

# **2005 Status Report on Compensatory Mitigation in the United States**



**An ELI Report**  
**Jessica Wilkinson and Jared Thompson**

**April, 2006**

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## Acknowledgements

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ELI is responsible for the views and research contained in this report, including any omissions or inaccuracies that may appear. The information contained in the report was obtained primarily through a survey, which was distributed in August 2005 and submitted to ELI between late August 2005 and early October 2005. Letters verifying the data were distributed in December 2005 and returned to ELI between December 2005 and February 2006. The conclusions are solely those of ELI.

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*2005 Status Report on Compensatory Mitigation in the United States*

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## 1. Introduction

In 2005, the Environmental Law Institute (ELI) distributed a survey<sup>1</sup> to all 38 districts of the U.S. Army Corps of Engineers (Corps) requesting information on the nature of the compensatory mitigation being conducted in their districts and to update ELI's database of mitigation banks, in-lieu-fee mitigation programs, and umbrella banking agreements.<sup>2</sup> ELI received complete survey responses from all of the Corps' 38 districts. A subsequent verification of the initial data was returned or commented on by 31 of the 38 Corps districts, for an 82 percent response rate. The initial surveys were distributed in August 2005 and were submitted to ELI between late August 2005 and early October 2005. The verification letters were distributed in December 2005 and returned to ELI between December 2005 and February 2006.

This is the third study that ELI had conducted on the status of mitigation banks and the second study that seeks to track trends in off-site compensatory mitigation in the U.S. In 1993, ELI published, *Wetland Mitigation Banking*, which was part of the Army Corps, Institute for Water Resources' "National Wetlands Mitigation Banking Study."<sup>3</sup> The study provided data on the number of proposed and existing mitigation banks in existence in the U.S. The data provided in the report were compiled and verified in July 1992 (hereinafter 1992 study). In 2002, ELI published *Banks and Fees: The Status of Compensatory Mitigation in the United States*. The report provided data on the number of mitigation banks, in-lieu-fee mitigation programs, and umbrella agreements in existence in the U.S. The data in the report were verified in November and December 2001 (hereinafter 2001 study). Similar studies on mitigation trends have been conducted by the U.S. Army Corps of Engineers, Institute for Water Resources.<sup>4</sup>

Having collected these data at three distinct periods in time allows us to present information that will, we hope, provide the reader with some insight into current trends in compensatory mitigation in the U.S. Below is a summary of our findings.

## 2. Mitigation Banks

A mitigation bank is a wetland or stream restoration, creation, enhancement, or preservation project undertaken to compensate for unavoidable losses to wetlands, streams, and other aquatic resources expressly for the purpose of providing compensatory mitigation in advance of authorized impacts. Federal guidance on mitigation banking was released in 1995.<sup>5</sup>

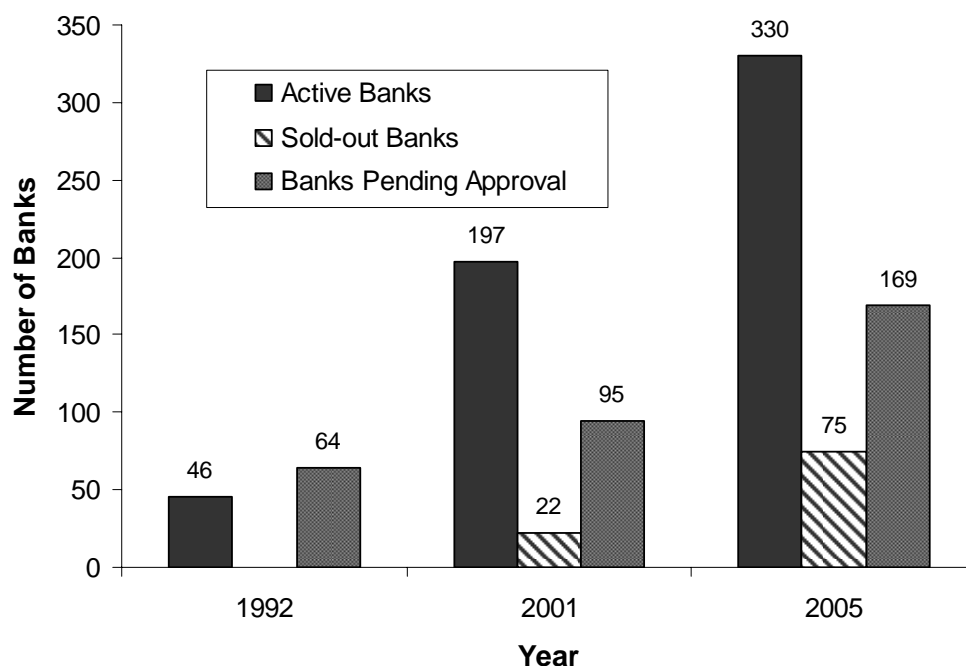
<sup>1</sup> For a copy of the survey, please see: <http://www2.eli.org/wmb>.

<sup>2</sup> ELI's database of wetland mitigation banks, in-lieu-fee mitigation programs, and umbrella banking agreements is available online, along with copies of many of these programs' authorizing instruments, at: <http://www2.eli.org/wmb>.

<sup>3</sup> For the entire set of IWR National Mitigation Banking Study reports, see: <http://www.iwr.usace.army.mil/iwr/services/pdcpnwetlandsM.htm>.

<sup>4</sup> See: Scodari, Paul and Bob Brumbaugh. 1996. "Commercial Wetland Mitigation Credit Ventures: 1995 National Survey." National Mitigation Banking Study Report IWR 96-WMB-9; Martin, Steve, Bob Brumbaugh, Paul Scodari, and David Olsen. 2006. "Compensatory Mitigation Practices in the U.S. Army Corps of Engineers." U.S. Army Corps of Engineers, Institute for Water Resources. Working Paper.

<sup>5</sup> *Federal Guidance for the Establishment, Use and Operation of Mitigation Banks*. Federal Register, Vol. 60, No. 228. 58605-58614. Tuesday, November 28, 1995.



**Figure 1.** Mitigation Banking Trends: The number of mitigation banks in the United States that were active, sold-out, or pending approval in 1992, 2001, and 2005.

#### *Active and Pending Banks*

In 1992, ELI documented 46 approved mitigation banks in the country and 64 proposed banks (see figure 1). The approved banks could be found in 18 states (see figure 2a). At the time, only two states (California and Florida) had more than five banks within their borders.<sup>6</sup>

In 2001, ELI documented 219 approved mitigation banks in the country. Of these, 197 were active and 22 were sold-out (see figure 1).<sup>7</sup> A sold-out bank is one that has been approved and for which all of the available credits have been sold (i.e., the bank has been completely debited). The total number of approved banks represented a 376 percent increase over the number of banks identified in 1992. These banks could be found in 29 states (see figure 2b). In 2001, 12 states had more than 5 approved banks within their borders. At the time, there were also 95 banks pending approval by the Corps.<sup>8</sup> A pending bank is one with a completed draft banking instrument or prospectus, but for which the Corps has not yet approved the banking instrument.

<sup>6</sup> Environmental Law Institute. *Wetland Mitigation Banking*. Washington, D.C.: Environmental Law Institute, 1993. Appendix A.

<sup>7</sup> Environmental Law Institute. *Banks and Fees: The Status of Off-Site Wetland Mitigation in the United States*. Washington, D.C.: Environmental Law Institute, 2002. p. 35. [Hereinafter *Banks and Fees*.]

<sup>8</sup> Ibid.



**Figure 2a.** Geographic Trends in Mitigation Banking: The number of approved (active or sold-out) mitigation banks in each state in 1992.

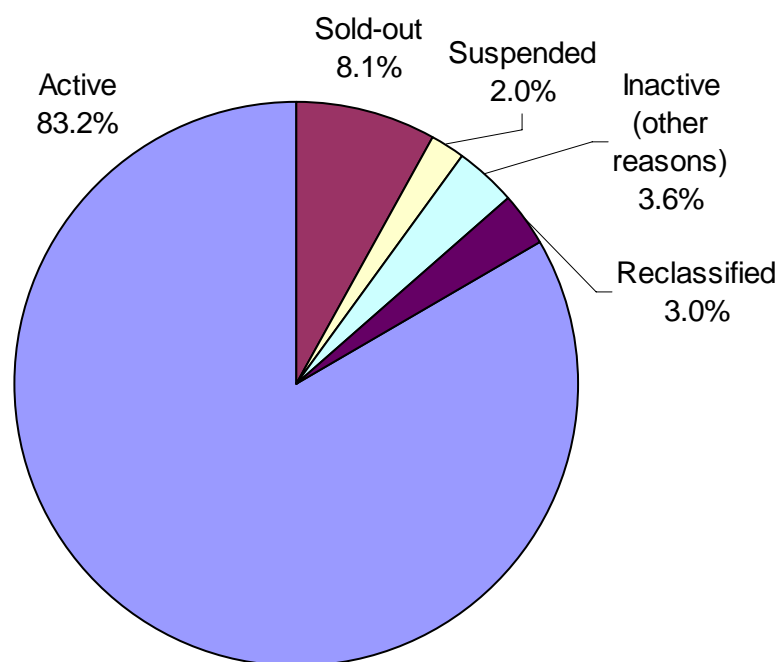


**Figure 2b.** Geographic Trends in Mitigation Banking: The number of approved (active or sold-out) mitigation banks in each state in 2001.



**Figure 2c.** Geographic Trends in Mitigation Banking: The number of approved (active or sold-out) mitigation banks in each state in 2005.





**Figure 3.** Mitigation Bank Status after Four Years: The 2005 status of the 197 active mitigation banks identified in *Banks and Fees* (2001).

In our most recent survey, the Corps districts reported that, as of September 2005, there were 405 approved mitigation banks in the country.<sup>9</sup> Of these approved banks, 330 are currently active and 75 are sold-out (see figure 1). This represents an 85 percent increase in the number of approved banks in four years and a 780 percent increase in the number of banks in fourteen years. The districts also reported an additional 169 banks pending approval. There are currently approved banks in 31 states and 18 states have more than 5 banks within their borders (see figure 2c). Of the 197 banks that were active in 2001, 164 (83.2%) remained active in 2005, while 33 (16.8%) were sold-out, reclassified or inactive for another reason (see figure 3).

#### *Inactive Banks*

In addition to the 330 active banks, 75 sold-out banks, and 169 pending banks, the Corps districts identified 24 mitigation banks that were inactive as of 2005. An inactive bank is one that has been approved to sell credits but is either suspended or inactive for another reason.

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<sup>9</sup> To facilitate comparison with statistics from previous reports, this report uses the same definition for approved banks that was established in *Banks and Fees* (p. 35) that defined approved mitigation banks as those that have an approved banking instrument and are either actively selling credits or have sold-out all their available credits.

The districts reported that 5 of the 24 inactive banks were suspended. In other words, the credit sales have been suspended by the Corps because of a failure to fulfill administrative requirements, or for other reasons. Of these five banks, the Corps is pursuing legal action against one for failing to meet performance standards.<sup>10</sup> Another bank is currently in default because of a dispute between the landowner and mitigation provider. The Corps district reported that it is working to resolve the status of credits purchased from the bank in question.<sup>11</sup> No additional details were provided about the reason for the other three banks' suspended status.<sup>12</sup>

The Corps districts also reported that 19 banks are inactive and not currently selling mitigation credits for other reasons. Of these 19 banks, 2 have had credit releases suspended until the bank sites are modified to meet performance standards.<sup>13</sup> Another bank failed and its credits were transferred to a different bank.<sup>14</sup> Three banks have approved banking instruments but have not yet had credits released.<sup>15</sup> Four others have approved banking instruments but the sponsors decided not to pursue the sites as mitigation banks. Of these four sites, one is being transferred to the U.S. Forest Service,<sup>16</sup> one is being used as green space by the City of Boulder, Colorado,<sup>17</sup> one was never constructed because the initial attempt to establish a bank on the site was unsuccessful,<sup>18</sup> and one that was approved in 1992 was never constructed and never sold any credits.<sup>19</sup> Two banks are inactive because they do not yet have approved conservation mechanisms<sup>20</sup> and one is inactive pending approval of its management strategy.<sup>21</sup> Another bank is inactive because the site boundaries were changed and the agreement is being amended.<sup>22</sup> Finally, one bank is inactive because the bank sponsor filed for bankruptcy,<sup>23</sup> and four inactive banks have no new details available about their status.<sup>24</sup>

<sup>10</sup> Wetland Bank of Kentucky (Hawkings Bank) in the Louisville district.

<sup>11</sup> Boykin-Lillian Wetland Mitigation Bank in the Mobile district.

<sup>12</sup> Clay Station Mitigation Bank and Warner Mitigation Bank in the Sacramento district, and Friends Neck Wetland Mitigation Bank in the Charleston district.

<sup>13</sup> Marion Mitigation Bank and Oak Creek Mitigation Bank, both of which are in the Portland district.

<sup>14</sup> Bazaar Farm Bank in the New Orleans district. No details were made available about where the credits were transferred.

<sup>15</sup> Hickory Creek Mitigation Bank and Rhodes Lake Mitigation Bank, both in the Mobile district, are awaiting their initial credit release. Wolfe Mitigation Bank, in the Louisville district, did not request any pre-credits. It has been constructed and as of September 2005 it was about two years into a five-year monitoring phase, after which the bank's credits will be released for sale.

<sup>16</sup> Prairie Creek Mitigation Bank in the Chicago district. The sponsor, Vulcan Materials Co., decided not to establish a bank and is instead transferring the property to the U.S. Forest Service.

<sup>17</sup> Marshall Mitigation Bank in the Omaha district. This bank was originally sponsored by Loveland Ready Mix Concrete, but the entire bank was purchased by the City of Boulder, Colorado. The city has not requested a modification of the banking instrument to allow them to use the bank for mitigation and the site is currently being used as green space.

<sup>18</sup> Middle Patuxent River Revitalization Project in the Baltimore district. The attempt to establish a bank at this site was unsuccessful sometime before 2001. It appears that no credits were ever sold.

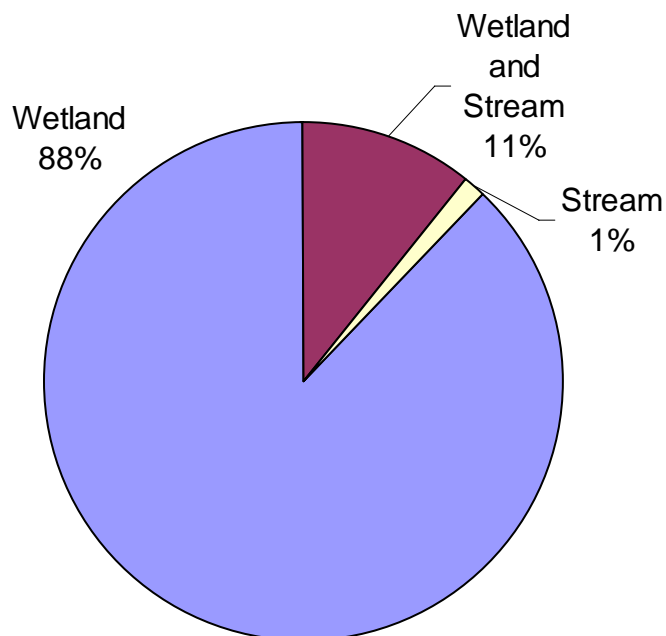
<sup>19</sup> Alabama Highway Department/Wheeler Wildlife Refuge bank in the Nashville district, which was approved in 1992. It was reported as "Expired" in 2001, meaning that it never generated credits for sale, and it was not reported at all by the district in 2005.

<sup>20</sup> Hidden Lake Wetland Mitigation Bank in the Wilmington district has been successfully constructed and monitored, but credits will not be released until there is an approved conservation mechanism in place. This is apparently being held up by a dispute between the sponsors. Valencia Wetland Mitigation Bank in the Walla Walla district is awaiting a signed conservation easement.

<sup>21</sup> Fernhill Mitigation Bank in the Portland district is approved but inactive until the sponsor secures approval of its management strategy.

<sup>22</sup> Palacios Wetland Mitigation Bank in the Galveston district. No credits have been sold and the bank will remain inactive until the agreement is amended to conform with the new property boundaries.

<sup>23</sup> Woodbury Creek Wetlands Mitigation Bank in the New York district.



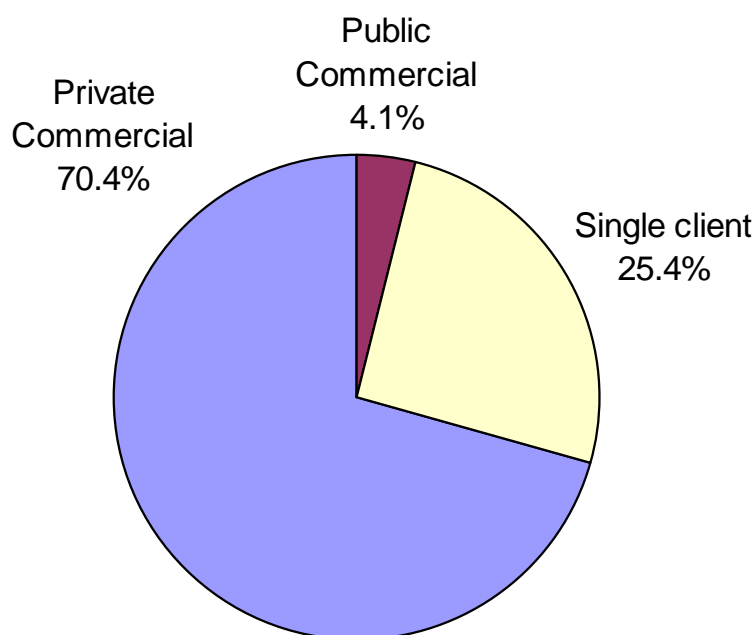
**Figure 4.** Mitigation Bank Credit Types: Proportion of approved mitigation banks (2005) that sell only wetland credits, both wetland and stream credits, and only stream credits (data available for 380 out of 405 approved banks).

#### *Bank Credit Types*

ELI's 1992 and 2001 studies did not seek to determine whether mitigation banks were approved to sell only wetland credits, only stream credits, both wetland *and* stream credits, or other credit types. This 2005 survey asked the Corps districts to specify which type or types of credits the banks in their districts are permitted to sell, as dictated by the banks' authorizing instruments. Of the 405 active banks identified by the Corps districts, the credit types were specified for 380 banks. Of these, 332 (87%) sell only wetland credits, 41 (11%) sell both wetland and stream credits, 5 (1%) sell only stream credits, and 2 (<1%) sell wetland credits and are working to get approval to sell habitat conservation credits under a federal or state endangered species statute (both in the San Francisco district) (see figure 4).

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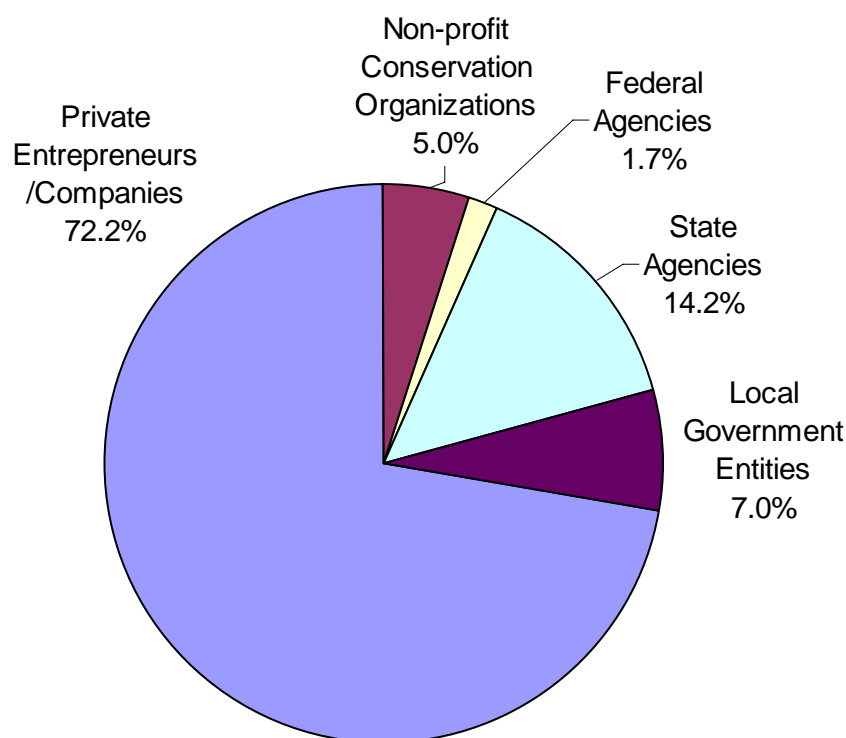
<sup>24</sup> Winfield Creek bank in the Chicago district was reported as inactive in 2005. In 2001 the bank was also inactive, had stopped selling credits, and was planning to transfer its credits to another site due to "difficulties with the public adjacent to the site." The Abita bank and Lake Ramsey bank, both in the New Orleans district, are multi-site/phase banks in which the first phase/site is sold-out and the remaining ones are inactive for unspecified reasons. The Los Angeles district was unable to provide details about the inactive status of the Pilgrim Creek Mitigation Bank because the project manager was deployed to the Gulf Coast for hurricane relief.



**Figure 5.** Mitigation Bank Types: Proportion of approved mitigation banks (2005) that operate as private commercial banks, public commercial banks, and single client banks (data available for 291 out of 405 approved banks).

Table 1: Bank Types <sup>25</sup>	
<i>Private Commercial</i>	Banks sponsored by a private entrepreneur with credits available for sale on the open market.
<i>Public Commercial</i>	Banks sponsored by public entities to compensate for losses to wetlands, streams, and other aquatic resources caused by a combination of public works projects and private development.
<i>Combination Public/Private Commercial</i>	Banks established by a combination of public and private agencies to compensate for permitted losses to wetlands, streams, and other aquatic resources. Credits may be available to public agencies or to the general public.
<i>Public</i>	Banks sponsored by a federal, state, or local agency that sell credits only to other public agencies.
<i>Single client</i>	Banks for which the sponsor is also the principal credit user or client.

<sup>25</sup> These are the definitions that were used on the 2005 ELI survey.



**Figure 6.** Mitigation Bank Sponsors: Proportion of approved mitigation banks (2005) that are sponsored by private entities, non-profit conservation organizations, federal agencies, state agencies, and local government entities (data available for 302 out of 405 approved banks).

#### *Bank Types*

In the 2005 survey, ELI asked the Corps to classify each bank in their district as one of five types (see table 1, previous page). Of the 405 approved banks, the Corps reported bank types for 291 banks. Of these 291 banks, 205 (70%) are private commercial banks, 12 (4%) are public commercial banks, and 74 (25%) are single client banks (see figure 5, previous page).

#### *Sponsor Types*

Based on the information provided by the Corps, ELI sought to classify the banks based on the type of sponsor. Of the 405 approved banks, ELI was able to classify the sponsor type for 302 banks. Of these, 218 (72%) are sponsored by private entities, 15 (5%) are sponsored by non-profit conservation organizations, 5 (2%) are sponsored by Federal agencies, 43 (14%) are sponsored by state agencies, and 21 (7%) are sponsored by local government agencies (see figure 6).

### 3. Umbrella Banking Agreements

An umbrella agreement is a banking instrument sponsored by a single entity to establish and operate a regional banking program with multiple sites. Umbrella agreements establish the parameters of the banking program and supplemental, site-specific information (e.g., individual site plan information) is addressed in a separate document. Because umbrella agreements can cover the establishment of multiple individual banks, the number of umbrella agreements may represent a much larger number of banks and mitigation acreage.

In 2001, ELI identified 40 approved, active umbrella agreements in the country. These 40 agreements included approximately 26,848 acres of approved mitigation wetlands at 308 individual mitigation sites. There were also three pending umbrella banking instruments and one approved, inactive instrument.<sup>26</sup>

In 2005, the Corps districts reported a total of 33 active umbrella banking agreements, with nine new agreements pending.<sup>27</sup> The active umbrella agreements are found in 19 states, 6 of which have more than 1 active umbrella program within the state. In addition to the 33 active programs that are approved by the Corps to mitigate §404 impacts, there are 3 state-sponsored umbrella banking agreements that were identified in 2001 and are presumably still operating. However, since the Corps does not oversee these programs, the districts were not able to provide any data on them.<sup>28</sup> Finally, the Corps indicated that ten approved umbrella agreements, including seven first identified in 2001, are currently inactive. Of these ten, two are currently fully debited<sup>29</sup> and two have not yet had any specific mitigation sites approved.<sup>30</sup> One agreement was not pursued after it was approved,<sup>31</sup> and another was a pilot project that successfully created a mitigation site but has not been used to offset impacts.<sup>32</sup> Another agreement laid out the framework for convening an inter-agency banking review committee but since the banks sites are approved individually, the Corps does not consider the agreement an active umbrella agreement.<sup>33</sup> There were no additional details available about the remaining three approved, inactive umbrella agreements (see figure 7, next page).<sup>34</sup>

<sup>26</sup> *Banks and Fees*. p. 91.

<sup>27</sup> The pending agreements are: Temple-Inland Statewide Mitigation Bank, Galveston district; Missouri Dept. of Transportation Umbrella Wetland and Stream Mitigation Banking Instrument, Kansas City, St. Louis, Memphis, Little Rock and Rock Island districts; Mitigation Specialist, LLC Program, Louisville district; TECO Coal Corp. program, Louisville district; Clinch Powell Mitigation Bank, Norfolk district; Clark County Habitat and Wetland Mitigation Bank, Seattle district; Clark County Public Works Wetland Mitigation Bank, Seattle district; Snoking Mitigation Bank, Seattle district; Louis Berger Wetland Bank, Wilmington district.

<sup>28</sup> South Dakota Wetland Accounting System, Omaha district; Massachusetts Wetlands Banking Project, New England district; Wyoming Statewide Wetland Mitigation Bank, which includes areas in the Omaha, Sacramento and Walla Walla districts.

<sup>29</sup> SWB Environmental Restoration Bank, Norfolk district (new since 2001); Pierce County Public Works and Utilities Road Department Mitigation Banking Program in the Seattle district.

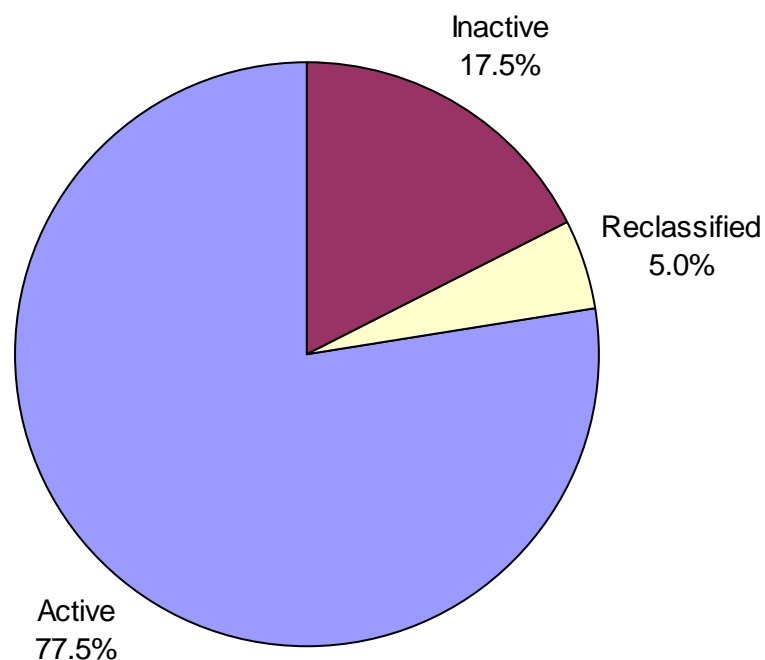
<sup>30</sup> Southeast Alaska agreement, Alaska district (new since 2001); Wyoming Department of Transportation agreement. Omaha district (note: the Wyoming bank was also inactive in 2001).

<sup>31</sup> Prince George's County Wetland Banking System, Baltimore district.

<sup>32</sup> King County Wetland Mitigation Banking Program, Seattle district.

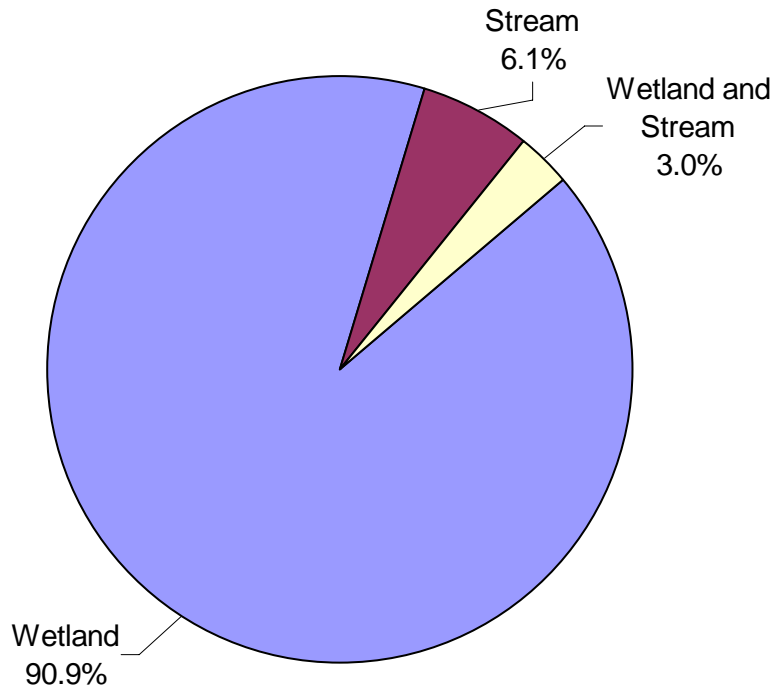
<sup>33</sup> Washington Dept. of Transportation Wetland Compensation Bank Program, Seattle district. This agreement was established in 1994 prior to release of the 1995 Federal banking guidance.

<sup>34</sup> Argyle, Inc. Mitigation Banking Program Agreement, Vicksburg district; Interagency Agreement: The Nature Conservancy Longleaf Pine Flatwood/Savanna Mitigation Banks, New Orleans district; Southeast Louisiana Pine Flatwood Wetland Mitigation Bank, New Orleans district.



**Figure 7.** Umbrella Banking Agreement Status after Four Years: The 2005 status of the 40 active umbrella agreements identified in *Banks and Fees* (2001).

In the 2005 survey, the Corps districts did not provide complete information on the number of individual sites or total acreage of all 33 approved umbrella agreements. The data that were provided indicated that at least 204 mitigation sites had been approved through 28 of the 33 umbrella agreements and that at least 8,695 acres of wetlands had been mitigated through 26 of the umbrella programs.



**Figure 8.** Umbrella Banking Agreement Credit Types: Proportion of the 33 active, Corps-approved umbrella banking agreements (2005) that sell only wetland credits, both wetland and stream credits, and only stream credits.

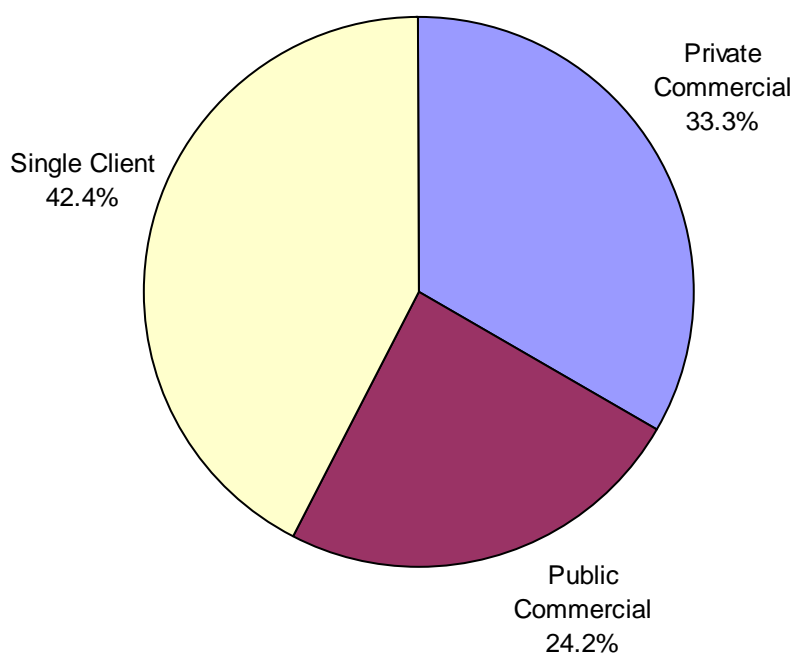
#### *Umbrella Bank Credit Types*

ELI's 2001 study did not seek to determine whether umbrella banks were approved to sell only wetland credits, only stream credits, both wetland *and* stream credits, or other credit types. This 2005 survey asked the Corps districts to specify which type or types of credits the umbrella banks in their districts are permitted to sell, as dictated by the banks' authorizing instruments. Of the 33 active, Corps-approved umbrella banking agreements identified by the Corps districts, 30 (91%) sell only wetland credits, one (3%) sells both wetland and stream credits,<sup>35</sup> and two (6%) sell only stream credits (see figure 8).<sup>36</sup>

<sup>35</sup> Charlotte Umbrella Stream and Wetland Mitigation Bank, Wilmington district.

<sup>36</sup> Creekbanks, Inc. umbrella banking agreement, Louisville district; The Streambank (North Georgia Regional Rivers & Streams Mitigation Project), Savannah district.





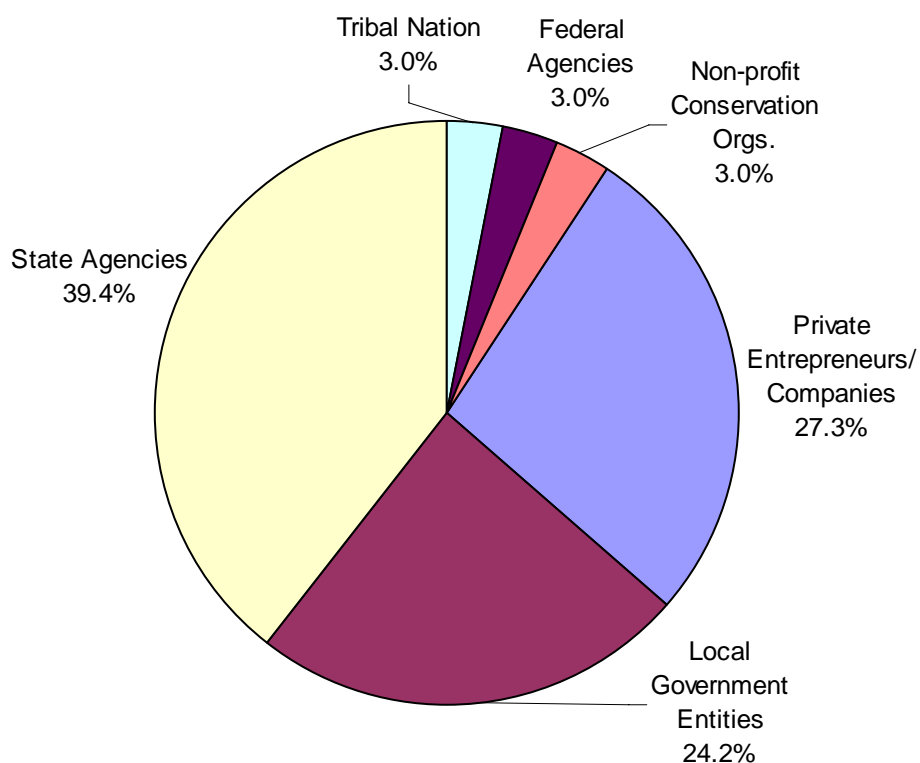
**Figure 9.** Umbrella Banking Agreement Bank Types: Proportion of the 33 active, Corps-approved umbrella banking agreements (2005) that operate as private commercial banks, public commercial banks, and single client banks.

#### *Umbrella Bank Types*

In the 2005 survey, ELI asked the Corps to classify each umbrella banking agreement in their district as one of five types (see table 1, p. 7). Of the 33 active agreements, 11 (33%) are private commercial banks, 8 (24%) are public commercial banks, and 14 (42%) are single client banks (see figure 9).

#### *Sponsor Types*

Based on the information provided by the Corps, ELI sought to identify the sponsor type for each umbrella banking agreement. Of the 33 active, Corps-approved umbrella banks, 13 (39%) are sponsored by state agencies, 9 (27%) are sponsored by private entities, 8 (24%) are sponsored by local government agencies, 1 (3%) is sponsored by a Federal agency, 1 (3%) is sponsored by a Tribal nation, and 1 (3%) is sponsored by a non-profit conservation organization (see figure 10, next page). The prevalence of umbrella banking agreements sponsored by state and local government agencies (60% of all umbrella agreements) may reflect the fact that umbrella banking agreements are often used by departments of transportation or other government agencies to mitigate for impacts caused by predictable, future or recurrent projects such as road construction.



**Figure 10.** Umbrella Banking Agreement Sponsors: Proportion of the 33 active, Corps-approved umbrella agreements (2005) sponsored by non-profit conservation organizations, private entities, local government entities, state agencies, tribal nations, and federal agencies.

## 4. In-Lieu-Fee Mitigation Programs

An in-lieu-fee (ILF) mitigation program is a program established between a regulatory agency (i.e., the Corps or a state wetland program) and a third party sponsor (i.e., a public agency, such as a state wetland program, or a private conservation organization) under which a permittee may provide funds to the sponsor *in lieu* of meeting their mitigation obligations through permittee-responsible mitigation or purchasing credits from an approved mitigation bank. Guidance released by the federal agencies in 2000<sup>37</sup> defined in-lieu-fee mitigation as mitigation that “occurs in circumstances where a permittee provides funds to an in-lieu-fee sponsor instead of either completing project-specific mitigation or purchasing credits from a mitigation bank approved under the Banking Guidance.” In-lieu-fee programs are characterized by having in place an approved in-lieu-fee authorizing instrument that lays out the legal, financial, and long-term management obligations of each party.

The 2000 ILF Guidance is intended to interpret and provide guidance and “procedures for the use of in-lieu-fee mitigation consistent with existing regulations.”<sup>38</sup> As guidance, the document does not *require* Corps districts to adhere the recommendations provided. ELI’s findings are consistent with this interpretation. The Corps continues to allow public or private entities to accept a single payment, or even multiple payments, from permittees to satisfy the permittee’s compensatory mitigation obligations outside of approved in-lieu-fee programs. These one-time in-lieu-fee mitigation projects are not encouraged under the 2000 In-Lieu-Fee Guidance. In fact, the 2000 ILF Guidance recommends the establishment of an in-lieu-fee agreement whenever fees are accepted by a third party in-lieu of the permittee conducting permittee-responsible mitigation or purchasing credits from a mitigation bank, whether under an individual or general permit.<sup>39</sup> In 2001, the General Accounting Office released a report that noted that many Corps districts were allowing “ad hoc mitigation” outside of approved in-lieu-fee programs and recommended that the Corps implement procedures to monitor these arrangements and to clearly identify the party responsible for their ecological success.<sup>40</sup> ELI’s current research shows that these one-time payments outside of approved in-lieu-fee agreements continue to occur fairly frequently at the discretion of individual Corps districts and state wetland programs on a case-by-case basis (see *Project-Specific In-Lieu-Fee* below).<sup>41</sup>

During ELI’s 2001 *Banks and Fees* study, we explicitly sought to document the number of in-lieu-fee *programs* in existence at the time, as distinguished from the number of in-lieu-fee *projects* that had been conducted. Unfortunately, in 2001 much of the in-lieu-fee mitigation being conducted was ad hoc and the Corps districts were still struggling to address the criteria laid out in the 2000 In-Lieu-Fee Guidance. Despite our efforts, many of the in-lieu-fee programs identified in 2001 may have more appropriately been characterized as one-time in-lieu-fee projects.

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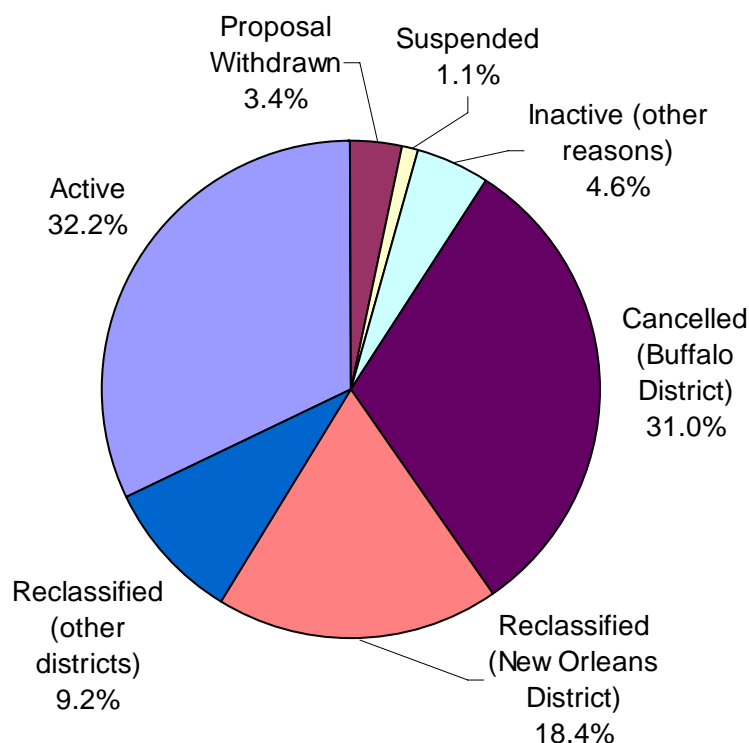
<sup>37</sup> U.S. Department of the Army, U.S. Environmental Protection Agency, U.S. Department of Interior, and U.S. Department of Commerce. *Federal Guidance on the Use of In-Lieu-Fee Arrangements for Compensatory Mitigation under Section 404 of the Clean Water Act and Section 10 of the Rivers and Harbors Act*. 2000. [Hereinafter, “ILF Guidance.”]

<sup>38</sup> ILF Guidance, SV A.

<sup>39</sup> ILF Guidance, §§III A, IV B.

<sup>40</sup> General Accounting Office. *Wetlands Protection: Assessments Needed to Determine Effectiveness of In-Lieu-Fee Mitigation*. May 2001. pp. 14-17.

<sup>41</sup> See also, Environmental Law Institute, *2006 Status Report on In-Lieu-Fee Mitigation*. Washington, D.C.: Environmental Law Institute, publication pending.



**Figure 11.** In-Lieu-Fee Program Status after Four Years: The 2005 status of the 87 approved in-lieu-fee programs identified in *Banks and Fees* (2001).

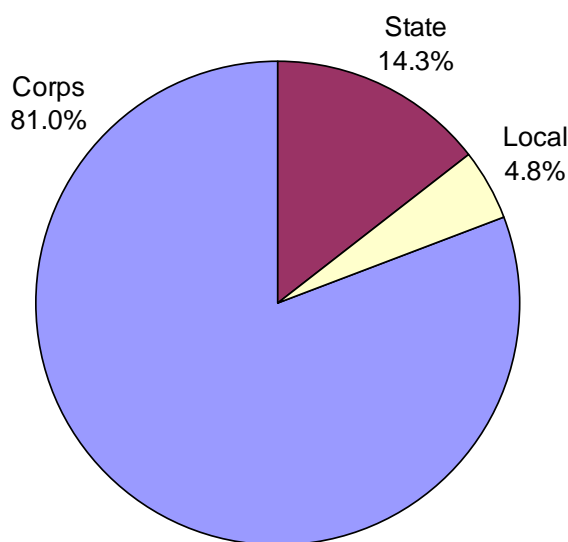
#### *Active, Pending, and Inactive In-Lieu-Fee Programs*

ELI's 2005 survey again sought to identify only the approved in-lieu-fee *programs* that have been approved in the U.S. In 2001, ELI identified 87 approved in-lieu-fee programs and 1 pending program. However, it is important to note that 44 of the approved programs were documented in the Buffalo (27) and New Orleans (17) districts alone. By 2005, both districts had substantially reconsidered in-lieu-fee mitigation. The Buffalo district cancelled all of its programs and the New Orleans district reclassified all but one of its ILF programs as mitigation banks (see figure 11).<sup>42</sup>

In our 2005 survey, the Corps districts identified a total of 42 approved, active in-lieu-fee programs. These programs are active in 23 states. Seven states have more than one ILF program within the state. Eight of the 42 approved programs are sponsored by state or local agencies and, as they accept payments for impacts outside of the §404 program, are not approved or overseen by the Corps (see figure 12, next page).<sup>43</sup>

<sup>42</sup> Breau, Brian. 18 July, 2005. New Orleans district. Personal interview; Hudson, Theresa. 20 July 2005. Buffalo district. Personal interview.

<sup>43</sup> Maryland Department of the Environment Program, Baltimore district; Pennsylvania Wetland Replacement Project, Baltimore, Philadelphia and Pittsburgh districts; DuPage County In-Lieu-Fee Program, Chicago district; Florida Department of Transportation



**Figure 12.** In-Lieu-Fee Program Authorizing Entities: Proportion of the 42 approved, active in-lieu-fee programs (2005) that are authorized by federal (Corps), state, or local agencies.

Additional state or local in-lieu-fee programs may have gone unreported by the Corps, particularly if such programs are designed to address impacts to wetlands or other aquatic resources that are outside of the scope of §404.<sup>44</sup> The Corps also identified one program that is approved but is suspended until its authorizing instrument is modified to comply with the 2000 ILF Guidance,<sup>45</sup> and 12 programs with approval pending.<sup>46</sup> In addition to the programs in the Buffalo and New Orleans districts that ceased operation or were reclassified, five additional in-lieu-fee programs that were identified in 2001 are now either not being used

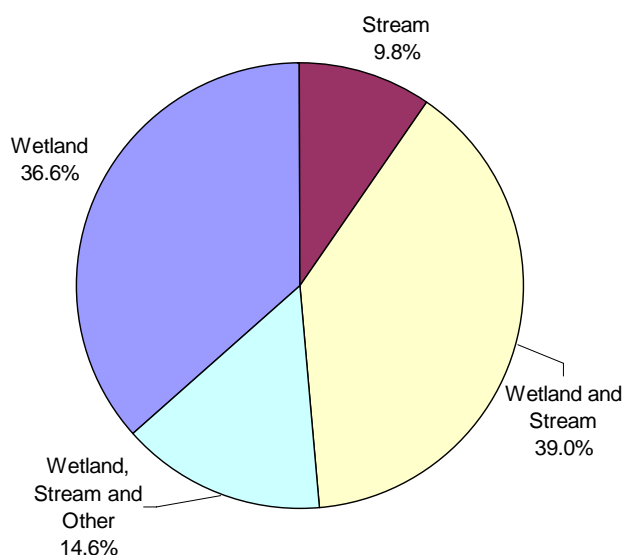
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In-Lieu-Fee Program, Jacksonville district; Louisiana Department of Natural Resources Program, New Orleans district (Corps approval is pending); New Jersey Wetlands Mitigation Council Program; New York district; Oregon Department of State Lands Program, Portland district; Sacramento County In-Lieu-Fee Program, Sacramento district.

<sup>44</sup> Robertson, Morgan. 13 April 2006. U.S. Environmental Protection Agency. Personal correspondence. Reports that Kane and Lake Counties, Illinois both have in-lieu-fee programs.

<sup>45</sup> The Nature Conservancy in-lieu-fee program authorized in the Corps' Sacramento district. The district reported that this program does not comply with the 2000 ILF Guidance and will not be used until the agreement is modified to bring it into compliance, a process that the sponsor has not initiated.

<sup>46</sup> Ducks Unlimited Detroit district In-Lieu-Fee Program, Detroit district; Spring Creek In-Lieu-Fee Program, Galveston district; West Virginia In-Lieu-Fee Program, Huntington and Pittsburgh districts; Kansas Aquatic Resources Trust Fund, Kansas City district; In-Lieu-Fee Mitigation Trust Fund, Kansas City district; Bureau of Land Management In-Lieu-Fee Mitigation Program, Los Angeles district; California Department of Fish and Game In-Lieu-Fee Mitigation Program, Los Angeles district; Prescott Creeks Preservation Association In-Lieu-Fee Mitigation Program, Los Angeles district; The Nature Conservancy-Delaware Region, Philadelphia district; Oregon Department of State Lands Program, Portland district (note: this is a state program not a federal program); Lake Chelan Service Area In-Lieu-Fee, Seattle district; Idaho Fish and Wildlife Foundation In-Lieu-Fee Program, Walla Walla district.



**Figure 13.** In-Lieu-Fee Program Credit Types: Proportion of 41 approved, active in-lieu-fee programs (2005) that sell only wetland credits; only stream credits; both wetland and stream credits; and wetland, stream, and other credits (credit type data were not available for one program).

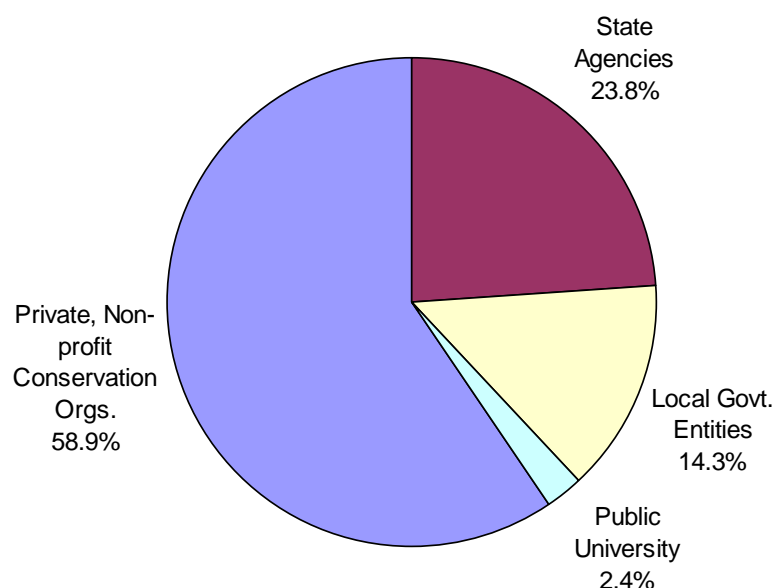
by the Corps or have been terminated completely.<sup>47</sup> Finally, complete information was not available in 2005 for one in-lieu-fee program that was identified as pending in 2001. As a result, the current status of this program is uncertain.<sup>48</sup>

#### *In-Lieu-Fee Program Credit Types*

ELI's 2001 study did not seek to determine whether in-lieu-fee programs were approved to sell only wetland credits, only stream credits, both wetland *and* stream credits, or other credit types. ELI's 2005 survey asked the Corps districts to specify which type or types of credits the ILF programs in their districts are approved to sell, as dictated by the programs' authorizing instruments. Of the 42 approved, active ILF programs identified by the Corps districts, the credit types were specified for 41 programs. Of these, 15 (37%)

<sup>47</sup> The Ohio Wetlands Corporation (OWC) In-Lieu-Fee Program and the Singer Lake Bog In-Lieu-Fee Program are both listed as sold-out/terminated by the Huntington district. OWC successfully completed an 11-acre mitigation project and is not collecting funds to do any additional projects. The Singer Lake Bog program fulfilled its obligations and is not selling additional credits. The South Florida Water Management District (SFWMD) Program was reclassified as a Regional Offsite Mitigation Area, not an in-lieu fee program, and it was terminated after collecting sufficient funds to complete work on two tracts of land (Robbins, Rob. 26 September 2005. SFWMD. Personal interview.). The Chicago Corps district program was discontinued due to disagreements between the U.S. Fish and Wildlife Service and the Corps about how the program should be run and due to complaints from mitigation bankers that the program was affecting their profit margins (Wozniak, Keith. 23 September 2005. Chicago district. Personal correspondence.). The Delta Environmental Land Trust Association Program in the Vicksburg district is no longer active.

<sup>48</sup> The New England district reported that the Maine Department of Environmental Protection Program is actually an umbrella banking program instead of a state sponsored in-lieu-fee program. In 2001, the Maine DEP program was reported as pending. No additional details were available and the current status and classification of this program remains unclear.



**Figure 14.** In-Lieu-Fee Program Sponsors: Proportion of the 42 approved, active in-lieu-fee programs that are sponsored by private non-profit conservation organizations, state agencies, local government entities and public universities.

sell only wetland credits, 16 (39%) sell both wetland and stream credits, 4 (10%) sell only stream credits, and 6 (15%) sell wetland, stream, and other credit types (see figure 13, previous page).<sup>49</sup>

#### *Sponsor Types*

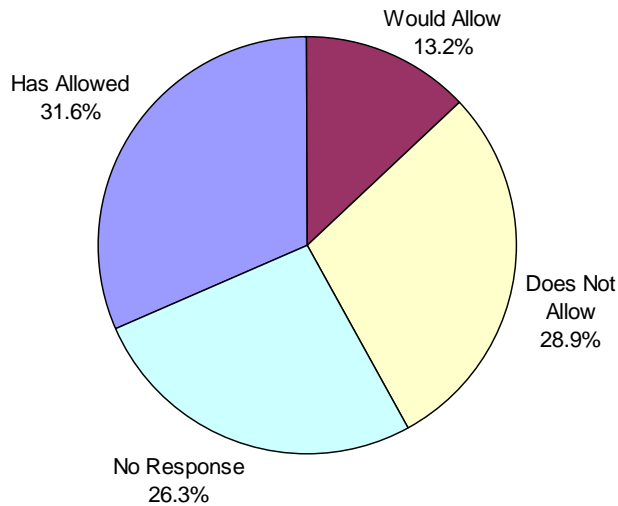
Based on the information provided by the Corps, ELI sought to identify the sponsor type for each in-lieu-fee program. Of the 42 approved, active ILF programs, 25 (60%) are sponsored by private, non-profit conservation organizations, 10 (24%) are sponsored by state agencies, 6 (14%) are sponsored by local government-level agencies and 1 (2%) is sponsored by a public university (see figure 14).<sup>50</sup> Two of the 25 non-profit ILF programs are sponsored by private, non-profit arms of state wildlife or conservation agencies.<sup>51</sup>

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<sup>49</sup> Four programs in the Alaska district sell credits for “wetland, stream and potential intertidal applications” (The Conservation Fund ILF Program, Great Land Trust ILF Program, Kachemak Heritage Land Trust ILF Program, and Southeast Alaska Land Trust ILF Program). In the Norfolk district, the Elizabeth River Restoration Trust Fund can sell credits for wetland, stream, subtidal and intertidal habitats, and the Virginia Aquatic Resources Trust Fund can mitigate impacts to wetlands, streams, open water, mud flats, submerged aquatic vegetation (SAV), and oyster reefs.

<sup>50</sup> Northern Kentucky University ILF Program in the Louisville district.

<sup>51</sup> Missouri Conservation Heritage Foundation is a private non-profit arm of the Missouri Department of Conservation; Tennessee Wildlife Resources Foundation is a limited liability company created to administer the program for the Tennessee Wildlife Resources Agency.



**Figure 15.** Project-Specific In-Lieu-Fee Prevalence: Proportion of the 38 Corps districts that say they have allowed, would allow, or do not allow project-specific in-lieu-fee arrangements.

#### *Project-Specific In-Lieu-Fee*

In 2005, many of the Corps districts reported that, despite the 2000 ILF Guidance, at times they allow some form of one-time, project-specific in-lieu-fee mitigation. Of the 28 districts that responded to questions about project-specific in-lieu-fee mitigation, 17 districts (61%) reported that they either allow project-specific mitigation or that they would consider allowing it.<sup>52</sup> ELI did not ask, nor did the districts report, under what circumstances these in-lieu-fee payments were approved. Eleven districts (39%) reported that they do not allow project-specific in-lieu-fee mitigation (see figure 15).

Of the 17 districts that reported that they either allow or would consider allowing project-specific ILF, 5 have not actually authorized such an arrangement but said that they would consider doing so. The 12 districts that have authorized project-specific ILF indicated that it is generally a rarely used option. In these 12 districts, 8 districts report no more than 5 such transactions and 3 report no more than 10 such transactions since 2000. Only 1 district, the Los Angeles district, reported using project-specific ILF up to 20 times since 2000. In these transactions, the districts directed funds to a limited number of mitigation providers, with ten districts reporting that no more than five different providers were used and two districts reporting using up to ten providers. The districts reported that monitoring and verification requirements for these project-specific ILF arrangements vary widely among districts.<sup>53</sup>

<sup>52</sup> Districts have various names for one-time, project-specific in-lieu-fee projects, including "Third party mitigation" (Kansas City), "Specific In-Lieu-Fee" (Little Rock), "Ad hoc ILF Mitigation" (Los Angeles), "Project specific third-party mitigation" (St. Louis) and "Approved mitigation" (New Orleans). All of these forms of mitigation, however, appear to serve the same function. As a result, for the purposes of this report, ELI considers all of these forms together as "project-specific in-lieu-fee mitigation."

<sup>53</sup> For further details see, Environmental Law Institute, *2006 Status Report on In-Lieu-Fee Mitigation*. Washington, D.C.: Environmental Law Institute, publication pending.



## 5. Alternative Compensatory Mitigation Mechanisms

ELI's 2005 survey asked the Corps districts whether or not compensatory mitigation requirements in their districts are satisfied through means other than permittee-responsible mitigation, or the purchase of credits from mitigation banks or payment to in-lieu-fee programs identified in the survey. ELI received responses from 27 of the 38 Corps districts (71%). Of these 27 districts, 23 (85%) reported that they do not allow compensatory mitigation requirements to be satisfied outside of these three traditional means. Four of the responding districts (15%), however, reported that they may authorize permittees to satisfy their compensatory mitigation requirements through alternative means (see table 2).

**Table 2: Alternative Compensatory Mitigation Mechanisms**

ELI's 2005 survey asked the Corps districts if they allow permittees to satisfy their mitigation obligations through means other than permittee-responsible mitigation, purchasing credits from mitigation banks identified on the survey, or paying into an in-lieu-fee program identified on the survey. If they answered yes, they were asked to define and describe these alternative forms of mitigation. Out of the 27 districts that answered this question, four answered yes and gave the following descriptions of their alternative mitigation mechanisms:

*New Orleans District*

Reports that they are unsure whether or not they have used alternative mechanisms, but would "not rule it out at this time" if the mitigation is determined to be "appropriate, capable of being performed and maintained in perpetuity."

*Savannah District*

Reports using alternative mechanisms for a "very small number of violations" when it has been determined to be "more advantageous." The district reports allowing a business that puts up roadside billboard signs that had a violation to post roadside billboard signs that promote wetland awareness as part of the mitigation.

*Seattle District*

Has permitted projects using "advanced mitigation agreements," "programmatic mitigation areas," and/or "consolidated mitigation areas."

*Vicksburg District*

Reports allowing "ad-hoc mitigation," mitigation that is done by the applicant at applicant's expense on land owned by a third party. In these cases, the third party signs a mitigation covenant along with the applicant.

## 6. Mitigation Guidance

In the 2005 ELL survey, the Corps districts were asked to report mitigation guidance documents that had been developed in their districts (see Appendix E). Thirty-three out of the 38 Corps districts reported having general mitigation guidance covering some or all of their districts.<sup>54</sup> Twelve of the Corps districts and the Michigan Department of Environmental Quality (DEQ)<sup>55</sup> reported having guidance specific to mitigation banking within their jurisdiction and four of the Corps districts reported having guidance specific to in-lieu-fee mitigation.<sup>56</sup> Twelve Corps districts, the Michigan DEQ, and the New Jersey Department of Environmental Protection reported having a stand-alone mitigation checklist for use in their jurisdiction.<sup>57</sup> Finally, seven districts and the Michigan DEQ offer templates of banking and/or in-lieu-fee instruments, eight districts and the Michigan DEQ offer templates of conservation easements or other restrictive covenants for use with mitigation projects, and only one district (Baltimore) and the Michigan DEQ reported offering templates or models of financial assurances to be used with mitigation projects.<sup>58</sup>

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<sup>54</sup> Appendix E, § I.

<sup>55</sup> The Michigan Department of Environmental Quality and New Jersey Department of Environmental Protection have both been delegated authority to administer the §404 program within their respective states.

<sup>56</sup> Appendix E, §§ II and III.

<sup>57</sup> Appendix E, § IV.

<sup>58</sup> Appendix E, § V.

## 7. Types of Mitigation Used to Satisfy §404 Requirements

Compensatory mitigation is required to replace wetlands and aquatic resources unavoidably lost or adversely affected by impacts permitted through the Clean Water Act's §404 program. Mitigation requirements can be satisfied through the restoration, enhancement, creation, or preservation of wetlands and aquatic resources (see table 3). Corps districts are not currently required to collect or report data on the types of mitigation that are used to satisfy §404 requirements.

### *Wetland Mitigation*

In 2005, ELI asked the Corp districts to report their best estimates of the percentage of required wetland mitigation that is being satisfied through each type of mitigation in each district annually. We suggested that they could use fiscal year 2003 estimates and asked that they include mitigation conducted under both individual and general permits.

Overall, the districts reported that restoration is the most common form of mitigation, followed by enhancement, creation, and preservation, in that order. The amount of each type of mitigation can be calculated either as a percentage of the total acres of mitigation nationwide or as a percentage of the total acres of impacts nationwide. Both statistics are reported here (see tables 4 and 5, figures 16 and 17, next page).

Table 3: Mitigation Types <sup>59</sup>	
<i>Creation (Establishment)</i>	The manipulation of the physical, chemical, or biological characteristics present to develop a wetland on an upland or deepwater site, where a wetland did not previously exist.
<i>Restoration</i>	The manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural or historic functions to a former wetland.
<i>Enhancement</i>	The manipulation of the physical, chemical, or biological characteristics of a wetland (undisturbed or degraded) site to heighten, intensify, or improve specific function(s) or to change the growth stage or composition of the vegetation present. Enhancement is undertaken for specified purposes such as water quality improvement, flood water retention, or wildlife habitat.
<i>Preservation (Protection/Maintenance)</i>	The removal of a threat to, or preventing the decline of, wetland conditions by an action in or near a wetland. This term includes the purchase of land or easements, repairing water control structures or fences, or structural protection such as repairing a barrier island.

<sup>59</sup> Definitions from U.S. Army Corps of Engineers. Regulatory Guidance Letter No. 02-2. December 24, 2002.

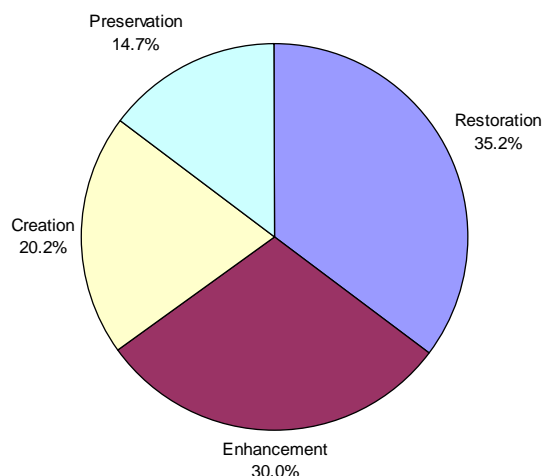
## TYPES OF MITIGATION USED TO SATISFY §404 REQUIREMENTS

**Table 4: Wetland mitigation by type, as a percentage of total acres of mitigation nationwide.<sup>60</sup>**

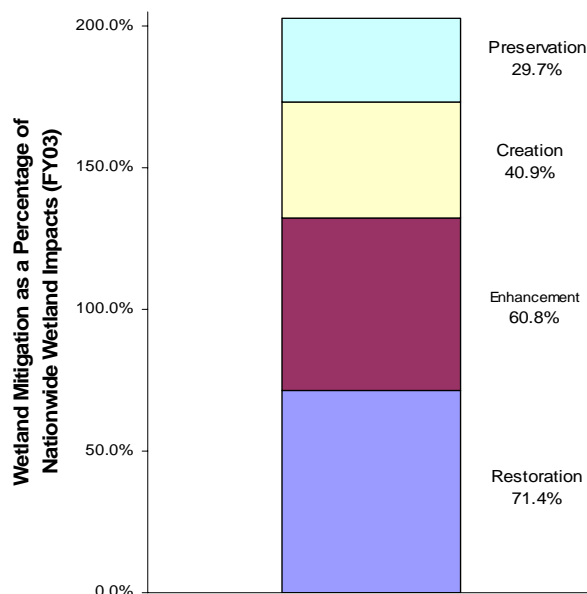
Restoration	35.2%
Enhancement	30.0%
Creation	20.2%
Preservation	14.7%
Total Mitigation	100.1% <sup>62</sup>

**Table 5: Wetland mitigation by type, as a percentage of total acres of impacts nationwide (ratio of acres of mitigation to acres of impacts in parentheses).<sup>61</sup>**

Restoration	71.4% (0.714:1)
Enhancement	60.8% (0.608:1)
Creation	40.9% (0.409:1)
Preservation	29.7% (0.297:1)
Total Mitigation	202.8% (2.028:1)



**Figure 16. Wetland Mitigation Types: Proportion of required wetland mitigation (out of a reported 43,549 acres, FY03) accomplished nationwide through restoration, enhancement, creation and preservation, calculated as percentages of the total amount of wetland mitigation.**



**Figure 17. Wetland Mitigation Types Relative to Wetland Impacts: Proportion of required wetland mitigation (43,549 acres, FY03) accomplished nationwide through restoration, enhancement, creation and preservation, calculated as percentages of the total wetland impacts nationwide (21,412 acres, FY03).**

<sup>60</sup> These numbers should be considered approximate. Corps districts were asked to report the percentage of mitigation conducted in their district by type (e.g. acres of restoration divided by total acres of mitigation, etc.). Many districts reported that these percentages were best estimates and were not calculations based directly on permit-specific data. To calculate nationwide percentages, the district percentages by type were multiplied by the total number of acres of mitigation done in each district in FY2003 to find the total number of acres of each type of mitigation accomplished in FY2003. These total acreages by type were then divided by the nationwide total acreage of mitigation to arrive at the percentages reported here. The Corps reported a total of 43,549 acres of mitigation nationwide in FY2003 (See: U.S. Army Corps of Engineers. "Wetland Impact Data FY03.").

<sup>61</sup> The Corps reported a total of 21,412 acres of permitted wetland impacts in FY2003. Nationwide percentages were calculated as in note 1 but the total number of acres of each type of mitigation were divided by the total number of acres of permitted impacts to arrive at the percentages reported in this section.

<sup>62</sup> Percentages throughout sections 7 and 8 of this document may not add up to 100 percent due to rounding.

Adjusting the overall wetland replacement ratio to include only mitigation types that yield a net gain in wetland acreage,<sup>63</sup> reveals that on a nationwide scale in FY2003, the Corps' §404 Program had the potential to achieve a 1.123:1 ratio if permit compliance was achieved.

#### *Stream Mitigation*

ELI also asked the districts to provide us with their best estimate of the percentage of required stream mitigation that is being satisfied through each type of mitigation in each district annually. We suggested that they use fiscal year 2003 estimates and asked that they include mitigation conducted under individual and general permits.

Unlike the definitions used for the different types of wetland mitigation, which are fairly uniformly applied across the country, the definitions for stream mitigation types may vary from district to district.<sup>64</sup> Stream mitigation estimates are also complicated by a lack of available statistics on the total amount of stream mitigation performed in each district and nationwide. In addition, some districts reported not having any stream mitigation in FY2003 or do not distinguish between wetland and stream mitigation.<sup>65</sup> Of the districts that do track stream mitigation, some measure in acreage, some in linear feet, and some in credits as defined in separate guidance documents. The results reported here should thus be considered the best possible estimate of how stream mitigation is accomplished in an "average" Corps district; the data do not necessarily represent overall nationwide trends (see table 6, figure 18, next page).

Overall, it appears that enhancement is the most commonly used type of stream mitigation, followed by preservation, restoration and creation, in that order.

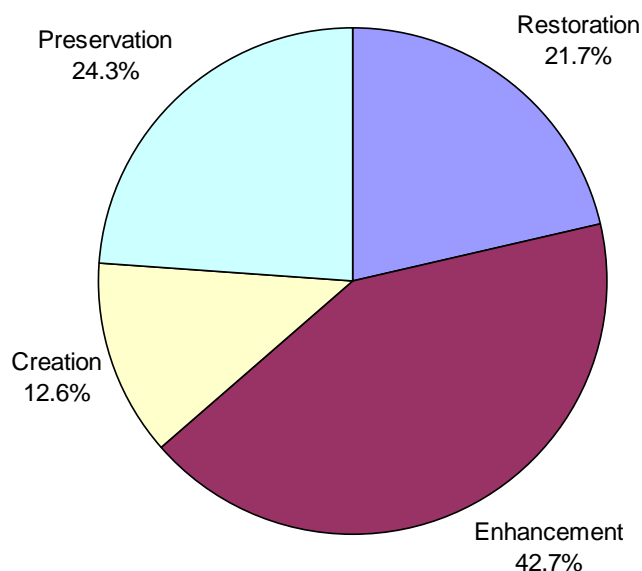
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<sup>63</sup> U.S. Army Corps of Engineers. Regulatory Guidance Letter No. 02-2. December 24, 2002. The guidance states that creation (establishment) leads to a gain in wetland acres; restoration/re-establishment leads to a gain in wetlands acres; restoration/rehabilitation results in a gain in wetland function, but not a gain in wetland acres; enhancement does not result in a gain in wetland acres; and preservation (protection/maintenance) does not result in a gain in wetland acres. Because ELI did not ask the districts to distinguish between the two forms of restoration, this estimate assumes that both creation and restoration result in a net gain in wetland acres if permit conditions are met.

<sup>64</sup> For example, it is unclear whether stream restoration is limited to only channel restoration or includes bank stabilization or establishment of riparian buffers. Similarly, it is not clear whether stream enhancement includes riparian buffer establishment, bank stabilization, or installation of instream habitat structures.

<sup>65</sup> The Detroit and Honolulu districts reported that no stream mitigation occurred in their district in FY2003. The Galveston, New Orleans, Portland, and Sacramento districts reported that they do not distinguish between wetland and stream mitigation.

<b>Table 6: Stream mitigation by type:<sup>66</sup></b>	
Restoration	21.7%
Enhancement	42.7%
Creation <sup>67</sup>	12.6%
Preservation	24.3%
Total Mitigation	101.3%



**Figure 18.** Stream Mitigation Types: Average proportion of required stream mitigation accomplished through restoration, enhancement, creation and preservation in the 35 Corps districts that reported stream mitigation data.

<sup>66</sup> These percentages are rough estimates and do not add up to 100 percent due to rounding. They were calculated by averaging the percentages provided by the 35 reporting districts. Because there are no data available on the total amount (in linear feet or acres) of stream mitigation required or completed nationwide or at the district level, the percentages reported by the districts could not be weighted by the amount of stream mitigation done in each district. As a result, these percentages represent only what occurs in the “average” Corps district, they are not necessarily an accurate indicator of nationwide trends in stream mitigation.

<sup>67</sup> The “creation” category also includes “stream relocation” that was reported by the Baltimore district and defined as rerouting a stream around the site of a permitted impact.

## **8. Methods of Satisfying Mitigation Requirements**

Compensatory mitigation is required to replace wetlands and aquatic resources unavoidably lost or adversely affected by impacts permitted through the Clean Water Act §404 program. Compensatory mitigation requirements can be satisfied through several different methods, including permittee-responsible mitigation, mitigation banks, or in-lieu-fee mitigation. Corps districts are not currently required to collect or report data on the mitigation methods that are used to satisfy §404 requirements.

### *Wetland Mitigation*

ELI asked the Corps districts to provide us with their best estimate of the percentage of required wetland mitigation that is being satisfied through each mitigation method in their districts on an annual basis. We suggested that they use fiscal year 2003 estimates and asked that they include mitigation conducted under both individual and general permits.

Overall, permittee-responsible mitigation accounts for more than half of all wetland mitigation conducted nationwide and mitigation banking accounts for nearly a third of all mitigation. In-lieu-fee programs and other alternative forms of mitigation account for only a small percentage of the wetland mitigation conducted nationwide (see table 7, figure 19, next page).

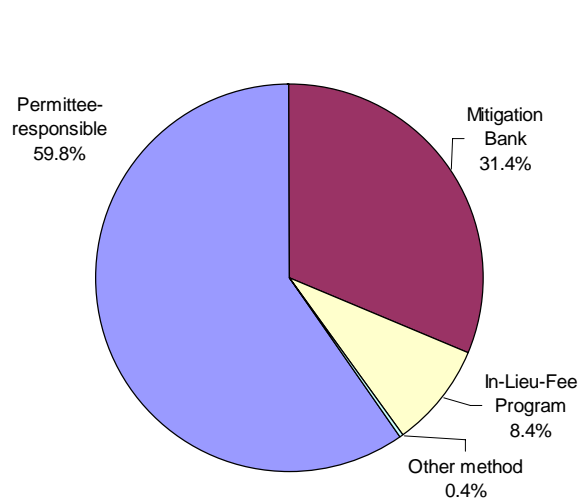
### *Stream Mitigation*

ELI also asked the districts to provide us with their best estimate of the percentage of required stream mitigation that is being satisfied through each mitigation method in their districts on an annual basis. We suggested that they use fiscal year 2003 estimates and asked that they include mitigation conducted under individual and general permits.

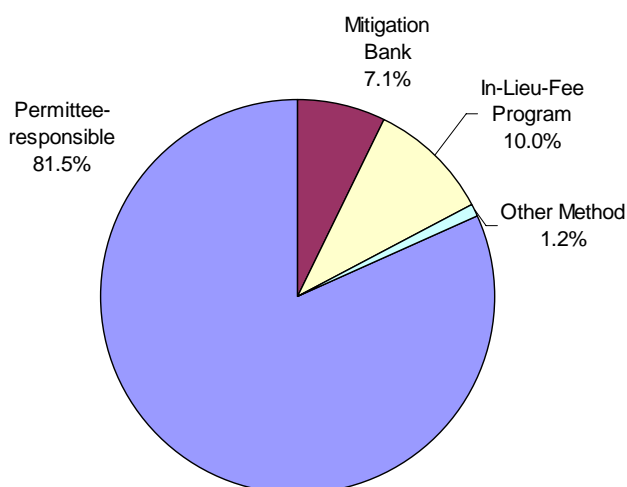
Again, permittee-responsible was by far the most prevalent, accounting for over 80 percent of all stream mitigation, and was followed by in-lieu-fee programs, mitigation banks and alternative mitigation methods, in that order (see table 8, figure 20, next page).

**Table 7:** Method of satisfying wetland mitigation requirements as a percentage of the total acres of mitigation completed nationwide:<sup>68</sup>

Permittee-responsible	59.8%
Mitigation Bank	31.4%
In-Lieu-Fee Program	8.4%
Other method	0.4%
Total Mitigation	100.0%

**Figure 19.** Wetland Mitigation Methods: Proportion of required wetland mitigation nationwide (43,549 acres, FY03) satisfied by permittee-responsible mitigation, purchase of credits from a mitigation bank, payment to an in-lieu-fee program, and by other means.**Table 8:** Method of satisfying stream mitigation requirements:<sup>69</sup>

Permittee-responsible	81.5%
Mitigation Bank	7.1%
In-Lieu-Fee Program	10.0%
Other method	1.2%
Total Mitigation	99.8%

**Figure 20.** Stream Mitigation Methods: Average proportion of required stream mitigation satisfied by permittee-responsible mitigation, purchase of credits from a mitigation bank, payment to an in-lieu-fee program, and by other means as reported by 35 Corps districts that reported stream mitigation data.

<sup>68</sup> These percentages were calculated by the same method outlined in note 50, but using the data provided by 37 Corps districts for mitigation methods (the Honolulu district did not report data). These numbers should be considered approximate as some districts reported estimates. There also may have been ambiguity about whether to classify mitigation accomplished through single-client mitigation banks or umbrella banking sites as "permittee-responsible" or as "mitigation bank."

<sup>69</sup> These percentages were calculated by the same method outlined in note 66 using data from 36 Corps districts (the Honolulu and New Orleans districts did not report data). These percentages are subject to the caveats described in notes 66 and 68.



## **9. Cost Estimates for Different Mitigation Types**

### *Wetland Mitigation*

ELI asked the Corp districts to provide us with any information they had on estimated costs for the average price per acre of wetland restoration, enhancement, creation or preservation. We asked for information from both published and unpublished sources.

Fifteen out of 38 districts (39%) offered estimates of wetland mitigation costs. The districts reported that the price of mitigation varies widely and is highly dependant on factors such as land acquisition costs, the type of mitigation to be performed, the scale of the mitigation and the mitigation provider. Some districts distinguished between land acquisition costs and mitigation costs, although many did not, so their estimates are not necessarily directly comparable. Overall the districts' estimates of mitigation costs varied by two orders of magnitude, making it nearly impossible to calculate any single average cost of mitigation.

The lowest estimated costs were \$3,000 to \$4,000 per acre plus land costs for non-tidal wetland restoration in the Baltimore district and \$4,050 per acre in rural Minnesota counties in the St. Paul district. Other low-end cost estimates included about \$13,000 per acre for non-riparian wetlands in the Wilmington district and several districts cited low-end costs of \$15,000 to \$16,000 per acre.<sup>70</sup>

At the upper end of estimated costs, the Norfolk district estimated that estuarine wetland mitigation bank prices average about \$350,000 per credit (acre). Several districts cited upper-end costs of \$100,000 to \$150,000 per acre,<sup>71</sup> especially for wetland creation, and several other districts cited upper-end costs of \$60,000 to \$80,000 per acre.<sup>72</sup>

### *Stream Mitigation*

We also asked the districts to provide us with any information they had on estimated costs for the average price per linear foot of stream restoration, enhancement, creation, or preservation. Again, we asked for information from both published and unpublished sources.

Only 9 out of 38 districts (24%) were able to offer estimates of the cost of stream mitigation. These estimates indicate that average stream mitigation costs are also difficult to determine on a nationwide basis. Most of the responding districts track stream mitigation by linear feet, and the costs estimated by these seven districts range from about \$100 to \$250 per linear foot. For upper and lower limits, the Norfolk district reported that costs may be up to \$400 per linear foot in certain watersheds and the Buffalo district estimated that costs may be as low as \$75 per linear foot in some cases.

The other two districts that estimated stream mitigation costs track stream mitigation by acreage or require riparian buffer acreage as part of their stream mitigation projects. The Kansas City district reported that a stream in-lieu-fee program in the district was collecting about \$68,000 per acre of stream impacts. The Walla Walla district reported that a project involving the creation of 600 feet of stream channel and 0.1 acres of wetland cost \$57,000, including land acquisition costs.

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<sup>70</sup> Alaska, Buffalo, Huntington, and Norfolk districts.

<sup>71</sup> Los Angeles, New York, Philadelphia, and Wilmington districts.

<sup>72</sup> Buffalo, Detroit, New England, and Omaha districts.

## Appendix A: List of Mitigation Banks, Umbrella Banking Agreements and In-Lieu-Fee Mitigation Programs by State

### Alabama

#### *Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Mobile	Alabama Port Wetland Bank	Approved-Active
Mobile	Boykin-Lillian Wetland Mitigation Bank	Approved-Inactive-Suspended
Mobile	McLemore Mitigation Bank	Approved-Active
Mobile	Weeks Bay Mitigation Bank	Approved-Active
Mobile	Yellowleaf Mitigation Bank	Pending
Nashville	Alabama Highway Department/Wheeler Wildlife Refuge	Approved-Inactive-Other Reason
Nashville	Flint Creek Wetland Mitigation Bank	Approved-Active
Nashville	Jackson County Mitigation Bank	Approved-Active

#### *Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Mobile	Alabama Department of Transportation Bank	Approved-Active

### Alaska

#### *Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Alaska	SE Alaska	Approved-Inactive

#### *In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Alaska	Great Land Trust Program	Approved-Active
Alaska	Kachemak Heritage Land Trust In-Lieu-Fee Program	Approved-Active
Alaska	Southeast Alaska Land Trust In-Lieu-Fee Program	Approved-Active
Alaska	The Conservation Fund In-Lieu-Fee Program	Approved-Active

### Arizona

#### *In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Los Angeles	Arizona Game and Fish Department ILF Mitigation Program	Approved-Active
Los Angeles	Bureau of Land Management ILF Mitigation Program	Pending
Los Angeles	Desert Foothills Land Trust ILF Mitigation Program	Approved-Active
Los Angeles	La Paz County Endangered Species Fund 290	Approved-Active
Los Angeles	Maricopa County Parks and Recreation Dept. ILF Program	Approved-Active
Los Angeles	McDowell-Sonoran Conservancy ILF Mitigation Program	Approved-Active
Los Angeles	National Audubon Society ILF Mitigation Program	Approved-Active
Los Angeles	Prescott Creeks Preservation Association ILF Mitigation Program	Pending
Los Angeles	Superstition Area Land Trust ILF Mitigation Program	Approved-Active
Los Angeles	Tucson Audubon Society ILF Mitigation Program	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State****Arkansas***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Little Rock	Hartman Bottoms Wetland Mitigation Bank	Approved-Active
Little Rock	Little Red River Mitigation Bank	Approved-Active
Memphis	Brushy Lake Mitigation Bank	Approved-Active
Memphis, Little Rock, Vicksburg	Glaise Creek Mitigation Bank	Approved-Active
Vicksburg	Albemarle Corporation	Approved-Active
Vicksburg	Dorcheat Bayou Mitigation Bank	Pending
Vicksburg	Lower Delta Mitigation Bank Site	Approved-Active
Vicksburg	Middle Ouachita River Mitigation Bank Site	Approved-Active

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Memphis, Vicksburg, Little Rock	Arkansas State-Sponsored Wetlands Mitigation Bank	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Vicksburg	Delta Environmental Land Trust Association Program	Approved-Inactive

**California***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Los Angeles	Barry Jones Wetland Mitigation Bank	Approved-Active
Los Angeles	Commander, Navy Region Southwest Eelgrass Mitigation Bank	Pending
Los Angeles	Los Carneros Mitigation Bank	Approved-Soldout
Los Angeles	Navy Region Southwest Eelgrass Mitigation Bank	Pending
Los Angeles	Pilgrim Creek Mitigation Bank	Approved-Inactive-Other Reason
Los Angeles	Rancho Jamul Mitigation Bank	Approved-Active
Los Angeles	Santa Ana River Wetland Mitigation Bank	Approved-Soldout
Los Angeles	Swansea Mitigation Bank	Pending
Sacramento	Beach Lake Mitigation Bank	Approved-Active
Sacramento	Clay Station Mitigation Bank	Approved-Inactive-Suspended
Sacramento	Cottonwood Creek Mitigation Bank	Approved-Soldout
Sacramento	Dove Ridge	Pending
Sacramento	Laguna Creek Mitigation Bank	Approved-Active
Sacramento	North Suisun Mitigation Bank	Pending
Sacramento	Stillwater Plains Mitigation Bank	Approved-Active
Sacramento	Wildlands Mitigation Bank	Approved-Soldout
Sacramento, San Francisco	Kimball Island Mitigation Bank	Approved-Active
San Francisco	Anderson	Pending
San Francisco	Balletto	Pending
San Francisco	Beretta	Pending
San Francisco	Billingmeier/ La Monte	Pending
San Francisco	Bracut Marsh Mitigation Bank	Approved-Soldout

San Francisco	Burdell Mitigation Bank	Approved-Active
San Francisco	Carinalli-Todd	Pending
San Francisco	Christensen/Lounibos	Pending
San Francisco	Coconas	Pending
San Francisco	Crane Canyon	Pending
San Francisco	DeAngelis	Pending
San Francisco	Deepwater Slough Island	Pending
San Francisco	Desmond Bank	Approved-Active
San Francisco	Engel	Approved-Soldout
San Francisco	Fay Slough Mitigation Bank	Pending
San Francisco	Gridley	Pending
San Francisco	Hale Bank	Approved-Active
San Francisco	Hazel Mitigation Bank	Pending
San Francisco	Horn Avenue Mitigation Bank	Pending
San Francisco	Hunter Lane	Pending
San Francisco	Laguna Carinalli Mitigation Bank	Approved-Soldout
San Francisco	Laguna Valley	Approved-Active
San Francisco	Likins	Pending
San Francisco	Lourdis	Pending
San Francisco	Ludwig (Avenue)	Pending
San Francisco	McDowell	Pending
San Francisco	Morrison	Pending
San Francisco	Muelrath	Pending
San Francisco	Newark Slough	Pending
San Francisco	North Suisun	Pending
San Francisco	Pajaro River	Pending
San Francisco	Palmerton	Pending
San Francisco	Pittman	Pending
San Francisco	River Road	Pending
San Francisco	Rogers Bank/ East Railroad	Pending
San Francisco	Sass	Pending
San Francisco	Sonoma Airport Mitigation Bank/Phase II (Duran)	Approved-Soldout
San Francisco	Southwest Santa Rosa Vernal Pool Preservation Bank	Approved-Soldout
San Francisco	Suisun Marsh NHA	Pending
San Francisco	Sunland	Pending
San Francisco	Vachini	Pending
San Francisco	Wikiup Mitigation Bank	Approved-Soldout
San Francisco	Wright Preservation Bank	Approved-Soldout
San Francisco	Yuba Drive Mitigation Bank	Approved-Soldout

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Los Angeles	California Dept. of Fish and Game ILF Mitigation Program	Pending
Los Angeles	Calleguas Creek Watershed In-Lieu-Fee Program	Approved-Active
Los Angeles	Los Angeles County Aquatic Resource In-Lieu-Fee Mitigation Program	Approved-Active
Los Angeles	Mountains Restoration Trust ILF Program	Approved-Active
Los Angeles	San Gabriel River Watershed Resources ILF Program	Approved-Active
Los Angeles	Santa Margarita Arundo Control Fund In-Lieu-Fee Mitigation Program	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State**

Los Angeles	Ventura River Watershed Habitat Restoration Fund	Approved-Active
Sacramento	Sacramento Corps District Program	Approved-Inactive-Suspended
Sacramento	Sacramento County In-Lieu-Fee Program	Approved-Active
South Pacific, Sacramento	National Fish and Wildlife Foundation In-Lieu-Fee Program	Approved-Active

**Colorado***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Albuquerque, Omaha	Limon Bank	Approved-Active
Omaha	Chatfield	Approved-Active
Omaha	Marshall Mitigation Bank	Approved-Inactive-Other Reason
Omaha	Middle South Platte River Wetland Mitigation Bank	Approved-Active
Omaha	Mile High Wetland Bank	Approved-Active
Omaha	Riverdale Mitigation Bank	Approved-Active
Omaha	Rocky Flats Mitigation Bank	Approved-Active
Omaha	Warm Springs Wetland Mitigation Bank	Approved-Active
Sacramento	FingerRock Wetland Mitigation Bank	Approved-Active
Sacramento	Mesa County Wetland Mitigation Bank	Pending
Sacramento	Rocky Mountain Institute Wetland Mitigation Bank	Approved-Active
Sacramento	Spring Water Ranch Wetland Mitigation Bank	Approved-Active
Sacramento	Western Gravel Wetland Mitigation Bank	Pending
Sacramento	WetBank -- Gunnison	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Sacramento	Sacramento Corps District Program	Approved-Inactive-Suspended
South Pacific, Sacramento	National Fish and Wildlife Foundation In-Lieu-Fee Program	Approved-Active

**Delaware***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Philadelphia	Glenville Mitigation Bank	Pending
Philadelphia	Poplar Hill Mitigation Bank	Pending

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Philadelphia	The Nature Conservancy -- Delaware Region	Pending

**Florida***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Jacksonville	American Equities Mitigation Land Bank at Reedy Creek	Approved-Active
Jacksonville	Barberville Conservation Area Mitigation Bank	Approved-Active
Jacksonville	Bear Point Mitigation Bank	Approved-Active
Jacksonville	Big Cypress Mitigation Bank	Approved-Active

Jacksonville	Bluefield Ranch Mitigation Bank	Approved-Active
Jacksonville	Boran Ranch Mitigation Bank	Approved-Active
Jacksonville	Breakfast Point Mitigation Bank	Approved-Active
Jacksonville	CGW Mitigation Bank	Approved-Active
Jacksonville	Cheval Tournament Players Club	Approved-Active
Jacksonville	Clear Spring Mitigation Bank	Approved-Active
Jacksonville	Colbert-Cameron Mitigation Bank	Approved-Active
Jacksonville	Corkscrew Regional Mitigation Bank	Approved-Active
Jacksonville	Devil's Swamp Mitigation Bank	Approved-Active
Jacksonville	East Central Florida Regional Mitigation Bank	Approved-Active
Jacksonville	Everglades Mitigation Bank- Phase I	Approved-Active
Jacksonville	Everglades Mitigation Bank/Phase II (FPL)	Approved-Active
Jacksonville	Farmton Mitigation Bank	Approved-Active
Jacksonville	Florida Mitigation Bank	Approved-Active
Jacksonville	Florida Wetlands Bank	Approved-Soldout
Jacksonville	Garcon Peninsula Mitigation Bank	Approved-Active
Jacksonville	Graham Swamp Mitigation Bank	Approved-Active
Jacksonville	Hillsborough County Utilities Dept. Mitigation Bank	Approved-Active
Jacksonville	Hole in the Donut/Everglades National Park	Approved-Active
Jacksonville	Lake Louisa and Green Swamp	Approved-Active
Jacksonville	Lake Monroe Mitigation Bank	Approved-Active
Jacksonville	Little Pine Island Mitigation Bank	Approved-Active
Jacksonville	Loblolly	Approved-Active
Jacksonville	Longleaf Mitigation Bank	Approved-Active
Jacksonville	Loxahatchee Mitigation Bank	Approved-Active
Jacksonville	Marion I Sustainable Mitigation Project	Approved-Active
Jacksonville	Mary A Ranch Mitigation Bank	Approved-Active
Jacksonville	Myakka Mitigation Bank	Approved-Active
Jacksonville	Northeast Florida Mitigation Bank	Approved-Active
Jacksonville	Northlakes Park Mitigation Bank	Approved-Active
Jacksonville	Panther Island Mitigation Bank	Approved-Active
Jacksonville	Platt's Creek Mitigation Bank	Approved-Active
Jacksonville	Polk Parkway Bank	Approved-Active
Jacksonville	Polk Regional Drainage Project Bank	Approved-Active
Jacksonville	Port Orange Mitigation Bank	Approved-Active
Jacksonville	R.G. Reserve Mitigation Bank	Approved-Active
Jacksonville	RMK Timberland Wetland Mitigation Bank	Pending
Jacksonville	San Pedro Bay Mitigation Bank	Approved-Active
Jacksonville	Sand Hill Lakes Mitigation Bank	Pending
Jacksonville	Southeast Mitigation Bank	Approved-Active
Jacksonville	Split Oak Mitigation Bank	Approved-Soldout
Jacksonville	Sundew Mitigation Bank	Approved-Active
Jacksonville	Tampa Bay Wetland Bank	Approved-Active
Jacksonville	TM-Econ Mitigation Bank	Approved-Active
Jacksonville	Tosohatchee Mitigation Bank	Approved-Active
Jacksonville	Treasure Coast Mitigation Bank	Approved-Active
Jacksonville	Treyburn/Collier Mitigation Bank	Approved-Active
Jacksonville	Tupelo Mitigation Bank	Approved-Active
Jacksonville	Turner Citrus, Inc.	Approved-Active
Jacksonville	Weisenfeld Mitigation Bank	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State**

Jacksonville	Wekiva River Mitigation Bank	Approved-Active
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***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Jacksonville	Florida Audubon Society In-Lieu-Fee Program	Approved-Active
Jacksonville	Florida Department of Transportation In-Lieu-Fee Program	Approved-Active

**Georgia**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Savannah	Alaculsy	Approved-Active
Savannah	Banks County Georgia Department of Transportation Bank	Approved-Active
Savannah	Bazemore Mitigation Bank	Approved-Active
Savannah	Big Cotton Indian Creek	Approved-Active
Savannah	Big Creek	Approved-Active
Savannah	Bill Preston Tract	Pending
Savannah	Black Creek Mitigation Bank	Pending
Savannah	Bowen Mill Pond Mitigation Bank	Approved-Soldout
Savannah	Brier Creek Mitigation Bank	Pending
Savannah	Broadfield Mitigation Bank	Pending
Savannah	Broxton Rocks	Approved-Active
Savannah	Burke County Mitigation Bank	Approved-Soldout
Savannah	Callaway Farms Mitigation Bank	Approved-Active
Savannah	Cecil Bay/Heart Pine Pond Mitigation Bank	Approved-Active
Savannah	Chattahoochee Mitigation Bank	Approved-Active
Savannah	Cherry Creek Mitigation Bank	Approved-Active
Savannah	Clayton Mitigation Bank	Pending
Savannah	Clifton Golf Course	Approved-Active
Savannah	Conasauga River	Approved-Active
Savannah	Etowah River Mitigation Preserve	Approved-Active
Savannah	Etowah River Stream Mitigation Bank	Approved-Active
Savannah	Etowah Terrace Stream Mitigation Bank	Pending
Savannah	Flint River Basin Mitigation Bank	Approved-Active
Savannah	Flint River Mitigation Bank	Pending
Savannah	Fort Stewart Mitigation Bank	Approved-Active
Savannah	Georgia Stream	Pending
Savannah	Gumlog Mitigation Bank	Pending
Savannah	Hartsfield Atlanta Airport Mitigation Bank	Approved-Active
Savannah	Hog Creek Mitigation Creek	Pending
Savannah	Indian Creek Wetland Mitigation Bank	Approved-Active
Savannah	Jay Nikkel Mitigation Bank	Pending
Savannah	Jerome Crosby Wetland Mitigation Bank	Pending
Savannah	Jewett/Tucker	Approved-Active
Savannah	Jones Pond Mitigation Bank	Pending
Savannah	Kerr-McGee Mitigation Bank	Pending
Savannah	Kolomoki	Approved-Active
Savannah	Legacy Farms Stream Mitigation Bank	Pending
Savannah	LK Brenau Mitigation Bank	Pending
Savannah	Magnolia Swamp	Approved-Active
Savannah	Marshlands Plantation, Inc. Mitigation Bank	Approved-Active

Savannah	Middle Oconee	Approved-Active
Savannah	Millhaven Mitigation Bank	Approved-Active
Savannah	Monastery of the Holy Ghost Mitigation Bank	Approved-Active
Savannah	Montezuma Mitigation Site	Approved-Active
Savannah	Moreland Place Bottom Mitigation Bank	Approved-Active
Savannah	Muckalee Creek Bank	Pending
Savannah	Mulberry River Mitigation Bank	Approved-Active
Savannah	Mundy	Approved-Active
Savannah	Musket Bay	Approved-Active
Savannah	Offerman	Approved-Active
Savannah	Ogeechee River Mitigation Bank	Approved-Active
Savannah	Ohoopee River	Approved-Active
Savannah	Old Thorn Pond Mitigation Bank	Approved-Active
Savannah	Oostanaula River	Approved-Active
Savannah	Phinizy Swamp Wetland Mitigation Bank (Merry Land Brickyard)	Approved-Active
Savannah	Pierpoint Mitigation Bank	Pending
Savannah	Pine South Wetland Mitigation Bank	Approved-Active
Savannah	Plum Creek Bank	Pending
Savannah	Prater Island Mitigation Bank	Approved-Active
Savannah	Pritchett Mitigation Bank	Approved-Active
Savannah	Raccoon Creek Bank	Pending
Savannah	Raleigh Joyce Tract Wetland Mitigation Bank	Approved-Active
Savannah	Ray Moorman Bank	Pending
Savannah	Riverpoint Mitigation Bank	Pending
Savannah	Roger Price Mitigation Bank	Pending
Savannah	Satilla River Wetland Mitigation Bank	Approved-Active
Savannah	South River Bank	Pending
Savannah	Spirit Creek Mitigation Bank	Pending
Savannah	Stuckey Bank	Pending
Savannah	Towaliga River Mitigation Bank	Pending
Savannah	White Creek Mitigation Bank	Pending
Savannah	Wilkinson-Oconee	Approved-Active
Savannah	Yellow Creek	Approved-Active
Savannah	Yonah Mountain Mitigation Bank	Pending

#### *Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Savannah	The Streambank (North Georgia Regional Rivers & Streams Mitigation Project)	Approved-Active

#### *In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Savannah	Georgia Environmental Policy Institute Program	Approved-Active

### **Idaho**

#### *Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Walla Walla	Boise River Wetland Mitigation Bank	Pending
Walla Walla	Georgetown Mitigation Bank	Approved-Active
Walla Walla	Old Beaver Mitigation Bank	Approved-Active



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**APPENDIX A: Banks, ILFs and Umbrella Programs by State**

Walla Walla	Valencia Wetland Mitigation Bank	Approved-Inactive- Other Reason
Walla Walla	Wetlands Northwest Wetland Mitigation Bank	Pending

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Walla Walla	Idaho Fish and Wildlife Foundation In-Lieu-Fee Program	Pending

**Illinois**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Chicago	Bank 1 (Wetlands Research, Inc.)	Approved-Active
Chicago	Bank 2 (Wetlands Research, Inc.)	Approved-Soldout
Chicago	Big Sag Wetland Conservancy	Approved-Active
Chicago	Butterfield Road Wetland Mitigation Bank	Approved-Soldout
Chicago	Cornerstone	Approved-Soldout
Chicago	Cricket Creek	Approved-Soldout
Chicago	Delaney Road	Approved-Active
Chicago	Des Plaines - Towpath Canal Wetland Mitigation Bank	Approved-Active
Chicago	Downer's Grove	Approved-Soldout
Chicago	Ferson Creek Wetland Bank	Approved-Soldout
Chicago	Girl Scout Sybaquay Council Mitigation Bank	Approved-Active
Chicago	Hanover Park Mitigation Area	Approved-Soldout
Chicago	Jelkes Creek	Approved-Active
Chicago	Kishwaukee River Bottoms Wetland Mitigation Bank	Approved-Active
Chicago	Knollwood Mitigation Bank	Approved-Soldout
Chicago	Lily Cache	Approved-Active
Chicago	LRH Partnership Marengo Mitigation Bank	Approved-Active
Chicago	Metra Mitigation Bank	Approved-Active
Chicago	Mink Creek	Approved-Active
Chicago	North Glen Ellyn	Approved-Soldout
Chicago	Otter Creek Mitigation Bank	Approved-Soldout
Chicago	Prairie Creek	Approved-Inactive- Other Reason
Chicago	Red Wing Slough	Approved-Active
Chicago	Sauk Trail Wetland Mitigation Bank	Approved-Active
Chicago	Slough Creek Wetland Mitigation Bank	Approved-Active
Chicago	Squaw Creek	Approved-Active
Chicago	V3 Blackberry Creek Mitigation Bank	Approved-Active
Chicago	Winfield Creek	Approved-Inactive- Other Reason
Rock Island	Dekalb County Forest Preserve	Approved-Active
Rock Island	Kilbuck Creek Wetland Mitigation Bank	Approved-Active
Rock Island	LaGrange Wetland Bank	Approved-Active
Rock Island	Morris Wetland Bank	Approved-Active
Rock Island	Northern Illinois Wetland LLC	Approved-Active
Rock Island	Wetlands Mitigation of Illinois, LLC	Pending
St. Louis	Crooked Creek Wetland and Stream Mitigation Bank	Pending
St. Louis	Indian Creek Wetland Mitigation Bank	Approved-Active
St. Louis	Madison County Wetland Mitigation Bank	Approved-Active

St. Louis	Richland Creek Wetland Mitigation Bank	Approved-Active
St. Louis	Southern Illinois Wetland Mitigation Bank	Approved-Active
St. Louis	Sugar Camp Creek	Pending

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Chicago	Chicago Corps District Program	Approved-Inactive
Chicago	DuPage County In-Lieu-Fee Program	Approved-Active

**Indiana**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Detroit	Lake Station Wetland Mitigation Bank	Approved-Active
Louisville	Geist Reservoir Mitigation Bank	Approved-Soldout
Louisville	Morse Reservoir Wetland Mitigation Bank	Approved-Soldout
Louisville	Schroeder Mitigation Bank	Approved-Active
Louisville	Wolfe Mitigation Bank	Approved-Inactive-Other Reason

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Detroit	Ducks Unlimited Detroit District In-Lieu-Fee Program	Pending

**Iowa**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Rock Island	Carlisle Wetland Mitigation Bank	Pending
Rock Island	Coulthard Trust A Wetland Mitigation Bank	Pending
Rock Island	G. William Coulthard Wetland Mitigation Bank	Approved-Active
Rock Island	Iowa Wetland Mitigation Bank (Coulter Marsh Agricultural Wetland Mitigation Bank)	Approved-Active

**Kansas**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Kansas City	Johnson County Wetlands Mitigation Bank	Approved-Active

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Kansas City	In-Lieu-Fee Mitigation Trust Fund	Pending
Kansas City	Kansas Aquatic Resources Trust Fund	Pending

**Kentucky**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Louisville	G & L Mitigation Bank	Approved-Active
Louisville	Nelson County Wetland Mitigation Bank Number One	Approved-Active
Louisville	Northern Kentucky Wetland Mitigation Bank Wolf Road Property	Pending
Louisville	Pond Creek Water Storage/Wetland Mitigation Bank	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State**

Louisville	Wetland Bank of Kentucky (Hawkings Bank)	Approved-Inactive-Suspended
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*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Louisville	CreekBankers, Inc.	Approved-Active
Louisville	TECO Coal Corp.	Pending
Louisville	Mitigation Specialist, LLC Program	Pending

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Huntington, Louisville, Nashville	In-Lieu-Fee Program for Stream and Wetland Mitigation	Approved-Active
Louisville	Louisville and Jefferson County Metropolitan Sewer District Program	Approved-Active
Louisville	Northern Kentucky University In-Lieu-Fee Program	Approved-Active

**Louisiana**
*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
New Orleans	Abita	Approved-Inactive-Other Reason
New Orleans	ALC I	Approved-Active
New Orleans	Aurore Ranch	Pending
New Orleans	Bad Bayou	Approved-Active
New Orleans	Baldwin Mitigation Bank	Pending
New Orleans	Barnes Creek	Approved-Soldout
New Orleans	Bayou Choctaw Wetlands Mitigation Area	Approved-Soldout
New Orleans	Bayou Cholpe	Approved-Soldout
New Orleans	Bayou Courtableau	Approved-Active
New Orleans	Bayou Grand Coteau	Approved-Active
New Orleans	Bayou Jack	Approved-Soldout
New Orleans	Bayou Lacache	Approved-Soldout
New Orleans	Bayou Lacombe Wet Hardwood Flats and Pine Flatwoods/Savanna Wetlands Mitigation Bank	Approved-Active
New Orleans	Bayou Paul Mitigation Bank	Pending
New Orleans	Bayou Pelton Mitigation Area	Approved-Active
New Orleans	Bayou Teche	Approved-Active
New Orleans	Bayou Tortue	Approved-Active
New Orleans	Bayou Waukscha Mitigation Bank	Pending
New Orleans	Bazaar Farm	Approved-Inactive-Failed
New Orleans	Bear Country	Approved-Soldout
New Orleans	Bear Island Mitigation Bank	Pending
New Orleans	Bercham Mitigation Area	Approved-Soldout
New Orleans	Berkeley Wetlands Mitigation Area	Approved-Soldout
New Orleans	Big Cane	Approved-Soldout
New Orleans	Bill Jackson Longleaf Savanna Mitigation Bank	Approved-Active
New Orleans	Bivouac Plantation	Approved-Soldout
New Orleans	Bluff Swamp	Approved-Soldout
New Orleans	Bruce Plauche Mitigation Area	Approved-Active
New Orleans	Bryan Farm Mitigation Area	Approved-Active

New Orleans	Burns Point Mitigation Bank	Pending
New Orleans	Cameron Creole Mitigation Bank	Pending
New Orleans	CC Road Savannas - Cole Tract	Approved-Active
New Orleans	Chef Menteur Pass Mitigation Area	Pending
New Orleans	Cholpe Acres Wetland Mitigation Area	Approved-Active
New Orleans	Choupique	Approved-Soldout
New Orleans	Clear Creek Longleaf Savanna Mitigation Bank	Approved-Soldout
New Orleans	Clinton Mitigation Bank	Approved-Soldout
New Orleans	Cooper Tract	Approved-Active
New Orleans	Cypress Island	Approved-Soldout
New Orleans	Dejean and Soileau (BLH) & (CYP)	Approved-Soldout
New Orleans	East Feliciana Mitigation Bank	Approved-Soldout
New Orleans	(Elliot) Mitigation Bank	Pending
New Orleans	Erwinville	Approved-Active
New Orleans	Galliano	Approved-Soldout
New Orleans	Glad-Lin Mitigation Site	Approved-Active
New Orleans	Grand Caillou Coastal Mitigation Bank	Pending
New Orleans	Greenwood Mitigation Area	Approved-Active
New Orleans	Guillory Mitigation Area	Pending
New Orleans	Gulf Coast S&W Cons. Dist.	Approved-Soldout
New Orleans	Gum Cove	Approved-Active
New Orleans	Guste Tract	Pending
New Orleans	Head of Island Mitigation Bank	Pending
New Orleans	High Point Wetlands Mitigation Area	Approved-Active
New Orleans	Houston River	Approved-Active
New Orleans	Hubbard	Approved-Soldout
New Orleans	John E. Chance	Approved-Soldout
New Orleans	Lacassane Coastal Prairie Mitigation Bank	Approved-Active
New Orleans	Lafourche Crossing	Approved-Soldout
New Orleans	Lagarde Tract Mosella Plantation Jeansonne Property	Pending
New Orleans	Lago Espanol	Approved-Active
New Orleans	Lake Long Mitigation Bank	Pending
New Orleans	Lake Ramsey	Approved-Inactive- Other Reason
New Orleans	Lonesome Dove	Approved-Active
New Orleans	Long Petroleum Terracing Mitigation Bank	Pending
New Orleans	Lower Vacherie Mitigation Area	Approved-Active
New Orleans	Matirne Mitigation Bank	Pending
New Orleans	Money Hill Pine Flatwood/Savanna Mitigation Bank	Approved-Active
New Orleans	Morrow	Approved-Soldout
New Orleans	Ogile Duplechin	Approved-Active
New Orleans	Palmetto Bayou Mitigation Bank	Pending
New Orleans	Paradis Mitigation Bank	Approved-Active
New Orleans	Petit Bois Mitigation Bank	Pending
New Orleans	Point Au Chien WMA	Approved-Soldout
New Orleans	Powell Lumber Company	Approved-Soldout
New Orleans	Profit Island Mitigation Bank	Pending
New Orleans	Redwood Creek Mitigation Bank	Pending
New Orleans	Riverside Coastal Mitigation Lands	Approved-Active
New Orleans	Rockefeller Refuge Bank	Approved-Active
New Orleans	Sawgrass Bayou Mitigation Area	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State**

New Orleans	Sherburne WMA	Approved-Soldout
New Orleans	Simon and Delaney	Approved-Soldout
New Orleans	Smithport Mitigation Area	Approved-Active
New Orleans	St. Landry Parish Mitigation Site	Approved-Active
New Orleans	Stream Property - Isolated Marsh	Approved-Active
New Orleans	Supple's Wetlands Mitigation Bank	Approved-Active
New Orleans	Texada Mitigation Area	Approved-Active
New Orleans	Timberton Mitigation Bank	Pending
New Orleans	Tunica Swamp - Silos Mitigation Area	Approved-Active
New Orleans	Upper Bayou Folse Mitigation Bank	Pending
New Orleans	Welcome Mitigation Bank	Approved-Active
New Orleans	West Bayou Jack Addendum	Approved-Soldout
New Orleans	William D. Blake Longleaf Savannah Mitigation Bank	Pending
New Orleans	Wolf Creek	Approved-Soldout
Vicksburg	Belle Cherri	Approved-Active
Vicksburg	Cross and Company	Approved-Active
Vicksburg	Cross Bayou Mitigation Bank	Approved-Active
Vicksburg	Honey Island Swamp Mitigation Bank	Approved-Active
Vicksburg	Red River Mitigation Bank	Approved-Active
Vicksburg	Springhill	Pending

***Umbrella Banking Agreements***

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
New Orleans	Interagency Agreement: The Nature Conservancy Longleaf Pine Flatwood/Savanna Mitigation Banks	Approved-Inactive
New Orleans	Southeast Louisiana Pine Flatwood Wetland Mitigation Bank	Approved-Inactive

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
New Orleans	Louisiana Department of Natural Resources Program	Approved-Active
Vicksburg	Delta Environmental Land Trust Association Program	Approved-Inactive

**Maine**
***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
New England	Maine Department of Environmental Protection Program	Uncertain

**Maryland**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Baltimore	Bryantown Mitigation Site	Approved-Soldout
Baltimore	Middle Patuxent River Revitalization Project	Approved-Inactive-Other Reason

***Umbrella Banking Agreements***

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Baltimore	Prince George's County Wetland Banking System	Approved-Inactive

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Baltimore	Maryland Department of Environment Program	Approved-Active

**Massachusetts**
*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
New England	Massachusetts Pilot Wetlands Banking Project	Active-State Authorized

**Michigan**
*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Detroit	Huron Wetland Bank	Approved-Active
Detroit	Kawkawlin Watershed Wetland Bank	Approved-Active
Detroit	Parma Wetland Bank	Approved-Active

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Detroit	Michigan DOT Umbrella Agreement	Approved-Active
Detroit	Wayne County Wetland Mitigation Bank	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Detroit	Ducks Unlimited Detroit District In-Lieu-Fee Program	Pending

**Minnesota**
*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
St. Paul	Minnesota Wetland Bank	Approved-Active

**Mississippi**
*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Mobile	Buttahatchie River Mitigation Bank	Pending
Mobile	Crane Creek Mitigation Bank	Approved-Active
Mobile	Deaton Mitigation Bank	Approved-Soldout
Mobile	Hickory Creek Mitigation Bank	Approved-Inactive-Other Reason
Mobile	Mississippi Wetlands Bank	Approved-Active
Mobile	Mississippi Wetlands George County Mitigation Bank	Approved-Active
Mobile	Murphrey Evans Mitigation Bank	Pending
Mobile	Old Fort Bayou Mitigation Bank	Approved-Active
Mobile	Red Creek Mitigation Bank	Pending
Mobile	Rhodes Lake Mitigation Bank	Approved-Inactive-Other Reason
Vicksburg	Big Black Mitigation Bank	Pending
Vicksburg	Pearl River Mitigation Bank	Approved-Active
Vicksburg	Stennis Space Center Mitigation Bank	Approved-Active
Vicksburg, Memphis	Delta Mitigation Bank	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State***Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Mobile,	South Mississippi Mitigation Bank	Approved-Active
Vicksburg		
Vicksburg	Argyle, Inc. Mitigation Banking Program Agreement	Approved-Inactive
Vicksburg	Mississippi Band of Choctaw Indians Mitigation Banking Program Agreement	Approved-Active
Vicksburg	Mississippi Highway Department Mitigation Bank	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Vicksburg	Delta Environmental Land Trust Association Program	Approved-Inactive

**Missouri***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Kansas City	Osage Plains Wetland and Stream Mitigation Bank	Pending
Memphis, Little Rock	Southeast Missouri Agricultural Wetland Mitigation Bank	Approved-Active
Memphis, Little Rock, St. Louis	Missouri DOT Bootheel Regional Mitigation Bank	Approved-Active
St. Louis	Big Rivers Wetland Mitigation Bank	Approved-Active
St. Louis	Fox Creek Stream Mitigation Bank	Approved-Active
St. Louis	Gravois Creek Stream Mitigation Bank	Pending
St. Louis	Little Dardenne Creek Stream Mitigation Bank	Pending
St. Louis	Lower Missouri River Mitigation Bank	Approved-Active
St. Louis	Peruque Creek Wetland and Stream Mitigation Bank	Pending
St. Louis	Rosedale Wetland Mitigation Bank	Approved-Active
St. Louis	Westwinds Wetland Mitigation Bank	Approved-Active

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Kansas City, St. Louis, Memphis, Little Rock, Rock Island	Missouri DOT Umbrella Wetland and Stream Mitigation Banking Instrument	Pending

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Kansas City, St. Louis, Little Rock, Memphis	Stream Stewardship Trust Fund	Approved-Active

**Montana***In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Omaha	Montana Wetlands Legacy	Approved-Active

**Nebraska***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Omaha	Blue Heron Wetland Mitigation Bank	Approved-Active

Omaha	City of Lincoln Wetland Mitigation Bank	Approved-Active
Omaha	Hobson Yard Wetland Mitigation Bank	Approved-Active
Omaha	North Platte Wetland Mitigation Bank	Approved-Active

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Omaha	Nebraska Department of Roads Wetland Mitigation Bank	Approved-Active
Omaha	Papio-Missouri River Natural Resources District Wetland (Umbrella) Agreement	Approved-Active

**Nevada**

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Sacramento	Clark County Mitigation Bank	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Sacramento	Sacramento Corps District Program	Approved-Inactive-Suspended
South Pacific, Sacramento	National Fish and Wildlife Foundation In-Lieu-Fee Program	Approved-Active

**New Jersey**

*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
New York	Bog Brook Wetlands Enhancement Bank	Approved-Soldout
New York	C&C Builders Wetland Mitigation Bank Phase I	Approved-Active
New York	Marsh Resources Inc. Meadowlands Mitigation Bank	Approved-Active
New York	Pio Costa Wetlands Mitigation Bank	Approved-Active
New York	Rancocas Wetland Mitigation Bank Phase I	Approved-Active
New York	Vivian Chimento Wetland Mitigation Bank	Approved-Soldout
New York	Willow Grove Lake Wetlands Mitigation Bank	Approved-Active
New York	Woodbury Creek Wetlands Mitigation Bank	Approved-Inactive-Other Reason
New York	Wyckoff's Mills Wetland Mitigation Bank	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
New York	New Jersey Wetlands Mitigation Council Program	Approved-Active

**New York**

*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Buffalo	D.G. Marfurt Wetland Mitigation Bank	Pending
Buffalo	Grand River Lowlands and Cherry Valley Mitigation Sites	Approved-Active
Buffalo	Rochester's Cornerstone Group-Rochester International Commerce Center Wetland Mitigation Bank	Approved-Active
Buffalo	Tonawanda Creek Mitigation Bank	Pending
New York	Fort Drum Mitigation Bank	Approved-Active



**North Carolina**
*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Wilmington	Barra Farms Cape Fear Regional Mitigation Bank	Approved-Active
Wilmington	Bear Creek - Sleepy Creek Mitigation Bank	Pending
Wilmington	Bear Creek Mill Branch Mitigation Bank	Approved-Active
Wilmington	Croatan Wetlands Mitigation Bank	Approved-Active
Wilmington	Deep Creek Mitigation Bank	Pending
Wilmington	Deep Creek Wetland Mitigation Bank	Approved-Active
Wilmington	Fisher River Wetland Mitigation Bank	Approved-Active
Wilmington	Flat Swamp Wetland Mitigation and Stream Restoration Bank	Approved-Active
Wilmington	Greater Sandy Run Mitigation Bank	Approved-Active
Wilmington	Hidden Lake Wetland Mitigation Bank	Approved-Inactive-Other Reason
Wilmington	Hoffman Forest Wetland Mitigation Bank	Approved-Active
Wilmington	Pott Creek Mitigation Bank	Pending
Wilmington	Scuppernong River Corridor Wetland Mitigation Bank	Approved-Soldout
Wilmington	Sides Mitigation Bank	Pending
Wilmington	Tar-Pam Wetland and Stream Mitigation Bank	Pending
Wilmington	Vann Swamp Mitigation Bank	Pending

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Wilmington	Charlotte Umbrella Stream and Wetland Mitigation Bank	Approved-Active
Wilmington	Louis Berger Wetland Bank	Pending
Wilmington	Neu-Con Umbrella Mitigation Bank	Approved-Active
Wilmington, Norfolk	Great Dismal Swamp Restoration Bank Umbrella MOA	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Wilmington	North Carolina Dept. of Environment and Natural Resources Program	Approved-Active

**Ohio**
*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Buffalo	Sandy Ridge Mitigation Site	Approved-Soldout
Buffalo	Three Eagles Mitigation Site	Approved-Active
Buffalo	Trumbull Creek Mitigation Site	Approved-Active
Huntington	Big Island	Approved-Soldout
Huntington	Crystal Springs Mitigation Bank	Pending
Huntington	Hebron Mitigation Bank	Approved-Soldout
Huntington	Little Scioto Mitigation Bank - Phase II	Approved-Active
Huntington	Little Scioto River Mitigation Bank	Approved-Active
Huntington	Panzner Wetland Wildlife Reserve Mitigation Bank	Approved-Active
Huntington	Redstone Farm Wetland Mitigation Bank	Pending
Huntington	Shannon Valley	Pending
Huntington	Slate Run Mitigation Site	Approved-Soldout

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Buffalo, Huntington	North Coast Regional Wetland and Stream Mitigation Bank	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Huntington	Ohio Wetlands Corporation In-Lieu-Fee Program (Lake Choctaw)	Approved-Inactive
Huntington	Singer Lake Bog In-Lieu-Fee Program	Approved-Inactive
Huntington	Sugar Creek Wetland/Watershed ILF Mitigation Initiative	Approved-Active

**Oklahoma**
*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Tulsa	Excel Mitigation Center	Approved-Active

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Tulsa	Memorandum of Agreement for the Development and Use of Wetlands Mitigation Banks	Approved-Active

**Oregon**
*Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Portland	Amazon Creek Mitigation Bank	Approved-Active
Portland	Astoria Airport Mitigation Bank	Approved-Active
Portland	Cow Hollow	Approved-Active
Portland	Don Wilbur	Pending
Portland	East Fork Minnow Creek	Pending
Portland	Fernhill Mitigation Bank	Approved-Inactive-Other Reason
Portland	Foster Creek	Pending
Portland	Frazier Creek	Approved-Active
Portland	Marion Mitigation Bank	Approved-Inactive
Portland	Mid-Valley	Approved-Active
Portland	Mirror Lake	Pending
Portland	Mud Slough Wetland Mitigation Bank	Approved-Active
Portland	Oak Creek Mitigation Bank	Approved-Inactive
Portland	One Horse Slough	Pending
Portland	Quamash Prairie	Pending
Portland	Riverbend Landfill	Pending
Portland	Santiam River	Pending
Portland	Weathers' Wetland Mitigation Bank	Approved-Active
Portland	Winmar (Catellus) Mitigation Bank	Approved-Soldout

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Portland	West Eugene Wetlands Plan	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State***In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Portland	Oregon Department of State Lands Program	Approved-Active

**Pennsylvania***Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Baltimore	Interagency Agreement Advance Wetland Compensation PennDOT District 3-0	Approved-Active
Baltimore	Interagency Agreement Advance Wetland Compensation PennDOT District 9-0	Approved-Active
Baltimore, Pittsburgh	Interagency Agreement Advance Wetland Compensation PennDOT District 2-0	Approved-Active
Pittsburgh	Interagency Agreement Advance Wetland Compensation PennDOT District 12-0	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Baltimore, Philadelphia, Pittsburgh	Pennsylvania Wetland Replacement Project	Approved-Active

**South Carolina***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Charleston	Big Pine Tree Creek (South Carolina Dept. of Transportation)	Pending
Charleston	Black River Bottomland Hardwoods Mitigation Bank	Approved-Active
Charleston	Black River Mitigation Bank (South Carolina Dept. of Transportation)	Approved-Active
Charleston	Congaree Carton Mitigation Bank	Approved-Active
Charleston	Friends Neck Wetland Mitigation Bank	Approved-Inactive-Suspended
Charleston	Grove Creek Mitigation Bank	Approved-Active
Charleston	Huspa Creek Wetland Mitigation Bank (South Carolina Dept. of Transportation)	Approved-Active
Charleston	Playcard II Mitigation Bank	Approved-Active
Charleston	Playcard Mitigation Bank	Approved-Soldout
Charleston	Richland County Broad River Mitigation Bank	Approved-Active
Charleston	Sandhills Mitigation Bank	Approved-Active
Charleston	Sandy Island Mitigation Bank (South Carolina Dept. of Transportation)	Approved-Active
Charleston	Swallow Savannah Mitigation Bank	Approved-Active
Charleston	Sweetleaf Swamp Mitigation Bank	Approved-Active
Charleston	Vandross Bay Mitigation Bank	Approved-Soldout

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Charleston	Memorandum of Agreement for the Savannah River Site	Approved-Active

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Charleston	Beidler Forest In-Lieu-Fee Mitigation Program	Approved-Active
Charleston	Historic Ricefields Program	Approved-Active

**South Dakota**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Omaha	City of Sioux Falls Wetland Mitigation Bank	Pending

***Umbrella Banking Agreements***

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Omaha	Wetland Accounting System	Active-State Authorized

**Tennessee**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Memphis	Madison County Wetland Mitigation Bank	Approved-Active
Memphis	Obion Wetland Mitigation Bank Site Plan	Approved-Active
Memphis	PictSweet Stream and Wetland Bank	Pending
Memphis	Wolf River Wetland Mitigation Bank	Approved-Active
Nashville	Coffee County Wetland Mitigation Bank	Approved-Active
Nashville	Harpeth Wetland Mitigation Bank	Approved-Active
Nashville	Indian Creek Wetland Mitigation Bank	Approved-Active
Nashville	Shady Valley Wetland Mitigation Bank	Approved-Active

***Umbrella Banking Agreements***

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Memphis	Tennessee Dept of Transportation Umbrella Bank	Approved-Active

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Memphis, Nashville	Tennessee Stream Mitigation Program	Approved-Active

**Texas**
***Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Fort Worth	Anderson Tract Mitigation Bank	Approved-Active
Fort Worth	Big Woods on the Trinity River Mitigation Bank	Approved-Active
Fort Worth	Bunker Sands Mitigation Bank	Pending
Fort Worth	Byrd Tract Mitigation Bank	Approved-Active
Fort Worth	Hawkins Mitigation Bank	Approved-Active
Fort Worth	Hearts Bluff Mitigation Bank	Pending
Fort Worth	Klamm Mitigation Bank	Approved-Active
Fort Worth	Martin Creek Mitigation Bank	Pending
Fort Worth	Sabal Wetland Preserve Mitigation Bank	Approved-Active
Fort Worth	South Forks Trinity River Mitigation Bank	Pending
Fort Worth	Steele Creek Mitigation Bank	Approved-Active
Fort Worth	Trinity River Mitigation	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State**

Fort Worth	West Minola Mitigation Bank	Approved-Active
Fort Worth, Galveston	Pineywoods Mitigation and Conservation Area	Pending
Galveston	Bank 1 (Blue Elbow Swamp Mitigation Bank)	Approved-Active
Galveston	Bank 2 (Coastal Bottomlands Mitigation Bank)	Approved-Active
Galveston	Fennessey Ranch Wetland Mitigation Bank	Pending
Galveston	Greens Bayou Wetland Mitigation Bank	Approved-Active
Galveston	Katy Prairie Mitigation Bank	Pending
Galveston	Katy-Cypress Wetland Mitigation Bank	Approved-Active
Galveston	Neches River Cypress Swamp Preserve	Approved-Active
Galveston	Palacios Wetland Mitigation Bank	Approved-Inactive-Other Reason

***Umbrella Banking Agreements***

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Galveston	Temple-Inland Statewide Mitigation Bank	Pending

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Fort Worth	The Nature Conservancy Program	Approved-Active
Galveston	Spring Creek ILF Program	Pending

**Utah*****Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Sacramento	Bailey's Meadow Mitigation Bank	Approved-Active
Sacramento	Inland Sea Shorebird Reserve Bank	Approved-Active
Sacramento	Machine Lake Mitigation Bank	Pending
Sacramento	Rainey Mitigation Bank	Approved-Soldout
Sacramento	Seifert Mitigation Bank	Approved-Soldout
Sacramento	UDOT Region 2 Wetland Mitigation Bank	Pending
Sacramento	Warner Mitigation Bank	Approved-Inactive-Suspended

***In-Lieu-Fee Mitigation Programs***

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Sacramento	Sacramento Corps District Program	Approved-Inactive-Suspended
South Pacific, Sacramento	National Fish and Wildlife Foundation In-Lieu-Fee Program	Approved-Active

**Virginia*****Mitigation Banks***

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Norfolk	Appomattox Mitigation Bank	Approved-Active
Norfolk	Bannister Bend Mitigation Bank	Approved-Active
Norfolk	Blackjack Wetland Mitigation Bank	Approved-Active
Norfolk	Bull Run Wetlands Bank	Approved-Active
Norfolk	Burnley Farms Wetland Mitigation Bank	Approved-Active
Norfolk	Byrd Creek Wetland Mitigation Bank	Approved-Active
Norfolk	Cedar Run Wetlands Bank	Approved-Active

Norfolk	Chesapeake Land Development Tidal Mitigaiton Bank	Approved-Active
Norfolk	Chickahominy Environmental Bank	Approved-Active
Norfolk	City of Portsmouth Virginia Wetland Bank	Pending
Norfolk	Coverly Mitigation Bank	Approved-Active
Norfolk	Cypress Springs Mitigation Bank	Approved-Active
Norfolk	Dundee Mitigation Bank	Pending
Norfolk	Foggy Bottom Wetland Farm	Approved-Active
Norfolk	Great Oaks	Approved-Active
Norfolk	Halifax Farm Environmental Bank	Approved-Active
Norfolk	Hampton Roads Wetland (Compaz) Mitigation Bank	Pending
Norfolk	HHHunt Mitigation Bank	Pending
Norfolk	Highland Springs Mitigation Bank	Pending
Norfolk	James River Mitigation Landbank	Approved-Active
Norfolk	King William Mitigation Bank	Pending
Norfolk	Liesfield Wetland Mitigation Bank	Pending
Norfolk	Massaponax Mitigation Bank	Pending
Norfolk	Mattaponi Wetland Bank	Approved-Active
Norfolk	Mountain Run	Approved-Active
Norfolk	Neabsco Wetland Bank (Julie J. Metz)	Approved-Soldout
Norfolk	New Kent Environmental Bank	Approved-Active
Norfolk	New Kent Wetland Mitigation Bank	Approved-Active
Norfolk	North Fork Wetland Bank	Approved-Active
Norfolk	North Landing River Mitigation Bank	Pending
Norfolk	Northern Virginia Stream Restoration Bank	Pending
Norfolk	ODEC - Virginia Power Wetland Mitigation Bank	Approved-Active
Norfolk	Pristine Wetland Mitigation Bank	Pending
Norfolk	Rappahannock Mitigation Bank	Approved-Active
Norfolk	Richmond International Airport Wetland Mitigation Bank	Pending
Norfolk	Ritchie Road Mitigation Bank	Pending
Norfolk	Shenandoah Wetland Bank	Approved-Active
Norfolk	Upper Rappahannock Mitigation Bank	Pending
Norfolk	Virginia Department of Transportation Goose Creek Bank	Approved-Active
Norfolk	Virginia Habitats II	Approved-Active
Norfolk	White Cedar Mitigation Bank	Approved-Soldout
Norfolk	William Benjamin Nottoway River Wetland Bank	Approved-Active
Norfolk	Willis River	Approved-Active
Norfolk	Woodland Mitigation Bank	Pending
Norfolk	Woods at Warrenton	Pending
Norfolk	Wreck Island Stream Bank	Approved-Active
Norfolk	York River Mitigation Bank	Approved-Active

#### *Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Norfolk	Clinch Powell Mitigation Bank	Pending
Norfolk	Davis Wetland Bank	Approved-Active
Wilmington, Norfolk	Great Dismal Swamp Restoration Bank Umbrella MOA	Approved-Active
Norfolk	Hampton Roads Airport Mitigation Bank	Approved-Active

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**APPENDIX A: Banks, ILFs and Umbrella Programs by State**

Norfolk	James River Wetland Mitigation Bank Memorandum of Agreement	Approved-Active
Norfolk	Lower James River Wetland Mitigation Bank	Approved-Active
Norfolk	Potomac River Mitigation Bank	Approved-Active
Norfolk	SWB Environmental Restoration Bank	Approved-Inactive
Norfolk	Virginia Beach Wetland Mitigation Banking System Memorandum of Agreement	Approved-Active

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Norfolk	Elizabeth River Restoration Trust Fund	Approved-Active
Norfolk	Virginia Aquatic Resources Trust Fund	Approved-Active

**Washington***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Seattle	Lummi Tribal Bank	Pending
Seattle	McHugh Wetland Mitigation Bank	Approved-Active
Seattle	Meadowcroft Bank Loon Lake	Approved-Active
Seattle	Meadowland Wetland Mitigation Bank	Approved-Soldout
Seattle	Nookachamps LLC Wetland Mitigation Bank	Pending
Seattle	Skagit Environmental Bank	Pending
Seattle	Skykomish Habitat Mitigation Bank	Pending
Seattle	Snohomish Basin Mitigation Bank	Approved-Active

*Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Seattle	Clark County Habitat and Wetland Mitigation Bank	Pending
Seattle	Clark County Public Works Wetland Mitigation Bank	Pending
Seattle	King County Wetland Mitigation Banking Program	Approved-Inactive
Seattle	Pierce County Public Works and Utilities Road Dept. Mitigation Banking Program	Approved-Inactive
Seattle	Snohomish County Airport Wetland Compensation Bank Program	Approved-Active
Seattle	Snoking Mitigation Bank	Pending
Seattle	Washington DOT Wetland Compensation Bank Program	Approved-Inactive

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Seattle	Lake Chelan Service Area In-Lieu-Fee	Pending

**West Virginia***Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
Huntington	West Virginia Wetland Bank	Pending

*In-Lieu-Fee Mitigation Programs*

<u>Corps District</u>	<u>Program Name</u>	<u>Status</u>
Huntington, Pittsburgh	West Virginia In-Lieu-Fee Program	Pending

## Wisconsin

### *Mitigation Banks*

<u>Corps District</u>	<u>Bank Name</u>	<u>Bank Status</u>
St. Paul	CCHCC Wetland Bank	Approved-Active
St. Paul	Cherrier Bros Wetland Compensatory Mitigation Bank	Pending
St. Paul	Dane County Wetland Mitigation Bank (Lodi Site)	Approved-Active
St. Paul	Gary Jensen Bank (USACE File #199802599)	Approved-Active
St. Paul	Northland Cranberries Wetland Mitigation Bank	Approved-Active
St. Paul	Onyx Emerald Park Wetland Preserve	Approved-Active
St. Paul	Onyx Glacier Ridge Wetland Preserve	Approved-Active
St. Paul	Patrick Lake Wetland Mitigation Bank	Approved-Soldout
St. Paul	Sturms Wetland Bank	Pending
St. Paul	Upper Chippewa Wetland Mitigation Bank	Approved-Active
St. Paul	Wisconsin Waterfowl Association Bank (Walkerwin Bank)	Approved-Active
St. Paul	Wood County Highway Bank	Approved-Active

### *Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
St. Paul	Wisconsin Department of Transportation Wetland Mitigation Banking Technical Guideline - Draft Revision	Approved-Active

## Wyoming

### *Umbrella Banking Agreements*

<u>Corps District</u>	<u>Agreement Name</u>	<u>Status</u>
Omaha	Wyoming Department of Transportation	Approved-Inactive
none	Wyoming Statewide Wetland Mitigation Bank	Active-State Authorized



## Appendix B: Mitigation Banks – Data

Below are approved and pending mitigation banks, grouped by state and further sorted by Corps district. The year the bank was formally established (received official signatures) is indicated. Each bank is categorized as single-client, public commercial, private commercial, combination public-private commercial, or public. The type of credits sold by each bank is noted and may include various combinations of wetland credits, stream credits, and other types of credits, including Endangered Species Act Conservation Credits, which are available or proposed at 11 banks in California. Blank fields indicate that information was not available or was not provided by the Corps districts at the time of data collection. Information was collected from August to October 2005 and verified from December 2005 to February 2006.

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
AL	Mobile	Alabama Port Wetland Bank	2003	Approved-active	Luce Packing Company	Private Commercial	Wetland
AL	Mobile	Boykin-Lillian Wetland Mitigation Bank	2000	Approved-Inactive-Suspended	Wetland Environmental Technologies	Private Commercial	Wetland
AL	Mobile	McLemore Mitigation Bank	2003	Approved-active	McLemore Plantation LTD.	Private Commercial	Both Wetland and Stream
AL	Mobile	Weeks Bay Mitigation Bank	1998	Approved-active	Wetland Restoration, LLC	Private Commercial	Wetland
AL	Mobile	Yellowleaf Mitigation Bank	2005	Pending	Gulf States Paper Corp.	Private Commercial	Both Wetland and Stream
AL	Nashville	Alabama Highway Department/Wheeler Wildlife Refuge	1992	Approved-Inactive-Other Reason			
AL	Nashville	Flint Creek Wetland Mitigation Bank	1998	Approved-active	Robinson Ecological Resources, Inc.	Private Commercial	Wetland
AL	Nashville	Jackson County Mitigation Bank		Approved-active	AL DOT	Single-client	Wetland
AR	Little Rock	Hartman Bottoms Wetland Mitigation Bank	2001	Approved-active	Arkansas State Highway and Transportation Department	Single-client	Wetland
AR	Little Rock	Little Red River Mitigation Bank	2001	Approved-active	Ray Coleman	Private Commercial	Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
AR	Memphis	Brushy Lake Mitigation Bank	1996	Approved-active	Arkansas State Highway & Transportation Dept.	Single-client	Wetland
AR	Memphis, Little Rock, Vicksburg	Glaize Creek Mitigation Bank	2003	Approved-active	Arkansas State Highway and Transportation Dept.	Single-client	Wetland
AR	Vicksburg	Albemarle Corporation	1999	Approved-active	Albemarle Corporation	Single-client	Wetland
AR	Vicksburg	Dorcheat Bayou Mitigation Bank		Pending	Samson Resources Co.	Combination Public/Private	Wetland
AR	Vicksburg	Lower Delta Mitigation Bank Site	1999	Approved-active	Arkansas State Highway and Transportation	Single-client	Wetland
AR	Vicksburg	Middle Ouachita River Mitigation Bank Site	2000	Approved-active	Arkansas State Highway and Transportation Dept.	Single-client	Wetland
CA	Los Angeles	Barry Jones Wetland Mitigation Bank	1997	Approved-active	Pacific Bay Homes	Single-client	Wetland
CA	Los Angeles	Commander, Navy Region Southwest Eelgrass Mitigation Bank		Pending	Commander, Navy Region Southwest	Single-client	Eelgrass
CA	Los Angeles	Los Carneros Mitigation Bank		Approved-Soldout	Santa Barbara County Flood Control and Water Conservation District	Single-client	
CA	Los Angeles	Navy Region Southwest Eelgrass Mitigation Bank		Pending	Naval Facilities Engineering Command Southwest		
CA	Los Angeles	Pilgrim Creek Mitigation Bank	2000	Approved-Inactive-Other Reason	California Dept. of Transportation (Caltrans)	Single-client	Wetland
CA	Los Angeles	Rancho Jamul Mitigation Bank	2000	Approved-active	Wildlands, Inc.	Private Commercial	Wetland
CA	Los Angeles	Santa Ana River Wetland Mitigation Bank	1997	Approved-Soldout	Riverside County Park	Public Commercial	Wetland
CA	Los Angeles	Swansea Mitigation Bank		Pending	Agrarian Research and Management Company		
CA	Sacramento	Beach Lake Mitigation Bank	1991	Approved-active	California Dept. of Transportation (Caltrans)	Single-client	Wetland
CA	Sacramento	Clay Station Mitigation Bank	1999	Approved-Inactive-Suspended	Elliott Homes, Inc.	Private Commercial	Wetland
CA	Sacramento	Cottonwood Creek Mitigation Bank	1994	Approved-Soldout	CA Dept. of Fish and Game	Public Commercial	Wetland

## APPENDIX B: Mitigation Banks

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
CA	Sacramento	Dove Ridge		Pending	Loafer Creek, LLC		
CA	Sacramento	Laguna Creek Mitigation Bank	1999	Approved-active	Conservation Resources, LLC	Private Commercial	Wetland
CA	Sacramento	North Suisun Mitigation Bank		Pending	Wildlands, Inc		
CA	Sacramento	Stillwater Plains Mitigation Bank	2000	Approved-active	Stillwater Plains Mitigation Bank, Inc.	Private Commercial	Wetland
CA	Sacramento	Wildlands Mitigation Bank	1994	Approved-Soldout	Wildlands, Inc.	Private Commercial	Wetland
CA	Sacramento, San Francisco	Kimball Island Mitigation Bank	1998	Approved-active	Wildlands, Inc.	Private Commercial	Wetland
CA	San Francisco	Anderson		Pending			Wetland
CA	San Francisco	Balletto		Pending			Wetland
CA	San Francisco	Beretta		Pending			Other
CA	San Francisco	Billingmeier/ La Monte		Pending			
CA	San Francisco	Bracut Marsh Mitigation Bank	1980	Approved-Soldout	California Coastal Conservancy	Public Commercial	Wetland
CA	San Francisco	Burdell Mitigation Bank	2000	Approved-active	Mount Burdell Enterprises/Burdell Ranch Partners	Private Commercial	Wetland
CA	San Francisco	Carinalli-Todd		Pending			Other
CA	San Francisco	Christensen/Lounibos		Pending			Other
CA	San Francisco	Coconas		Pending			Wetland and Other
CA	San Francisco	Crane Canyon		Pending			Wetland
CA	San Francisco	DeAngelis		Pending			Wetland
CA	San Francisco	Deepwater Slough Island		Pending			Wetland
CA	San Francisco	Desmond Bank		Approved-active			Wetland and Other
CA	San Francisco	Engel		Approved-Soldout			Wetland
CA	San Francisco	Fay Slough Mitigation Bank		Pending			Wetland
CA	San Francisco	Gridley		Pending			Wetland
CA	San Francisco	Hale Bank		Approved-active			Wetland and Other

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
CA	San Francisco	Hazel Mitigation Bank		Pending			Other
CA	San Francisco	Horn Avenue Mitigation Bank		Pending			Wetland
CA	San Francisco	Hunter Lane		Pending			Wetland
CA	San Francisco	Laguna Carinalli Mitigation Bank		Approved-Soldout			Wetland
CA	San Francisco	Laguna Valley	2005	Approved-active			Wetland
CA	San Francisco	Likins		Pending			Other
CA	San Francisco	Lourdis		Pending			
CA	San Francisco	Ludwig (Avenue)		Pending			
CA	San Francisco	McDowell		Pending			Wetland
CA	San Francisco	Morrison		Pending			Wetland and Other
CA	San Francisco	Muelrath		Pending			
CA	San Francisco	Newark Slough		Pending			Wetland
CA	San Francisco	North Suisun		Pending			Wetland
CA	San Francisco	Pajaro River		Pending			Wetland
CA	San Francisco	Palmerton		Pending			Wetland and Other
CA	San Francisco	Pittman		Pending			Other
CA	San Francisco	River Road		Pending			Wetland
CA	San Francisco	Rogers Bank/ East Railroad		Pending			Wetland
CA	San Francisco	Sass		Pending			Wetland
CA	San Francisco	Sonoma Airport Mitigation Bank/Phase II (Duran)		Approved-Soldout			Wetland
CA	San Francisco	Southwest Santa Rosa Vernal Pool Preservation Bank	1999	Approved-Soldout	Sonoma Vernal Pool, Inc.	Private Commercial	Wetland
CA	San Francisco	Suisun Marsh NHA		Pending			Wetland
CA	San Francisco	Sunland		Pending			Wetland
CA	San Francisco	Vachini		Pending			Wetland
CA	San Francisco	Wikiup Mitigation Bank	1995	Approved-Soldout	Wikiup Builders, LP	Private Commercial	Wetland

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
CA	San Francisco	Wright Preservation Bank	1997	Approved-Soldout	Dept. of Fish and Game, and the Sonoma County Ag. Preservation and Open Space District	Public Commercial	Wetland
CA	San Francisco	Yuba Drive Mitigation Bank		Approved-Soldout			Wetland
CO	Albuquerque, Omaha	Limon Bank	1996	Approved-active	Town of Limon, Colorado Dept. of Transportation	Single-client	Wetland
CO	Omaha	Chatfield	2004	Approved-active	Denver Water Dept.	Single-client	Wetland
CO	Omaha	Marshall Mitigation Bank	2000	Approved-Inactive-Other Reason	City of Boulder, CO	Public	Both Wetland and Stream
CO	Omaha	Middle South Platte River Wetland Mitigation Bank	1999	Approved-active	Land and Water Resources, Inc	Private Commercial	Wetland
CO	Omaha	Mile High Wetland Bank	1999	Approved-active	Mile High Wetland Group, LLC	Private Commercial	Wetland
CO	Omaha	Riverdale Mitigation Bank	2001	Approved-active	South Platte Wetlands, Inc.	Single-client	Wetland
CO	Omaha	Rocky Flats Mitigation Bank	1996	Approved-active	US Dept. of Energy, Rocky Flats Field Office	Single-client	Wetland
CO	Omaha	Warm Springs Wetland Mitigation Bank	2000	Approved-active	Warm Springs Wetland, LLC	Private Commercial	Both Wetland and Stream
CO	Sacramento	FingerRock Wetland Mitigation Bank		Approved-active	FingerRock Preserve, LLC		Wetland
CO	Sacramento	Mesa County Wetland Mitigation Bank		Pending	Mesa County		
CO	Sacramento	Rocky Mountain Institute Wetland Mitigation Bank		Approved-active	Rocky Mountain Institute		
CO	Sacramento	Spring Water Ranch Wetland Mitigation Bank		Approved-active	Spring Water Ranch, LLC		Wetland
CO	Sacramento	Western Gravel Wetland Mitigation Bank		Pending	Western Gravel		
CO	Sacramento	WetBank -- Gunnison		Approved-active	StillWater Preservation, LLC	Private Commercial	Wetland
DE	Philadelphia	Glenville Mitigation Bank		Pending	Delaware DOT		
DE	Philadelphia	Poplar Hill Mitigation Bank		Pending	Delaware DOT		
FL	Jacksonville	American Equities Mitigation Land Bank at Reedy Creek	1997	Approved-active	American Equities #7, Ltd.	Private Commercial	Wetland

<b>State</b>	<b>Corps District</b>	<b>Bank Name</b>	<b>Year Est.</b>	<b>Status</b>	<b>Bank Sponsor</b>	<b>Bank Type</b>	<b>Credit Type(s)</b>
FL	Jacksonville	Barberville Conservation Area Mitigation Bank	1996	Approved-active	Volusia County	Public Commercial	Wetland
FL	Jacksonville	Bear Point Mitigation Bank	2003	Approved-active			
FL	Jacksonville	Big Cypress Mitigation Bank	1999	Approved-active	Ruby Red Equities Limited Partnership	Private Commercial	Wetland
FL	Jacksonville	Bluefield Ranch Mitigation Bank	2001	Approved-active		Private Commercial	Wetland
FL	Jacksonville	Boran Ranch Mitigation Bank	1997	Approved-active	James E. Moore, III	Private Commercial	Wetland
FL	Jacksonville	Breakfast Point Mitigation Bank	2004	Approved-active			
FL	Jacksonville	CGW Mitigation Bank	1998	Approved-active	Chown, Gregory, Wilcox	Private Commercial	Wetland
FL	Jacksonville	Cheval Tournament Players Club		Approved-active	Cheval Associates Partnerships, Inc.	Single-client	Wetland
FL	Jacksonville	Clear Spring Mitigation Bank	2003	Approved-active			
FL	Jacksonville	Colbert-Cameron Mitigation Bank	1996	Approved-active	Stenstrom, InIntosh, Colbert, Whigham and Simmons	Private Commercial	Wetland
FL	Jacksonville	Corkscrew Regional Mitigation Bank	2004	Approved-active			
FL	Jacksonville	Devil's Swamp Mitigation Bank	2004	Approved-active			
FL	Jacksonville	East Central Florida Regional Mitigation Bank	1996	Approved-active	Ecosystems Land Mitigation Bank II Corporation	Private Commercial	Both Wetland and Stream
FL	Jacksonville	Everglades Mitigation Bank- Phase I	1996	Approved-active	Florida Power and Light Company	Single-client	Wetland
FL	Jacksonville	Everglades Mitigation Bank/Phase II (FPL)	2003	Approved-active	Florida Power and Light		
FL	Jacksonville	Farmton Mitigation Bank	2000	Approved-active	Miami Corporation		Wetland
FL	Jacksonville	Florida Mitigation Bank	1997	Approved-active	D&J Ranch Inc.	Private Commercial	Wetland
FL	Jacksonville	Florida Wetlands Bank	1995	Approved-Soldout	Florida Wetlandsbank		Wetland
FL	Jacksonville	Garcon Peninsula Mitigation Bank	2001	Approved-active	Joe Edmisten, Inc. and Associates	Private Commercial	Wetland
FL	Jacksonville	Graham Swamp Mitigation Bank	1996	Approved-active	ITT Community Development Corp.	Private Commercial	Wetland
FL	Jacksonville	Hillsborough County Utilities Department Mitigation Bank		Approved-active	Hillsborough County Utilities Dept.	Single-client	Wetland

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
FL	Jacksonville	Hole in the Donut/Everglades National Park	1995	Approved-active			
FL	Jacksonville	Lake Louisa and Green Swamp	1995	Approved-active	Ecosystems Land Mitigation Corp.	Private Commercial	Wetland
FL	Jacksonville	Lake Monroe Mitigation Bank	1995	Approved-active	FL Dept. of Transportation, District 5	Single-client	Wetland
FL	Jacksonville	Little Pine Island Mitigation Bank	1996	Approved-active	Mariner Properties Development, Inc.	Private Commercial	Wetland
FL	Jacksonville	Loblolly	2004	Approved-active		Private Commercial	Wetland
FL	Jacksonville	Longleaf Mitigation Bank	2004	Approved-active		Private Commercial	Wetland
FL	Jacksonville	Loxahatchee Mitigation Bank	2000	Approved-active	Foster Wheeler Environmental Corp.	Private Commercial	Wetland
FL	Jacksonville	Marion I Sustainable Mitigation Project		Approved-active	Environmental Management Systems, Inc.	Single-client	Wetland
FL	Jacksonville	Mary A Ranch Mitigation Bank	2002	Approved-active			
FL	Jacksonville	Myakka Mitigation Bank	2004	Approved-active			
FL	Jacksonville	Northeast Florida Mitigation Bank	1995	Approved-active	Mitigation Solutions, Inc.	Private Commercial	Wetland
FL	Jacksonville	Northlakes Park Mitigation Bank		Approved-active	Hillsborough County	Single-client	Wetland
FL	Jacksonville	Panther Island Mitigation Bank		Approved-active	South Florida Wetlands Joint Venture	Private Commercial	Wetland
FL	Jacksonville	Platt's Creek Mitigation Bank	2003	Approved-active			
FL	Jacksonville	Polk Parkway Bank		Approved-active	Polk County	Single-client	Wetland
FL	Jacksonville	Polk Regional Drainage Project Bank		Approved-active	Polk County	Single-client	Wetland
FL	Jacksonville	Port Orange Mitigation Bank	2004	Approved-active			
FL	Jacksonville	R.G. Reserve Mitigation Bank	2003	Approved-active			
FL	Jacksonville	RMK Timberland Wetland Mitigation Bank		Pending	Patrick Wilbur, F&W Forestry Services, Inc./Creative Environmental Solutions, Inc.	Private Commercial	
FL	Jacksonville	San Pedro Bay Mitigation Bank	2002	Approved-active			
FL	Jacksonville	Sand Hill Lakes Mitigation Bank	2005	Pending			
FL	Jacksonville	Southeast Mitigation Bank		Approved-active	Hillsborough County	Single-client	Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
FL	Jacksonville	Split Oak Mitigation Bank	1996	Approved-Soldout	Orange County Board of County Commissioners	Public Commercial	Wetland
FL	Jacksonville	Sundew Mitigation Bank	2001	Approved-active	Cheyenne Environmental LLC	Private Commercial	Wetland
FL	Jacksonville	Tampa Bay Wetland Bank	2001	Approved-active	Tampa Bay Mitigation, LLC	Private Commercial	Wetland
FL	Jacksonville	TM-Econ Mitigation Bank	2003	Approved-active			
FL	Jacksonville	Tosohatchee Mitigation Bank	1997	Approved-active	Florida DOT	Single-client	Wetland
FL	Jacksonville	Treasure Coast Mitigation Bank	2005	Approved-active			
FL	Jacksonville	Treyburn/Collier Mitigation Bank	2000	Approved-active	Florida Wetlands Stewardship Group, Inc.	Private Commercial	Wetland
FL	Jacksonville	Tupelo Mitigation Bank	2004	Approved-active			
FL	Jacksonville	Turner Citrus, Inc.		Approved-active	Gene Turner	Single-client	Wetland
FL	Jacksonville	Weisenfeld Mitigation Bank	1990	Approved-active		Private Commercial	Wetland
FL	Jacksonville	Wekiva River Mitigation Bank	2005	Approved-active			
GA	Savannah	Alaculsy	2005	Approved-active	Georgia Streambank, LLC, Tom Holmes	Private Commercial	Both Wetland and Stream
GA	Savannah	Banks County Georgia Department of Transportation Bank	2001	Approved-active	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	Bazemore Mitigation Bank	1998	Approved-active	GA DOT	Single-client	Wetland
GA	Savannah	Big Cotton Indian Creek	2004	Approved-active	Wetland and Ecological Consultants, Rick Whiteside	Private Commercial	Wetland
GA	Savannah	Big Creek		Approved-active	Wetland and Ecological Consultants, Rick Whiteside	Private Commercial	Stream
GA	Savannah	Bill Preston Tract		Pending	GA DOT	Single-client	Wetland
GA	Savannah	Black Creek Mitigation Bank		Pending	Black Creek Mitigation, LLC	Private Commercial	Wetland
GA	Savannah	Bowen Mill Pond Mitigation Bank	1997	Approved-Soldout	GA DOT	Single-client	Wetland
GA	Savannah	Brier Creek Mitigation Bank		Pending	GA DOT	Single-client	
GA	Savannah	Broadfield Mitigation Bank		Pending	Bill Jones	Private Commercial	



## APPENDIX B: Mitigation Banks

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
GA	Savannah	Broxton Rocks	2005	Approved-active	Mitigation Connection, LLC; Anna Prizzia	Private Commercial	Both Wetland and Stream
GA	Savannah	Burke County Mitigation Bank	1998	Approved-Soldout	GA DOT	Single-client	Wetland
GA	Savannah	Callaway Farms Mitigation Bank	1998	Approved-active	Callaway Enterprises, Tom Holmes	Private Commercial	Both Wetland and Stream
GA	Savannah	Cecil Bay/Heart Pine Pond Mitigation Bank	1999	Approved-active	Williams Investment Company	Private Commercial	Wetland
GA	Savannah	Chattahoochee Mitigation Bank	2002	Approved-active	Register and Associates, Butch Register	Private Commercial	Both Wetland and Stream
GA	Savannah	Cherry Creek Mitigation Bank	2000	Approved-active	Creative Environmental Solutions, Inc.	Private Commercial	Both Wetland and Stream
GA	Savannah	Clayton Mitigation Bank	2003	Pending	Clayton County Water Authority	Single-client	Wetland
GA	Savannah	Clifton Golf Course		Approved-active	GA DOT	Single-client	
GA	Savannah	Conasauga River		Approved-active	Golder and Associates, Inc.	Private Commercial	
GA	Savannah	Etowah River Mitigation Preserve	2000	Approved-active	Register and Associates, Butch Register	Private Commercial	Both Wetland and Stream
GA	Savannah	Etowah River Stream Mitigation Bank	2001	Approved-active	Register and Associates, Butch Register	Private Commercial	Stream
GA	Savannah	Etowah Terrace Stream Mitigation Bank	2002	Pending	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	Flint River Basin Mitigation Bank		Approved-active	Brent Scarborough	Private Commercial	Wetland
GA	Savannah	Flint River Mitigation Bank		Pending	Brent Scarbrough	Private Commercial	Wetland
GA	Savannah	Fort Stewart Mitigation Bank	2000	Approved-active	US Army/Fort Stewart	Single-client	
GA	Savannah	Georgia Stream	1999	Pending	Wetlands Environmental Technology	Private Commercial	
GA	Savannah	Gumlog Mitigation Bank		Pending	Alex Bryant	Private Commercial	Wetland
GA	Savannah	Hartsfield Atlanta Airport Mitigation Bank		Approved-active	Hartsfield Atlanta International Airport	Single-client	
GA	Savannah	Hog Creek Mitigation Creek	1999	Pending	Patricia McCarthy	Private Commercial	

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
GA	Savannah	Indian Creek Wetland Mitigation Bank	2000	Approved-active	Suwannee River Mitigation Technologies, LLC	Private Commercial	Both Wetland and Stream
GA	Savannah	Jay Nikkel Mitigation Bank		Pending	GA DOT	Single-client	
GA	Savannah	Jerome Crosby Wetland Mitigation Bank		Pending	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	Jewett/Tucker		Approved-active	GA DOT	Single-client	Wetland
GA	Savannah	Jones Pond Mitigation Bank		Pending	Wilbert Roller	Private Commercial	Wetland
GA	Savannah	Kerr-McGee Mitigation Bank		Pending	Kerr-McGee Pigments, Inc.	Private Commercial	
GA	Savannah	Kolomoki	2005	Approved-active	Kolomoki Plantation LLC, Tom Holmes	Private Commercial	Both Wetland and Stream
GA	Savannah	Legacy Farms Stream Mitigation Bank		Pending	Legacy Farms Stream Bank, LLC	Private Commercial	
GA	Savannah	LK Brenau Mitigation Bank		Pending	Register and Associates, Inc.	Private Commercial	
GA	Savannah	Magnolia Swamp	2004	Approved-active	Sligh Environmental, Stuart Sligh	Private Commercial	Both Wetland and Stream
GA	Savannah	Marshlands Plantation, Inc. Mitigation Bank	1996	Approved-active	Marshlands Plantation, Walter Stephens	Private Commercial	Wetland
GA	Savannah	Middle Oconee	2005	Approved-active	Wetland and Ecological Consultants, Rick Whiteside	Private Commercial	Both Wetland and Stream
GA	Savannah	Millhaven Mitigation Bank	1992	Approved-active	Marshlands Plantation, Walter Stephens	Private Commercial	Wetland
GA	Savannah	Monastery of the Holy Ghost Mitigation Bank	1996	Approved-active	Wetlands Environmental Technology, Inc. (W.E.T.)	Private Commercial	Wetland
GA	Savannah	Montezuma Mitigation Site	1998	Approved-active	GA DOT	Single-client	Wetland
GA	Savannah	Moreland Place Bottom Mitigation Bank	2000	Approved-active	Dr. Tracy Bridges	Private Commercial	Wetland
GA	Savannah	Muckalee Creek Bank		Pending	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	Mulberry River Mitigation Bank	2000	Approved-active	Wetland and Ecological Consultants, Rick Whiteside	Private Commercial	Both Wetland and Stream
GA	Savannah	Mundy		Approved-active	GA DOT	Single-client	Wetland

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
GA	Savannah	Musket Bay	2005	Approved-active	Acer Environmental, Inc., Greg Smith	Private Commercial	Wetland
GA	Savannah	Offerman	2005	Approved-active	Marshlands Plantation, Inc., Walter Stephens	Private Commercial	Wetland
GA	Savannah	Ogeechee River Mitigation Bank	1999	Approved-active	Sligh Environmental, Stuart Sligh	Private Commercial	Wetland
GA	Savannah	Ohoopsee River	2005	Approved-active	Wetland and Ecological Consultants, Rick Whiteside	Private Commercial	Both Wetland and Stream
GA	Savannah	Old Thorn Pond Mitigation Bank	1998	Approved-active	Newkirk Environmental, Ken Hance	Private Commercial	Wetland
GA	Savannah	Oostanaula River	2004	Approved-active	Register and Associates, Inc., Butch Register	Private Commercial	Both Wetland and Stream
GA	Savannah	Phinizy Swamp Wetland Mitigation Bank (Merry Land Brickyard)	2000	Approved-active	ML South Augusta, Inc.	Private Commercial	Wetland
GA	Savannah	Pierpoint Mitigation Bank		Pending	GA DOT	Single-client	
GA	Savannah	Pine South Wetland Mitigation Bank	2000	Approved-active	Pine South, Inc.	Private Commercial	Wetland
GA	Savannah	Plum Creek Bank		Pending	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	Prater Island Mitigation Bank	2001	Approved-active	GA DOT	Single-client	Wetland
GA	Savannah	Pritchett Mitigation Bank	2002	Approved-active	Campbell Environmental, Inc., Lorna Campbell	Private Commercial	Both Wetland and Stream
GA	Savannah	Raccoon Creek Bank		Pending	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	Raleigh Joyce Tract Wetland Mitigation Bank	1998	Approved-active	GA DOT	Single-client	Wetland
GA	Savannah	Ray Moorman Bank		Pending	GA DOT	Single-client	Wetland
GA	Savannah	Riverpoint Mitigation Bank		Pending	Applied Wetlands Consulting, Inc.	Private Commercial	
GA	Savannah	Roger Price Mitigation Bank		Pending	GA DOT	Single-client	
GA	Savannah	Satilla River Wetland Mitigation Bank	1996	Approved-active	Spivey Mitigation Technologies, Inc.	Private Commercial	Wetland
GA	Savannah	South River Bank		Pending	GA DOT	Single-client	Both Wetland and Stream

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
GA	Savannah	Spirit Creek Mitigation Bank		Pending	International Paper	Private Commercial	
GA	Savannah	Stuckey Bank		Pending	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	Towaliga River Mitigation Bank		Pending	GA DOT	Single-client	Both Wetland and Stream
GA	Savannah	White Creek Mitigation Bank		Pending	Doug Adams	Private Commercial	
GA	Savannah	Wilkinson-Oconee	2005	Approved-active	Acer Environmental, Inc., Greg Smith	Private Commercial	Both Wetland and Stream
GA	Savannah	Yellow Creek	2003	Approved-active	Acer Environmental, Inc., Greg Smith	Private Commercial	Stream
GA	Savannah	Yonah Mountain Mitigation Bank		Pending	Eco-South, Inc.	Private Commercial	
IA	Rock Island	Carlisle Wetland Mitigation Bank		Pending	City of Carlisle	Public Commercial	Wetland
IA	Rock Island	Coulthard Trust A Wetland Mitigation Bank	2002	Pending	Thien Farm Management	Private Commercial	Wetland
IA	Rock Island	G. William Coulthard Wetland Mitigation Bank	2000	Approved-active	Coulthard Farms	Private Commercial	Wetland
IA	Rock Island	Iowa Wetland Mitigation Bank (Coulter Marsh Agricultural Wetland Mitigation Bank)	2000	Approved-active	Iowa Wetland Mitigation Bank, Inc.	Private Commercial	Wetland
ID	Walla Walla	Boise River Wetland Mitigation Bank		Pending	Roger Anderson	Private Commercial	Both Wetland and Stream
ID	Walla Walla	Georgetown Mitigation Bank	1996	Approved-active	Idaho Transportation Dept.	Single-client	Wetland
ID	Walla Walla	Old Beaver Mitigation Bank	1988	Approved-active	Idaho Dept. of Transportation	Single-client	Wetland
ID	Walla Walla	Valencia Wetland Mitigation Bank	2005	Approved-Inactive-Other Reason	Ford and Donna Willey	Private Commercial	Both Wetland and Stream
ID	Walla Walla	Wetlands Northwest Wetland Mitigation Bank		Pending	Wetlands Group	Private Commercial	Both Wetland and Stream
IL	Chicago	Bank 1 (Wetlands Research, Inc.)	1995	Approved-active	Wetlands Research, Inc.	Private Commercial	Wetland

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State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
IL	Chicago	Bank 2 (Wetlands Research, Inc)	1996	Approved-Soldout	Wetlands Research, Inc	Private Commercial	Wetland
IL	Chicago	Big Sag Wetland Conservancy	2001	Approved-active	Ecologic Planning, Inc.	Private Commercial	Wetland
IL	Chicago	Butterfield Road Wetland Mitigation Bank	1999	Approved-Soldout	Land & Water Resources	Private Commercial	Wetland
IL	Chicago	Cornerstone		Approved-Soldout			Wetland
IL	Chicago	Cricket Creek	1994	Approved-Soldout	County of DuPage, Dept. of Environmental Concerns	Public Commercial	Wetland
IL	Chicago	Delaney Road	2003	Approved-active	Wetland Mitigation of Illinois, LLC	Private Commercial	Wetland
IL	Chicago	Des Plaines - Towpath Canal Wetland Mitigation Bank	2001	Approved-active	Ecologic Planning, Inc.	Private Commercial	Wetland
IL	Chicago	Downer's Grove		Approved-Soldout			Wetland
IL	Chicago	Ferson Creek Wetland Bank	1996	Approved-Soldout	Land & Water Resources	Private Commercial	Wetland
IL	Chicago	Girl Scout Sybaquay Council Mitigation Bank	2001	Approved-active	Girl Scouts - Sybaquay Council, Inc.	Private Commercial	Wetland
IL	Chicago	Hanover Park Mitigation Area	1998	Approved-Soldout	Land & Water Resources, Inc.	Private Commercial	Wetland
IL	Chicago	Jelkes Creek	2003	Approved-active	Land and Water Resources	Private Commercial	Wetland
IL	Chicago	Kishwaukee River Bottoms Wetland Mitigation Bank	2000	Approved-active	Ecological Planning, Inc.	Private Commercial	Wetland
IL	Chicago	Knollwood Mitigation Bank		Approved-Soldout			Wetland
IL	Chicago	Lily Cache	2005	Approved-active	Land and Water Resources	Private Commercial	Wetland
IL	Chicago	LRH Partnership Marengo Mitigation Bank	1997	Approved-active	LRH Partnership	Private Commercial	Wetland
IL	Chicago	Metra Mitigation Bank		Approved-active		Single-client	Wetland
IL	Chicago	Mink Creek	2003	Approved-active	Land and Water Resources, Inc.	Private Commercial	Wetland

<b>State</b>	<b>Corps District</b>	<b>Bank Name</b>	<b>Year Est.</b>	<b>Status</b>	<b>Bank Sponsor</b>	<b>Bank Type</b>	<b>Credit Type(s)</b>
IL	Chicago	North Glen Ellyn		Approved-Soldout			Wetland
IL	Chicago	Otter Creek Mitigation Bank	1994	Approved-Soldout	Land and Water Resources, Inc.	Private Commercial	Wetland
IL	Chicago	Prairie Creek	1998	Approved-Inactive-Other Reason	Vulcan Materials Company	Single-client	Wetland
IL	Chicago	Red Wing Slough	2003	Approved-active	Wetland Mitigation of Illinois, LLC	Private Commercial	Wetland
IL	Chicago	Sauk Trail Wetland Mitigation Bank	1998	Approved-active	Encorp, LTD and EcoLogic Planning, Inc.	Private Commercial	Wetland
IL	Chicago	Slough Creek Wetland Mitigation Bank	1997	Approved-active	Northern Illinois Land Preserve, Inc. and EcoLogic, Inc.	Private Commercial	Wetland
IL	Chicago	Squaw Creek	2003	Approved-active	Wetland Mitigation Bank of Illinois	Private Commercial	Wetland
IL	Chicago	V3 Blackberry Creek Mitigation Bank	2005	Approved-active	V3	Private Commercial	Wetland
IL	Chicago	Winfield Creek	1992	Approved-Inactive-Other Reason	DuPage County Dept. of Environmental Concerns	Public Commercial	Wetland
IL	Rock Island	Dekalb County Forest Preserve	1999	Approved-active	DeKalb County Forest Preserve District	Public Commercial	Wetland
IL	Rock Island	Kilbuck Creek Wetland Mitigation Bank	1998	Approved-active	Land and Water Resources, Inc.	Private Commercial	Wetland
IL	Rock Island	LaGrange Wetland Bank	2004	Approved-active	Illinois Department of Transportation	Single-client	Wetland
IL	Rock Island	Morris Wetland Bank	2002	Approved-active	IL Dept. of Transportation	Single-client	Wetland
IL	Rock Island	Northern Illinois Wetland LLC	2004	Approved-active	Rick Hoffman	Private Commercial	Wetland
IL	Rock Island	Wetlands Mitigation of Illinois, LLC		Pending	Land and Water Resources, LLC	Private Commercial	Wetland
IL	St. Louis	Crooked Creek Wetland and Stream Mitigation Bank		Pending	Wetlands Forever Company	Private Commercial	Both Wetland and Stream
IL	St. Louis	Indian Creek Wetland Mitigation Bank	2005	Approved-active	Indian Creek Wetland Mitigation Bank, LLC	Private Commercial	Wetland

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
IL	St. Louis	Madison County Wetland Mitigation Bank		Approved-active	Madison County Highway Department		Wetland
IL	St. Louis	Richland Creek Wetland Mitigation Bank		Approved-active	Richland Creek Mitigation, LLC		Both Wetland and Stream
IL	St. Louis	Southern Illinois Wetland Mitigation Bank		Approved-active	Wetlands Forever Company		Wetland
IL	St. Louis	Sugar Camp Creek		Pending	IL DOT	Single-client	
IN	Detroit	Lake Station Wetland Mitigation Bank	2000	Approved-active	Lake Erie Land Company	Private Commercial	Wetland
IN	Louisville	Geist Reservoir Mitigation Bank	1990	Approved-Soldout	Shorewood Corp.	Single-client	Wetland
IN	Louisville	Morse Reservoir Wetland Mitigation Bank	1990	Approved-Soldout	Shorewood Corp.	Single-client	Wetland
IN	Louisville	Schroeder Mitigation Bank	1999	Approved-active	Gary W. Schroeder	Private Commercial	Wetland
IN	Louisville	Wolfe Mitigation Bank		Approved-Inactive-Other Reason		Single-client	Wetland
KS	Kansas City	Johnson County Wetlands Mitigation Bank	1999	Approved-active	Johnson County Wetlands Mitigation Bank, LLC	Private Commercial	Both Wetland and Stream
KY	Louisville	G & L Mitigation Bank	1998	Approved-active	G & L	Private Commercial	Wetland
KY	Louisville	Nelson County Wetland Mitigation Bank Number One	1997	Approved-active	PTRL Environmental Services	Private Commercial	Wetland
KY	Louisville	Northern Kentucky Wetland Mitigation Bank Wolf Road Property		Pending			
KY	Louisville	Pond Creek Water Storage/Wetland Mitigation Bank	1998	Approved-active	PTRL Environmental Services	Private Commercial	Wetland
KY	Louisville	Wetland Bank of Kentucky (Hawkings Bank)	1998	Approved-Inactive-Suspended	Highview Engineering Inc.	Private Commercial	Wetland
LA	New Orleans	(Elliot) Mitigation Bank		Pending	GDE Investments		
LA	New Orleans	Abita	1992	Approved-Inactive-Other Reason			Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
LA	New Orleans	ALC I	1998	Approved-active			Wetland
LA	New Orleans	Aurore Ranch		Pending			Wetland
LA	New Orleans	Bad Bayou	2001	Approved-active			Wetland
LA	New Orleans	Baldwin Mitigation Bank		Pending	Louisiana Wetlands, LLC		
LA	New Orleans	Barnes Creek		Approved-Soldout			Wetland
LA	New Orleans	Bayou Choctaw Wetlands Mitigation Area	2001	Approved-Soldout			Wetland
LA	New Orleans	Bayou Cholpe	1998	Approved-Soldout			Wetland
LA	New Orleans	Bayou Courtableau	1997	Approved-active			Wetland
LA	New Orleans	Bayou Grand Coteau	2002	Approved-active			Wetland
LA	New Orleans	Bayou Jack	1997	Approved-Soldout			Wetland
LA	New Orleans	Bayou Lacache	1997	Approved-Soldout			Wetland
LA	New Orleans	Bayou Lacombe Wet Hardwood Flats and Pine Flatwoods/Savanna Wetlands Mitigation Bank	2001	Approved-active			Wetland
LA	New Orleans	Bayou Paul Mitigation Bank		Pending	Bayou Paul Mitigation Area, LLC		
LA	New Orleans	Bayou Pelton Mitigation Area	2002	Approved-active			Wetland
LA	New Orleans	Bayou Teche	1998	Approved-active			Wetland
LA	New Orleans	Bayou Tortue	2002	Approved-active			Wetland
LA	New Orleans	Bayou Wauksha Mitigation Bank		Pending	Russell Kahn, et al.		
LA	New Orleans	Bazaar Farm	1997	Approved-Inactive-Failed			Wetland
LA	New Orleans	Bear Country	1997	Approved-Soldout			Wetland
LA	New Orleans	Bear Island Mitigation Bank		Pending	Blind River Properties, Inc.		
LA	New Orleans	Bercham Mitigation Area	1999	Approved-Soldout			Wetland
LA	New Orleans	Berkeley Wetlands Mitigation Area	2001	Approved-Soldout			Wetland



**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
LA	New Orleans	Big Cane	1995	Approved-Soldout			Wetland
LA	New Orleans	Bill Jackson Longleaf Savanna Mitigation Bank	2003	Approved-active			Wetland
LA	New Orleans	Bivouac Plantation	1996	Approved-Soldout			Wetland
LA	New Orleans	Bluff Swamp	1995	Approved-Soldout			Wetland
LA	New Orleans	Bruce Plauche Mitigation Area	1998	Approved-active			Wetland
LA	New Orleans	Bryan Farm Mitigation Area	2001	Approved-active			Wetland
LA	New Orleans	Burns Point Mitigation Bank		Pending	Miami Corporation		
LA	New Orleans	Cameron Creole Mitigation Bank		Pending	Miami Corporation		
LA	New Orleans	CC Road Savannas - Cole Tract	2000	Approved-active			Wetland
LA	New Orleans	Chef Menteur Pass Mitigation Area		Pending			Wetland
LA	New Orleans	Cholpe Acres Wetland Mitigation Area	2001	Approved-active			Wetland
LA	New Orleans	Choupique	1994	Approved-Soldout			Wetland
LA	New Orleans	Clear Creek Longleaf Savanna Mitigation Bank	2002	Approved-Soldout	Gulf Coast Flatwoods/Lacassane Company, Inc.		Wetland
LA	New Orleans	Clinton Mitigation Bank	2001	Approved-Soldout			Wetland
LA	New Orleans	Cooper Tract	2000	Approved-active			Wetland
LA	New Orleans	Cypress Island	1994	Approved-Soldout			Wetland
LA	New Orleans	Dejean and Soileau (BLH) & (CYP)	1995	Approved-Soldout			Wetland
LA	New Orleans	East Feliciana Mitigation Bank	2003	Approved-Soldout			Wetland
LA	New Orleans	Erwinville	2001	Approved-active			Wetland
LA	New Orleans	Galliano	1997	Approved-Soldout			Wetland
LA	New Orleans	Glad-Lin Mitigation Site	2001	Approved-active			Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
LA	New Orleans	Grand Caillou Coastal Mitigation Bank		Pending			Wetland
LA	New Orleans	Greenwood Mitigation Area	1999	Approved-active			Wetland
LA	New Orleans	Guillory Mitigation Area		Pending			Wetland
LA	New Orleans	Gulf Coast S&W Cons. Dist.	1998	Approved-Soldout			Wetland
LA	New Orleans	Gum Cove	1993	Approved-active			Wetland
LA	New Orleans	Guste Tract		Pending			Wetland
LA	New Orleans	Head of Island Mitigation Bank		Pending	Cross and Company		
LA	New Orleans	High Point Wetlands Mitigation Area	2002	Approved-active	High Point Mitigation Company, LLC		Wetland
LA	New Orleans	Houston River	1994	Approved-active			Wetland
LA	New Orleans	Hubbard	1997	Approved-Soldout			Wetland
LA	New Orleans	John E. Chance	1999	Approved-Soldout			Wetland
LA	New Orleans	Lacassane Coastal Prairie Mitigation Bank	2003	Approved-active			Wetland
LA	New Orleans	Lafourche Crossing	1994	Approved-Soldout			Wetland
LA	New Orleans	Lagarde Tract Mosella Plantation Jeansonne Property		Pending	Edmund E. Jeansonne/E-KO, Inc.		
LA	New Orleans	Lago Espanol	1999	Approved-active			Wetland
LA	New Orleans	Lake Long Mitigation Bank		Pending	Gremillion Land Management, LLC		
LA	New Orleans	Lake Ramsey	1992	Approved-Inactive-Other Reason			Wetland
LA	New Orleans	Lonesome Dove	1998	Approved-active			Wetland
LA	New Orleans	Long Petroleum Terracing Mitigation Bank		Pending			Wetland
LA	New Orleans	Lower Vacherie Mitigation Area	1998	Approved-active			Wetland
LA	New Orleans	Matirne Mitigation Bank		Pending	Keith Matirne		
LA	New Orleans	Money Hill Pine Flatwood/Savanna Mitigation Bank	1997	Approved-active			Wetland

## APPENDIX B: Mitigation Banks

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
LA	New Orleans	Morrow	1997	Approved-Soldout			Wetland
LA	New Orleans	Ogile Duplechin	1999	Approved-active			Wetland
LA	New Orleans	Palmetto Bayou Mitigation Bank		Pending			Wetland
LA	New Orleans	Paradis Mitigation Bank		Approved-active			Wetland
LA	New Orleans	Petit Bois Mitigation Bank		Pending			Wetland
LA	New Orleans	Point Au Chien WMA		Approved-Soldout			Wetland
LA	New Orleans	Powell Lumber Company	1994	Approved-Soldout			Wetland
LA	New Orleans	Profit Island Mitigation Bank		Pending	Profit Island, LLC		
LA	New Orleans	Redwood Creek Mitigation Bank		Pending	Redwood Creek Conservancy, LLC		
LA	New Orleans	Riverside Coastal Mitigation Lands	1999	Approved-active			Wetland
LA	New Orleans	Rockefeller Refuge Bank	2004	Approved-active			Wetland
LA	New Orleans	Sawgrass Bayou Mitigation Area	2003	Approved-active			Wetland
LA	New Orleans	Sherburne WMA		Approved-Soldout			Wetland
LA	New Orleans	Simon and Delaney	1995	Approved-Soldout			Wetland
LA	New Orleans	Smithport Mitigation Area	2000	Approved-active			Wetland
LA	New Orleans	St. Landry Parish Mitigation Site	2002	Approved-active			Wetland
LA	New Orleans	Stream Property - Isolated Marsh		Approved-active			Wetland
LA	New Orleans	Supple's Wetlands Mitigation Bank	2003	Approved-active			Wetland
LA	New Orleans	Texada Mitigation Area		Approved-active			Wetland
LA	New Orleans	Timberton Mitigation Bank		Pending	Timberton Mitigation Bank, LLC		
LA	New Orleans	Tunica Swamp - Silos Mitigation Area	2002	Approved-active			Wetland
LA	New Orleans	Upper Bayou Folse Mitigation Bank		Pending	3Ridge Farms, LLC		
LA	New Orleans	Welcome Mitigation Bank	2001	Approved-active			Wetland
LA	New Orleans	West Bayou Jack Addendum	2001	Approved-Soldout			Wetland
LA	New Orleans	William D. Blake Longleaf Savannah Mitigation Bank		Pending	Calcasieu Conservation Land Company, LLC		

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
LA	New Orleans	Wolf Creek		Approved-Soldout			Wetland
LA	Vicksburg	Belle Cherri	2002	Approved-active	Belle Cherri Land Company	Private Commercial	Both Wetland and Stream
LA	Vicksburg	Cross and Company	2002	Approved-active	Cross and Company	Private Commercial	Wetland
LA	Vicksburg	Cross Bayou Mitigation Bank		Approved-active	CLECO		Wetland
LA	Vicksburg	Honey Island Swamp Mitigation Bank	2001	Approved-active	TXI Operations, LP	Private Commercial	Wetland
LA	Vicksburg	Red River Mitigation Bank		Approved-active	Poirrier and Poirrier Development, Inc.	Private Commercial	Wetland
LA	Vicksburg	Springhill		Pending	International Paper	Combination Public/Private	Wetland
MD	Baltimore	Bryantown Mitigation Site	2002	Approved-Soldout	P.A. Schaumberg, Environmental Planner, LLC	Private Commercial	Wetland
MD	Baltimore	Middle Patuxent River Revitalization Project	1996	Approved-Inactive-Other Reason	OPUS East LLC	Private Commercial	
MI	Detroit	Huron Wetland Bank	2002	Approved-active	Michigan Wetlands Development and Construction	Private Commercial	Wetland
MI	Detroit	Kawkawlin Watershed Wetland Bank	2004	Approved-active	Earl D. Bennett Construction, Inc.	Private Commercial	Wetland
MI	Detroit	Parma Wetland Bank	2003	Approved-active	David and Sandra Iott	Private Commercial	Wetland
MO	Kansas City	Osage Plains Wetland and Stream Mitigation Bank		Pending	Swallowtail, LLC	Private Commercial	Both Wetland and Stream
MO	Memphis, Little Rock	Southeast Missouri Agricultural Wetland Mitigation Bank	1999	Approved-active	Agriculture Conservation Innovation Center	Public Commercial	Wetland
MO	Memphis, Little Rock, St. Louis	Missouri DOT Bootheel Regional Mitigation Bank	2003	Approved-active	MO DOT	Single-client	Both Wetland and Stream
MO	St. Louis	Big Rivers Wetland Mitigation Bank	1999	Approved-active	Mid River Wetland Restoration	Private Commercial	Wetland
MO	St. Louis	Fox Creek Stream Mitigation Bank	2000	Approved-active	Don Breckenridge	Private Commercial	Stream

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
MO	St. Louis	Gravois Creek Stream Mitigation Bank		Pending	Metropolitan St. Louis Sewer District (MSD)	Single-client	Stream
MO	St. Louis	Little Dardenne Creek Stream Mitigation Bank		Pending	Point Prairie, LLC	Private Commercial	Stream
MO	St. Louis	Lower Missouri River Mitigation Bank	1999	Approved-active	The Jones Company	Private Commercial	Wetland
MO	St. Louis	Peruque Creek Wetland and Stream Mitigation Bank		Pending	Greenway Network	Private Commercial	Both Wetland and Stream
MO	St. Louis	Rosedale Wetland Mitigation Bank	2000	Approved-active	Rosedale Mitigation LLC	Private Commercial	Wetland
MO	St. Louis	Westwinds Wetland Mitigation Bank	1999	Approved-active	Westwinds Farms	Private Commercial	Wetland
MS	Mobile	Buttahatchie River Mitigation Bank	2005	Pending	Wildlife Mississippi (Mississippi Fish and Wildlife Foundation)	Single-client	Both Wetland and Stream
MS	Mobile	Crane Creek Mitigation Bank	2004	Approved-active	Crane Creek Mitigation Bank LLC	Private Commercial	Wetland
MS	Mobile	Deaton Mitigation Bank	2001	Approved-Soldout	The Nature Conservancy	Private Commercial	Wetland
MS	Mobile	Hickory Creek Mitigation Bank	2004	Approved-Inactive-Other Reason	Wildland Restoration LLC	Private Commercial	Wetland
MS	Mobile	Mississippi Wetlands Bank	2000	Approved-active	Wetlands Solutions, LLC	Private Commercial	Wetland
MS	Mobile	Mississippi Wetlands George County Mitigation Bank	2005	Approved-active	Wetland Solutions, LLC	Private Commercial	Wetland
MS	Mobile	Murphrey Evans Mitigation Bank	2005	Pending	Mr. Murphrey Evans		Wetland
MS	Mobile	Old Fort Bayou Mitigation Bank	1997	Approved-active	The Nature Conservancy	Private Commercial	Wetland
MS	Mobile	Red Creek Mitigation Bank	2005	Pending	The Nature Conservancy	Single-client	Both Wetland and Stream
MS	Mobile	Rhodes Lake Mitigation Bank	2004	Approved-Inactive-Other Reason	International Paper Co.	Private Commercial	Wetland
MS	Vicksburg	Big Black Mitigation Bank		Pending	Big Black Mitigation Bank, LLC	Private Commercial	Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
MS	Vicksburg	Pearl River Mitigation Bank	2001	Approved-active	BL Properties, LLC	Private Commercial	Wetland
MS	Vicksburg	Stennis Space Center Mitigation Bank	1996	Approved-active	NASA	Single-client	Wetland
MS	Vicksburg, Memphis	Delta Mitigation Bank	2001	Approved-active	Greenhead Farms, LLC	Private Commercial	Wetland
NC	Wilmington	Barra Farms Cape Fear Regional Mitigation Bank	1999	Approved-active	Ecosystems Land Mitigation Bank Corp.	Private Commercial	Wetland
NC	Wilmington	Bear Creek - Sleepy Creek Mitigation Bank		Pending	Mr. George Howard	Private Commercial	Wetland
NC	Wilmington	Bear Creek Mill Branch Mitigation Bank		Approved-active	George Howard	Private Commercial	Wetland
NC	Wilmington	Croatan Wetlands Mitigation Bank		Approved-active	North Carolina DOT	Single-client	Wetland
NC	Wilmington	Deep Creek Mitigation Bank		Pending	Mr. Lamar Beasley		
NC	Wilmington	Deep Creek Wetland Mitigation Bank		Approved-active			Both Wetland and Stream
NC	Wilmington	Fisher River Wetland Mitigation Bank		Approved-active			Both Wetland and Stream
NC	Wilmington	Flat Swamp Wetland Mitigation and Stream Restoration Bank	2000	Approved-active	Mr. Douglas J. Frederick	Private Commercial	Wetland
NC	Wilmington	Greater Sandy Run Mitigation Bank	1999	Approved-active	United States Marine Corps	Single-client	Wetland
NC	Wilmington	Hidden Lake Wetland Mitigation Bank	1998	Approved-Inactive-Other Reason	Hidden Lake, LLC and Big Pine, LLC	Private Commercial	Wetland
NC	Wilmington	Hoffman Forest Wetland Mitigation Bank		Approved-active			Wetland
NC	Wilmington	Pott Creek Mitigation Bank		Pending	J.T. Peacock		
NC	Wilmington	Scuppernong River Corridor Wetland Mitigation Bank	1998	Approved-Soldout	Triangle Group	Private Commercial	Wetland
NC	Wilmington	Sides Mitigation Bank		Pending			Wetland
NC	Wilmington	Tar-Pam Wetland and Stream Mitigation Bank		Pending			Both Wetland and Stream
NC	Wilmington	Vann Swamp Mitigation Bank		Pending			Wetland
NE	Omaha	Blue Heron Wetland Mitigation Bank	2001	Approved-active	George and John Hendricks	Private Commercial	Wetland

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
NE	Omaha	City of Lincoln Wetland Mitigation Bank	2003	Approved-active	City of Lincoln		Wetland
NE	Omaha	Hobson Yard Wetland Mitigation Bank	1997	Approved-active	Burlington Northern Santa Fe Railway	Single-client	Wetland
NE	Omaha	North Platte Wetland Mitigation Bank	2000	Approved-active	City of North Platte	Public Commercial	Wetland
NJ	New York	Bog Brook Wetlands Enhancement Bank	1995	Approved-Soldout	Transcontinental Gas Pipeline Corporation	Single-client	Wetland
NJ	New York	C&C Builders Wetland Mitigation Bank Phase I	1998	Approved-active	C&C Builders LLC	Single-client	Both Wetland and Stream
NJ	New York	Marsh Resources Inc. Meadowlands Mitigation Bank	1999	Approved-active	Marsh Resources Inc.	Private Commercial	Wetland
NJ	New York	Pio Costa Wetlands Mitigation Bank	1995	Approved-active	Anthony Pio Costa	Private Commercial	Wetland
NJ	New York	Rancocas Wetland Mitigation Bank Phase I	2001	Approved-active	Rancocas Investments LLC	Private Commercial	Wetland
NJ	New York	Vivian Chimento Wetland Mitigation Bank	1995	Approved-Soldout	Vivian Chimento	Private Commercial	Wetland
NJ	New York	Willow Grove Lake Wetlands Mitigation Bank	1994	Approved-active	The Nature Conservancy	Private Commercial	Wetland
NJ	New York	Woodbury Creek Wetlands Mitigation Bank	1995	Approved-Inactive-Other Reason	US Wetland Services	Private Commercial	Wetland
NJ	New York	Wyckoff's Mills Wetland Mitigation Bank	1997	Approved-active	Millstone River Wetlands Services, Inc.	Private Commercial	Wetland
NY	Buffalo	D.G. Marfurt Wetland Mitigation Bank		Pending	D.G. Marfurt	Private Commercial	Wetland
NY	Buffalo	Grand River Lowlands and Cherry Valley Mitigation Sites	1999	Approved-active	Wetlands Preservation, Ltd.	Private Commercial	Wetland
NY	Buffalo	Rochester's Cornerstone Group-Rochester International Commerce Center Wetland Mitigation Bank	1998	Approved-active	Rochester's Cornerstone Group-Rochester International Commerce Center LLC	Private Commercial	Wetland
NY	Buffalo	Tonawanda Creek Mitigation Bank		Pending			
NY	New York	Fort Drum Mitigation Bank	2003	Approved-active	US Army at Fort Drum	Single-client	Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
OH	Buffalo	Sandy Ridge Mitigation Site	1996	Approved-Soldout	Ohio Wetlands Foundation	Private Commercial	Wetland
OH	Buffalo	Three Eagles Mitigation Site	1999	Approved-active	Ohio Wetlands Corp.	Private Commercial	Wetland
OH	Buffalo	Trumbull Creek Mitigation Site	2000	Approved-active	Ohio Wetlands Corp.	Private Commercial	Wetland
OH	Huntington	Big Island	1994	Approved-Soldout	Ohio Wetlands Foundation	Private Commercial	Wetland
OH	Huntington	Crystal Springs Mitigation Bank		Pending	Wetlands Preservation, Ltd.	Private Commercial	Wetland
OH	Huntington	Hebron Mitigation Bank	1993	Approved-Soldout	Ohio Wetlands Foundation	Private Commercial	Wetland
OH	Huntington	Little Scioto Mitigation Bank - Phase II		Approved-active	Wetlands Resource Center	Private Commercial	Wetland
OH	Huntington	Little Scioto River Mitigation Bank	1999	Approved-active	Wetlands Resource Center	Private Commercial	Wetland
OH	Huntington	Panzner Wetland Wildlife Reserve Mitigation Bank	1999	Approved-active	Panzner & Sons, Inc.	Private Commercial	Wetland
OH	Huntington	Redstone Farm Wetland Mitigation Bank		Pending	Wulsin Land Co.		Wetland
OH	Huntington	Shannon Valley		Pending	Greg Hilty	Private Commercial	Wetland
OH	Huntington	Slate Run Mitigation Site	1999	Approved-Soldout	Ohio Wetlands Foundation	Private Commercial	Wetland
OK	Tulsa	Excel Mitigation Center	2004	Approved-active	Excel	Private Commercial	Wetland
OR	Portland	Amazon Creek Mitigation Bank	2002	Approved-active			Wetland
OR	Portland	Astoria Airport Mitigation Bank	1987	Approved-active	Oregon Division of Public Lands	Public Commercial	Wetland
OR	Portland	Cow Hollow	2004	Approved-active	Steve Denney	Private Commercial	Wetland
OR	Portland	Don Wilbur		Pending	Don Wilbur	Private Commercial	Wetland
OR	Portland	East Fork Minnow Creek		Pending	Oregon Dept. of Transportation	Private Commercial	Both Wetland and Stream



**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
OR	Portland	Fernhill Mitigation Bank	2005	Approved-Inactive-Other Reason	Clean Water Services		Wetland
OR	Portland	Foster Creek		Pending	Paul Agrimis, David Gorman, Mark Vlahakis	Private Commercial	Wetland
OR	Portland	Frazier Creek	2003	Approved-active	Kenneth Reynolds	Private Commercial	Wetland
OR	Portland	Marion Mitigation Bank	2001	Approved-Inactive	Richard Novitzki	Private Commercial	Wetland
OR	Portland	Mid-Valley	2005	Approved-active	Marvin and Cindy Gilmour	Private Commercial	Wetland
OR	Portland	Mirror Lake		Pending	Oregon Dept. of Transportation	Single-client	Both Wetland and Stream
OR	Portland	Mud Slough Wetland Mitigation Bank	2000	Approved-active	Mark and Deborah Knaupp	Private Commercial	Wetland
OR	Portland	Oak Creek Mitigation Bank	1999	Approved-Inactive	Richard Novitzki and Duane Smith	Private Commercial	Wetland
OR	Portland	One Horse Slough		Pending	Al Sullivan, Pat Thompson, Steve Smith	Private Commercial	Wetland
OR	Portland	Quamash Prairie		Pending	Lane County Public Works	Public Commercial	Wetland
OR	Portland	Riverbend Landfill		Pending	Riverbend Landfill Company	Private Commercial	Wetland
OR	Portland	Santiam River		Pending	Oregon Dept. of Transportation	Single-client	Both Wetland and Stream
OR	Portland	Weathers' Wetland Mitigation Bank	1998	Approved-active	Harley and Emily Weathers, and Don Causey	Private Commercial	Wetland
OR	Portland	Winmar (Catellus) Mitigation Bank	1995	Approved-Soldout	Winmar Pacific, Inc	Private Commercial	Wetland
SC	Charleston	Big Pine Tree Creek (South Carolina Dept. of Transportation)		Pending	South Carolina Dept. of Transportation	Single-client	Wetland
SC	Charleston	Black River Bottomland Hardwoods Mitigation Bank	1998	Approved-active	Ecological Associates, Inc.	Private Commercial	Wetland
SC	Charleston	Black River Mitigation Bank (South Carolina Dept. of Transportation)	1994	Approved-active	South Carolina Dept. of Transportation	Single-client	Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
SC	Charleston	Congaree Carton Mitigation Bank	2005	Approved-active	The Earthworks Group & Congaree Carton, LP	Private Commercial	Wetland
SC	Charleston	Friends Neck Wetland Mitigation Bank	1995	Approved-Inactive-Suspended	Mr. C. Heath Manning, Manning Company	Private Commercial	Wetland
SC	Charleston	Grove Creek Mitigation Bank	2005	Approved-active	Environmental Permitting Consultants, Inc. & Hollingsworth Funds, Inc.	Private Commercial	Both Wetland and Stream
SC	Charleston	Huspa Creek Wetland Mitigation Bank (South Carolina Dept. of Transportation)	1998	Approved-active	South Carolina Dept. of Transportation	Single-client	Wetland
SC	Charleston	Playcard II Mitigation Bank	1998	Approved-active	Horry County Conservation Foundation, Inc.	Private Commercial	Wetland
SC	Charleston	Playcard Mitigation Bank	1997	Approved-Soldout	Horry County Conservation Foundation, Inc.	Private Commercial	Wetland
SC	Charleston	Richland County Broad River Mitigation Bank	1997	Approved-active	Richland County	Single-client	Both Wetland and Stream
SC	Charleston	Sandhills Mitigation Bank	2005	Approved-active	Southeastern Environmental Solutions, Dr. & Mrs. Edmund Taylor	Private Commercial	Both Wetland and Stream
SC	Charleston	Sandy Island Mitigation Bank (South Carolina Dept. of Transportation)	1996	Approved-active	South Carolina Dept. of Transportation	Single-client	Wetland
SC	Charleston	Swallow Savannah Mitigation Bank	1997	Approved-active	IB Lawton, Jr. and D.E. Gatlin	Private Commercial	Wetland
SC	Charleston	Sweetleaf Swamp Mitigation Bank	2005	Approved-active	Newkirk Environmental, Inc.	Private Commercial	Wetland
SC	Charleston	Vandross Bay Mitigation Bank	1994	Approved-Soldout	Combahee Land Company	Private Commercial	Wetland
SD	Omaha	City of Sioux Falls Wetland Mitigation Bank		Pending	City of Sioux Falls		Wetland
TN	Memphis	Madison County Wetland Mitigation Bank	1996	Approved-active	Tennessee Dept. of Transportation	Single-client	Wetland
TN	Memphis	Obion Wetland Mitigation Bank Site Plan	2000	Approved-active	Tennessee DOT	Single-client	Wetland
TN	Memphis	PictSweet Stream and Wetland Bank		Pending	PictSweet Rossville Farm	Private Commercial	Both Wetland and Stream
TN	Memphis	Wolf River Wetland Mitigation Bank	1997	Approved-active	Wolf River Mitigation Bank, LLC	Private Commercial	Wetland

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
TN	Nashville	Coffee County Wetland Mitigation Bank	1995	Approved-active	National Ecological Foundation	Private Commercial	Wetland
TN	Nashville	Harpeth Wetland Mitigation Bank	1998	Approved-active	Harpeth Wetland Bank, LLC	Private Commercial	Wetland
TN	Nashville	Indian Creek Wetland Mitigation Bank	2002	Approved-active	Wetland and Environmental Technologies of Tennessee (WETT, LLC)	Private Commercial	Wetland
TN	Nashville	Shady Valley Wetland Mitigation Bank	1997	Approved-active	The Nature Conservancy	Private Commercial	Wetland
TX	Fort Worth	Anderson Tract Mitigation Bank	1994	Approved-active	Texas Department of Transportation	Single-client	Wetland
TX	Fort Worth	Big Woods on the Trinity River Mitigation Bank	2002	Approved-active	Robert F. McFarland		Wetland
TX	Fort Worth	Bunker Sands Mitigation Bank		Pending	Wetlands Management, LP	Private Commercial	Both Wetland and Stream
TX	Fort Worth	Byrd Tract Mitigation Bank	1998	Approved-active	Enron Oil and Gas Company	Single-client	Wetland
TX	Fort Worth	Hawkins Mitigation Bank	1998	Approved-active	R. Lacy, Inc.	Single-client	Wetland
TX	Fort Worth	Hearts Bluff Mitigation Bank		Pending	Billy and Bobby Lide	Private Commercial	Both Wetland and Stream
TX	Fort Worth	Klamm Mitigation Bank	1998	Approved-active	KLAMM Inc.	Private Commercial	Wetland
TX	Fort Worth	Martin Creek Mitigation Bank		Pending	Hembry Estates	Private Commercial	Wetland
TX	Fort Worth	Sabal Wetland Preserve Mitigation Bank	2004	Approved-active	Sabal Ventures, Inc.	Private Commercial	Wetland
TX	Fort Worth	South Forks Trinity River Mitigation Bank		Pending	Johnny Powers	Private Commercial	Both Wetland and Stream
TX	Fort Worth	Steele Creek Mitigation Bank	2004	Approved-active	Steele Creek Properties, Inc.	Private Commercial	Wetland
TX	Fort Worth	Trinity River Mitigation	2001	Approved-active	Wetland Partners	Private Commercial	Both Wetland and Stream
TX	Fort Worth	West Minola Mitigation Bank	2004	Approved-active	Anadarko Petroleum		Wetland
TX	Fort Worth, Galveston	Pineywoods Mitigation and Conservation Area		Pending	Neches River Corridor, LLC	Private Commercial	Both Wetland and Stream
TX	Galveston	Bank 1 (Blue Elbow Swamp Mitigation Bank)	1995	Approved-active	Texas Dept. of Transportation	Single-client	Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
TX	Galveston	Bank 2 (Coastal Bottomlands Mitigation Bank)	1999	Approved-active	Texas DOT	Single-client	Wetland
TX	Galveston	Fennessey Ranch Wetland Mitigation Bank		Pending		Private Commercial	Wetland
TX	Galveston	Greens Bayou Wetland Mitigation Bank	1995	Approved-active	Harris County Flood Control	Public Commercial	Wetland
TX	Galveston	Katy Prairie Mitigation Bank	1998	Pending	BFI Waste Systems of America	Private Commercial	Wetland
TX	Galveston	Katy-Cypress Wetland Mitigation Bank	1996	Approved-active	Lieven J. Van Riet	Private Commercial	Wetland
TX	Galveston	Neches River Cypress Swamp Preserve	1999	Approved-active	Wetlands Mitigation Replacement of Southeast Texas	Private Commercial	Wetland
TX	Galveston	Palacios Wetland Mitigation Bank	2000	Approved-Inactive-Other Reason	Oak Meadows, Inc.	Private Commercial	Wetland
UT	Sacramento	Bailey's Meadow Mitigation Bank	1999	Approved-active	Diversified Habitats	Private Commercial	Wetland
UT	Sacramento	Inland Sea Shorebird Reserve Bank	1997	Approved-active	Kencott Utah Copper Corp.	Single-client	Wetland
UT	Sacramento	Machine Lake Mitigation Bank		Pending	Adam Adams		
UT	Sacramento	Rainey Mitigation Bank	1996	Approved-Soldout	Diversified Habitats, LLC	Private Commercial	Wetland
UT	Sacramento	Seifert Mitigation Bank	1996	Approved-Soldout	Diversified Habitats	Private Commercial	Wetland
UT	Sacramento	UDOT Region 2 Wetland Mitigation Bank		Pending	Utah DOT		
UT	Sacramento	Warner Mitigation Bank		Approved-Inactive-Suspended			Wetland
VA	Norfolk	Appomattox Mitigation Bank	2004	Approved-active	Mike Kelly	Private Commercial	Both Wetland and Stream
VA	Norfolk	Bannister Bend Mitigation Bank	2004	Approved-active	Mel Thomas	Private Commercial	Both Wetland and Stream
VA	Norfolk	Blackjack Wetland Mitigation Bank	2003	Approved-active	Blackjack LLC	Private Commercial	Wetland

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
VA	Norfolk	Bull Run Wetlands Bank	2002	Approved-active	Wetland Studies and Solutions	Private Commercial	Wetland
VA	Norfolk	Burnley Farms Wetland Mitigation Bank	2004	Approved-active	Burnley Farms	Private Commercial	Wetland
VA	Norfolk	Byrd Creek Wetland Mitigation Bank	2003	Approved-active	Joe Liesfield	Private Commercial	Wetland
VA	Norfolk	Cedar Run Wetlands Bank	2000	Approved-active	Cedar Run Wetlands, LC	Private Commercial	Wetland
VA	Norfolk	Chesapeake Land Development Tidal Mitigation Bank	2004	Approved-active	Chesapeake Land Development, LLC	Private Commercial	Wetland
VA	Norfolk	Chickahominy Environmental Bank	2000	Approved-active	Gray Cole, LLC	Private Commercial	Wetland
VA	Norfolk	City of Portsmouth Virginia Wetland Bank		Pending			Wetland
VA	Norfolk	Coverly Mitigation Bank	2004	Approved-active	Draper Aden	Private Commercial	Wetland
VA	Norfolk	Cypress Springs Mitigation Bank	2004	Approved-active	John McQueen	Private Commercial	Both Wetland and Stream
VA	Norfolk	Dundee Mitigation Bank		Pending		Private Commercial	
VA	Norfolk	Foggy Bottom Wetland Farm	2004	Approved-active	Foggy Bottom, LLC	Private Commercial	Wetland
VA	Norfolk	Great Oaks	2004	Approved-active	VA DOT	Single-client	Wetland
VA	Norfolk	Halifax Farm Environmental Bank	2004	Approved-active	Easrth Source Solutions	Private Commercial	Wetland
VA	Norfolk	Hampton Roads Wetland (Compaz) Mitigation Bank		Pending	Malcolm Pirnie, Inc.	Private Commercial	Wetland
VA	Norfolk	HHHunt Mitigation Bank		Pending	HH Hunt	Single-client	Wetland
VA	Norfolk	Highland Springs Mitigation Bank		Pending			Wetland
VA	Norfolk	James River Mitigation Landbank	1998	Approved-active	James River Wetland Mitigation Landbank LLC	Private Commercial	Both Wetland and Stream
VA	Norfolk	King William Mitigation Bank		Pending	WEG	Private Commercial	Both Wetland and Stream
VA	Norfolk	Liesfield Wetland Mitigation Bank		Pending			Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
VA	Norfolk	Massaponax Mitigation Bank		Pending	Crossways LLC	Private Commercial	Both Wetland and Stream
VA	Norfolk	Mattaponi Wetland Bank	2001	Approved-active	VA Dept. of Transportation	Single-client	Wetland
VA	Norfolk	Mountain Run	2002	Approved-active	VA DOT	Single-client	Both Wetland and Stream
VA	Norfolk	Neabsco Wetland Bank (Julie J. Metz)	1994	Approved-Soldout	Wetlands Studies and Solutions, Inc.	Private Commercial	Wetland
VA	Norfolk	New Kent Environmental Bank		Approved-active	Luck Sand and Gravel, LLC	Private Commercial	Both Wetland and Stream
VA	Norfolk	New Kent Wetland Mitigation Bank	2003	Approved-active	Jon Mathiasen	Private Commercial	Wetland
VA	Norfolk	North Fork Wetland Bank	1999	Approved-active	North Forks Wetlands Bank, LC	Private Commercial	Wetland
VA	Norfolk	North Landing River Mitigation Bank		Pending		Private Commercial	Wetland
VA	Norfolk	Northern Virginia Stream Restoration Bank		Pending	Wetland Studies and Solutions	Private Commercial	Stream
VA	Norfolk	ODEC - Virginia Power Wetland Mitigation Bank	1997	Approved-active	Old Dominion Electric Cooperative	Private Commercial	Wetland
VA	Norfolk	Pristine Wetland Mitigation Bank		Pending		Private Commercial	Wetland
VA	Norfolk	Rappahannock Mitigation Bank	2005	Approved-active	The CWI Group	Private Commercial	Both Wetland and Stream
VA	Norfolk	Richmond International Airport Wetland Mitigation Bank		Pending	Capital Region Airport Commission		Wetland
VA	Norfolk	Ritchie Road Mitigation Bank		Pending	Marsh Resources	Private Commercial	Wetland
VA	Norfolk	Shenandoah Wetland Bank	2001	Approved-active	POC - Williamsburg Environmental	Private Commercial	Both Wetland and Stream
VA	Norfolk	Upper Rappahannock Mitigation Bank		Pending	Environmental Banc & Exchange, LLC	Private Commercial	Both Wetland and Stream
VA	Norfolk	Virginia Department of Transportation Goose Creek Bank	1982	Approved-active	VA DOT	Single-client	Wetland
VA	Norfolk	Virginia Habitats II	2002	Approved-active	Earth Source Solutions	Private Commercial	Both Wetland and Stream

**APPENDIX B: Mitigation Banks**

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
VA	Norfolk	White Cedar Mitigation Bank	1995	Approved-Soldout	White Cedar, LLC	Private Commercial	Wetland
VA	Norfolk	William Benjamin Nottoway River Wetland Bank		Approved-active	VA DOT	Single-client	Wetland
VA	Norfolk	Willis River	2004	Approved-active	Mel Thomas	Private Commercial	Both Wetland and Stream
VA	Norfolk	Woodland Mitigation Bank		Pending		Private Commercial	Wetland
VA	Norfolk	Woods at Warrenton		Pending	Angler Environmental	Private Commercial	Both Wetland and Stream
VA	Norfolk	Wreck Island Stream Bank	2005	Approved-active	Virginia Habitats LLC	Private Commercial	Stream
VA	Norfolk	York River Mitigation Bank		Approved-active		Private Commercial	Wetland
WA	Seattle	Lummi Tribal Bank		Pending	Lummi Nation	Combination Public/Private	Wetland
WA	Seattle	McHugh Wetland Mitigation Bank	2000	Approved-active	Joe McHugh/Pacific County Public Works	Single-client	Wetland
WA	Seattle	Meadowcroft Bank Loon Lake	2005	Approved-active		Private Commercial	
WA	Seattle	Meadowland Wetland Mitigation Bank	1997	Approved-Soldout	James Dutro	Private Commercial	Wetland
WA	Seattle	Nookachamps LLC Wetland Mitigation Bank		Pending	Wildlands, Inc.	Private Commercial	Wetland
WA	Seattle	Skagit Environmental Bank		Pending	Sustainable Environments LLC	Private Commercial	Both Wetland and Stream
WA	Seattle	Skykomish Habitat Mitigation Bank		Pending	Skyhomish Habitat LLC	Private Commercial	Both Wetland and Stream
WA	Seattle	Snohomish Basin Mitigation Bank	2005	Approved-active	Habitat Bank, LLC	Private Commercial	Wetland
WI	St. Paul	CCHCC Wetland Bank		Approved-active			
WI	St. Paul	Cherrier Bros Wetland Compensatory Mitigation Bank		Pending			
WI	St. Paul	Dane County Wetland Mitigation Bank (Lodi Site)	1998	Approved-active	Dane County Highway Department	Single-client	Wetland

State	Corps District	Bank Name	Year Est.	Status	Bank Sponsor	Bank Type	Credit Type(s)
WI	St. Paul	Gary Jensen Bank (USACE File #199802599)		Approved-active	Gary Jensen		
WI	St. Paul	Northland Cranberries Wetland Mitigation Bank	1999	Approved-active	Northland Cranberries, Inc.	Private Commercial	Wetland
WI	St. Paul	Onyx Emerald Park Wetland Preserve		Approved-active	Onyx Waste Service		
WI	St. Paul	Onyx Glacier Ridge Wetland Preserve		Approved-active	Onyx Waste Service	Single-client	
WI	St. Paul	Patrick Lake Wetland Mitigation Bank	1989	Approved-Soldout	WI DOT	Single-client	Wetland
WI	St. Paul	Sturms Wetland Bank		Pending			
WI	St. Paul	Upper Chippewa Wetland Mitigation Bank		Approved-active	Alf Sivertson		
WI	St. Paul	Wisconsin Waterfowl Association Bank (Walkerwin Bank)	1996	Approved-active	Wisconsin Waterfowl Associates Wetland Mitigation Group, LLC	Private Commercial	Wetland
WI	St. Paul	Wood County Highway Bank	1999	Approved-active	Wood County Highway Department	Single-client	Wetland
WV	Huntington	West Virginia Wetland Bank		Pending			



## Appendix C: Umbrella Banking Agreements – Data

Below are approved and pending umbrella banking agreements, grouped by state and further sorted by Corps district. The year the umbrella agreement was formally established (received official signatures) is indicated. The agreement sponsor is the entity responsible for credit production. Each umbrella agreement is categorized as single-client, public commercial, private commercial, combination public-private commercial, or public. The type of credits sold by each bank is noted and may include wetland credits, stream credits, or both credit types. The number of sites is the total number of bank sites approved for mitigation under the agreement, the number of acres is the total number of acres approved for wetland mitigation and the number of linear feet is the number of linear feet approved for stream mitigation. Blank fields indicate that information was not available or was not provided by the Corps districts at the time of data collection. Information was collected from August to October 2005 and verified from December 2005 to February 2006.

State	Corps District	Umbrella Agreement Name	Year Est.	Status	Agreement Sponsor	Agreement Type	Credit Type(s)	# Sites	# Acres	# Linear Feet
AK	Alaska	SE Alaska		Approved -Inactive			Wetland and Stream	0		
AL	Mobile	Alabama Department of Transportation Bank	1996	Approved -active	Alabama Department of Transportation	Single-Client	Wetland	9	1715	
AR	Memphis, Vicksburg, Little Rock	Arkansas State-Sponsored Wetlands Mitigation Bank	1998	Approved -active	Arkansas Soil and Water Conservation Commission	Public Commercial	Wetland	1	320	
GA	Savannah	The Streambank (North Georgia Regional Rivers & Streams Mitigation Project)	2000	Approved -active	Save Our Streams LLC	Private Commercial	Stream	0	0	0
KY	Louisville	CreekBankers, Inc.	2005	Approved -active	CreekBankers, Inc.	Private Commercial	Stream			
KY	Louisville Louisville	TECO Coal Corp. Mitigation Specialist, LLC Program		Pending Pending	TECO Coal Corp. Mitigation Specialist, LLC		Stream			

State	Corps District	Umbrella Agreement Name	Year Est.	Status	Agreement Sponsor	Agreement Type	Credit Type(s)	# Sites	# Acres	# Linear Feet
LA	New Orleans	Interagency Agreement: The Nature Conservancy Longleaf Pine Flatwood/Savanna Mitigation Banks		Approved -Inactive						
LA	New Orleans	Southeast Louisiana Pine Flatwood Wetland Mitigation Bank		Approved -Inactive						
MA	New England	Massachusetts Pilot Wetlands Banking Project		Other-- Non-Corps Program	Massachusetts	Public Commercial	Wetland			
MD	Baltimore	Prince George's County Wetland Banking System	1994	Approved -Inactive	Prince George's County Government and the Maryland-National Capitol Park and Planning Commission	Single-Client	Wetland			
MI	Detroit	Michigan DOT Umbrella Agreement	2004	Approved -active	MI DOT	Single-Client	Wetland	1	68.9	
MI	Detroit	Wayne County Wetland Mitigation Bank	1999	Approved -active	Wayne County	Public Commercial	Wetland	9	21.5	
MN	St. Paul	Minnesota Wetland Bank		Approved -active	Minnesota Board of Water & Soil Resources (BWSR)	Public Commercial	Wetland	99 active, 67 sold-out, 136 pending	858.55 available, unknown number soldout	
MO	Kansas City, St. Louis, Memphis, Little Rock, Rock Island	Missouri DOT Umbrella Wetland and Stream Mitigation Banking Instrument		Pending	Missouri Dept. of Transportation	Single-Client	Wetland and Stream	17 potential service areas, 2 sites in planning	none yet	none yet
MS	Mobile, Vicksburg	South Mississippi Mitigation Bank	2000	Approved -active	Little Biloxi Wetland Trust, Inc.	Private Commercial	Wetland	3	1421	

**APPENDIX C: Umbrella Banking Agreements**

State	Corps District	Umbrella Agreement Name	Year Est.	Status	Agreement Sponsor	Agreement Type	Credit Type(s)	# Sites	# Acres	# Linear Feet
MS	Vicksburg	Argyle, Inc. Mitigation Banking Program Agreement	2000	Approved -Inactive	Argyle, Inc.	Private Commercial	Wetland	0	0	0
MS	Vicksburg	Mississippi Band of Choctaw Indians Mitigation Banking Program Agreement		Approved -active	Mississippi Band of Choctaw Indians (MCBI), Phillip Martin, Tribal Chief	Single-Client	Wetland	1	50	
MS	Vicksburg	Mississippi Highway Department Mitigation Bank	1999	Approved -active	Mississippi State Highway Dept.	Single-Client	Wetland	5	5694.3	
NC	Wilmington	Charlotte Umbrella Stream and Wetland Mitigation Bank	2004	Approved -active	City of Charlotte	Single-Client	Wetland and Stream	3		
NC	Wilmington	Louis Berger Wetland Bank		Pending	Mr. Marc Seelinger					
NC	Wilmington	Neu-Con Umbrella Mitigation Bank	2001	Approved -active	Environmental Banc & Exchange, LLC	Private Commercial	Wetland	1	37	
NC, VA	Wilmington, Norfolk	Great Dismal Swamp Restoration Bank Umbrella MOA	1997	Approved -active	Great Dismal Swamp Restoration Bank, LLC	Private Commercial	Wetland	1 in NC, 3 in VA	4000 in NC, 2750 in VA	
NE	Omaha	Nebraska Department of Roads Wetland Mitigation Bank	1997	Approved -active	Nebraska Department of Roads	Single-Client	Wetland	18	over 1,000	
NE	Omaha	Papio-Missouri River Natural Resources District Wetland (Umbrella) Agreement	2000	Approved -active	Papio-Missouri River Natural Resources District	Public Commercial	Wetland	1	10	
NV	Sacramento	Clark County Mitigation Bank	2000	Approved -active	Clark County, NV	Public Commercial	Wetland	0	0	0
OH	Buffalo, Huntington	North Coast Regional Wetland and Stream Mitigation Bank	2001	Approved -active	North Coast Regional Council of Park Districts	Public Commercial	Wetland	6	288.4	

State	Corps District	Umbrella Agreement Name	Year Est.	Status	Agreement Sponsor	Agreement Type	Credit Type(s)	# Sites	# Acres	# Linear Feet
OK	Tulsa	Memorandum of Agreement for the Development and Use of Wetlands Mitigation Banks	1996	Approved -active	Oklahoma Department of Transportation	Single-Client	Wetland	0	0	
OR	Portland	West Eugene Wetlands Plan	1995	Approved -active	City of Eugene	Public Commercial	Wetland	16	70	
PA	Baltimore	Interagency Agreement Advance Wetland Compensation PennDOT District 3-0	1997	Approved -active	Pennsylvania Department of Transportation, Engineering District 3-0	Single-Client	Wetland	2	32	
PA	Baltimore	Interagency Agreement Advance Wetland Compensation PennDOT District 9-0	1995	Approved -active	Pennsylvania Department of Transportation, Engineering District 9-0	Single-Client	Wetland	5	52	
PA	Baltimore, Pittsburgh	Interagency Agreement Advance Wetland Compensation PennDOT District 2-0	2000	Approved -active	Pennsylvania Department of Transportation, Engineering District 2-0	Single-Client	Wetland	3	70.24	
PA	Pittsburgh	Interagency Agreement Advance Wetland Compensation PennDOT District 12-0	2001	Approved -active	Pennsylvania Department of Transportation, Engineering District 12-0	Single-Client	Wetland	0	0	0
SC	Charleston	Memorandum of Agreement for the Savannah River Site	1997	Approved -active	U.S. Department of Energy-Savannah River Operations Office (DOE-SR)	Single-Client	Wetland	20		
SD	Omaha	Wetland Accounting System	1988	Other-- Non-Corps Program	South Dakota DOT	Single-Client				
TN	Memphis	Tennessee Dept of Transportation Umbrella Bank	1995	Approved -active	Tenn. DOT	Single-Client	Wetland	2	1145.3	
TX	Galveston	Temple-Inland Statewide Mitigation Bank		Pending	Temple-Island, Inc.	Private Commercial	Wetland and Stream			

**APPENDIX C: Umbrella Banking Agreements**

State	Corps District	Umbrella Agreement Name	Year Est.	Status	Agreement Sponsor	Agreement Type	Credit Type(s)	# Sites	# Acres	# Linear Feet
VA	Norfolk	Clinch Powell Mitigation Bank		Pending			Wetland and Stream			
VA	Norfolk	Davis Wetland Bank	1998	Approved -active	Davis Wetland Bank, LLC	Private Commercial	Wetland	1	453	
VA	Norfolk	Hampton Roads Airport Mitigation Bank	2000	Approved -active	Hampton Roads Airport Mitigation Bank, LLC	Private Commercial	Wetland	1	624	
VA	Norfolk	James River Wetland Mitigation Bank Memorandum of Agreement	1999	Approved -active	James River Mitigation Technologies, LLC	Private Commercial	Wetland	2	70.4	
VA	Norfolk	Lower James River Wetland Mitigation Bank	2001	Approved -active	James River, LLC	Private Commercial	Wetland	2	120	
VA	Norfolk	Potomac River Mitigation Bank	2004	Approved -active	Marsh Resources	Private Commercial	Wetland	1	65	
VA	Norfolk	SWB Environmental Restoration Bank	2003	Approved -Inactive	SWB LLC	Private Commercial	Wetland	1	9.07	
VA	Norfolk	Virginia Beach Wetland Mitigation Banking System Memorandum of Agreement	1994	Approved -active	City of Virginia Beach, VA	Private Commercial	Wetland	1	70.3	
WA	Seattle	Clark County Habitat and Wetland Mitigation Bank		Pending	Habitat Bank, LLC	Private Commercial	Wetland and Stream	none, 2 sites pending		
WA	Seattle	Clark County Public Works Wetland Mitigation Bank		Pending	Clark County Public Works		Wetland and Stream	none, 4 - 5 pending		
WA	Seattle	King County Wetland Mitigation Banking Program	1999	Approved -Inactive	King County	Public Commercial	Wetland	1	8	

State	Corps District	Umbrella Agreement Name	Year Est.	Status	Agreement Sponsor	Agreement Type	Credit Type(s)	# Sites	# Acres	# Linear Feet
WA	Seattle	Pierce County Public Works and Utilities Road Dept. Mitigation Banking Program	1994	Approved -Inactive	Pierce County Public Works	Single-Client	Wetland	12	14	
WA	Seattle	Snohomish County Airport Wetland Compensation Bank Program	1996	Approved -active	Snohomish County Airport	Public Commercial	Wetland	2	64 plus 23 upland acres	
WA	Seattle	Snoking Mitigation Bank		Pending	Habitat Bank LLC	Private Commercial	Wetland and Stream	none, 6 sites pending		
WA	Seattle	Washington DOT Wetland Compensation Bank Program	1994	Approved -Inactive	Washington DOT	Single-Client	Wetland			
WI	St. Paul	Wisconsin Department of Transportation Wetland Mitigation Banking Technical Guideline - Draft Revision	1993	Approved -active	Wisconsin Dept. of Transportation	Single-Client	Wetland	20 open, 14 sold-out	1560.98 available, additional acres already used	
WY		Wyoming Statewide Wetland Mitigation Bank		Other-- Non-Corps Program						
WY	Omaha	Wyoming Department of Transportation	1993	Approved -Inactive	Wyoming Department of Transportation	Single-Client		0	0	0

## Appendix D: In-Lieu Fee Mitigation Programs – Data

Below are approved and pending in-lieu-fee mitigation programs, grouped by state and further sorted by Corps district. Each program is categorized as being authorized by the Corps, by a state-level entity or by a local government entity. The type of credits sold by each bank is noted and may include various combinations of wetland credits, stream credits, and other types of credits. Blank fields indicate that information was not available or was not provided by the Corps districts at the time of data collection. Information was collected from August to October 2005 and verified from December 2005 to February 2006.

State	Corps District	Program Name	Status	Program Sponsor	Program Type	Credit Type(s)
AK	Alaska	Great Land Trust Program	Approved-Active	The Great Land Trust	Corps	Wetland, Stream and Other
AK	Alaska	Kachemak Heritage Land Trust In-Lieu-Fee Program	Approved-Active	Kachemak Heritage Land Trust	Corps	Wetland, Stream and Other
AK	Alaska	Southeast Alaska Land Trust In-Lieu-Fee Program	Approved-Active	Southeast Alaska Land Trust	Corps	Wetland, Stream and Other
AK	Alaska	The Conservation Fund In-Lieu-Fee Program	Approved-Active	The Conservation Fund	Corps	Wetland, Stream and Other
AZ	Los Angeles	Arizona Game and Fish Department ILF Mitigation Program	Approved-Active	Arizona Game and Fish Department	Corps	Stream
AZ	Los Angeles	Bureau of Land Management ILF Mitigation Program	Pending	Bureau of Land Management, AZ State Office	Corps	Both Wetland and Stream
AZ	Los Angeles	Desert Foothills Land Trust ILF Mitigation Program	Approved-Active	Desert Foothills Land Trust	Corps	Both Wetland and Stream
AZ	Los Angeles	La Paz County Endangered Species Fund 290	Approved-Active	La Paz County	Corps	Stream

State	Corps District	Program Name	Status	Program Sponsor	Program Type	Credit Type(s)
AZ	Los Angeles	Maricopa County Parks and Recreation Dept. ILF Program	Approved-Active	Maricopa County Parks and Recreation Dept.	Corps	Both Wetland and Stream
AZ	Los Angeles	McDowell-Sonoran Conservancy ILF Mitigation Program	Approved-Active	McDowell Sonoran Conservancy	Corps	Both Wetland and Stream
AZ	Los Angeles	National Audubon Society ILF Mitigation Program	Approved-Active	National Audubon Society	Corps	Both Wetland and Stream
AZ	Los Angeles	Prescott Creeks Preservation Association ILF Mitigation Program	Pending	Prescott Creeks Preservation Association	Corps	Both Wetland and Stream
AZ	Los Angeles	Superstition Area Land Trust ILF Mitigation Program	Approved-Active	Superstition Area Land Trust	Corps	Both Wetland and Stream
AZ	Los Angeles	The Nature Conservancy, Arizona Chapter Program	Pending	The Nature Conservancy, Arizona Chapter	Corps	
AZ	Los Angeles	Tucson Audubon Society ILF Mitigation Program	Approved-Active	Tucson Audubon Society	Corps	Both Wetland and Stream
CA	Los Angeles	California Dept. of Fish and Game ILF Mitigation Program	Pending	California Dept. of Fish and Game	Corps	Both Wetland and Stream
CA	Los Angeles	Calleguas Creek Watershed In-Lieu-Fee Program	Approved-Active	California Coastal Conservancy	Corps	Both Wetland and Stream
CA	Los Angeles	Los Angeles County Aquatic Resource In-Lieu-Fee Mitigation Program	Approved-Active	Santa Monica Mountains Conservancy	Corps	Both Wetland and Stream
CA	Los Angeles	Mountains Restoration Trust ILF Program	Approved-Active	Mountains Restoration Trust	Corps	Both Wetland and Stream



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**APPENDIX D: In-Lieu-Fee Mitigation Programs**

<b>State</b>	<b>Corps District</b>	<b>Program Name</b>	<b>Status</b>	<b>Program Sponsor</b>	<b>Program Type</b>	<b>Credit Type(s)</b>
CA	Los Angeles	San Gabriel River Watershed Resources ILF Program	Approved-Active	San Gabriel Mountains Regional Conservancy	Corps	Both Wetland and Stream
CA	Los Angeles	Santa Margarita Arundo Control Fund In-Lieu Fee Mitigation Program	Approved-Active	Mission Resource Conservation District	Corps	Wetland
CA	Los Angeles	Ventura River Watershed Habitat Restoration Fund	Approved-Active	Ojai Valley Land Conservancy	Corps	Wetland
CA	Sacramento	Sacramento County In-Lieu-Fee Program	Approved-Active	Sacramento Valley Open Space Conservancy	Local	Wetland
CA, NV, UT, CO	South Pacific, Sacramento	National Fish and Wildlife Foundation In-Lieu-Fee Program	Approved-Active	National Fish and Wildlife Foundation	Corps	
DE	Philadelphia	The Nature Conservancy -- Delaware Region	Pending	The Nature Conservancy	Corps	
FL	Jacksonville	Florida Audubon Society In-Lieu-Fee Program	Approved-Active	Audubon of Florida	Corps	Wetland
FL	Jacksonville	Florida Department of Transportation In-Lieu-Fee Program	Approved-Active	Florida Water Management Districts or FL DEP	State	Wetland
GA	Savannah	Georgia Environmental Policy Institute Program	Approved-Active	Georgia Environmental Policy Institute	Corps	Both Wetland and Stream
ID	Walla Walla	Idaho Fish and Wildlife Foundation In-Lieu Fee Program	Pending	Idaho Fish and Wildlife Foundation	Corps	Both Wetland and Stream
IL	Chicago	Chicago Corps District Program	Approved-Inactive	Corporation for Public Lands	Corps	Wetland
IL	Chicago	DuPage County In-Lieu-Fee Program	Approved-Active	DuPage County Department of Economic Development and Planning, Division of Environmental Concerns	Local	Wetland
KS	Kansas City	In-Lieu-Fee Mitigation Trust Fund	Pending	Sunflower Land Trust	Corps	Both Wetland and Stream

State	Corps District	Program Name	Status	Program Sponsor	Program Type	Credit Type(s)
KS	Kansas City	Kansas Aquatic Resources Trust Fund	Pending	The Watershed Institute	Corps	Both Wetland and Stream
KY	Huntington, Louisville, Nashville	In-Lieu-Fee Program for Stream and Wetland Mitigation	Approved-Active	Kentucky Dept. of Fish & Wildlife Resources	Corps	Both Wetland and Stream
KY	Louisville	Louisville and Jefferson County Metropolitan Sewer District Program	Approved-Active	Louisville and Jefferson County Metropolitan Sewer District	Corps	Both Wetland and Stream
KY	Louisville	Northern Kentucky University In-Lieu-Fee Program	Approved-Active	Northern Kentucky University	Corps	Both Wetland and Stream
LA	New Orleans	Louisiana Department of Natural Resources Program	Approved-Active	Louisiana Department of Natural Resources	State	Wetland
LA, MS, AR	Vicksburg	Delta Environmental Land Trust Association Program	Approved-Inactive	Delta Land Trust	Corps	Wetland
MD	Baltimore	Maryland Department of Environment Program	Approved-Active	Maryland Dept. of Environment	State	Wetland
MI, IN	Detroit	Ducks Unlimited Detroit District In-Lieu Fee Program	Pending	Ducks Unlimited, Ann Arbor, MI	Corps	Wetland
MO	Kansas City, St. Louis, Little Rock, Memphis	Stream Stewardship Trust Fund	Approved-Active	Missouri Conservation Heritage Foundation	Corps	Stream
MT	Omaha	Montana Wetlands Legacy	Approved-Active	Montana Department of Fish, Wildlife, and Parks	Corps	Both Wetland and Stream
NC	Wilmington	North Carolina Dept. of Environment and Natural Resources Program	Approved-Active	North Carolina Dept. of Environment and Natural Resources	Corps	Both Wetland and Stream
NJ	New York	New Jersey Wetlands Mitigation Council Program	Approved-Active	New Jersey Department of Environmental Protection	State	Wetland

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**APPENDIX D: In-Lieu-Fee Mitigation Programs**

<b>State</b>	<b>Corps District</b>	<b>Program Name</b>	<b>Status</b>	<b>Program Sponsor</b>	<b>Program Type</b>	<b>Credit Type(s)</b>
OH	Huntington	Ohio Wetlands Corporation In-Lieu-Fee Program (Lake Choctaw)	Approved-Inactive	Ohio Wetlands Corporation	Corps	Wetland
OH	Huntington	Singer Lake Bog In-Lieu-Fee Program	Approved-Inactive	Cleveland Museum of Natural History	Corps	Wetland
OH	Huntington	Sugar Creek Wetland/Watershed ILF Mitigation Initiative	Approved-Active	The Wilderness Center	Corps	Wetland
OR	Portland	Oregon Department of State Lands Program	Approved-Active	Oregon Department of State Lands	State	Wetland
PA	Baltimore, Philadelphia, Pittsburgh	Pennsylvania Wetland Replacement Project	Approved-Active	PA Dept. of Environmental Protection, National Fish and Wildlife Foundation	State	Wetland
SC	Charleston	Beidler Forest In-Lieu Fee Mitigation Program	Approved-Active	National Audubon Society	Corps	Wetland
SC	Charleston	Historic Ricefields Program	Approved-Active	Historic Ricefields Association	Corps	Wetland
TN	Memphis, Nashville	Tennessee Stream Mitigation Program	Approved-Active	Tennessee Wildlife Resources Foundation	Corps	Stream
TX	Fort Worth	The Nature Conservancy Program	Approved-Active	The Nature Conservancy	Corps	Wetland
TX	Galveston	Spring Creek ILF Program	Pending	Legacy Land Trust	Corps	Wetland
VA	Norfolk	Elizabeth River Restoration Trust Fund	Approved-Active	Elizabeth River Program	Corps	Wetland, Stream and Other
VA	Norfolk	Virginia Aquatic Resources Trust Fund	Approved-Active	The Nature Conservancy	Corps	Wetland, Stream and Other
WA	Seattle	Lake Chelan Service Area In-Lieu-Fee	Pending	Chelan-Douglas Land Trust		Other
WV	Huntington, Pittsburgh	West Virginia In-Lieu Fee Program	Pending	West Virginia Dept. of Environmental Protection	Corps	Both Wetland and Stream

## Appendix E: Compensatory Mitigation Guidance Resources

Compiled February 2006

### I. District Guidelines for Compensatory Mitigation

*(NOTE: May also include specific guidelines on mitigation banking, in-lieu-fee mitigation, or mitigation checklists)*

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Memphis District, U.S. Army Corps of Engineers. “Mitigation Guidance and Monitoring Guidelines.” September 24, 2004.

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Nashville District, U.S. Army Corps of Engineers. “Mitigation Guidelines for the Nashville District Regulatory Program.” August 2004.

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#### **IV. Mitigation Plan Checklists**

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Wilmington District, U.S. Army Corps of Engineers. “Wetland Compensatory Mitigation Considerations.” October 2002.

<http://www.saw.usace.army.mil/wetlands/Mitigation/Documents/Wetlands/Wetland%20Checklist.pdf>

Wilmington District, U.S. Army Corps of Engineers. “Stream Channel Compensatory Mitigation Planning Checklist.” April 2003.

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## **V. Templates and Sample Documents**

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Wilmington District, U.S. Army Corps of Engineers. “Model Mitigation Banking Instrument for Non-Umbrella Banks.” November 21, 2003. <http://www.saw.usace.army.mil/wetlands/Mitigation/Documents/nonumbrellaTEMPLAT E%20MBI.doc>.

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