

**Commonwealth of Massachusetts  
Department of Fish and Game**

In-Lieu Fee Program  
2019 Annual Report



March 31, 2020

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## **Introduction**

The In-Lieu Fee Program (“ILFP”) of the Massachusetts Department of Fish and Game (“DFG”) was established in May 2014. The U.S. Army Corps of Engineers (“Corps”) approved DFG to be the sponsor of a statewide program that would provide In-Lieu Fee compensatory mitigation associated with Corps permits under §404 of the Clean Water Act and/or §§9 or 10 of the Rivers and Harbors Act of 1899 and related federal rule at 33 C.F.R. Part 332 (the federal Mitigation Rule). Specifically, on May 23, 2014 the Corps and DFG signed an Instrument developed by DFG that set forth a comprehensive description of how DFG will administer its ILFP in Massachusetts. The ILFP is administered by the DFG Commissioner’s Office in collaboration with the Department’s Division of Marine Fisheries (“DMF”), Division of Fisheries and Wildlife (“DFW”) and Division of Ecological Restoration (“DER”).

The availability of DFG’s ILFP allows permittees, with the Corps’ approval, to make a monetary payment in compensation for project impacts to aquatic resources of the U.S. in Massachusetts, in-lieu of on-site mitigation. When these In-Lieu Fee (“ILF”) payments are made to the ILFP, DFG assumes legal responsibility for implementing the required mitigation, which it does by aggregating and expending the ILF payments on approved mitigation projects. The ILFP goals include implementing in-kind mitigation in the same geographical area where impacts occurred. For the purposes of the ILFP, Massachusetts is divided into geographic Service Areas. Appendix A of this report includes a map showing the boundaries of ILF Service Areas and the locations of all permitted impacts for which an ILF payment has been made (from 5/23/14 – 12/31/19).

This calendar year (“CY”) 2019 Annual Report is provided in accordance with Section XVIII of the ILF Instrument, which requires that DFG submit an annual report that includes information on each Corps-permitted project for which an ILF payment was made to DFG, the ending balance of ILFP credits advanced and released at the end of the annual reporting period for each Service Area, and a related financial accounting ledger. Appendix B includes information on all ILF payments and credits tracked from the date of the establishment of the DFG ILFP on May 23, 2014 through December 31, 2019. Section II includes the ending balance of credits and financial accounting ledger. This report also provides an update on ILF mitigation project implementation (Section III), program development plans (Section IV), and DMF ILF projects that were approved under a Memorandum of Agreement with the Corps, prior to the 2014 ILFP Instrument (Section V).

### **I. Executive Summary**

Since the DFG’s ILFP was established in May 2014, 67 Corps permittees have made an ILF payment to the program (through 12/31/19) for 83 Corps-permitted projects. The payments received by DFG since the ILFP was established total \$5,324,603. These payments were required to provide compensatory mitigation for impacts to 8.1 acres of wetlands and 715 linear feet of river and stream. Table 1 below includes a summary of freshwater and tidal mitigation credits sold and ILF payments received since program establishment.

During CY 2019 (1/1/2019 - 12/31/2019), DFG's ILFP received payments from 21 permittees who were required by the Corps to make an ILF payment. DFG received ILF payments totaling \$1,139,494 in CY 2019, for a total program revenue of \$5,324,603. The 2019 ILF payments were required to compensate for impacts to 1.83 acres of wetland resources and 15.1 linear feet of river and stream. Section II, Table 2 provides a summary of these 2019 payments and the corresponding credits sold statewide and within each Service Area. There has been no release of credits yet from ILFP mitigation projects, with exception of a DMF pre-2014 ILF project. See Table 3 for a summary of mitigation credits advanced, sold, and ending balance by Service Area.

Implementation of the first MA ILF mitigation project, an eelgrass restoration project, began in CY 2017 when the DFG's Division of Marine Fisheries (DMF) planted one-half acre of eelgrass in Salem Sound. Additional plantings and monitoring continued in 2018-2019. DFG will be requesting a partial release of credits by the Corps for the eelgrass restoration project, which completed its third year of monitoring in 2019. Five new mitigation projects were approved by the Corps in 2019. A summary of the six projects underway is provided below in Section III. The MA ILFP issued a Request for Pre-proposals in July 2019 to solicit additional mitigation projects and hired an Aquatic Mitigation Specialist in December 2019 (see Section IV for additional information).

The total expenditure of ILF program revenue by the end of calendar year 2019 amounted to \$994,997, of which \$837,713 was for mitigation project implementation and the balance for program administration. Most of the mitigation project expenditures (\$809,666) occurred during 2019.

This Annual Report includes an ILFP 2019 financial account ledger (Table 4) showing beginning and ending balances for the calendar year, with a summary of ILF payments received for each Service Area and a summary of expenditures for mitigation projects and administrative expenses. The ILFP continues to track all ILF payments received and credits sold by Service Area and by type of resource impact. See Appendix B for a listing of all ILF payments received (5/23/14 - 12/31/19) with corresponding details on permittee, Corps permit number, geographic location, and the type of resource impact for which an ILF payment was required. Several permittees made ILF payments for more than one project. Some ILF payments were for multiple resource impacts and these fees are broken-out in Appendix B to reflect the payment for each type of resource impact. Therefore, the total number of records (102) in Appendix B is greater than the total number of permittees (67) or Corps-permitted projects (83) for which an ILFP payment was made.

## **II. ILF Payments, Mitigation Credits Sold, and Calendar Year 2019 Financial Account Ledger**

A total of 8.1 wetland credits and 7.15 stream credits have been sold since the establishment of the ILFP in 2014. Wetland ILF payments and associated credit sales are calculated based on the area (square feet, acres) of impact. The sale of 8.1 wetlands credits represents ILF payments

made in compensation for a total of 8.1 acres of wetlands impact (358,836 square feet). Stream credits are calculated based on linear feet of impact. The sale of 715 stream credits reflects the receipt of ILF payments for impact to 715 linear feet of riverine aquatic resources. One stream credit is equivalent to one linear foot of stream including both banks and stream channel (e.g., impacts to one linear foot of stream on right bank only would require purchase of 0.33 stream credits). Table 1 below provides a summary of the amount of freshwater and tidal wetlands and stream credits that were sold within each ILF Service Area since the establishment of the ILFP through December 31, 2019.

**TABLE 1. Summary of Freshwater and Tidal Mitigation Credits Sold and ILF Payments Received Since Program Establishment**

Service Area Resource Type	Credits Sold		Total ILF Payments Received (5/23/14 – 12/31/19)
	Wetlands Credits	Stream Credits	
<b>Berkshire/Taconic</b> Freshwater	0.00	54.33 <sup>1</sup>	\$16,300
<b>Connecticut River</b> Freshwater	0.00	146.76 <sup>1</sup>	\$26,030
<b>Quabbin/Worcester</b> Freshwater	0.29	202.00	\$232,059
<b>Coastal-North</b> Freshwater Tidal	0.75 3.86	244.36 3.3	\$613,385 \$2,403,476
<b>Coastal-Central</b> Freshwater Tidal	0.71 0.24	64.00 0.0	\$482,104 \$148,238
<b>Coastal-South</b> Freshwater Tidal	1.84 0.41	0.0 0.0	\$1,142,358 \$260,653
<b>State-wide</b> Freshwater Tidal	<b>8.1</b> 3.59 4.5	<b>714.75</b> 711.45 3.30	<b>\$5,324,602</b> \$2,512,236 \$2,812,366

Table 2 below summarizes credits sold and payments received in 2019 by Service Area and statewide.

<sup>1</sup> The number of stream credits has been corrected since the 2017 report (revised calculations provided to DFG by the Corps)

**TABLE 2. Calendar Year 2019 ILF Payments Received and Credits Sold**

ILF Service Area	2019 Wetland Credits Sold	2019 Stream Credits Sold	2019 ILF Payments Received (1/1/19 – 12/31/19)
Berkshire/ Taconic	0.00	0.00	\$0.00
Connecticut River	0.00	15.10	\$4,530
Quabbin/Worcester	0.14	0.00	\$86,054
Coastal-North	1.6	0.00	\$998,216
Coastal-Central	0.01	0.00	\$4,706
Coastal-South	0.08	0.00	\$45,988
<b>2019 Statewide Total</b>	<b>1.83</b>	<b>15.1</b>	<b>\$1,139,494</b>

When the ILFP was established in 2014, advanced credits were allocated to the Service Areas. Table 3 outlines credits advanced, sold, released, and the ending credit balance for 2019.

**TABLE 3. Calendar Year 2019 Ending Balance of Credits by ILF Service Area**

ILF Service Area	Credits Advanced		Credits Sold		Credits Released		2019 Ending Balance (12/31/19)	
	Wetland	Stream	Wetland	Stream	Wetland	Stream	Wetland	Stream
Berkshire/ Taconic	50.00	5,741	0.00	54.33	0.00	0.00	50.00	5,687
Connecticut River	50.00	2,500	0.00	146.76	0.00	0.00	50.00	2,353
Quabbin/ Worcester	52.00	2,500	0.29	202.00	0.00	0.00	51.71	2,298
Coastal	50.00	162,819	7.82	311.7	3.00 <sup>2</sup>	0.00	45.18	162,507
<b>Statewide Total</b>	<b>202.00</b>	<b>173,560</b>	<b>8.1</b>	<b>714.8</b>	<b>3.00</b>	<b>0.00</b>	<b>193.89</b>	<b>172,845</b>

The Financial Account Ledger for Calendar Year 2019 is presented in Table 4 below. Program expenditures in 2019 were used for continuation of the DMF eelgrass restoration project and 5 new ILF projects, and for ILFP administrative costs. The Instrument allows for 17.5% of ILF payments to be used for ILFP administration.

<sup>2</sup> Credit release from pre-2014 DMF ILF project, Upper Great Marsh, Newbury.

**Table 4. ILF Program Financial Ledger - Calendar Year (CY) 2019 Annual Report**

<b>4A. Revenue and Expenditures by ILF Service Area</b>	<b>Beginning Balance Jan 1, 2019</b> ILF Payments Received 5/23/14-12/31/18	<b>CY 2019 ILF Payments Received</b> 1/1/19-12/31/19	<b>Total ILF Payments Received</b> (5/23/14 - 12/31/19)	<b>Total ILF Expenditures</b> (5/23/14 - 12/31/19)	<b>Balance ILF Program Funds</b> as of 12/31/19	<b>Ending Balance - Project Implementation<sup>1</sup></b> Available funds by Service Area 12/31/19
Berkshire/Taconic	\$16,300	\$0	\$16,300	\$13,447	\$2,853.00	\$0.00
Connecticut River	\$21,500	\$4,530	\$26,030	\$0.00	\$26,030	\$21,475
Quabbin/Worcester	\$146,005	\$86,054	\$232,059	\$0.00	\$232,059	\$191,449
Coastal	\$4,001,305	\$1,048,910	\$5,050,214	\$824,266	\$4,225,949	\$3,342,161
<i>Coastal-North</i>	<i>\$2,018,645</i>	<i>\$998,216</i>	<i>\$3,016,861</i>	<i>\$221,680</i>	<i>\$2,795,181</i>	<i>\$2,267,230</i>
<i>Coastal-Central</i>	<i>\$625,637</i>	<i>\$4,706</i>	<i>\$630,342</i>	<i>\$0.00</i>	<i>\$630,342</i>	<i>\$520,032</i>
<i>Coastal-South</i>	<i>\$1,357,023</i>	<i>\$45,988</i>	<i>\$1,403,011</i>	<i>\$602,586</i>	<i>\$800,425</i>	<i>\$554,898</i>
<b>    subtotal</b>	<b>\$4,185,110</b>	<b>\$1,139,494</b>	<b>\$5,324,603</b>	<b>\$837,713</b>	<b>\$4,486,891</b>	<b>\$3,555,085</b>
<sup>1</sup> 82.5% revenue - Project implementation    17.5% revenue - Program Administration <sup>2</sup> \$282,636 of Ending Balance is committed to approved projects in the Coastal service area				Non-admin project expenditures	Balance before Administrative expenses <sup>1</sup>	Available funds <sup>2</sup> for mitigation projects (non-admin funds)

<b>4B. Administrative State-wide Revenue and Expenditures</b>	<b>Administration portion of fees received*</b> 5/31/14-12/31/18	<b>CY 2019 Administration fees received</b> 1/1/19-12/31/19	<b>Total ILF Administration fees received</b> 5/23/14-12/31/19	<b>Total ILF Program Administration Expenditures<sup>3</sup></b> 5/23/14-12/31/19	<b>Ending Balance Administrative funds</b>
State-Wide ILF Program Administration	\$732,394	\$199,411	\$931,806	\$107,285	<b>\$824,521</b>

<sup>3</sup> Total Program Administration Expenditures are less than the cumulative amount reported in the 2018 Annual Report because DFG provided funding for portions of the administration staff salaries from non-ILF Department funds

<b>4C. MA ILF Program Financial Summary</b> 5/23/14 - 12/31/19	
Total Revenue	\$5,324,603
Total Expenditures	\$944,997
<b>Total Balance of funds</b>	<b>\$4,379,606</b>

### **III. ILFP Mitigation Projects Underway**

#### DMF Eelgrass Restoration Project, Salem Sound

The Division of Marine Fisheries (DMF) eelgrass restoration project was approved by the Corps in 2017 and awarded \$262,092 in ILF funding. The project is restoring eelgrass meadows in the ILFP's Coastal-North Service Area at the Middle Ground site in Salem Sound. The goal of this project is the restoration of ½ acre of eelgrass by 2021. DMF has completed the third year of monitoring. Restoration success is determined by the persistence and expansion of the planted eelgrass over five years, from 2017 to 2021. Current plant metrics are on the expected restoration trajectory. That is, they have continued to show planting unit survival greater than 50% and an annual increase in density and plot expansion overall. Based on monitoring to date, survival rate is at 75.6% at Middle Ground West (MGW), 86.6% at the MGW supplemental planting area and 96.3% at Middle Ground South. The supplemental plantings were to compensate for winter storm damage at one of the restoration areas. A detailed 2019 annual monitoring report for the eelgrass project will be submitted under separate cover to the Corps.

#### DMF Willowdale Dam Fishway, Ipswich MA

This ILF mitigation project is a diadromous fish passage project designed to restore connectivity between marine/estuarine habitat and freshwater spawning grounds in the Coastal-North Service Area. The project was approved by the Corps in 2019 and awarded \$122,611 in ILF funding. DMF purchased the fishway sections in October 2019. The Corps permit for work at the project site, including the fish ladder, was issued recently (January 21, 2020). The project is on track for completion in 2020.

#### DMF Marine Habitat Enhancement, Yarmouth Artificial Reef

The Yarmouth artificial reef project in the Coastal-South Service Area will enhance marine sub-tidal habitat for a range of sessile and mobile species. This mitigation project was approved by the Corps in 2019 and awarded \$275,227 in ILF funding. DMF awarded a contract for reef materials deployment in 2019. The actual deployment was delayed until January 2020 due to weather. Approximately 2040 cubic yards of concrete and granite were deployed from three barge loads. The entire site was surveyed using sidescan sonar on Jan 23, 2020. Data from the survey is being processed by DMF Habitat staff in New Bedford. The processed sidescan data will be used to verify the material was deployed to the correct area and to more accurately estimate the actual square footage of material deployed to the area. DMF is targeting a series of survey dives on the site in February 2020, weather permitting, to photo document the material layout and to verify that materials do not exceed permit requirements for height off bottom. Once that information is in hand, DMF will prepare the first Annual Report for the project.

#### Nemasket River Preservation, Middleboro MA

This mitigation project was approved by the Corps in 2019 and awarded \$405,000 in ILF funding. MA DFG/Division of Fisheries and Wildlife (MassWildlife) Land Protection Program acquired the 95-acre property (fee interest acquisition) in June 2019. The preservation site is located off Murdock Street in Middleborough, MA. This property includes over a mile of frontage on the



Nemasket River in the upper Taunton River watershed and contains BioMap2 Aquatic Core, Wetlands Core, and Species of Conservation Concern Core, as well as substantial upland buffers to these resources. Permanent protection and management of this 95-acre property by MassWildlife will ensure preservation of high-quality palustrine wetland and riverine resources in the Coastal South Service Area

#### Williams River Preservation, West Stockbridge MA

This mitigation project was approved by the Corps in 2019 and awarded \$13,447 in ILF funding. MA DFG/Division of Fisheries and Wildlife (MassWildlife) Land Protection Program acquired the 49-acre property in June 2019 (fee interest acquisition). This preservation site is located off Moscow Road in West Stockbridge, MA adjacent to MassWildlife's Maple Hill Wildlife Management Area. The property includes approximately ±5,000 feet of frontage on the Williams River and 38 acres of freshwater wetlands. The Williams River, a major tributary of the Housatonic River, is an identified Coldwater Fisheries Resource. The preservation site contains BioMap2 Wetlands Core habitat and BioMap2 Critical Natural Landscape Upland Wetland Buffer. Permanent protection and management of this parcel by MassWildlife will ensure the preservation of these aquatic resources and approximately 10 acres of upland buffer.

#### Town Farm Road Preservation, Ipswich MA

This mitigation project was approved by the Corps in 2019 and awarded \$40,000 in ILF funding. MA DFG/Division of Fisheries and Wildlife Land Protection Program acquired the 29-acre parcel (fee interest acquisition) in June 2019. The preservation site is located on Town Farm Road in Ipswich, MA. This property provides an important connection between protected areas owned by the Ipswich Conservation Commission, the Essex County Greenbelt Association and nearby state-owned lands. Permanent protection and management of this 29-acre property by MassWildlife will ensure preservation of 2 acres of coastal woodland and approximately 27 acres of estuarine intertidal wetland resources in the Coastal-North Service area.

### **IV. Future ILFP Mitigation Projects – Identification and Selection Strategy**

In 2019, DFG conducted ILFP outreach within its divisions and programs and issued a public Request for Pre-Proposals (RFP) to solicit broadly for potential mitigation projects. As a result of this effort, 25 pre-proposals were received from state agencies, municipalities and non-governmental organizations. Seven projects were selected to advance to the full proposal stage based on preliminary review by DFG, the corps and the Inter-agency Review Team (IRT). Six of these projects are preservation proposals and one is an eelgrass restoration project.

In December 2019, DFG hired an Aquatic Mitigation Specialist, the second full-time staff person for the ILF Program. This is an important development for the program, providing additional capacity to develop and implement restoration projects, and to support overall administration of the program.

During 2020, the DFG ILF Program will expand outreach and identification of priority restoration projects with particular focus on estuarine environments, where most impacts in the coastal

service area have occurred. Additional detail on the outcome of DFG's RFP process and restoration project development will be provided in the ILF Programs 5-Year Status and Trends Report in June 2020.

## **V. DMF ILFP Project Updates**

This section of the ILFP 2019 Annual Report provides an update on four mitigation projects that were undertaken by DMF prior to the 2014 DFG ILFP Instrument.

### **Project 1. Off Billington Street Dam Removal Project – Plymouth**

As noted in the 2018 ILF Program Annual Report, this project was successfully completed. ILFP funds were used to vegetate the exposed stream banks once the impoundment behind the dam was drained. DFG will consult with the Corps regarding release of credits.

### **Project 2. Rough Meadows - Rowley**

This ILF project was completed in 2018. DFG will consult with the Corps regarding release of credits.

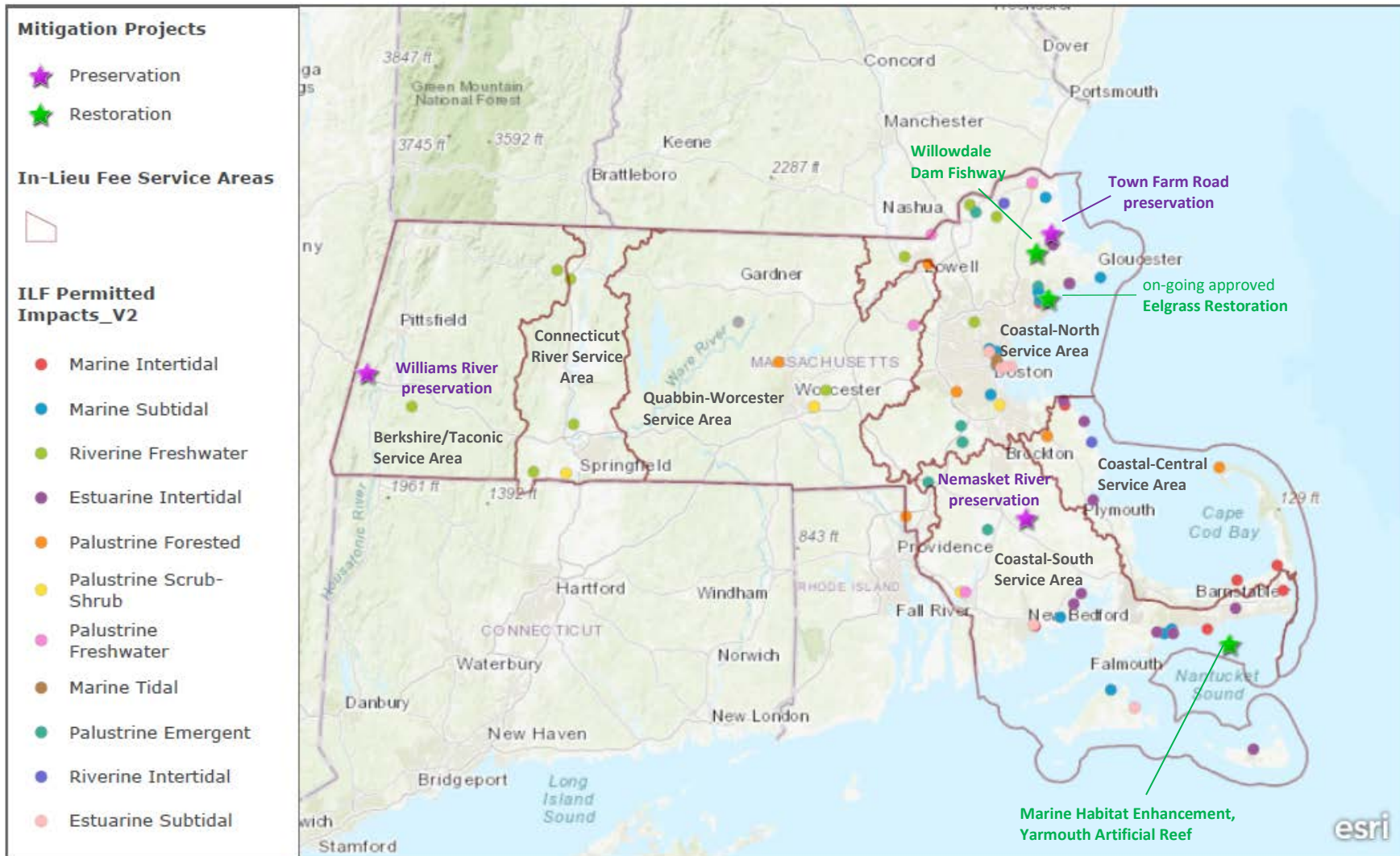
### **Project 3. Upper Great Marsh – Newbury**

In 2018, the Corps released final credits in the amount of 3 wetlands credits for this project.

### **Project 4. Draka Dam Fish Passage – Three Mile River, Taunton**

This DMF diadromous fish passage project was successfully completed in 2019. DFG will coordinate with Corps on final credit release during 2020.

**Appendix A. ILFP Map** – Service Area boundaries, locations of impacts for which ILF payments were made<sup>1</sup> and locations of approved ILFP mitigation projects<sup>2</sup>



<sup>1</sup>Includes all ILF payments received by DFG from 5/23/14 – 12/31/2019

<sup>2</sup>Five mitigation project proposals were funded in 2019; the eelgrass restoration project was approved and implemented in 2017.

## Appendix B. Complete Listing of ILF Payments Received and Mitigation Credits Sold

ACOE Permit Number	Permittee	Project location	ILF Required	Fee received by DFG	Resource Type	Wetland credits	Stream credits
<b>Berkshire-Taconic Service Area</b>							
NAE-2014-01945	Tennessee Gas Pipeline Company	Tyringham	\$2,500.00	11/06/14	Riverine Freshwater	0.00	8.33
NAE-2015-01572	MassDOT-Highway Division	Shelburne	\$13,800.00	12/09/16	Riverine Freshwater	0.00	46.00
	<b>Subtotal</b>	<b>Berkshire</b>	<b>\$16,300.00</b>			<b>0.00</b>	<b>54.33</b>
<b>Coastal-Central Service Area</b>							
NAE-2006-03754	Town of Scituate	Scituate	\$99,820.00	09/08/15	Estuarine Intertidal	0.16	0.00
NAE-2016-01044	MassDOT-Highway Division	Norwell	\$38,400.00	12/09/16	Riverine Freshwater	0.00	64.00
NAE-2016-01044	MassDOT-Highway Division	Norwell	\$173,926.00	12/09/16	Palustrine Forested	0.28	0.00
NAE-2008-01239	Michael Solimando	Scituate	\$1,711.20	03/16/17	Marine Intertidal	0.00	0.00
NAE-2006-04281	Provincetown Airport Commission	Provincetown	\$269,777.81	08/01/17	Palustrine Forested	0.43	0.00
NAE-1995-00532	Cohasset Yacht Club	Cohasset	\$2,245.95	10/26/17	Marine Intertidal	0.00	0.00
NAE-2015-02882	Town of Dennis	Dennis	\$39,754.60	10/30/18	Marine Intertidal	0.06	0.00
NAE-2016-01575	MassDOT-Highway Division	Cohasset	\$4,705.80	05/07/19	Estuarine Intertidal	0.01	0.00
	<b>Subtotal</b>	<b>Coastal-Central</b>	<b>\$630,341.36</b>			<b>0.95</b>	<b>64.00</b>
<b>Coastal-North Service Area</b>							
NAE-2011-00106	Global Companies, LLC	Chelsea	\$7,500.76	09/11/14	Marine Subtidal	0.01	0.00
NAE-2011-00106	Global Companies, LLC	Chelsea	\$11,764.24	09/11/14	Marine Intertidal	0.02	0.00
NAE-2014-02637	Charles Loutrel	Marblehead	\$2,623.84	05/05/15	Marine Subtidal	0.00	0.00
NAE-2014-00114	Algonquin Gas Transmission, LLC	Salem	\$151,554.00	06/24/15	Marine Subtidal	0.24	0.00

ACOE Permit Number	Permittee	Project location	ILF Required	Fee received by DFG	Resource Type	Wetland credits	Stream credits
NAE-1999-03185	MA Dept. of Conservation and Recreation	Canton	\$3,000.00	10/14/15	Palustrine Freshwater	0.01	0.00
NAE-2005-01095	City of Salem	Salem	\$2,852.00	01/11/16	Marine Intertidal	0.01	0.00
NAE-2004-00525	Nicholas Iselin for Lend Lease Development. Inc.	East Boston	\$5,040.00	04/27/16	Marine Tidal	0.01	0.00
NAE-2015-01169	Lisa Martinez and Chris Williams	Manchester	\$812.00	06/28/16	Estuarine Intertidal	0.00	0.00
NAE-2015-00875	New England Power Company/ National Grid	Andover, Dracut, Tewksbury	\$227,009.00	08/05/16	Palustrine Freshwater	0.37	0.00
NAE-2016-01170	Economic Development and Industrial Corp. of Boston	Boston	\$18,623.00	08/19/16	Marine Subtidal	0.03	0.00
NAE-2013-01026	Wynn MA LLC	Everett	\$48,769.20	12/14/16	Marine Subtidal	0.08	0.00
NAE-2002-02261	Rustom Cowasjee	Boston	\$106,950.00	01/25/17	Marine Tidal	0.17	0.00
NAE-2009-00539	MassDOT-Highway Division	Amesbury, Salisbury	\$50,880.00	02/01/17	Palustrine Freshwater	0.08	0.00
NAE-2016-02158	Arunas Martinonis	Gloucester	\$4,705.00	05/30/17	Marine Subtidal	0.01	0.00
NAE-2017-00101	Massachusetts Port Authority	East Boston	\$4,939.00	06/21/17	Marine Subtidal	0.01	0.00
NAE-2011-001084	Kai Juel, III	Manchester	\$4,791.36	08/03/17	Marine Intertidal	0.01	0.00
NAE-2009-001173	Martin Hahn and David Crosby	Manchester	\$5,147.86	08/03/17	Marine Intertidal	0.01	0.00
NAE-2012-00558	Manchester Marine Corporation	Manchester	\$49,339.60	08/14/17	Marine Intertidal	0.08	0.00
NAE-2009-00146	Peter Creighton	Manchester	\$7,557.80	08/14/17	Marine Intertidal	0.01	0.00
NAE-1994-02959	Randy Wood	Manchester	\$1,611.38	08/14/17	Marine Intertidal	0.00	0.00

ACOE Permit Number	Permittee	Project location	ILF Required	Fee received by DFG	Resource Type	Wetland credits	Stream credits
NAE-2012-00557	Sunset Rock, LLC	Manchester	\$24,997.78	08/14/17	Marine Intertidal	0.04	0.00
NAE-2013-02022	Ledyard McFadden	Manchester	\$2,452.72	08/17/17	Marine Intertidal	0.00	0.00
NAE-2010-02461	Massachusetts Bay Transportation Authority	Boston	\$3,900.00	08/25/17	Riverine Tidal	0.01	0.00
NAE-2013-02187	Eversource Energy	Walpole, Holbrook	\$9,317.00	10/04/17	Palustrine Forested	0.02	0.00
NAE-2013-02187	Eversource Energy	Walpole, Holbrook	\$4,813.00	10/04/17	Palustrine Emergent	0.01	
NAE-2017-00669	MassDOT-Highway Division	Haverhill	\$18,180.00	12/13/17	Riverine Freshwater	0.00	30.30
NAE-2002-02261	Tyler Deaton, 140 Northern Ave LLC	Boston	\$36,134.00	12/20/17	Marine Intertidal	0.06	0.00
NAE-2002-02261	Tyler Deaton, 140 Northern Ave LLC	Boston	\$108,404.00	12/20/17	Marine Intertidal	0.17	0.00
NAE-2005-01170	Beverly Port Marina	Beverly	\$1,426.00	01/22/18	Marine Intertidal	0.00	0.00
NAE-2017-01145	Esty Park Trust	Groveland	\$2,440.00	02/08/18	Riverine Freshwater	0.00	4.06
NAE-2012-00440	Massport	Boston	\$93,963.00	05/08/18	Estuarine Subtidal	0.15	0.00
NAE-2012-00440	Massport	Boston	\$96,255.00	05/08/18	Estuarine Intertidal	0.16	0.00
NAE-2013-02187	Eversource Energy	Walpole, Holbrook	\$427.80	05/14/18	Palustrine Scrub-Shrub	0.00	0.00
NAE-2016-00503	Nstar Electric dba Eversource Energy	Needham	\$28,132.00	06/04/18	Palustrine Forested	0.05	0.00
NAE-2009-00539	MassDOT-Highway Division	Amesbury, Salisbury	\$3,351.00	06/15/18	Palustrine Scrub-Shrub	0.01	0.00
NAE-2013-01690	MassDOT-Highway Division	Haverhill	\$14,699.00	06/15/18	Palustrine Emergent	0.02	0.00
NAE-2016-01163	Harbor Electric Energy Company	South Boston, Winthrop	\$594,706.00	06/20/18	Estuarine Subtidal	0.96	0.00

ACOE Permit Number	Permittee	Project location	ILF Required	Fee received by DFG	Resource Type	Wetland credits	Stream credits
NAE-2017-02473	John Bruni	Ipswich	\$741.52	08/09/18	Estuarine Intertidal	0.00	0.00
NAE-2018-01255	Twig Rush Dock Assoc., Craig Gould	West Newbury	\$1,026.72	08/14/18	Riverine Intertidal	0.00	0.00
NAE-2017-00100	Cronin Holdings LP	Boston	\$7,173.00	09/10/18	Marine Subtidal	0.01	0.00
NAE-2014-01038	Norwood Airport Commission	Norwood	\$122,636.00	10/03/18	Palustrine Emergent	0.20	0.00
NAE-2014-00930	Town of Winchester	Winchester	\$15,000.00	10/12/18	Riverine Freshwater	0.00	25.00
NAE-2010-02461	MBTA	Milton	\$2,000.00	10/15/18	Riverine Tidal	0.00	3.30
NAE-2016-01969	Town of Chelmsford	Chelmsford	\$111,000.00	10/25/18	Riverine Freshwater	0.00	185.00
NAE-2011-00750	Brewer Hawthorne	Salem	\$12,260.10	10/24/19	Marine Intertidal	0.02	0.00
NAE-2015-02118	MBTA	Boston	\$198,214	01/18/19	Estuarine Intertidal	0.32	0.00
NAE-2015-02118	MBTA	Boston	\$735,816	01/18/19	Estuarine Subtidal	1.18	0.00
NAE-2016-01163	Harbor Electric Energy Company	Boston	\$31,444.00	04/22/19	Estuarine Subtidal	0.05	0.00
NAE-2016-02678	City of Beverly	Beverly	\$2,500.50	01/14/19	Palustrine Emergent	0.00	0.00
NAE-2017-01385	Jack Tatelman	Marblehead	\$9,625.50	06/24/19	Marine Intertidal	0.02	0.00
NAE-2017-02272	Tuck Point condominium trust	Beverly	\$1,497.30	10/24/19	Marine Subtidal	0.00	0.00
NAE-2017-02272	Tuck Point condominium trust	Beverly	\$855.60	10/24/19	Marine Intertidal	0.00	0.00
NAE-2018-02229	Michael Settles	Beverly	\$1,140.00	01/14/19	Riverine Tidal	0.00	0.00
NAE-2018-02240	American Yacht Club, c/o Ron Barrett	Newburyport	\$299.46	04/02/19	Riverine Tidal	0.00	0.00
NAE-2019-00897	Heidi Herlihy	Marblehead	\$4,563.20	11/12/19	Marine Subtidal	0.01	0.00

ACOE Permit Number	Permittee	Project location	ILF Required	Fee received by DFG	Resource Type	Wetland credits	Stream credits
	<b>Subtotal</b>	<b>Coastal-North</b>	<b>\$3,016,897.24</b>			<b>4.61</b>	<b>247.66</b>
<b>Coastal-South Service Area</b>							
NAE-2014-01583	Mary C. Kariotis	Osterville	\$1,408.00	11/05/15	Marine Subtidal	0.00	0.00
NAE-2002-00169	Great Island Homeowner's Assoc. Inc.	West Yarmouth	\$570.40	11/08/16	Marine Intertidal	0.00	0.00
NAE-2015-00827	US Army Corps of Engineers	Taunton	\$260,890.00	12/21/16	Palustrine Emergent	0.42	0.00
NAE-2014-01348	Robert Benedetto	Cotuit	\$1,369.00	01/25/17	Estuarine Intertidal	0.00	0.00
NAE-2014-01310	Town of Marion	Marion	\$33,539.00	06/29/17	Estuarine Intertidal	0.05	0.00
NAE-2008-03185	MassDOT-Highway Division	Somerset, Fall River	\$664,059.00	12/21/17	Palustrine	1.07	0.00
NAE-2014-01547	DFG/Town of Tisbury	Tisbury	\$9,154.92	01/29/18	Marine Subtidal	0.01	0.00
NAE-2014-01547	DFG/Town of Tisbury	Tisbury	\$1,426.00	01/29/18	Marine Intertidal	0.00	0.00
NAE-2017-02648	Jennifer and Edmund Murphy	Osterville	\$2,224.56	03/29/18	Estuarine Intertidal	0.00	0.00
NAE-2017-01115	EM Crosby Boatworks	Osterville	\$4,099.00	05/14/18	Marine Subtidal	0.01	0.00
NAE-2017-01115	EM Crosby Boatworks	Osterville	\$4,099.00	05/14/18	Marine Intertidal	0.01	0.00
NAE-2017-01452	New England Power d/b/a National Grid	Somerset MA	\$105,253.06	05/23/18	Palustrine Scrub-Shrub	0.17	0.00
NAE-2017-01452	New England Power d/b/a National Grid	Somerset MA	\$109,461.19	05/23/18	Palustrine Forested	0.18	0.00
NAE-2009-02719	Fairhaven Shipyard Companies, Inc.	Fairhaven	\$158,785.00	06/04/18	Estuarine Subtidal	0.25	
NAE-2018-01440	Farm Lane Assoc.	South Dennis	\$684.48	10/03/18	Estuarine Intertidal	0.00	0.00
NAE-2017-00160	Brendan Magauran	Orleans	\$2,010.66	08/26/19	Marine Intertidal	0.00	0.00
NAE-2017-01613	Cow Bay Corporation	Edgartown	\$399.28	04/09/19	Estuarine Intertidal	0.00	0.00



ACOE Permit Number	Permittee	Project location	ILF Required	Fee received by DFG	Resource Type	Wetland credits	Stream credits
NAE-2017-01613	Cow Bay Corporation	Edgartown	\$2,481.24	04/09/19	Estuarine Subtidal	0.00	0.00
NAE-2018-02412	Town of Plainville DPW	Plainville	\$2,695	02/06/19	Palustrine Emergent	0.00	0.00
NAE-2018-02575	US Coast Guard CEU Providence	Nantucket	\$27,771.35	08/19/19	Estuarine Intertidal	0.04	0.00
NAE-2018-03065	Stephen and Carol Milligan	Marion	\$171.12	04/17/19	Estuarine Intertidal	0.00	0.00
NAE-2019-00272	Town of Plymouth	Plymouth	\$4,278.00	10/24/19	Estuarine Intertidal	0.01	0.00
NAE-2019-01934	Terje Tonnessen Revocable Trust	Fairhaven	\$4,470.51	10/24/19	Marine Intertidal	0.01	0.00
NAE-2016-02034	13 Shipyard Lane LLC	Mattapoissett	\$1,711.20	11/21/19	Marine Subtidal	0.00	0.00
	<b>Subtotal</b>	<b>Coastal-South</b>	<b>\$1,403,011</b>			<b>2.25</b>	<b>0.00</b>
<b>Connecticut River Service Area</b>							
NAE-2014-01772	Tennessee Gas Pipeline Company	Southwick	\$12,500.00	10/24/14	Riverine Freshwater	0.00	41.66
NAE-2013-01364	Exxonmobil Corp.	Greenfield	\$9,000.00	12/09/14	Riverine Freshwater	0.00	90.00
NAE-2011-01510	MassDOT-Highway Division	Chicopee	\$4,530.00	05/08/19	Riverine Freshwater	0.00	15.10
	<b>Subtotal</b>	<b>Connecticut River</b>	<b>\$26,030.00</b>			<b>0.00</b>	<b>146.76</b>
<b>Quabbin-Worcester Service Area</b>							
NAE-2005-03968	John D. Noblin/Ledge Hill Development Company LLC	North Attleboro	\$55,235.79	01/13/17	Palustrine Forested	0.09	0.00
NAE-2016-00820	James White	Concord	\$16,810.00	04/12/17	Palustrine Freshwater	0.03	0.00
NAE-2016-02614	MassDOT-Highway Division	Northborough , Shrewsbury	\$60,600.00	05/30/17	Riverine Freshwater	0.00	202.00
NAE-2016-00502	New England Power d/b/a National Grid	Grafton	\$8,128.13	04/25/18	Palustrine Scrub-Shrub	0.01	0.00
NAE-2016-00502	New England Power d/b/a National Grid	Grafton	\$5,231.13	04/25/18	Palustrine Forested	0.01	0.00

ACOE Permit Number	Permittee	Project location	ILF Required	Fee received by DFG	Resource Type	Wetland credits	Stream credits
NAE-2018-00850	Clealand Blair, Jackson wood Investments, LLC	Holden	\$16,203.32	07/15/19	Palustrine Forested	0.03	0.00
NAE-2019-01032	National Grid	Lowell	\$5,415.45	10/24/19	Palustrine Forested	0.01	0.00
NAE-2019-01730	MassDOT-Highway Division	Hubbardston	\$64,435.00	10/24/19	Palustrine	0.11	0.00
	<b>Subtotal</b>	<b>Quabbin-Worcester</b>	<b>\$232,058.82</b>			<b>0.29</b>	<b>202.00</b>
ILFP CREDITS SOLD:						<b>8.10</b>	<b>714.75</b>
TOTAL ILFP REVENUE*:						<b>\$5,324,638.39</b>	
<i>*From ILFP establishment in May 2014 through December 31, 2019</i>						Wetland	Stream