

NONTIDAL WETLAND COMPENSATION FUND FISCAL YEAR 2012 REPORT

Prepared for the Maryland General Assembly



Russell Train Programmatic Mitigation Site

Wetlands and Waterways Program Water Management Administration 1800 Washington Boulevard, Suite 430 Baltimore, Maryland 21230

NONTIDAL WETLAND COMPENSATION FUND ANNUAL REPORT FOR FISCAL YEAR 2012

TABLE OF CONTENTS

Requirement	1
Fund Use	1
Background	1
Nontidal Wetland Protection Act	2
Regulatory Program	2
Mitigation Program	3
Monitoring Program	3
Additional Mitigation Opportunities for Nontidal Wetlands	3
Federal Compensatory Mitigation Rule	4
Summary	5
Fiscal Year 2012 Programmatic Mitigation Projects	6
Russell Train, Lower Choptank Watershed, Talbot County	6
Harris Mill, Deer Creek Watershed, Baltimore County	6
Drennan Farm, Little Gunpowder Falls Watershed, Baltimore County	7
Fiscal Year 2012 Financial Data	8
Nontidal Wetland Impact Data by Watershed	9
Voluntary Wetland Gains in Maryland	17

NONTIDAL WETLAND COMPENSATION FUND

REQUIREMENT

Section 5-909 (c) (5) of the Environment Article, Annotated Code of Maryland, states that at the end of the fiscal year, the Maryland Department of the Environment (Department or MDE) shall prepare an annual report on the Nontidal Wetland Compensation Fund that includes an accounting of all financial receipts and expenditures to and from the Fund and shall provide a copy of the report to the General Assembly, as provided under §2-1246 of the State Government Article. This report covers Fiscal Year 2012.

FUND USE

The use of the Nontidal Wetland Compensation Fund is established under Section 5-909 (c) (3) and (4) of the Environment Article, Annotated Code of Maryland, which states:

- (3) Funds in the Nontidal Wetland Compensation Fund may be used only for the creation, restoration, or enhancement of nontidal wetlands, including:
 - (i) Acquisition of land;
 - (ii) Acquisition of easements;
 - (iii) Maintenance of mitigation sites;
 - (iv) Purchase of credits in mitigation banks; and
 - (v) Contractual services necessary to accomplish the intent of this paragraph.
- (4) Funds credited and any interest accrued to the Fund:
 - (i) Shall remain available until expended; and
 - (ii) May not be reverted to the General Fund under any other provision of law.

BACKGROUND

Maryland's nontidal wetlands are inland freshwater areas not subject to tidal influence. They typically have water-saturated soils or periodic high groundwater levels and vegetation adapted to wet conditions and periodic flooding. Nontidal wetlands are commonly known as marshes, swamps, bogs, wet meadows, and bottomland forests. There are between 440,000 and 460,000 acres of vegetated nontidal wetlands in Maryland, comprising 7 to 7.4 percent of the State's land mass.

Nontidal wetlands help protect the Chesapeake Bay, the Coastal Bays, and streams by filtering phosphorus, nitrogen and other pollutants from upland runoff. They form natural flood retention areas able to store floodwaters and slowly release them downstream, reducing flood damages.

Wetland vegetation helps stabilize streambanks and reduce streambank erosion. Nontidal wetlands provide organic material for the food chain and habitat for fish and wildlife, some of which are endangered. Wetlands are also the exclusive home to many rare plants. They are areas of scenic beauty and provide recreational opportunities for many Marylanders.

Nontidal Wetlands Protection Act

The 1987 Chesapeake Bay Agreement included a commitment to increase the protection of nontidal wetlands. To honor its commitment, Maryland created a special task force to develop a comprehensive wetland protection policy. Due to continued wetland losses and an existing inefficient federal regulatory framework, the task force recommended a new State law. In 1989, the Maryland General Assembly endorsed the task force recommendation by enacting the Nontidal Wetlands Protection Act.

The law was one of the first state laws to declare a goal of "no net loss" of wetland acreage and function and to strive for a net gain in wetlands over time. Additional legislative goals included:

- Protection of waters of the State:
- Prevention of further degradation and losses of nontidal wetlands due to human activity by regulating all activities that may impact a nontidal wetland;
- Mitigation or compensation for authorized nontidal wetland losses; and
- Expedient project reviews by instituting a coordinated application review process and imposing strict application review deadlines.

Since the beginning of Maryland's regulatory program on January 1, 1991 through June 30, 2012, authorized nontidal wetland losses have averaged approximately 41 acres per year. More importantly, however, the program has been able to achieve a net gain in nontidal wetland acreage through compensatory mitigation permit requirements, voluntary efforts of private landowners, and other State initiatives.

Regulatory Program

The Department's wetlands and waterways regulatory program provides State government with an opportunity to promote environmentally sensitive development. Through its permit application review process, MDE attempts to prevent wetland loss by requiring an applicant to evaluate project designs that will avoid wetland impacts. Based on this evaluation of alternatives, if MDE finds that impacts are unavoidable, the applicant is required to utilize the project design that will minimize the wetland impacts and provide appropriate mitigation for those impacts.

Mitigation, required for all unavoidable impacts that are authorized by MDE, means that the applicant must replace lost wetland acreage, function and value. This is usually accomplished by requiring the creation of new wetlands, restoration of relic wetlands, enhancement of degraded wetlands or some acceptable combination. The Department may also accept monetary compensation if it is determined that mitigation for nontidal wetland losses is not a feasible alternative. The payment is deposited into the State's Nontidal Wetlands Compensation Fund and used by the State to construct nontidal wetlands throughout Maryland.

Mitigation Program

Maryland achieves its "no net loss" goal through a variety of mechanisms including voluntary efforts of private landowners, State initiatives, and the regulatory program. Success often requires consideration of wetland types and values. In the regulatory process, wetland types and values can dictate the extent of avoidance and minimization prior to consideration of compensatory mitigation. The regulatory program achieves "no net loss" through two types of mitigation efforts designed to replace lost wetland acreage and function:

- Permittee mitigation requires a permittee to create, restore, or enhance nontidal wetlands. In instances where a permittee demonstrates that it is impractical to mitigate for wetland losses associated with a project, a permittee may be allowed to pay a specified amount into the State Nontidal Wetland Compensation Fund.
- Programmatic mitigation is performed by the State for nontidal wetland losses generally less than 5,000 square feet or for permittees who have paid into the Nontidal Wetland Compensation Fund.

This report summarizes the use of the Nontidal Wetland Compensation Fund for mitigation activities undertaken by MDE during Fiscal Year 2012.

Monitoring Program

The State is constantly striving to improve its mitigation program. Prior to implementation of Maryland's program, failure of mitigation projects was largely due to insufficient monitoring for hydrology, poor design, and the lack of follow-up by regulatory agencies. The State has analyzed these factors to ensure enhanced success of mitigation projects. To address these issues, the State requires the following:

- Monitoring hydrology to determine suitability of site;
- Design review;
- Five (5) years of post-construction monitoring;
- 85% success rate on vegetative cover;
- A surety bond payable to the State and conditioned upon the successful completion of the mitigation project according to an approved mitigation plan; and
- Long-term protection mechanisms for the site.

The Department completed a comprehensive evaluation of its compensatory mitigation program in 2007. The Department has also expanded a formal assessment protocol to evaluate and document success of mitigation sites, including functional gains.

Additional Mitigation Opportunities for Nontidal Wetlands

Other tools available to offset wetland losses are mitigation banking and consolidated mitigation. Mitigation banking is the restoration, creation or enhancement of wetlands undertaken expressly for the purpose of providing compensation credits for wetland losses from future activities. In

1993, the General Assembly enacted legislation to develop standards and adopt regulations for the establishment and operation of nontidal wetlands mitigation banks. In addition, MDE adopted mitigation banking regulations in October 1994. Unfortunately, mitigation banking remains an untapped resource in Maryland's wetland protection program.

Consolidated mitigation has also been promoted as an alternative that includes some of the benefits of mitigation banking, while addressing the perceived disadvantages. In this approach, mitigation for several different projects and different permittees may be located at a single site. Individual permittees, however, remain responsible for the success of the mitigation project. Due to requirements imposed by the federal Compensatory Mitigation Rule, consolidated mitigation will be eliminated as a mitigation option after available acreage at existing sites is exhausted, and replaced by sites approved through a formal mitigation banking process.

FEDERAL COMPENSATORY MITIGATION RULE

On April 10, 2008, the U.S. Army Corps of Engineers (USACE) and the U.S Environmental Protection Agency (EPA) published a new Compensatory Mitigation Rule (Mitigation Rule) clarifying how to provide compensatory mitigation for unavoidable impacts to the nation's wetlands and streams. The premise is that the rule will promote greater consistency, predictability and ecological success of mitigation projects under the Clean Water Act. According to EPA, the primary goals of the Mitigation Rule are to:

- > Implement environmentally effective standards for compensatory mitigation that are based on best available science and incorporate key National Research Council recommendations for improving the success of compensatory mitigation;
- > Create a "level playing field" among the three compensatory mitigation mechanisms through equivalent standards and greater accountability, so that providers of timely, high-quality mitigation are preferred, because there is greater assurance that the compensatory mitigation will be successful;
- > Increase the efficiency and predictability of the process of proposing compensatory mitigation and approving new mitigation banks and in-lieu fee programs; and
- Enhance public participation in compensatory mitigation decision-making.

The most significant change required by the Mitigation Rule is that projects provided by all three compensation mechanisms (i.e., permittee-responsible compensatory mitigation, mitigation banks, and in-lieu fee mitigation) must have mitigation plans which include the same 12 fundamental components: objectives; site selection criteria; site protection instruments (e.g., conservation easements); baseline information (for impact and compensation sites); credit determination methodology; mitigation work plan; maintenance plan; ecological performance standards; monitoring requirements; long-term management plan; adaptive management plan; and financial assurances. In addition, the Mitigation Rule requires a watershed approach to locating mitigation. The Mitigation Rule also changes the hierarchy of acceptable mitigation projects. The most preferred option is mitigation bank credits, which are usually in place before the activity is permitted. In-lieu fee program credits are second in the preference hierarchy, because they may involve larger, more ecologically valuable compensatory mitigation projects as compared to permittee-responsible mitigation. Permittee-responsible mitigation is the third option.

The Mitigation Rule became effective on June 9, 2008. According to EPA, the Mitigation Rule revises the requirements for in-lieu fee (ILF) programs in order to address concerns regarding their past performance and equivalency with the standards imposed on mitigation banks and permittee-responsible mitigation. The reforms to improve accountability and performance include:

- 1) An advance planning requirement;
- 2) A cap on the number of advance credits that can be released for sale before an ILF project site is secured and a mitigation plan is approved;
- 3) Improved financial accounting requirements; and
- 4) The same interagency/public review and ecological/administrative requirements as mitigation banks.

While the Mitigation Rule sets strict requirements for all mitigation options, it has additional requirements for mitigation banks and ILF programs. Among other things, an Interagency Review Team (IRT) must review the financial assurances, credit release schedule, service areas, long-term management plan, and reporting information. In-lieu fee programs must include a comprehensive planning framework to be used when selecting mitigation sites. To meet this requirement, MDE will utilize its mitigation prioritization documents and a GIS-based Watershed Resource Registry developed by an interagency workgroup, which included MDE.

The Department's nontidal wetlands ILF Program, which is funded through the Nontidal Wetland Compensation Fund, has been operating since 1991 and is both well-established and successful. Historically, the majority of projects permitted by MDE authorized minor wetland impacts, which required small mitigation projects. The purpose of the ILF Program is to accept monetary payments from permittees with small mitigation requirements, so that MDE can construct larger, more environmentally sustainable projects. Since the Mitigation Rule attempts to transform the ILF Program into a mitigation bank, and the State does not currently operate its program as a bank, Maryland is re-evaluating its existing ILF Program for compliance with the federal Mitigation Rule.

An IRT comprised of the USACE, EPA, the U.S. Fish and Wildlife Service, the National Marine Fisheries Service and the Maryland Department of Natural Resources continues to evaluate MDE's ILF Program. While the USACE has suggested that the Mitigation Rule is very flexible, the results of this review will certainly require MDE to modify its regulations to address a myriad of new federal requirements. Another consequence is that expenditures from the Nontidal Wetlands Compensation Fund will be significantly reduced or completely stopped until the IRT has completed its review, and the USACE and MDE sign an ILF Instrument detailing the operation of a revised State ILF Program.

SUMMARY

The Nontidal Wetland Compensation Fund is a special revenue fund, which was created by the action of the 1989 General Assembly. The fund began receiving revenue in 1991, when the Nontidal Wetlands Regulatory Program went into effect.

Nontidal Wetland Compensation Fund revenues are derived primarily from contributions made to the Fund for permitted wetland losses for which MDE has determined that mitigation is not a feasible alternative for a Permittee.

FISCAL YEAR 2012 PROGRAMMATIC MITIGATION PROJECTS

Russell Train

The Russell Train project has been designed to restore approximately 17 acres of previously drained cropland into nontidal wetland and approximately 36 acres of cropland into forest and warm season grasses. An additional 3 acres of cropland will be converted to a food plot for wildlife habitat. Through a cooperative effort between MDE, the Talbot Soil Conservation District, and the landowner, construction for this site began in late summer 2010. Construction was completed in 2011, with the planting of warm season grasses occurring in Fall 2011. The project was enhanced further in Spring 2012 with the planting of trees and shrubs. This site is within Talbot County Critical Area drainage to Broad Creek, in the Lower Choptank watershed (02-13-04-03).



 Project Cost:
 \$469,670.00

 Fiscal Year 2010 Payments:
 \$105,000.00

 Fiscal Year 2011 Payments:
 \$71,006.00

 Fiscal Year 2012 Payments:
 \$246,696.00

Fiscal Year 2012 Encumbrances: \$46,968.00

Harris Mill

The Harris Mill project was designed to restore approximately 6.56 acres of previously drained cropland into nontidal wetland and to enhance an additional 0.58 acres of existing nontidal wetland. This project also included plugging a perimeter ditch, which is anticipated to restore an additional 3.86 acres of nontidal wetland. Through a cooperative effort between MDE, the Harford Soil Conservation District, and the landowner, grading for this site occurred in Fall 2010. The site was permanently seeded and stabilized in Summer 2011. The end of the project's construction phase will be followed by a long-term monitoring program to ensure that the site matures as designed. This site is located in Baltimore County, in the Deer Creek watershed (02-12-02-02).



Project Cost: \$414,807.00 Fiscal Year 2011 Payments: \$373,327.00 Fiscal Year 2012 Payments: \$41,480.00

Project Balance 0.00

Drennan Farm

The Drennan Farm project was designed to restore approximately 3.5 acres of previously drained cropland into wetland. Through a cooperative effort between MDE, the Baltimore County Soil Conservation District, and the landowner, construction for this site was completed between May and July 2011. A Declaration of Restrictive Covenants, which is a mechanism that will provide permanent protection for the site, was recorded in July 2011. The end of the project's construction phase will be followed by a long-term monitoring program to ensure that the site matures as designed. This site is located in Baltimore County, in the Little Gunpowder Falls watershed (02-13-08-04).



 Project Cost:
 \$121,417.00

 Fiscal Year 2011 Payments:
 \$78,922.00

 Fiscal Year 2012 Payments:
 \$42,495.00

Project Balance 0.00

FISCAL YEAR 2012 NONTIDAL WETLANDS COMPENSATION FUND

STATEMENT OF REVENUES AND EXPENDITURES **FISCAL YEAR 2012** July 1, 2011 - June 30, 2012 **REVENUES** Fund Balance as of June, 2011 2,467,020.29 Fiscal Year 2012 Revenue 334,545.83 Fiscal Year 2012 Earned Interest 0.00 Fiscal Year 2012 Accrued Revenues (23,472.20)Total Fiscal Year 2012 Revenues \$2,778,093.92 **EXPENDITURES** Total Fiscal Year 2012 Expenditures 387,242.43 NONTIDAL WETLAND COMPENSATION FUND \$2,390,851.49 **BALANCE AS OF JUNE 30, 2012**

NONTIDAL WETLAND IMPACT DATA BY WATERSHED SEGMENT (IN ACRES)

1/1/1991 - 06/30/2012

03-05-03-01	CONAWERS CREEK AREA DRAINAGE	ap.a	ât'ı:	0 .0	040	g g
02-62-63-00	CONAWEGO CREEK AREA	0.00	000	00.0	6.00	0.00
02-12-02-01	LONVER BUSQUEHANNA RIVER AREA DRAINADE	-2.05	1.5	0.00	D'GD	12.0.
02-12-02 02	DEER OREEK SYAINAGE	4.17	80.4 BQ.4	14.515	5.8 8.8	22.88
02-, 2-02-03	OCTORARD CREEK DRAINAGE	-0.82	0.53	2.10	0.00	19.1
02-72-02-14	CONOWINCE DAM SUSCIENTANNA RIVER AREA	-0.03	0.00	0.00	0.00	-0.09
02-12-02-05	BROAD ORFEK DRAINAGE	-0.47	0.30	7.36	0.00	8.86
03-12-02-00	LOWER BUSQUEHANNA RIVER AREA	9440	6.15	23.91	5.94	31.37
D2 13-01-61	ATLANTIC OCEAN	0:00	0.00	0.00	03.0	QD 4
02-13 01 02	ASSAWOMAN DAY DRAINAGE	-0.85	D.00	0.00	05.0	98 Ф
DZ 13 M 03	ISLE OF WIGHT DAY DRAWAGE	-84,26	P0.81	10.00	18.42	787
02 13 D1 04	BINEPUXENT BAY DRAINAGE	-6.7B	3.6	0.30	0.15	77.7
QZ-13 C1 OS	NEWPORT BAY DRAINAGE	-13,93	3.45	0.50	05.D	-9.14
02-13-01-06	CHINCOTEAGUE BAY DRAINAGE	-2.13	0.00	16.7D	3.97	18.49
02-13-01-00	COASTAL AREA	-108.02	B7:59	28.10	21,39	8.75
02-13-02-01	POCOMOKE SOUND AREA DRAINAGE	<i>)</i> 40-	0.40	9.00	0.00	75.0-
02-13-02-02	LOWER POCOMOKE RIVER AREA DRAINAGE	1246	4.77	41.30	0.41	34.01
02-13-02-03	UPPER POCOMOKE RIVER AREA DRAINAGE	-fl.40	25.20	50,00	000	68 80
02-13-02-04	DIVIDING CREEK DRAINAGE	-fl.12	30.D	00.00	00'0	-3.12
62-13-02-05	NASSAWANGO CREEK DRAINAGE	9.4€	0.00	020	900	3.48

POCONICIE RECUND AFEA DTANNGE	Bartn-Cude	Watershed Segment	Perwanest	Permittee Mitigation	Programmetic Gains	Other	WET	
POCKNONE RIVER AXEA	02-13-02-06	TANCIER GOUND AREA DRAINAGE	-0.63	97:0	0.00	0.04	28 P	
POCCHAIONE RIVER APEA	02:13:¢2:07	PIO ANNEMESSEX RIVER DRAINAGE	71.17	3.45	0.00	000	0.23	
LOWITE WILCOMICOE RIVER AREA 26.45 49.43 91.79 0.87 LOWITE WILCOMICOE RIVER AREA CRA NACE 42.45 6.00 0.50 1.58 MOINTE BAY DRAINAGE 43.45 0.00 0.50 0.00 WILCOMICO CREEK ORENINAGE -3.25 0.00 0.20 0.00 WINCOMICO RIVER HEADWATERS AREA -7.17 3.85 0.20 0.00 WATIODKE RINER AREA DRAINAGE -8.25 4.86 2.86 0.03 WATIODKE RINER AREA DRAINAGE -8.73 17.87 0.00 0.09 FIBHING BAY AREA DRAINAGE -8.73 17.87 0.00 0.09 HONGA RIVER RIVER ANER AREA -1.11 4.00 0.00 0.09 LITTE DE-OFTAWI RIVER AREA AREA DIZANAGE -1.56 22.20 1.151 1.27 LUDER OHOTAMA RIVER AREA DIZANAGE -2.22 1.63 2.20 0.15 0.00 CHOPTAMI RIVER AND RAINAGE -2.22 1.63 2.20 1.181 0.00 CHOPTAMI RIVER AND RAINAGE -2.25 0.05 0.05 0.	d2 13 C2.08	MANOKIN RIVER DRAINAGE	\$1.th	0.77	0.00	0.38	-1.87	
LOWER WICOMICO RIVER AREA DRA NACE -42.85 46.47 D.80 1.58 WICHINGO RIVER FAREA DRA NACE 0.38 0.00 D.80 0.00 WICHINGO CREEK DRAINAGE -2.25 0.00 D.80 0.00 WICHINGO CREEK DRAINAGE -3.23 4.37 0.00 0.00 NAMIDOXE RIVER READ RAINAGE -8.73 17.87 0.00 0.00 AMASIANI IORE GREEK DRAINAGE -8.73 17.87 0.00 0.00 FIBHINGO BAY AREA DRAINAGE -8.73 17.87 0.00 0.00 FIBHINGO BAY AREA DRAINAGE -1.35 17.87 0.00 0.00 FIBHINGO BAY AREA DRAINAGE -2.11 4.69 2.20 0.01 HONGA RIVER RIVER AREA DRAINAGE -2.23 1.63 2.20 0.01 LITLE CHOPTAMK RIVER AREA DRAINAGE -2.23 1.63 2.20 0.00 CHOPTAMK RIVER AREA DRAINAGE -2.53 0.05 0.00 0.00 CHOPTAMK RIVER AREA DRAINAGE -2.53 0.05 0.00 0.00 CHOPTAMK RIVER AR	03-13-03-00	POCOMOKE RIVER APEA	-26.95	34.25	8.2 8.3	0.83	PQ.43	
MOMIE BAY DRAINAGE 0.54 0.00 <td>02-13-03-01</td> <td>LOWER WICOMICO RIVER AREA ORA NAGE</td> <td>-42.83</td> <td>46 43</td> <td>05:40</td> <td>1.58</td> <td>6.38</td> <td></td>	02-13-03-01	LOWER WICOMICO RIVER AREA ORA NAGE	-42.83	46 43	05:40	1.58	6.38	
WINCOMICO CREEK OPANINACE 0.26 0.00 0.00 0.00 WINCOMICO CREEK OPANINACE -3.23 3.35 0.00 0.00 WANTIODKE RIVER AREA DRAINACE -3.23 4.37 0.00 0.00 MANTIODKE RIVER AREA DRAINAGE -8.73 17.87 0.00 0.00 FIBHIND DAY AREA DRAINAGE -8.73 17.87 0.00 0.00 FIBHIND DAY AREA DRAINAGE -8.73 17.87 0.00 0.00 TRAA-SOLIAKINA RIVER AREA DRAINAGE -2.24 7.84 20.00 0.00 LITTLE DI-OPTAMK RIVER AREA DRAINAGE -2.76 1.53 1.51 1.27 LOWER CHOPTAMK RIVER AREA DRAINAGE -2.76 1.63 2.30 0.00 CHOPTAMK RIVER AREA DRAINAGE -2.76 1.63 2.30 0.00 CHOPTAMK RIVER AREA DRAINAGE -2.27 1.64 2.30 0.00 CHOPTAMK RIVER AREA DRAINAGE -2.26 0.83 0.00 0.00 CHOPTAMK RIVER AREA DRAINAGE -2.26 0.83 0.00 0.00 CHOPTAMK	02-13-03-02	MONIE BAY DRAINAGE	4.34	00.0	05.0	0.03	-0.34	
NAMTICOKE RIVER AREA DRAINAGE -3.23 -3.25	02-13-03-03	WICOMICO CREH 4 DRAINAGE	0.25	01.0	05.0	0.00	-0.26	
NAMTIODE RIVER AREA DRAINAGE -3.23 4 37 0.00 2.14 MARSIATI IOPE CREEK DRAINAGE -8.73 17.87 0.05 0.03 FIDHING DAV AREA DRAINAGE -6.73 17.87 0.05 0.19 TRAASQUAKINS RIVER AREA CHANAGE -6.49 78.10 4.65 0.05 HONGA RIVER RIVER AREA -1.11 0.00 0.00 0.00 LITLE CH-OPTANK RIVER AREA DRAINAGE -2.73 1.61 72.72 LOWER CHOTTANK RIVER AREA DRAINAGE -2.73 16.34 92.00 1.151 LIDER CHOPTANK RIVER AREA DRAINAGE -2.73 1.63 92.00 1.151 LOWER CHOPTANK RIVER AREA DRAINAGE -2.73 1.63 92.00 1.263 TUCACA-IOS CREEK DRAINAGE -6.63 90.26 1.20 0.00 CHOPTANK RIVER AREA DRAINAGE -6.63 0.03 0.00 0.00 MILES RIVER DRAINAGE -2.26 0.04 1.20 0.00 KENTI NARINGE -2.54 0.93 0.00 0.00 KENTI NARINGWE - PROBAIRAGE	02-13-03-04	WIDOMICO RIVER HEADWATERS AREA	77.17	3.95	0.40	0.03	-1524	
MARISH IN DEE CREEK DRAINAGE -3.28 4 80 28.50 0.03 FIDHING DAY AREA DRAINAGE -1.35 17.87 0.05 0.59 TRAASGUAKINS RIVER AREA CHYANAGE -1.35 78.19 46.50 0.19 MANTICOXE RIVER RIVER AREA CHYANAGE -1.11 40.00 0.00 0.19 HONGA RIVER DRAINAGE -1.13 28.82 1.61 4.65 LUTLE CD-OFTANK RIVER AREA DRAINAGE -27.38 13.62 32.00 1.181 LUPER CHOPTANK RIVER AREA DRAINAGE -27.38 16.24 92.00 1.263 TUCKANIOE CREEK DRAINAGE -2.73 1.63 2.30 0.50 CHOPTANK RIVER AREA DRAINAGE -6.83 4.65 3.00 0.50 CHOPTANK RIVER AREA DRAINAGE -6.82 0.03 0.00 0.00 AMILES RIVER DRAINAGE -2.54 0.03 0.00 0.00 AMILES RIVER DRAINAGE -2.54 0.03 0.00 0.00 KENTI NABROWS - PROSPECT BAY DRAINAGE -6.75 1.44 1.50 2.50	02-13-03-05	NANTICOKE RIVER AREA DRAINAGE	4.23	4 37	0.00	2.19	3.30	
1.87 0.05 0.59 1.87 0.05 0.59 1.84 0.05 0.59 1.84 0.05 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.10	02-13-03-08	MARSI IVI HOPE CREEK DRAINAGE	-3.28	4 85	26.50	0.03	28.11	
TRAASQUAKINGS RIVER AREA DHANNAGE -1.35 n.64 20.00 0.19 MANTICOXE RIVER AREA -64.99 78.10 46.50 4.65 HONGA RIVER DRAINAGE -1.11 0.00 0.00 0.01 LUTLE CO-OFTANK RIVER DRAINAGE -27.85 28.42 1.61 12.72 LOWER CHOPTANK RIVER AREA DRAINAGE -27.85 18.24 92.00 11.81 LIPPER CHOPTANK RIVER AREA DRAINAGE -15.63 1.64 92.00 11.81 LIPPER CHOPTANK RIVER AREA DRAINAGE -27.20 1.64 92.00 1.65 CHOPTANK RIVER AREA DRAINAGE -46.87 3.00 1.81 5.00 CHOPTANK RIVER DRAINAGE -4.66 3.00 1.81 5.00 WILES RIVER DRAINAGE -2.54 0.93 0.00 3.00 KENT NARROWS - PROSPECT BAY DRAINAGE -6.76 1.44 1.50 2.20	20-50-61-20	FISHING DAY AREA ORAINAGE	-6.73	17.47	0.db	0.59	5.73	
MANTICOXE RIVER AREA -64,99 78.10 46.50 4,65 HONGA RIVER DRAINAGE -1.11 4.00 0.00 0.00 0.01 LITTLE CD-COPTANK RIVER DRAINAGE -22.09 28.42 1,61 12.72 1.57 LOWER CHOPTANK RIVER AREA DRAINAGE -27.85 13.62 32.00 11.81 12.72 LOPER CHOPTANK RIVER AREA DRAINAGE -15.63 16.24 92.00 11.81 12.72 LOPER CHOPTANK RIVER AREA DRAINAGE -2.20 1.64 2.20 11.81 0.00 CHOPTANK RIVER AREA -66.13 40.26 7.30 0.50 0.44 CHOPTANK RIVER AREA DRAINAGE -8.46 3.00 1.81 5.17 57.17 EASTERN BAY AREA DRAINAGE -2.25 0.63 0.60 0.00 3.00 KENT NARROWS - PROSPECT BAY DRAINAGE -2.54 0.83 0.00 3.00 LCWER CHESTER RIVER RIVER RIVER AREA DRAINAGE -6.76 1.44 1.50 2.90	02-13-03-08	TRANSQUAKING RIVER AREA CHANAGE	-1.35	H.64	20.05	0.19	25.48	
HONGA RIVER DRAINAGE -1.11 6.00 0.00 0.00 LITTE CHOPTANK RIVER AREA DRAINAGE -20.39 28.82 1.61 72.72 LOWER CHOPTANK RIVER AREA DRAINAGE -27.85 13.62 32.00 11.81 LOWER CHOPTANK RIVER AREA DRAINAGE -15.63 1.64 92.00 12.63 TUCKAN IOE CREEK DRAINAGE -2.29 1.64 2.30 0.60 CHOPTANK RIVER AREA -6.63 3.00 1.81 5.00 CHOPTANK RIVER AREA -6.63 3.00 1.81 5.00 CHOPTANK RIVER AREA -6.63 3.00 1.81 5.00 MILES RIVER DRAINAGE -6.63 0.83 0.00 5.00 KENT NABRICWAS - PROSPECT BAY DRAINAGE -2.26 0.83 0.00 3.00 LOWER CHESTER RIVER AREA DRAINAGE -6.76 1.44 1.50 2.90	02-13-03-00	MANTICOXE RIVER AREA	-64.99	78.10	46.50	199'9	64.15	
LITTLE CR-OPTANK RIVER DRAINNGE -20.09 28.82 1.61 12.72 LOWER CHOPTANK RIVER AZEA DRAINAGE -27.85 13.62 32.00 11.81 LOWER CHOPTANK RIVER AZEA DRAINAGE -15.63 16.24 92.00 12.63 TUCKANIOE CREEK DRAINAGE -2.29 60.26 1.84 92.00 0.50 CHOPTANK RIVER AREA -6.6.03 40.26 1.81 5.00 0.50 CHOPTANK RIVER AREA -6.60 3.00 1.81 5.00 0.50 CHOPTANK RIVER AREA -6.60 3.00 0.61 5.00 0.61 MILES RIVER DRAINAGE -6.60 0.83 0.00 0.60 0.60 KENT NABRICWS - PROSPECT BAY DRAINAGE -6.76 0.83 0.00 3.00 LOWER CHESTER RIVER AREA DRAINAGE -6.76 0.83 0.80 2.30	02-13-04-01	HONGA RIVER DRAINAGE	÷	4.00	00:00	10.0	4.16	
LOWER CHOPTANK RIVER AREA DRAINAGE -27.85 13.62 32.00 11.81 UPPER CHOPTANK RIVER AREA DRAINAGE -15.63 16.24 92.00 12.53 TUCKAN IOE CREEK DRAINAGE -2.20 1.68 2.30 0.50 0.50 CHOPTANK RIVER AREA DRAINAGE -8.62 0.67 7.91 57.17 0.50 EASTERN BAY AREA DRAINAGE -8.62 0.53 0.60 0.44 0.44 WILES RIVER DRAINAGE -2.54 0.93 0.60 0.44 0.90 KENT NASHGWAS - PROSPECT BAY DRAINAGE -2.54 0.93 0.00 3.00 LOWER CHESTER RIVER AREA DRAINAGE -6.75 1.44 1.50 2.90	02:13:04:42	LITTE CHOPTANK RIVER DRAININGE	-ZD:05	28.82	19:1	12.72	23.28	
UPPER CHOPTANK RIVER KAREA DRAMAGE -15.63 16.24 9x,00 12.63 TUCKAN IÓE CREEK DRAINAGE -2.27 1.68 2.30 0.50 CHOPTANK RIVER AREA -66.13 60.26 7.37 0.50 CHOPTANK RIVER AREA DRAINAGE -8.46 3.00 1.81 0.02 MILES RIVER DRAINAGE -2.26 0.83 0.00 0.44 WYE RIVER DRAINAGE -2.26 0.83 0.00 3.00 KENT NABRICWS - PROSPECT BAY DRAINAGE -2.54 0.93 0.00 3.00 LOWER CHESTER RIVER AREA DRAINAGE -6.75 1.44 1.50 2.90	02-13- 04 -03	LOWER CHOPTANK RIVER AREA DRAINAGE	-27.85	13.62	32.00	11.81	23.48	
TUCKANIOE CREEK DRAINAGE -2.20 1.68 2.30 0.50 CHOPTANIK RIVER AREA -66.83 60.26 73.17 37.17 EASTERN BAY AREA DRAINAGE -8.46 3.00 1.81 D.02 MILES RIVER DRAINAGE -2.56 0.61 6.00 3.00 WYE RIVER DRAINAGE -2.54 0.83 0.00 3.00 LOWER CHESTER RIVER AREA DRAINAGE -6.75 1.44 1.50 2.90	02-13-04-04	UPPER CHOPTANK RIVER AREA DRAINAGE	-15.63	18.24	98,00	12.63	105.24	
CHOPTAMK RIVER AREA -66.13 40.26 128.71 37.17 EASTERN BAY AREA DRAIMAGE -8.46 3.00 1.81 D.02 MILES RIVER DRAIMAGE -2.26 0.83 0.00 D.44 WYE RIVER DRAIMAGE -2.26 0.83 0.00 3.0D KENT NARROWS - PROSPECT BAY DRAIMAGE -2.54 0.93 0.00 3.0D LOWER CHESTER RIVER AREA DRAIMAGE -6.75 1.44 1.50 2.90	D2-13-D4-05	TUCKAIOE CREEK DRAINAGE	-2.28	8 9:	2,30	05:0	1.73	
EASTERN BAY AREA DRAINAGE -8.46 3.00 1.91 D.02 MILES RIVER DRAINAGE -2.25 0.57 0.50 D.44 WYE RIVER DRAINAGE -2.54 0.93 0.00 3.0D KENT NARROWS - PROSPECT BAY DRAINAGE -2.54 0.93 0.00 3.0D LCWER CHESTER RIVER AREA DRAINAGE -6.75 1.44 1.50 2.90	02-13-04-00	CHOPTANK RIVER AREA	-66.03	40 .26	128.11	37.17	158.61	
WILES RIVER DRAINAGE 45.62 0.53 0.00 D.44 WYE RIVER DRAINAGE -2.26 0.51 6.00 3.00 KENT NARROWS - PROSPECT BAY DRAINAGE -2.54 0.93 0.00 3.00 LOWER CHESTER RIVER AREA DRAINAGE -6.76 1.44 1.50 2.90	02-13 05-01	EASTERN BAY AREA DRAINAGE	8. 84.	3.00	1 .	D.012	3.53	
WYE RIVER DRAINAGE -2.25 0.61 5.00 3.00 KENT NARROWS - PROSPECT BAY DRAINAGE -2.54 0.93 0.00 3.00 LOWER CHESTER RIVER AREA DRAINAGE -5.75 1.44 1.50 2.90	02-13-05-02	MILES RIVER DRAINAGE	Si F	0.83	0.60	544	-7.25	
KENT NARROWS - PROSPECT BAY DRAINAGE 3.00 LOWER CHESTER RIVER AREA DRAINAGE -6.75 1.44 1.50 2.90	02-13-05-03	WAYE RIVER DRAINAGE	-2.26	1970	6.10	3.05	¥.	
LOWER CHESTER RIVER AREA DRAINNGE -6.76 1.44 1.50 2.90	02-13-05-04	KENT NARHOWS - PROSPECT BAY DRAINAGE	25.54	26 D	0.00	3.05	-1.64	
	02-13-05-05	LOWER CHESTER RIVER AREA DRAINAGE	6.76	1.44	1.50	2.90	86.0	
	vador, April 22,	2613					Proge 2 of 8	

Basin Code	Watershed Segment	Регтонет Ітрасі	Mitention	тартаннайс Сатв	Cains	NET
02-13-05-06	LANGFORD CREEK DRAINAGE	-0.h	0.40	Q.00	8	0.86
02-13-05-07	CORSIGN RIVER DIPAINAGE	1.91	51.7	Ø:0	0.00	620-
Q2-13-05-03	SOUTHEAST CREEK URAINAGE	70.1-	0.62	0.00	1.40	0.65
02-13-05-09	MIDDLE CHESTER RIVER AREA CRAINAGE	-1.57	H.04	0.20	B.89	8E.1
02-13-05-10	UPPER CHESTER RIVER AREA DRAINAGE	-2.38	0.19	18.30	B.34	24.47
02-13-08-11	KENT ISLAND BAY AREA DRAINAGE	-7.49	4.10	11,40	1.00	90.9
02-13-05-00	CHESTER RIVER AREA	49.83 49.83	13.06	15.00 15.00	24.29	32.78
C2-13-D8-01	LOWER ELK RIVER AREA DRAINAGE	-0.25	a.16	0.00	0.00	-2.18
C2-13-D8-02	DONEMIA RIVER DRAINAGE	4:1 a	0.42	00:00	000	1.24
02-13-06-03	UPPER ELK RIVER AREA DARINAGE	-0.76	0.00	0.00	000	-0.76
62-13-06-04	BACK CREEX DRAIMAGE	40.11	00:00	0.00	0.00	£.6
e2-13-06-05	UTTLE ELK CREEK DRAINAGE	Z.	0.21	0.00	3.00	-1.02
02-13-05-D5	BIG BLK CREEK DRAINAGE	-1.75	3.66	07:0	2.45	2.36
02-13-06-07	CHRISTINA RIVER DRAINAGE	Ž,	78.0	C-dD	0.00	% :0
d2.13-08-09	NORTHEAST RIVER DRAINAGE	8.è	1.84	0.00	0.21	-2,95
02-13-08-09	FURNACE BAY DRAINAGE	2.23	2.46	C.dD	0.00	0.22
02-13-05-10	SASSAFRAS RIVER DRAINAGE	0.50	00:0	C.0D	0.9K	-0.23
02.13.09.11	STILLTOND - FAIRLEE AREA DRAINAGE	-0.33	0.0	0.00	0.50	71.0
02-13-06-00	ELK RIVER AREA	-13.69	8.55	0.40	1.52	262
02-13-07-01	BUSH RIVEK DRAINAGE	-15.84	12.48	0.00	0.76	-19 6 2
02-13-07-02	LOWER WINTERS RUN DRAINAGE	-3.75	B.94	0.00	0.30	91.9
02-13-07-03	ATAISSON RESERVOIR DRAINAGE	-5.47	97.70	0.00	0.00	4.23
62-13-07-04	DYNUM RUN DRAINAGE	-5.80	8.58	0.00	0.30	-3 22
62-13-07-05	ABERDEEN PROVING GROUND AREA DRAINAGE	46.12	32,65	0.00	0.30	161-
40 40 64 06						

DANSINAL OCIS	Patershed Segment	Impact	Permittee	Programmeter	Galms	NET
02-13-07-00	BUSH RIVER AREA	-78.94	7.8.08	2.20	67.0	1.10
02-*3-08-E1	GUNPOWDER RIVER AREA DRAINAGE	-7.21	32.77	\$15°0	0.00	30.58
23-30-6-20	LOWER GUNPOWDER FALLS DRAINAGE	-2.5 0	6.52	00'0	0.02	8.25
02-13- db -03	BIRD RIVER DRAINAGE	-32.12	58.77	00'0	0.00	26.65
02-13-08-04	LITTLE GUNPOWDER FALLS DRAINAGE	-2.06	1.92	14.50	000	10.38
02-13-08-05	LOCH RAVEN RESERVOIR DRAINAGE	0£ 4	5.23	90'6	5.31	8.24
02-13-08-08	PRETTYBOY RESERVOIR DRAINAGE	0.70	D.36	000	03:0	£0.3
02-13-08-07	MIDDLE RIVER - HROWNS CREEK JRAINAGE	-361	3.30	00.0	0.00	4.31
02-13-08-00	GUNPOWDER MVFR AREA	55.55 7	419.17	10.50	5.33	84.44
02-13-09-01	BACK RIVER DRAINAGE	-10.18	3.4	0.00	900	. Γ .
02-13 C9:02	BODKIN CREEK DRAINAGE	-0.23	0.10	0.50	000	0.17
42-13-49-03	BALTIMORE HARBOR AREA DRAINADE	-16.13	10.14	6.50	900	2.51
42-13-49 04	JONES FALLS DRAINAGE	\$9.7°	12.64	6.00	≏ Æ	14.59
Q2-13-CB-05	GWY YNS FALLS DRAINAGE	49.69	11.43	0.00	0.63	2.52
02-13-09-06	PATAPSOD RIVER - LOWER N. BRANCH AREA	-24.61	27.81	D.4D	0.24	3.41
02-13-0B-07	LIBERTY NESERVOIR DRAINAGE	-10.03	50°.8	0.db	0.00	-1,50
02-13-03-08	SOUTH BRANCH PATAPSCO RIVER DRAINAGE	-3.19	× 04	3.00	0.00	185
02-13-08-00	PATAPECO RIVER AREA	-77.50	76.40	16.50	£.	16.84
52-13-10-01	MAGOTHY RIVER AREA CRAINAGE	-217	8	0.00	9.5 08.5	2.21
62-13-10-02	SEVERN RIVER AREA DRAINAGE	06 9-	4.69	0.00	78.0	य श्
C2-13-10-03	SOUTH RIVER AREA DRAINAGE	4	0.43	00:00	10.0	15: P
42-13-10-04	WEST RIVER AREA DRAINAGE	4.90	5.2	0.00	000	0.30
02-13-10-05	OTHER DRAINAGE WEST CHESAPEAKE AREA	-20,63	40.94	1.30	00'0	21.85

Proprometric Other ME3 Galne Guine	1.30 4.48 14.52	u,pp 0.15 -3.21	9.00	0.00 424 -2.73	0.00 0.65 14.00	2.75 4.25 29.88	0.00 0.01 00.00	0.30 0.00 ut.0	0.00 4.00 0.31	14.76 B.70 59.91	1.00 0.00 0.00	0.00	000 000	0.00	0 kA 0.03	0.00 D.00 D.00	00.0	0.40 G.05	£5.0- 0.03 op 4	A 0.03 -1.16	3 60 0.21 5.52	0.000 2.03 B.40	0.00 0.13 34.17	0.00 0.00 3.12
Permittee Miriganian	18.48	15.89	5.09	17.83	22.74	35	20.12	98.8	0.88	143.18	00:00	00:0	0.00	0.00	2.57	0.00	6.24	1.20	0.00	0.00	2.70	15.66	43.60	19:0
Реуманся Імраег	-39.74	30.25	4 17	-24.80	-8.79	-31.97	-9.83	-3.62	-0.67	.104.00	92.0	0.50	0.30	88	-2.54	.u.39	4.72	-2.90	69'7-	-1.16	8 8	-9.32	-9.81	6.6.0-
Watershed Segarant	WEST CHESAPEAKE BAY AREA	PATUXENT RIVER LOWER AREA DRAINAGE	PATUXENT RIVER MIDIXI E AREA DRAINAGE	WESTERN BRANCH DRAINAGE	PATUXENT RIVER UPPER AREA ORAINAGE	UTTLE PATUZENT RIVER BRAINAGE	MICCLE PATUXCNT RIVER DRAINAGE	RODKY SORGE DAM AREA DRAINADE	BRIGHTON DAM AREA DRAINAGE	PATUXENT RIVER AREA	UPPER CHESAPEAKE BAY	MIDDLE CLESAPEAKE BAY	LOWER CHESAPEAKE BAY	CHESAPEAKE RAY	POTOMAC RIVER LOWER YIGAL DRAINAGE	POTOMAC RIVER MIDDLE AREA DRAINAGE	ST. MARY'S RIVER AREA ORA NADE	BRETCN BAY DRAINAGE	91. CLEMENT BAY DRAINAGE	W COMIDO RIVER DRAINAGE	GILBERT SWAMP CRAINAGE	ZEKIAH BWAMP DRAINAGE	PORT TOBACCO RIVER DRAINAGE	NANJEMOY GREEK DRAINAGE
Basin-Code	02-13-10-00	02-13-11-01	52-13-11-62	02-13-11-03	D2 13.11.04	42 13 11-08	42 13 11-08	92 13:11-07	QZ 13 11 09	02-13-13-00	02-13-89-08	02-19-09-57	02-13-09-58	02-13-98-00	02-14 01-01	D2-14 P1-02	82:14:01:03	02-14 C1-04	02-14-C1-05	02-14-01-06	02-14-01-07	C2-14-01-DB	02-14-01-09	02-14-01-10

	Watershad Segment	Permanent	Permittee Miljeation	Programmatic Going	Orher Gaire	NET
02-14 011	MATTAWOMAN CREEK DRAINAGE	-28.17	57.0D	13.55	0.00	42.33
02-14-01:12	LOWER POTOMAC RIVER - VIRGINIA DRG.	OD Q	0.05	0.00	0.00	C .0D
D2-14-01-00	LOWER POTOMAC HIVER AREA	-82.02	128.85	47.70	2.93	86.86
12-14-02-01	POTOWAG RIVER UPPER AREA IBRAINAGE	6.25	3:1	ODG	0.00	Ą
02-14-02-02	POTOMAG RIVER MONTGOMERY COUNTY AREA	4 8	13.40	B, dD	1.38	:2.87
02-14-02-03	PISCATAWAY GREEK DRAINAGE	-21.00	18.55	2.20	0.00	-2.24
02-14-02-04	OXON CREEK DRAINAGE	-0.47	9.26	0.00	03.0	.0 150
02:14-02:45	ANACOSTIA RIVER DRAINAGE	-7281	6 0∵69	0.D	1.50	15.48
02:14:02:06	ROCK CAEEK ISPAINAGE	-# Z4	12'E	0.00	0.25	7. T
02.14.02.07	CABIN JOHN OREEK DRAINAGE	-1.77	1.12	0.30	0.0	4. 16.
02-14-02-08	SENECA CREEK DRAMAGE	-0.13	20.15	0.30	0.83	15,85
02-14-02-09	WAS-LAGTON METROPOLITAN AREA - VIRGIN A DR	0.00	0.30	0.00	0.00	0.00
02-14-02-00	WASHINGTON METROPOLITAN ARFA	-124.49	134.95	6.20	14.07	32.73
02-14-03-C1	POTÓMAG RIVER FREDERICK CO. AREA	-D.40	1.00	00'0	0.00	0.46
02-14-03-02	LOWER MONDCACY RIVER DRAINAGE	4.80	5.22	37.50	0.11	38.23
02-14-03-03	DPIPER MONOCACY RIVER ORAINAGE	-2.3-	1.97	0.00	60.0	0.0
02-14-03-04	DOUBLE PIPE CREEK DRAINAGE	79.60	4.22	18.56	0.03	18.20
02-14-03-05	CATOCTIN DREEK DRAINAGE	-1.00	0.00	0.66	0.17	0.17
02-14-03-06	MIDDLE POTOMAC RIVER AREA - VIRGINA DRG.	0.00	D.dD	0.00	0.00	0.00
02-14-03-00	MIDDLE POTOMAC RIVER AREA	-19.41	7.5	55.74		54.02
¢2-14-05-01	POTOWAC RIVER WASHINGTON DO. AREA	4.48	6.13	0.00	3.00	-1.35
02-14-05-02	ANTIETAM CREEK DRAINAGE	PG,02	000	1.00	3.00	0.48
02-14-05-03	MARSH RUN JRAINAGE	נו.ם	0.00	0.00	0.00	-0.31
(18.14.0s.na						

Monday, April 22, 2013

Brain-Code	Watershed Segment	Peratament Impact	Parmittee Miriganion	Programmatic Galus	Other	WEI
D2-14 D5 05	LITTLE CONDODCHEAGUE CREEK DRAINAGE	3.0b	0.00	0.00	abra	Q.D
02-14-06 08	LICKING GREEK DRAINAGE	3.00	0.00	0.00	000	0.00
02-14-05-07	TONOLOWAY OREEK	-0.03	0.00	0.30	(Paril)	B .6
02-14-05-08	POTOWAC RIVER ALLEGANY DO, AREA	-0.02	Q.00	0.30	0.00	70'07
02-14-05-08	UTTLE TONOLOWAY GREEK DRAINAGE	0.00	0.00	0.30	0.00	000
02-74-05-10	SIDELING HILL, CREEK DRAINAGE	0.00	0.00	0.00	0.00	000
02-74-05-11	FIFTGEN M. LE CREEK	50.02	0.00	0.00	0.00	-0.02
02-74-05-12	TOWN CREEK DAAINAGE	-0.25	0.00	0.00	0.00	-0.25
02-14-05-13	UPPER POTOMAC 9 VER AREA - W. VIRGINIA	0.00	0730	B.00	0.00	0.00
02-14-05-00	UPPER POTOMAC RIVER AREA	346	26.0	1.00	88	-1.50
02-14-10-01	LOWER NORTH BRANCH POTOMAC RIVER AREA	-4.89	5.77	0.00	50.0	1.13
02-14-10-02	EVITTS CREEK DRAINAGE	-1.49	1.65	0.50	2.40	3.09
02-14-10-03	WILLS CREEK DRAINAGE	-0.46	0.47	0.00	gp a	- Q.39
02-14-10-04	GEORGES CREEK DRAINAGE	-1.35	0.92	0.00	4.00	-0.43
02-14-10-05	UPPER N. BRANCH POTCMAC RIVER AREA	4.17	0.11	0.00	4.20	4.14
02-14-10-08	SAVACH NIVER DRA NAGE	9.P	00:00	0.00	Q.55	-D.D3
02-14-10-07	N. BHANCH POTOMAC RIVER AREA W. VIRGINIA	0.00	0.00	0.40	0.00	D90
02-14-10-00	NORTH BRANCH POTOMAC RIVER AREA	9.78	8.62	25.0	7.20	7.44
10: 20: 20: 90	YOUGHIOSHENY RIVER DRAINAGE	4.66	0.10	g:00	0:00	96.0-
05-02 02 02	LITLE YOUGI BOGHENY RIVER DRAINAGE	-1.56	\$4°.	0.00	0.00	-0.17
65:02 62 03	DEEF GRECK LAKE DRAINAGE.	-0.74	0.90	0.00	0.00	-0.74
15-02 D2 04	GASSELMAN RIVER DRAINAGE	10.5	F.S	1.00	130	2.28
06-02-02-00	YOUGHIDGHENY RIVI-R AREA	4.47	2.04	1.00	9 4 1	0,47

Grand Total	-894.65	1013.86	484.02	142.85	745.08
Mordey, April 22, 2017					Pogs K of R

MET

Onher Galus

Programmatic Gains

Permittee Mitigation

Регламан Інраст

Watersheed Segment

Basin-Code

VOLUNTARY WETLAND GAINS IN MARYLAND BY CALENDAR YEAR 1998-2012

ACTIVITY AND WETLAND TYPE	1998-2009	2010	2011	2012	TOTAL
Restoration Forest Nontidal Wetland	5,432.43	40.38			5,472.81
Restoration Shrub Nontidal Wetland	110.79			14.60	125.39
Restoration Emergent Nontidal Wetland	3,764.72	97.55	49.20	62.89	3,974.36
Restoration Unknown Nontidal Wetland Type	215.35		34.40		249.75
Restoration Tidal Wetland	30.31	1.10		3.3988	34.8088
Creation Forested Nontidal Wetland	243.85	6.00			249.85
Creation Emergent Nontidal Wetland	457.43	58.77	2.40	12.70	531.30
Creation Shrub Nontidal Wetland	21.00				21.00
Creation Unknown Nontidal Wetland Type	191.74				191.74
Creation Tidal Wetland	341.45	16.64	58.1327	11.9542	428.17
Enhancement Forested Nontidal Wetland	2,038.66	353.40	315.40	1363.00	4,070.46
Enhancement Shrub Nontidal Wetland	8.00				8.00
Enhancement Emergent Nontidal Wetland	1,066.79	9.30	153.00		1,229.09
Enhancement Unknown Nontidal Wetland Type	1,549.30	41.00			1,590.30
Enhancement Tidal Wetland	122,154.77	10,926.48	0.2492	27,000.00	160,081.50
TOTAL	137,626.59	11,550.62	612.78	28,468.54	178,258.53