

Summary of 2020 Expenditures / Mitigation Acres Approved by Committee

	<u>Acres</u>	<u>Amount</u>
1. SFWMD - C-139 Annex land acquisition, restoration and long-term management		\$ 2,000,000
Mitigation Committee - March 2020		
Cost/WRAP Unit	\$15,248	
WRAP units	131.2 units	
Pennsuco WRAP score	0.25 units/acre	
Pennsuco equivalent mitigation acres = $131.2 / 0.25 =$	524.8	
2. SFWMD - Pennsuco land acquisition, enhancement and long-term management		
Governing Board - June 2020		
5.0 acres	Acquisition cost plus \$2,027 / acre	5.0 \$ 50,135
Governing Board - August 2020		
10.0 acres		10.0 \$ 100,270
Governing Board - September 2020		
5.0 acres		5.0 \$ 50,135
Governing Board - October 2020		
3.19 acres		3.2 \$ 31,986
3. MDLPA - Dade-Broward Levee improvement project - Phase 3		\$ 19,179
Mitigation Committee - August 2020		
Dade-Broward Levee structures operation and maintenance		
4. MDLPA - Water Quality Monitoring (10/1/2020 - 9/30/2021)		\$ 131,149
Mitigation Committee - March 2020		
5. Mitigation Committee Administrative Expenses		\$ -
Total Pennsuco equivalent mitigation acres / Expenditures	548.0	\$ 2,382,854

Escrow account reconciliation deposits (see Appendix D)

1. Escrow account accrued interest through 9/30/2020	\$ 3,217
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L-31N Update

Corps concurrence with L-31N seepage barrier credits (86.8)

774 WRAP credits awarded by Committee for 5-mile barrier in 2016

2015 modeling indicated that the potential effect of mining projects to the east offsets approximately 2.8% of the benefit of the barrier (or 21.7 WRAP mitigation credits).

2015 L31-N acres were reduced by 86.8 acres in summary table

Mitigation Fee – The initial mitigation fee calculation was based on many factors (values and functions of wetlands in the Pennsuco and mining areas, mitigation ratios, estimated mining rates, and acquisition, restoration, and long-term management costs of land in the Pennsuco). During 1999, an interagency team of economists calculated the rate of the fee and determined the most appropriate method for annually adjusting the fee. This approach was codified in statute. Based on changes in mitigation projects and estimated costs, the Legislature revised the mitigation fee schedule in 2006, 2011, and 2015. The fee was 5 cents per ton in 2020. The updated statute is included in Appendix A.

Approved Expenditures – Total expenditures approved in 2020 from the Lake Belt Mitigation Trust Fund were \$2,382,854. The different projects are discussed below and more detailed information on the expenditures and associated mitigation acres are included in Appendix C. There were no administrative costs associated with the operation of the Lake Belt Mitigation Committee in 2020.

V. Committee Mitigation Activities

Committee Activities – In 2020, Committee activities included:

1. Consistent with the Committee’s December 2012 approval of the use of the C-139 Annex Restoration Project as a mitigation project for wetland impacts associated with the limestone mining activities in Lake Belt Region and the associated 25-year cash flow analysis, the Committee approved the planned 2020 payment of \$2 million of funding for the C-139 Annex Restoration project (March 2020). At an estimated cost of \$15,248 per WRAP credit, this expenditure authorized the award of 131.2 WRAP credits (524.8 Pennsuco-equivalent mitigation acres) for 2020, subject to the final credit determination for the project. A summary of C-139 Annex funding, acres, and mitigation credits is included in Appendix C. It was discussed that the SFWMD will be coming back to the Committee with an updated cost and mitigation credit estimate, now that the project permitting has been completed.
2. Approval of the acquisition, enhancement, and long-term management of 23.2 acres in the Pennsuco wetlands (SFWMD Governing Board approvals – June, August, September, and October 2020).
3. In 2016, three additional miles of the L-31N seepage barrier project were constructed. The initial two miles of a 35-foot deep seepage barrier were constructed in 2012 on the berm between the SFWMD L-31N Canal and the adjacent levee, which borders Everglades National Park. Ongoing monitoring well and flowmeter data presented to the Committee indicate that the barrier is influencing water levels and reducing seepage from the Park into the L-31N Canal.

During the 2015 approval process, ground-water modeling information was provided to the Committee on the potential effect that mining projects on the east side of the L-31N Canal might have on the benefits provided by the seepage barrier. The modeling indicated that the potential effect of mining offsets approximately 2.8% of the benefit of the barrier (or 21.7 WRAP mitigation credits). At the time, the Corps recommended Committee approval of the mitigation credits for the full 5-mile seepage barrier and that the credit reduction would be evaluated in the future as the mining projects were reviewed. In 2020, the Corps provided a concurrence letter

for the 21.7 mitigation credit reduction (86.8 Pennsuco-equivalent mitigation acres). This reduction is reflected in the updated 2015 “Mitigation Acres” entry in Appendix C (page 1), which has been reduced from 4,599.8 to 4,513.0 mitigation acres (86.8 acre reduction).

4. In 2016, gaps in 7.5 miles of the Dade-Broward Levee berm (which allowed flow of surface water from the Pennsuco wetlands) were repaired. In 2018, construction of the two proposed water control structures in Phase 2 of the Dade-Broward Levee improvements project was completed. Ongoing monitoring data presented to the Committee indicate that the upstream portion of the Wellfield Protection Canal, which historically has drained the adjacent Pennsuco wetlands, now has higher water levels than the adjacent wetlands and is acting as a source of recharge for the wetlands (rather than a drain).

5. Approval of FY21 operation and maintenance cost for the new Dade-Broward Levee structures (\$19,179). It was discussed that SFWMD would provide an estimated cost for Committee approval every year.

6. Approval of estimated FY21 Lake Belt water quality monitoring costs (\$131,149).

7. An escrow account has been established to facilitate payment of contractors on Miami-Dade Limestone Products Association sponsored projects. \$3,217 of accrued interest was earned in the escrow account during FY20 and deposited back into the Trust Fund. The memo for the accrued interest is included in Appendix D.

8. As shown in Appendix B, the SFWMD makes a quarterly market value adjustment (unrealized gain/loss) for the investment income earned by the Trust Fund. While updating the spreadsheet for this year’s Annual Report, it was realized that the 2018 and 2019 calendar year adjustments needed to be updated. These changes have been reflected in Appendix B and in the annual investment income totals on page 1 of Appendix C.

Mitigation Summary – A summary of annual expenditures / mitigation acres approved by the Committee are included in Appendix C. The Committee has approved a total of 20,191.4 mitigation acres, which will result in the: 1) public acquisition, enhancement, and long-term management of 3,095.6 acres in Pennsuco; 2) enhancement and long-term management of an additional 3,375.4 acres in Pennsuco; 3) enhancement and long-term management of 1,549 acres adjacent to the Dade-Broward Levee; 4) acquisition, enhancement, and long-term management of 100 acres in the Southern Glades project area; 5) construction of a 5-mile seepage barrier to enhance the hydrology in Everglades National Park and 6) acquisition, enhancement, and long-term management of 3,951 acres (10,756.2 Pennsuco-equivalent acres) in the C-139 Annex Restoration project.

APPENDIX C

Receipts / Approved Expenditures Summary

Receipts / Approved Expenditures Through 2020

Year	Permit Table Estimated Mitigation Fee Collections	Estimated Mitigation Fee Running Total	Department of Revenue Mitigation Fee Deposits	Actual Mitigation Fee Running Total	Investment Income	Cash Receipts Running Total	Approved Expenditures	End of Year Balance	Payment Summary	Mitigation Acres
1999	487,813	487,813	*	0	*	0	0	0		
2000	1,950,000	2,437,813	2,386,463	2,386,463	78,162	2,464,625	0	2,464,625		
2001	2,181,684	4,619,497	2,227,895	4,614,358	167,611	4,860,131	0	4,860,131		
2002	2,297,314	6,916,811	2,436,950	7,051,308	174,384	7,471,465	6,607,977	863,488		1,075.9
2003	2,419,071	9,335,882	2,761,957	9,813,265	205,836	10,439,258	0	3,831,281	6,555,971	1,067.4
2004	2,547,282	11,883,164	3,109,122	12,922,387	132,434	13,680,814	866,124	6,206,713	491,360	159.5
2005	2,682,288	14,565,452	3,344,232	16,266,619	200,189	17,225,235	6,184	9,744,950	3,732,067	320.9
2006	2,824,449	17,389,901	3,808,079	20,074,698	521,348	21,554,662	6,151,264	7,923,113	-3,785,199	142.4
2007	2,974,145	20,364,046	4,989,649	25,064,347	934,092	27,478,403	8,784,471	5,062,383	-6,994,199	124.4
2008	3,131,775	23,495,821	4,899,784	29,964,131	380,229	32,758,416	3,727,447	6,614,949		10.0
2009	3,297,759	26,793,580	4,349,570	34,313,701	234,641	37,342,627	9,858,913	1,340,247		954.0
2010	3,472,540	30,266,120	4,481,029	38,794,730	83,335	41,906,991	3,010,721	2,893,890		1,554.3
2011	3,656,585	33,922,705	4,740,963	43,535,693	122,561	46,770,515	8,038,997	(281,583)		620.0
2012	3,838,769	37,761,474	12,403,868	55,939,561	85,431	59,259,814	3,002,138	9,205,578		787.0
2013	4,042,223	41,803,697	19,253,324	75,192,885	(6,568)	78,506,570	8,866,634	19,585,700		2,098.8
2014	4,256,461	46,060,158	19,126,468	94,319,353	608,471	98,241,509	8,302,656	31,017,983		2,128.8
2015	4,482,054	50,542,211	17,158,956	111,478,309	366,129	115,766,594	14,727,716	33,815,352		4,513.0
2016	4,719,603	55,261,814	10,786,476	122,264,785	370,611	126,923,681	8,907,240	36,065,199		1,370.2
2017	4,969,741	60,231,555	6,241,310	128,506,095	783,432	133,948,423	13,885,109	29,204,832		1,667.2
2018	5,233,138	65,464,693	2,538,736	131,044,831	870,765	137,357,924	2,107,289	30,507,044		524.8
2019	5,510,494	70,975,187	2,028,406	133,073,237	2,273,585	141,659,915	2,000,000	32,809,035		524.8
2020	5,802,550	76,777,737	1,904,079	134,977,316	1,571,700	145,135,694	2,382,854	33,901,960		548.0
TOTAL			\$134,977,316		\$10,158,378		\$111,233,734		\$0	20,191.4

* 1999 & 2000 combined

C-139 Annex Project Mitigation Credits

December 2012 Motion

14,302 acres
\$10,377 cost/acre

9,733 WRAP units
\$15,248 cost/WRAP unit

LBMC Meeting	Contribution	C-139 acres	WRAP units	Pennsuco-equivalent acres
12/2012	\$ 3,000,000	289.1	196.8	787.0
11/2013	\$ 8,000,000	770.9	524.7	2,098.8
6/2014	\$ 8,000,000	770.9	524.7	2,098.8
7/2015	\$ 8,000,000	770.9	524.7	2,098.8
7/2016	\$ 5,000,000	481.8	327.9	1,311.6
8/2017	\$ 3,000,000	289.1	196.7	786.8
9/2018	\$ 2,000,000	192.7	131.2	524.8
7/2019	\$ 2,000,000	192.7	131.2	524.8
3/2020	\$ 2,000,000	192.7	131.2	524.8
Total	\$ 41,000,000	3,951.0	2,689.1	10,756.2

Estimated WRAP units/acre subject to the permitted credit determination for the project.

Estimated cost/acre subject to change to meet full cost accounting requirements.

Pennsuco restoration - WRAP score = 0.25 units / acre

**Summary of Water Treatment Plant Upgrade Fee Deposits and
Seepage Management Project Expenditures Approved by the Committee**

Deposits

Year	Department of Revenue Treatment Plant Fee Deposits	Treatment Plant Fee Running Total
2012	\$ 2,115,408	\$ 2,115,408
2013	\$ 4,813,331	\$ 6,928,739
2014	\$ 4,781,617	\$ 11,710,356
2015	\$ 2,237,946	\$ 13,948,302

Expenditures

Year Approved by Committee	Project	Expenditure
2009	L-31N pilot project construction costs	\$ 253,868
2010	L-31N pilot project tracer test	\$ 184,580
2010	Dade-Broward Levee drilling	\$ 119,000
2011	Dade-Broward Levee drilling contingency	\$ 5,005
2011	L-31N Phase 1 construction	\$ 7,838,000
2013	Dade-Broward Levee Phase 1	\$ 414,000
2013	Dade-Broward Levee mulching	\$ 449,000
2015	L-31N Phase 2 construction	\$ 13,757,000
2015	Dade-Broward Levee Phase 1 construction	\$ 1,489,422
2016	Dade-Broward Levee Phase 2 construction	\$ 3,040,957

TOTAL \$ 27,550,832