the channel deepening project are visited by the multi-agency adaptive management team of federal and state agencies which tour the sites annually. This team will continue to monitor the successes of these three project to ensure projects meet their intended purpose.	Medium	2020	Further construction is needed to improve the success of this project. If this can not be done, then a new O&M plan is needed which will require further consultation on T&E species

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NWD	NWS	Howard Hanson Dam, WA (Additional Water Storage Project (Phase 1 only))	100	Mitigation consists of: 1. instream habitat restoration through culvert replacement engineered logjams and side channels. 2. riparian planting, thinning, protection and conservation. management of forest, pasture and emergent marsh. 3. creation of elk forage habitat.	13-JUN-12	Muckleshoot (Tribe) U.S. Fish and Wildlife Service, Ecological Services, Washington - WA (Federal) National Marine Fisheries Service, Northwest Regional Office - WA (Federal)	Wildlife - approximately 118 acres of habitat has been created and is being managed as elk pasture. Creation of emergent elk pasture land has not developed as planned. All elk sites are being monitored to better understand conditions needed to establish emergent elk pasture. Approximately 238 acres of forest land are being managed for fish and wildlife. Vegetation composition will be monitored to assure that appropriate habitat is established. Instream habitat structures have been	Medium	2022	Seattle District and Tacoma PU need to coordinate on O&M and monitoring to improve feedback on project success.
POD	POA	Unalaska Harbor, AK	100	Compensatory in-kind mitigation is required to replace nearshore and intertidal habitat for sea otters, seals, waterfowl, and benthic communities by creating 30 rubble/boulder reef structures comprising approximately 0.2 acres in the intertidal and nearshore subtidal habitat lost during harbor construction. Monitoring is required to determine colonization by key marine organisms. Monitoring is also required to determine whether the project affects movement, abundance, or distribution of Steller's eiders or northern sea otters or is otherwise causing a taking of those species.	08-MAY-12	National Marine Fisheries Service - AK (Federal)	Success to date is promising. 2010 monitoring indicates that constructed rubble reefs are being colonized by algae at a rate greater than expected. Colonization of the constructed reefs was monitored in the summer of 2011 and again in summer 2012. To date, algal growth and kelp colonization is already abundant. Coordination and Consultation along with pre-construction monitoring for marine mammals and sea birds took place in 2010. Post-construction monitoring of sea birds and mammals began during November 2012. Monitoring data will be worked up and provided to the resource agencies during coordination and consultation early in 2013. The final monitoring effort for marine mammals and sea birds will take place in the winter of 2012/13 and a coordination and consultation meeting will be held upon completion of the monitoring data workup in early 2014.	High	2014	None provided.

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SAD	SAS	Brunswick Harbor Deepening GA	100	The District is required to mitigate for impacts to 34.5 acres of essential fish habitat. 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 District is also committed to provide mitigation for impacts to 5.9 acres of salt marsh from the turning basin enlargement and 1 acre of salt marsh from future maintenance activities at Andrew's Island.	12-JUN-12	Georgia Department of Natural Resources (State/Territory)	Percent cover for Andrew's Island is 70% in the first year exceeding the 3rd year target percentage. 12 mitigation sites were surveyed and found to have approximately 13.5 acres of marsh grass established. We have a commitment to create 18.5 acres. If at any time it appears an area is not fulfilling the mitigation criteria consultation will be initiated and a plan developed for rectifying the failure. Bird island has been evaluated and considered 100% success but will be monitored annually to ensure all EFH needed credits continue to be achieved. Oyster and intertidal mudflat acreage (resulting from creation of bird island) are likely to change over time and will need to be monitored annually to determine what EFH credits are present.	Medium	2016	ditching mitigation sites to improve hydrologic flows in order to alleviate standing water that may be inhibiting optimal plant growth.
SAD	SAW	Wilmington Harbor, NC - 96 Act	100	Island 13 - Restoration of 30.4 acres primary nursery (including 3.4 acres intertidal marsh) on Cape Fear River dredged material disposal island 13. Prevention of Degradation (POD) Lands - Acquisition of 700 acres riparian wetland habitat buffer on NE Cape Fear River, including river shoreline & two tributaries (Tony's and Lagoon Creeks), which serve to protect 29 acres estuarine primary nursery area. Fish passage at Lock and Dam #1 on the Cape Fear River - Construction of rock rapids on downstream face of dam to better facilitate anadromous fish passage upstream.	14-AUG-12	North Carolina State University - NC (Other) North Carolina Wildlife Resources Commission (State/Territory) Minnesota Department of Natural Resources - MN (State/Territory) Cape Fear River Watch - NC (Other) US Fish and Wildlife Service - NC (Federal)	Complete success at Island 13 was achieved and consultation completed as of September 2005. The North Carolina Division of Marine Fisheries (NCDMF) determined the Island 13 system displayed functional characteristics similar to natural marshes of the same type. POD lands in their entirety were acquired as of June 10, 2011. This is a preservation component of the mitigation plan. Fish Passage at Lock and Dam #1 on the Cape Fear River is complete as of November 2012. Ecological success cannot be achieved until 2yrs of monitoring (January-June 2013 and 2014) have been completed.	High	2014	None provided.

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SPD	SPK	American River - Bridge, CA	75	Mitigation required included 50 acres of oak woodland habitat, 6 acres of riparian habitat, 2.5 acres of seasonal wetland and 14.2 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle.	20-NOV-12	FWS Sacramento Field Office Corps Projects Branch - CA (Federal)	A portion of the Goethe East Site (14.2 acres) of valley elderberry longhorn beetle habitat was replanted in 2012. Initial surveys indicate that generally survival is adequate. The Rossmoor Bar (oak woodland and riparian - 56 acres)site is progressing well with very good plant survival.	High	2017	None provided.
SPD	SPK	American River - Common Features, CA (American River Common Features)	100	The majority of impacts and associated mitigation for this project relate to the Federally listed valley elderberry longhorn beetle (VELB). Because they are host to this species, impacts to elderberry shrubs require mitigation under the ESA. Mitigation for this project has been accomplished, in most cases, on the consolidated sites referred to as the Goethe mitigation sites.	07-NOV-12	FWS Sacramento Field Office - CA (Federal)	All mitigation has been implemented for the Common Features Project. Because some sites are not performing well, they are all being maintained by the Corps until they can be handed over to the non-Federal Sponsor. Additional plantings are being completed at the Goethe site. RM 11.5 we will revisit original success criteria with FWS in 2013. In 2013 we should be handing over the smaller site at Cal Expo to the locals to maintain. One lesson learned is that watering of the sites needs to be extended beyond the original 3 year establishment period, because once water is removed site survival seems to decrease.	High	2014	None provided.
SPD	SPK	American River - Folsom Outlet Modifications, CA (Joint Federal Project - Auxiliary Spillway)	90	Mitigation for the Joint Federal Project Flood Risk Management impacts include 1.8 acres riparian habitat, 0.2 acres chaparral habitat, and 1.4 acres oak woodland. Mitigation for the Folsom Dam Modifications Staging Area includes 7.7 acres of habitat for the Federally listed Valley Elderberry Longhorn Beetle (VELB), 6.8 acres oak woodland, and 0.5 acres chaparral habitat.	20-NOV-12	FWS - Sacramento Office - Corps Projects Branch - CA (Federal)	Mitigation at site 11.5 is complete and will be turned over to the sponsor in 2013. Sailor Bar is on track to be successful based on recent surveys and survival rates, increased density and plant vigor. Plants will be watered for another 2 years. Plant counts at Rossmoor Bar (1.4 acres of oak woodland)indicate that this site will be very successful	High	2017	None provided.

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SPD	SPK	Kaweah Spillway Enlargement, CA	100	Based on adverse impacts associated with project construction, mitigation was required to include installation of 40 acres of riparian habitat, 7.19 acres of habitat for Federally listed Valley Elderberry Longhorn Beetle (VELB), and preservation of 4,388 acres of oak woodland and 1,300 acres of seasonal waterfowl habitat.	16-MAY-12	FWS Corps Projects Branch Sacramento Field Office - CA (Federal)	At the Davis Ranch site,(4,388 acres) success criteria was met when the site was purchased by the non-Federal sponsor and the O&M manual was finalized. The site has been turned over to the non-Federal sponsor. The Dry Creek site (40 acres) has had a couple of replants due to fire and grazing damage. The site is also on its way to meeting success criteria to include canopy density and vigor, areal cover and habitat structure. Consultation was done this year with FWS and we have determined that ecological success was met and the site is being turned over to the non-Federal sponsor in 2013. Tulare Lakebed Site (1,300 acres) has met the success criteria and has been turned over to the sponsor. The elderberry site consists of 4 individual sites planted at various times between 2001 and 2006. All sites are on their way to meeting the 60% survival criteria identified in the ESA Biological Opinions. Site will be turned over to the non-Federal sponsor in 2016.	High	2016	None provided.
SPD	SPK	SAC RVR BANK PROTECTION CA-CON (FHR at River Mile 7.0L)	100	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.7 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	16-MAR-12	USFWS Sacramento - CA (Federal)	This site was built less than 1 year ago. Annual monitoring occurred in October 2012, and we are still awaiting final analysis.	Medium	2017	Continue annual monitoring and consultation with the Resource agencies and conduct site maintenance as necessary to meet establishment criteria.

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SPD	SPK	Sacramento River Bank Protection, CA - Construction (LAR at River Mile 10.0L)	100	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.6 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Purchased 33.6 valley elderberry longhorn beetle credits (1.4 ac). Purchase 1.2 acres of spawning habitat and monitoring for 3 years. Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	16-MAR-12	USFWS Sacramento - CA (Federal)	This site was built less than 1 year ago. Annual monitoring occurred in October 2012, and we are still awaiting final analysis.	Medium	2017	Continue annual monitoring and consultation with the Resource agencies and conduct site maintenance as necessary to meet establishment criteria.
SPD	SPK	Sacramento River Bank Protection, CA - Construction (LAR at River Mile 10.6L)	100	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.8 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Purchased 155.6 valley elderberry longhorn beetle credits (6.4 ac). Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	16-MAR-12	USFWS Sacramento - CA (Federal)	First year annual monitoring occurred in October 2012, and we are still awaiting final analysis.	Medium	2017	Continue annual monitoring and consultation with the Resource agencies and conduct site maintenance as necessary to meet establishment criteria.
SPD	SPK	Sacramento River Bank Protection, CA - Construction (SAC Setback Levee at River Miles 57.2R	100	Seventy eight elderberry plants require transplanting with associated native riparian plantings that will mitigate for the loss of heritage oak trees. Impacts associated with the Valley Elderberry Longhorn Beetle resulting from transplanting elderberry plants within the project footprint requires 577.6 VELB credits. Impacts to wetlands requires 0.6 acres of seasonal wetland credits.	16-MAR-12	USFWS Sacramento - CA (Federal)	Elderberry transplants and additional native plantings have been accomplished. Success will be assessed by the USFWS with the Corps, based on provision of identified habitat values to include support of protected longhorn beetles.	High	2015	None provided.

Table 3. ANNUAL CONSULTATION ON SUCCESS OF MITIGATION as required by Section 2036 of WRDA 2007

February 12, 2013

Division	District	Project Name	Mitigation % Physically Complete	Mitigation Requirements	Consultation Date and Agency Name		Evaluate Ecological Success to Date	Likelihood of Success	Projected Timeline for Achieving Success	Recommendations for improving the likelihood of success made during consultation
SPD	SPK	Sacramento River Bank Protection, CA - Construction (SAC at River Mile 77.2L)	100	Mitigate on-site for effects to riparian vegetation and associated habitat with 0.7 acres of native riparian vegetation and associated habitat, including In-water Woody Material (IWM). Purchased 6.6 valley elderberry longhorn beetle credits (0.3 ac). Avoidance and minimization efforts were also incorporated in addition to the planned mitigation.	16-MAR-12	USFWS Sacramento - CA (Federal)	This site was built less than 1 year ago. Annual monitoring occurred in October 2012, and we are still awaiting final analysis.	Medium	2017	Continue annual monitoring and consultation with the Resource agencies and conduct site maintenance as necessary to meet establishment criteria.
SPD	SPK	South Sacramento County Streams, CA	100	Mitigation was required for GGS, Vernal Pool Fairy & Tadpole Shrimp, wetlands impacts, Burrowing Owl, & VELB habitat. These impacts occurred in multiple years & in multiple streams in the project area. They are as follows, and construction & mitigation are completed except as noted. GGS- 8.7 acres for Unionhouse Creek to Franklin, 22.9 acres for Unionhouse Creek Franklin-Center Parkway, 4.8 acres for '98-2002 construction, .2 acres for 2004 design changes. Vernal Pool Preservation- for fairy and tadpole shrimp- 9.2 acres Seasonal wetland creation- 1.1 acres VELB- 7 transplants Burrowing Owl- 386 acres for impacts to various creeks	01-NOV-12	California Department of Fish and Game (State/Territory) Stone Lakes National Wildlife Refuge - CA (Federal)	Mitigation bank credits were purchased for all mitigation other than burrowing owl. Purchase of mitigation credits was completed on the following dates: GGS- Feb 2009, vernal pool- Sep 2009, wetlands- Jul 2010, and VELB- Jun-2003. Mitigation success for burrowing owls is being assessed by monitoring occupation of constructed burrows which is documented in the yearly monitoring report. In 2012, ten owls were observed utilizing constructed burrows. There is no management necessary at this time.	High	2014	Continue monitoring and mowing around constructed burrows.

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SPD	SPK	Yuba River Basin, CA (Marysville Ring Levee)	80	Total woodland mitigation required is 8.7 acres. In addition the US Fish and Wildlife Services' Biological Opinion (BO) requires that 2.5 acres be set aside for elderberry shrub transplants,303 elderberry seedlings and 303 associated natives. In addition, 1.0 acres of GGS habitat were required for additional impacts during Phase 1 construction.	20-JUL-12	California Department of Water Resources (State/Territory) US Fish and Wildlife Service, Corps Projects Branch, Sacramento - CA (Federal)	The mitigation site is thriving with multiple species of riparian and upland trees and shrubs including elderberry. The site received 34 elderberry transplants from Phase 2 in February 2012. There are no success criteria, but elderberry shrubs were successfully moved off site and will be maintained at the mitigation site for three years.	High	2015	Anderson mitigation site is successful- no action necessary at this time. Continue watering and monitoring elderberry shrubs. Purchase GGS credits at a mitigation bank.
SPD	SPL	San Luis Rey River, CA	75	Mitigation is required for temporary and permanent impacts to waters of U.S. and State of California, and riparian and endangered species habitat. Endangered species (vireo, flycatcher) utilize riparian habitat; thus, endangered species and riparian habitat mitigation overlap in most areas, totaling 241 acres (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). Provision of fish passage under bridges is required; boulders will be removed/reconfigured. An adaptive habitat management plan is required; will cover the project area and an off-site mitigation site.	17-OCT-12	California Department of Fish and Game (State/Territory)	Riparian habitat has been established throughout most of the project area since completion of project construction. Preconstruction mitigation requirement for vireo habitat has been met onsite (32ac). The preservation-portion of Phases 1-3 requirements for riparian and vireo habitat are being met with extensive use of the habitat by vireos. Passive and active restoration activities were initiated in 2006 and are ongoing onsite to eradicate invasive exotic plant species. Phase 1 onsite habitat requirement (85 ac) was achieved in 2011. In 2011 and 2012, initial review of Phase 2 (27ac total) and portions of Phase 3 onsite restoration areas indicate habitat is meeting success criteria; additional monitoring required to confirm. Active restoration (planting of container plants) has begun (Fall 2012/Winter 2013) to assist in the restoration of riparian habitat. These areas will be monitored for 5 years to ensure habitat meets remaining Phase 3 onsite requirements. Boulder removal/reconfiguration for fish passage is anticipated to occur in Fall 2014/Winter 2015.	High	2018	None provided.

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SPD	SPL	Santa Ana River Mainstem, CA	75	Restore 92 acres salt marsh, 5 acres freshwater marsh, ~1,257 acres of riparian habitat (mostly through non-native vegetation removal, with monitoring), and 11 acres perennial stream; trapping of nest-predating cowbirds; wildlife corridor improvements; develop and implement Habitat Management Plan for 1,100 floodplain acres downstream of Prado Dam; and develop and implement Multi-Species Habitat Management Plan for 764 acre preserve area downstream of Seven Oaks Dam.	15-FEB-12	California Department of Fish and Game (State/Territory) Orange County Flood Control District - CA (City/Cnty/Mun) FWS Carlsbad Field Office - CA (Federal)	To date all mitigation sites have met or exceeded expectations for their current stage of completion and development. 92 acres salt marsh and 5 acres freshwater marsh have been fully restored. Success criteria were met in that initial plantings survived through establishment period, and areas have continued to function as designed. Arundo biomass removed from over 1000 acres of floodplain. Annual cowbird trapping program underway (intended to protect vireos from nest predation while habitat develops). Floodplain acreage acquired downstream of Prado and Seven Oaks Dams and Habitat Management Plan (HMP) developed for downstream of Prado. Seven Oaks Multi-Species HMP has been developed and partially implemented; Corps will complete treatments and associated surveys by 2017, and then turn continued management over to Sponsors. Perennial stream construction is continuing, completed portions have passed inspections and are already providing some habitat value. Fairview Park plant plantings have fully established, the site is deemed successful and has been turned over to the sponsor for future maintenance. Additional mitigation	High	2018	None provided.

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SPD	SPL	Santa Maria River, CA	50	The permanent loss of 9 acres of habitat due to project construction would be fully mitigated by creating/establishing approximately 12 acres of native riparian habitat by removal of non-native vegetation and re-vegetation with native plants. Another 74 acre area temporarily disturbed by project construction would be fully restored to appropriate native habitat consistent with the natural conditions of the river.	16-JUL-12	Regional Water Quality Control Board (Central Coast) - CA (State/Territory)	The Santa Maria River Levee Restoration Project is progressing well and is on track to meet project timelines and success criteria as detailed by the Plan. Weed treatments have dramatically reduced the incidence of invasive species and will continue on an as-needed basis through the project duration. Successive treatments will further eliminate and control weed species in support of the establishment of native vegetation. The seed collection effort has provided the seed quantities necessary for container plant production and seed distribution as detailed in the Plan. The seed collection effort continued throughout 2012 for species currently under-represented. The completed application of hydroseed is expected to increase the density of vegetative cover and diversity of species. Most planting areas have fully established within all three reaches. Unsuccessful plots are being revegetated. Plant installation of the remaining nursery stock began at the onset of the first sustained rains in winter 2012 and is expected to be complete by spring 2013.	High	2015	None provided.
SWD	SWF	Waco Lake, TX	60	Acquire and reforest approximately 1000 acres of land. Reforest another 540 acres for a total of 1540 acres. This would include creating a 174 acre wetland.	14-JUN-12	FWS Arlington Ecological Field Office - TX (Federal)	We have successfully restored 394 acres including 174 acres of emergent wetlands and 220 acres of forest. In FY 11, another 186 acres are progressing well, but have not been established long enough to meet the success criteria. The expected date of success is 2015 due to the fact that several mitigation areas are expected to be planted through 2013.	Medium	2015	None provided.