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<ul> <li>Direct Performance Measures</li> <li>Endangered Species</li> <li>Source: GA EPD/HydroLogics</li> <li>Modeled mussel habitat availability</li> <li>Apalachicola Bay sturgeon habitat base modeled salinity</li> </ul>	
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rage 24 of	00		
	<ul> <li>Design release rules to target the highe amount of sustainable spawning habita the most economic use of storage</li> <li>Design rules to target the best availabil</li> </ul>	sustainable flood plain connectivity	

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•	<ul> <li>Link the amount of preferred mussel he</li> </ul>
	with stage and flow by using the Corps'
	bathymetric data of the Apalachicola Ri

- С 0 measure performance availability direct nabitat Design .
  - surrogates cfs 0000 the Ē and S place S ΰ Q 0 0 Õ this Ň that U Ũ ₹ st Ù 0 Sugg flow

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<ul> <li>Apply Apalachicola Bay salinity model t bay salinity under various operation sco and show the differences</li> </ul>	<ul> <li>Design direct performance measure on salinity</li> </ul>	<ul> <li>Suggest that this replaces the surrogate of flow &lt;= 16,000 cfs</li> </ul>		

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	Determination of Potential Mu Habitat in the Apalachicola Riv
•	Data sources: – Army Corps of Engineers Apalachicola River bath data acquired during high flows (28,900 cfs ~ 44,0 RMS 40-50) in 2009-2010 – LEENSS Addinged Managed babitat GIS coverage
•	<ul> <li>During the main channel with slopes in the range of 10 to 40 % gradient</li> </ul>
	<ul> <li>Find areas of less than 3-feet of inundation under stage height</li> </ul>
	<ul> <li>Find the common areas of the above as potential</li> <li>Change stage height (i.e. flow level) to find multiglinking the area of potential habitat to various stavalues</li> </ul>

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**Comment Documents** 



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Summary
<ul> <li>Philosophical Approach</li> </ul>
<ul> <li>Design performance measures for</li> </ul>
aspects (interests/stakeholders) ir basin
<ul> <li>Design operating rules that target</li> </ul>
performance measures
<ul> <li>Use specific performance measure</li> </ul>
ways of evaluating operation alter

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Summary	<ul> <li>Georgia EPD/ARC/Hydrologics will cont work with other partners to develop additional mussel habitat information</li> <li>Georgia EPD/ARC/Hydrologics urge USF use direct mussel habitat performance measures instead of surrogates in evalt operational alternatives</li> </ul>		Summary

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Tetra Te	sch	development due to unnecessarily low and undependable lake levels need to be assessed and stopped. Small businesses have gone bankrupt and others
Attentio	n: ACF-WCM	have been stretched to keep their doors open. Major fishing tournaments
61 St. Jo Suite 55	seph Street	have been cancelled damaging hotels, restaurants, marinas, and lake related
	4L 36602-3521	businesses. Visitation is down and campgrounds have been closed. Land specifically set aside for a hotel, conference center, golf course, etc. has never
		been developed. We are blessed with a moderate climate and WPL should be
Scoping	Comments for ACF Water Control Manual	managed as a 52 week a year lake with the corresponding benefit of a 52 week a year lake related economy! WPL needs a dependable and reliable
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252 Smokerise Trace Peachtree City, GA 30269	<u>11   8     2</u> Tetra Tech	
ace 90269	Attention: ACF-WCM 61 St. Joseph Street Suite 550 Mobile, AL 36602-3521 Scoping Comments for ACF Water Control Manual I submit the following comments in the recently reopened public scoping period: 1) There is a definitive need for <u>additional storage</u> in the ACF Basin; and that storage is readily and safely available in West Point Lake. Recent studies submitted to the USACE demonstrate that West Point Lake (WPL) can be maintained at a minimum 632.5 MSL year round; and if managed differently, the risk of downstream flooding during major rain events can	
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	Typed version of Comment 2012-0097 (copy of original handwritten letter follows on next page):
	December 10, 2012
	Dear US Army Corp:
	Please allow more water to flow to Apalachicola Bay Florida
	You know all the reasons. Please don't let the Atlanta developers kill a beautiful, productive or – rather – once productive gift of nature and [illegible] those who live on the Bay.
	You have so much power. Please use it wisely.
	Sincerely,
	T [illegible] A retired lawyer with no secretary

## Unknown 3 (Illegible), Unknown 3 (Illegible)

## Page 2 of 2

- December 10, 2012
Dear us army corp:
 · · · · · · · · · · · · · · · · · · ·
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water to grow to aparachicola Bay
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## Unknown 6, Unknown 6 (Illegible)

Page 1 of 2

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Attention: ACF-WCM 61 St. Joseph Street Suite 550 Mobile, AL 36602-3521 Scoping Comments for ACF Water Control Manual I submit the following comments in the recently reopened public scoping period: 1) There is a definitive need for <u>additional storage</u> in the ACF Basin; and that storage is readily and safely available in West Point Lake. Recent studies submitted to the USACE demonstrate that West Point Lake (WPL) can be maintained at a minimum 632.5 MSL year round; and if managed differently, the risk of downstream flooding during major rain events can actually be reduced! The trifecta is there to be won: Increased storage +		1,11,13	
<ul> <li>Mobile, AL 36602-3521</li> <li>Scoping Comments for ACF Water Control Manual</li> <li>I submit the following comments in the recently reopened public scoping period:</li> <li>1) There is a definitive need for <u>additional storage</u> in the ACF Basin; and that storage is readily and safely available in West Point Lake. Recent studies submitted to the USACE demonstrate that West Point Lake (WPL) can be maintained at a minimum 632.5 MSL year round; and if managed differently, the risk of downstream flooding during major rain events can actually be reduced! The trifecta is there to be won: Increased storage +</li> </ul>		Attention: ACF-WCM	
<ol> <li>I submit the following comments in the recently reopened public scoping period:</li> <li>There is a definitive need for <u>additional storage</u> in the ACF Basin; and that storage is readily and safely available in West Point Lake. Recent studies submitted to the USACE demonstrate that West Point Lake (WPL) can be maintained at a minimum 632.5 MSL year round; and if managed differently, the risk of downstream flooding during major rain events can actually be reduced! The trifecta is there to be won: Increased storage +</li> </ol>			
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better management – Keutten hooding:		storage is readily and safely available in West Point Lake. Recent studies submitted to the USACE demonstrate that West Point Lake (WPL) can be maintained at a minimum 632.5 MSL year round; and if managed differently, the risk of downstream flooding during major rain events can actually be reduced! The trifecta is there to be won: Increased storage +	
2) WPL is specifically authorized by Congress for Recreation and Sport Fishing/Wildlife Development in addition to Flood Control, Navigation, and Hydropower. Flood Control can be improved as outlined in the Operations Study referred to in #1 above and which study has been previously submitted to the USACE. Hydropower and Navigation both benefit from the availability of increased storage. The USACE must deliver and honor the Recreation and Sport Fishing/Wildlife Development Authorizations stipulated under law by Congress.		2) WPL is specifically authorized by Congress for Recreation and Sport Fishing/Wildlife Development in addition to Flood Control, Navigation, and Hydropower. Flood Control can be improved as outlined in the Operations Study referred to in #1 above and which study has been previously submitted to the USACE. Hydropower and Navigation both benefit from the availability of increased storage. The USACE must deliver and honor the Recreation and Sport Fishing/Wildlife Development Authorizations	
3) In order to accomplish #1 and #2 above, the Rule Curve needs to be adjusted upward to a minimum 632.5 MSL and the Action Zones need to be modified upward as well to a minimum 630.0 at the bottom of Action Zone 4. The parameters of 632.5 and 630.0 MSL are significant because they represent the initial and second recreation impact levels respectively as defined by the USACE.		upward to a minimum 632.5 MSL and the Action Zones need to be modified upward as well to a minimum 630.0 at the bottom of Action Zone 4. The parameters of 632.5 and 630.0 MSL are significant because they represent the initial and second recreation impact levels respectively as defined by the	

## Unknown 6, Unknown 6 (Illegible)

## Page 2 of 2

## Urbanick, Burton

<ol> <li>2.</li> <li>4) The economic damages to the WPL communities and the lack of economic development due to unnecessarily low and undependable lake levels need to be assessed and stopped. Small businesses have gone bankrupt and others have been stretched to keep their doors open. Major fishing tournaments have been cancelled damaging hotels, restaurants, marinas, and lake related</li> </ol>	1/14/2013 COMMENTER: Burton Urbanick 3130 edgewater dr Gainesville, GA 30501 ORGANIZATION:
businesses. Visitation is down and campgrounds have been closed. Land specifically set aside for a hotel, conference center, golf course, etc. has never been developed. We are blessed with a moderate climate and WPL should be managed as a 52 week a year lake with the corresponding benefit of a 52	COMMENTS: Lake Lanier needs class action suit to protect the rights
week a year lake related economy! WPL needs a dependable and reliable lake level to provide for economic development and stop the economic harm.	of citizens against the ABUSE we have suffered for the "Damage to our economy and our personal property". We need to hold the U.S. Govt liable for 30 years of "Negligence" in propagating careless management of
5) Environmental harm to WPL needs to be documented. Due to wildly vacillating lake levels, the fish spawn has suffered significantly in 3 of the last 5 years and the quality of the fishery, specifically the bass and crappie, has declined. Thousands, if not hundreds of thousands of mussels have been killed threatening water quality; erosion has increased the cost of water treatment; and siltation continues to eliminate valuable storage.	Water levels behind the archaic laws that have been used to defend their indifference in Washington. Send Georgia some of the ludicrous \$\$ you spend on third world countries for their building programs. FILE OUR CLASS ACTION SUITS IN WASHINGTON !
6) USFWS needs to be challenged to provide their science and document the need for 5,000 cfs for endangered species. Why 5,000 cfs? Why not 2,000 cfs? How many of each endangered species are there? Do they exist in deeper water than previously thought? What is the Recovery Plan? Are they still endangered, threatened, or neither? Can they be relocated to other areas where water is more plentiful and the economic damages are less. Who is looking out for the welfare of the small businessman? Common sense would seem to dictate that the needs of man should be balanced with the needs of the critters. The RIOP needs close analysis as part of the EIS to see what changes can be made to avoid destroying the economic, environmental, and recreational value of WPL during all times other than "extreme" drought!	
I thank you for the opportunity to comment and ask that the above issues be submitted and studied during the EIS period. Sincerely,	
Vwv/m + /// /	

#### Vannes, Joan

#### Page 1 of 2



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## Vizzini, Tom

## Page 1 of 2

## Vizzini, Tom

1/14/2013	
	The Court country of the state
COMMENTER: Tom Vizzini 2659 Freedom PKWY #183	<ul> <li>The Corps' current operating rules require more water to be released from Lanier than is necessary and do not allow as much to be stored as is possible. These draw the lake down more than necessary and</li> </ul>
Cumming, GA 30041	make it less likely to refill to full pool under contemporary climatic conditions.
ORGANIZATION: Essential Skills	
	- The Endangered Species Act does not require the Corps to augment Apalachicola River flows above
	run-of-river levels and the practice should not be required because it depletes Lanier unnecessarily.
COMMENTS: The water Management at Lake Lanier does not fill the needs of those around the lake or	
the Atlanta area.	
We are currently trapped by 2 contradictory policies.	- Regular navigation is no longer feasible on the ACF and the Corps should not try to support it in view of
we are contently adopted by 2 contradictory policies.	the other demands on Lanier as a resource of last resort.
1 That Lake Lanier should be used to supply a demand that is not regulated down stream. The	
withdrawal of water in Alabama and Florida along with the increasing withdrawal from increasingly	Thank you for your consideration.
water dependent crops for down stream farming make using Lake Lanier and unsustainable lake. There	
is always going to be a higher demand for water than there is a supply for the lake.	
I suggest that in low level conditions that the release of water be tied to a percentage of the measured	
inflow. This will allow the lake to replenish itself while supplying down stream needs.	
2 When we are lucky enough to get sufficient rain we are currently limited to a full pool of 1071. That has proven to be too low to sustain the lake in today's climate. With the amount of silt deposited in the	
lake the capacity for what it can hold has certainly been decreased on the 50 years the lake has been	
here. Unless a dredging program for increased capacity can me implemented, at great expense I	
imagine, the easiest and most cost effective was to increase capacity is to raise full pool to 1073.	
As a fear work to a stall be a large data.	
As of now nothing at all has been done.	
The frustration come from living in the lake area when we have strict water restrictions and seeing that	
other states have none and can pull as much out of the system as they desire. This drains our lake and	
puts pressure on our lake economy.	
Thousands of jobs have been lost due to low lake conditions. Also the lake has become more and more	
unsafe due to low water levels.	
I also agree with other positions like:	
- The 5,000 cfs minimum flow required at the state line is not representative of the true lowest	
historical flows in the ACF and is not sustainable.	
- Lanier was never designed to support ALL downstream demands and can't be expected to because the	
dams originally proposed on the Flint River were never built.	

#### Voss, Carroll

## Page 1 of 1

## Wagner, David

## Page 1 of 1

1/14/2013	1/14/2
COMMENTER: Carroll Voss	COMM
3320 Lake Shore Dr.	816 W
Cumming, GA 30041	St. Ge
DRGANIZATION:	ORGA
COMMENTS: I don't believe it is logical for downstream users to receive more water flow than what is	COMM
provided by normal rain-fall in the Chattahoochie River basin.	many
Therefore I strongly request the Corp. to reduce the minimum flow to the average five year rain-fall	sinkin
low.	enoug
	and th
	a serio
	water
	Count

#### 2013

MENTER: Dr. David B. Wagner /est Gulf Beach Drive orge Island, FL 32328

NIZATION:

MENTS: I have had a property on St. George Island for over 40 years. I have seen the Bay under different conditions. The condition of the Bay in 2013 is a great concern. For the first time I had a g feeling that the Bay will never be the same. My concerns obviously are that it is not getting the share of the second s ne increased use of Pivots to water crop land. This water use is virtually uncontrolled and is having ous effect on the river levels. It is a complex issue but one thing remains clear. While others use for many uses, water is critical to the Bay. No one can have as big a loss as the people of Franklin y. Priorities must be set and survival is the very highest of priorities.

## Walters, Wesley

# Page 1 of 2

wallers, westey	Walters,	Wesley
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<ul> <li>Light L2,</li> <li>Ters Teeb Attention: ACF-WCM 61 St. Joseph Street Suite 559 Mobile, AL 36603-2521</li> <li>Scoping Comments for ACF Water Control Manual</li> <li>I submit the following comments in the recently reopened public scoping period:</li> <li>1) There is a definitive need for <u>additional storage</u> in the ACF Basin; and that storage is readily and addy available in West Point Lake. (NPL) can be maintained at a minimum 632. MSL year round; and if managed differently, the risk of downstream flooding during major rain events can actually be reduced! The triffects is there to be work. Increased storage + Defer management = Reduced flooding!</li> <li>WFL is specifically authorized by Congress for Recreation and Sport Flabing/Wildfife Development in addition to Flood Control, Navigation, and Hydropower. Flood Control can be improved as outlined in the Operations Study referred to in # Jahore and Wingitain to Bood Control, Navigation, and Hydropower. Flood Control can be improved as outlined in the Operations Study referred to in # Jahore and Wingitain to Bood Control, Navigation, and Hydropower. Flood Control can be improved as outlined in the Operations Study referred to in # Jahore and Wingitain to both bendiff from the rescalability of Ecrotech on by Congress.</li> <li>In screen to accomplish if 1 and 92 above, the Rubic Carve needs to be adjusted to the USACE. Brydrepower and Navigation hold bendiff from the generation and Sport Fishing/Wildfile Development Authorizations straibuilty of account in why Congress.</li> <li>In screen to account plich if 1 and 92 above, the Rubic Carve needs to be adjusted upward to a minimum 632. MSL are significant because even they represent the initial and second recreation impact levels respectively as defined by the USACE.</li> </ul>	<text><list-item><list-item><list-item><text><text><text><text></text></text></text></text></list-item></list-item></list-item></text>
	2 <sup>3</sup>

## Watkins, Linda

## Page 1 of 1

## Webb, Brenda

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om: nt: : bject:	Linda Watkins <lswatkinsfocus@gmail.com> Thursday, November 08, 2012 6:26 PM ACF-WCM OUR LAKE</lswatkinsfocus@gmail.com>	From: Sent: To: Cc: Subject:	Brenda Webb swebbrn@gmail.com> Friday, November 02, 2012 2:38 PM ACF-WCM Zack Lake levels
wer numbers recent me for recreation, o to Alabama for the ffer because of a la	landing spot for waterflowl heading south for the winter. I have noticed significantly dy. We are creating a situation where LaGrange will no longer be a place for people to or fishing. Our docks are sitting in mud, people that built docks and bought boats have to bir water sports. Water will bring business and recreation for all. Our property values (so of mud. It will no the long before LaGrange is bypassed altogether because of the lack ement practices have not worked. Please correct this before it is too late. Linda Watkins	boater. I own a s come to A dock whether there w where it would I even pay \$5000-6000 to I sell their homes As has been rep them that neces "endangered sp without boats an I am so disappoi there are NEVEF Just sayingmay what the solutio on my list. I wen boat that I cann couple of hours. have been a mir	orted many times, there are endangered mussels and oysters and that is the reason or at least one of sitates the lowering of the lake level. As Mr. Timmerberg said, the small business man is really the accies". Maybe, maybe notit is not just the businesses, it is boat owners, house owners, those with and ddocks. We all suffer because we cannot use what we purchased. If the Corps, the Government, our legislators and even our WPLC. They all talk a good game but any results. We can put a man on the moon but we cannot figure out how to store and release water. <i>Vel</i> it is the boat owners, house owners, small business man and others involved that should be asked in is. I think it is a political issue and probably not one high on anyone's priority list. Believe me, it is high to uty esterday to check my boat and I had 6 feet of water under a 16 by 80 foot, 3 bedroom, 2 bath ot even use. I cannot use the baths because I cannot pump out which certainly limits staying more than a I often wonder how the mussels and oysters survived before the lake came to be developed!!!!! Must acle

## Weeks, Brian

# Page 1 of 1

## Weiler, Caroline

# Page 1 of 1

nnella, Michelle		
DIV.ACF.EIS		1/12/2013
ect: FW: ACF - Lake WestPoint - Master Water Co	ntrol Manual Updates Comment	COMMENTER: caroline weiler
		29 8th street
		apalachicola, FL 32320
n: Brian Weeks [mailto:bkweeks@fedex.com]		ORGANIZATION:
: Friday, December 28, 2012 10:29 AM CF-WCM		
delle weeks; <u>gene_sylviadavis@bellsouth.net;</u> Buchanan, DC; Aalderks, Pau	: RUSS GREENWAY	
ect: ACF - Lake WestPoint - Master Water Control Manual Updates Comme		COMPLETE: All the state to the formula of the first state of the state
· · ·		COMMENTS: All I know is that my town is very dependent on sufficient water coming down the river to keep the estuary alive and well. It seems very important, even to the world, to keep this system healthy.
r USACE WCM and Tetra Tech, Inc.,		More important than lawns and swimming pools upstream. Yes, I know water is needed for drinking
		too, but isn't it possible to restrict water usage to only what is necessary? For the good of all?
e comments are in regards to the outdated guidelines and mismanaged res	rvoir levels on Lake WestPoint.	We should all be able to work together for the best outcome. I do so hope. There is much to lose if not.
e annual dramatic reservoir level fluctuations on Lake WestPoint create cor	tant charaling procion and cilt build up	The livilihood of my community and a treasure for the planet.
e annual dramatic reservoir level nucluations on Lake west-point create con e WestPoint is already a shallow lake compared to others in the ACF.	tant shorenne erosion and sitt build up.	
e new plan to maintain Lake WestPoint at Full Pool for 90 days each year Ju	ne 1 to September 1. (while a drastic	
ovement over current fluctuations), is still a dramatic waste of fresh water		
purces.		
ke WestPoint was created not only for conservation efforts, but for public r	creation as well. The low lake levels	
te a hazardous environment for recreation for boaters, skiers, and fisherma	due to the close proximity of stumps to	
surface during low lake level periods.		
I lakes on the ACF should be able to be better maintained with higher lake I		
is ridiculous as the low level for Lake WestPoint. There is no data to suppo	anything under 630 as the minimum	
level. he fact that it is going to take 10 years to change and implement the ACF gu	delines is excellent succession of the	
ral Government and the U.S. Army Corp Of Engineers inability to accomplis		
rai doverniment and the 0.5. Army corp of Engineers mability to accomplis	any task of goal in a timely manner.	
erely,		
n K. Weeks		
outh Pine Cove Drive		
ange, GA 30240		
ne: (404) 918-1615		
<u>bkweeks@fedex.com</u>		

1

## Wharton, Ruth

# Page 1 of 1

White, Alan

1/13/2013	Judge Alan J. White (Ret.)
COMMENTER: Ruth Wharton	Helene B. White
2873 Saint Augustine Road	260 Club Ridge Drive
Monticello, FL 32344	Marietta, GA 30068-4801
ORGANIZATION:	Phone: (770) 971-8780
 COMMENTS: Please keep the health of the Apalachee Bay in mind before you dig in the Apalachicola River basin. The life of the oysters and other sealife, not to mention the water quality of the gulf is very important to our area	<ul> <li>October 31, 2012</li> <li>Colonel Steven J. Roemhildt District Engineers and Commanding Officer U.S. Army Corps of Engineers Mobile District Dis 51, 205eph Street Mobile, AL 36602</li> <li>Sir:</li> <li>Iunderstand that the Corps of Engineers currently is resuming its long- delayed update of its Master Water Control Manual for the Apalechicola- Chattahoochee-Flint (ACP) Basin now that the Supreme Court has denied the Petitions for Writs of Certiorari to review the Circuit Court Decision concerning Atlanta's water supply. So, I will contribute my two cents.</li> <li>I will begin by enclosing a copy of my letter dated August 4, 2009, to the Editor of The Atlanta Journal-Constitution that was published almost completely, except for my credentials, which said in effect that Judge Magnuson's decision depriving Atlanta or alffreent Editor predicting that the Supreme Court would deny the Petitions for Writs of Certiorari to review the Circuit Court decision that overturned Judge Magnuson's decision, was not published.</li> <li>As you are aware, the geographic boundaries of the ACF Basin are finite, and the amount of water it can provide is determined by the quantity and timing of the entials. Netter to a different Editor of the basin is expected to continue to grow into the future, that growth wilb bring increased domestic consumption a well as an increased agricultural and industrial use for the water.</li> <li>Mr the forseeable present, the Master Water Control Manuel can only manage the water in the basin. Construction of reservoirs to release water when ti is needed will benefit management. But in the end, our increasing</li> </ul>

#### White, Alan

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White, Alan

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#### White, Alan

Page 5 of 7



#### White, Alan

#### Page 6 of 7

White, Alan

### Page 7 of 7



## Whitehouse, Alan

# Page 1 of 1

## Whittall, Lloyd

# Page 1 of 1

From:	Alan Whitehouse <tropicalbluewave@yahoo.com></tropicalbluewave@yahoo.com>	1/14/2013
Sent:	Tuesday, October 16, 2012 12:54 PM	
To:	ACF-WCM	COMMENTER: Lloyd Whittall 210 Cheltenham Walk
Subject:	Comments on ACF Master Control Manual	Alpharetta, GA 30004
		ORGANIZATION:
	it can be any clearer that th Apalachicola Bay is dying. I	
	people with the most money that write the laws, but I just shame that we can only stand by and watch it die.	COMMENTS: We concur with the Lake Lanier Association's comments which are as follows:
		- The 5,000 cfs minimum flow required at the state line is not representative of the true lowest historical
Alan Whitehous		flows in the ACF and is not sustainable.
Wacissa, Florid		
		<ul> <li>Lanier was never designed to support ALL downstream demands and can't be expected to because the dams originally proposed on the Flint River were never built.</li> </ul>
		uants originally proposed on the mint river were never built.
		- The Corps' current operating rules require more water to be released from Lanier than is necessary and
		do not allow as much to be stored as is possible. These draw the lake down more than necessary and
		make it less likely to refill to full pool under contemporary climatic conditions.
		- The Endangered Species Act does not require the Corps to augment Apalachicola River flows above
		run-of-river levels and the practice should not be required because it depletes Lanier unnecessarily.
		<ul> <li>Regular navigation is no longer feasible on the ACF and the Corps should not try to support it in view of the other demands on Lanier as a resource of last resort.</li> </ul>

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#### Wilson, Jessica

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#### Page 1 of 12



### Wissinger, Gordon

#### Page 2 of 12

cooperating agency would not imply that the NPS would necessarily concur with all aspects of the USACE findings.

The NPS and CRNRA would like to submit the following attached preliminary scoping comments on the planned updates to the USACE WCM for the ACF River Basin. The purpose of the WCM updates is to identify operating criteria and guidelines for managing water storage and release of water from USACE reservoirs within the ACF Basin. The scope of the WCM includes Lake Lanier and the operation of Buford Dam, which forms the upper boundary of CRNRA. The attached comments provide relevant background on the CRNRA and highlight specific issues that should be evaluated and considered in the Draft EIS and WCM update. They are intended to supplement comments submitted by NPS during previous scoping periods in 2008 and 2009.

We appreciate your consideration of our comments and this request to become a full cooperating agency and partner in developing the Draft EIS. Should you have any questions, or need additional information concerning this request, please contact Patty Wissinger, Superintendent, Chattahoochee River National Recreation Area, by calling (678) 538-1211.

Gordon Wissinger Acting Regional Director

Southeast Region

Enclosure

#### Page 3 of 12

National Park Service Comments

Notice of Intent to Develop a Draft Environmental Impact Statement (EIS) for Updating the Water Control Manual (WCM) for the Apalachicola-Chattahoochee-Flint (ACF) River Basin

#### January 14, 2013

We welcome the opportunity to cooperate with the United States Army Corps of Engineers (USACE) in preparation of the Draft Environmental Impact Statement (EIS) for Updating the Water Control Manual (WCM) for the Apalachicola-Chattahoochee-Flint (ACF) River Basin.

The National Park Service (NPS) offers the following comments on the subject Notice of Intent:

#### **CRNRA** Legislation and Authority

Chattahoochee River National Recreation Area (CRNRA) was established in 1978 when Congress determined that the "natural, scenic, recreation, historic, and other values of a 48-mile segment of the Chattahoochee River ... are of special national significance, and that such values should be preserved and protected from developments and uses which would substantially impair or destroy them." CRNRA consists of 48 miles of river and a scries of 16 land-based park units located between Buford Dam and Peachtree Creek, just north of Atlanta, Georgia. The park provides over 70% of the public green space in the greater Atlanta area and outdoor recreation activities for over three million visitors per year. The Chattahoochee River forms the backbone of the park, and CRNRA has a vested interest in the operations of Buford Dam, as the timing of water releases and related flows in the river directly impact the ability of park managers to preserve the "natural, scenic, recreation, historic, and other values" of the park, as mandated by Congress.

Congress did not specifically identify the "values of special significance" to be preserved, but the NPS has identified and defined values of special significance within the recreation area, which serve as priorities for management action and protection. The values encompass seven categories of resources, including ecological, cultural and historic, recreational, scenic, geologic, water quality and water quantity (NPS, in draft). Most of these resource categories, including water quantity, ecology, water quality, recreation, geology, and culture and history are directly affected by the operation of Buford Dam. As such, our comments during this scoping period focus on these six categories of resources and highlight specific issues that should be evaluated and considered in the Draft EIS and WCM update.

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Wissinger, Gordon

#### Water Quantity

In keeping with its mandates, the NPS seeks to optimize flows below Buford Dam in order to protect and enhance the entire riverine ecosystem. To accomplish this over a broad river system, seasonal and interannual variation, including base flows punctuated by sporadic high and low flow events that mimic the natural (pre-dam) hydrograph, are essential. The United States Fish and Wildlife Service, sister agency to the NPS within the Department of the Interior, will be addressing such broad-scale ecological interests within their comments. Although the NPS strongly supports the broader interests of improving flows within the greater ACF River Basin, our comments specifically address the 48-mile reach of the Chattahoochee River directly downstream of Buford Dam that encompasses the CRNRA.

Historically, the operation of Buford Dam has resulted in river flows with extreme fluctuations in daily and/or hourly flows that represent an extreme deviation from the natural hydrograph. Figures 1-4 depict a typical 7-day hydrograph for each of the four seasons within the last 12 months. Together they demonstrate the extreme fluctuation in daily, and even hourly, flow rates that typify the highly unnatural conditions that exist within CRNRA. While the cold, hypolimnetic releases from Buford offer some benefit to the trout fishery, the extreme fluctuation in flows are arguably a detriment to all species—native or introduced. As such, the primary interests of the NPS with respect to the development of a new Water Control Manual are to seek and evaluate operational alternatives that mitigate the extreme nature of short-term (daily/hourly) flow fluctuations while at the same time ensuring ample minimum flows to maintain water quality, waste assimilation, and improve conditions for aquatic flora and fauna.



#### Page 5 of 12



## Wissinger, Gordon

#### Page 6 of 12



The impacts of lower nows within the central reach of CKNKA are most visible and acute on Bull Sluice Lake, located just upstream of Morgan Falls Dam. Morgan Falls Dam, operated by Georgia Power, serves a key role in re-regulating flow from Buford Dam and other upstream sources to ensure that minimum flows at Peachtree Creek are maintained. However, because neither Buford Dam nor Morgan Falls Dam is geared toward regulating flows between the two facilities, there have been instances in which precipitous drops in water levels have occurred in Bull Sluice. On July 29, 2012, and again on October 18, 2012, gaps in communication and coordination between the USACE and Georgia Power, resulted in extremely low flows and a rapid drop in water levels in Bull Sluice Lake, leaving fish trapped on mud flats and resulting in stranded

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#### Page 7 of 12

recreational paddlers and lost income for rental companies. These incidents highlight a disconnect between the decision-making framework that guides releases from Buford Dam and the on-the-ground affect those decisions have on flows within CRNRA. Establishing an intermediate flow standard or decision-making/modeling node within the central reach of the park would introduce an additional measure of reliability into the system, potentially improving recreational and ecological conditions in the process.

#### Ecology

The Chattahoochee River supports a diverse assemblage of species including native fishes, aquatic invertebrates, plants, and semi-aquatic vertebrates such as great blue heron, muskrats, and amphibians, and the EIS should evaluate the impact of various flow alternatives on these species, particularly those most directly affected by river flows. Among the river's notable native species is the shoal bass (*Micropterus cataractae*). A member of the black bass family shoal bass are native only within the Chattahoochee and Flint rivers, their range historically encompassing nearly the entire basin. Today, the species has been reduced to a handful of isolated populations due in large part to the development and operation of dams throughout the basin that have fragmented habitat and altered flows. Because of this modern condition, Sammons and Maceina (2009) suggest that the species is at risk of extinction unless immediate actions are taken to improve flows.

Porta (2006) points out that low water temperatures correlated with releases from Buford Dam have a negative effect on recruitment and survivorship of young shoal bass. Although water temperatures moderate somewhat moving downstream through CRNRA, particularly below Morgan Falls, cold temperatures during the spring and summer spawning period contribute to lackluster recruitment of shoal bass and likely other native species as well. Interannual discharge variability in free flow rivers has been shown to enhance species diversity by favoring one species in one year, a different species the next, and so on, depending on the flow characteristics within a given year. In a regulated system like the Chattahoochee, interannual variability is diminished, further contributing to decline of native species such as shoal bass. The Draft EIS should evaluate opportunities for varying discharges from Buford Dam to support a broad range of species within CRNRA, including shoal bass and other native species.

In addition to native species, the Chattahoochee River immediately below Buford Dam supports an introduced and naturally reproducing population of trout; the southeasternmost population in the United States and a popular recreational resource. A number of scientific studies have examined the effects of varying flow regimes on fish species within rivers. One study on trout reproductive success (Nestler, 1986) was completed by the USACE during an evaluation of a proposed reregulation dam at river mile 342. This report found that rainbow and brown trout habitat was optimal at flows of 1000 - 1500 cfs. A more recent report by Peterson and Craven (2007) stated that "discharge characteristics affected riverine fishes recruitment ... during both spawning and rearing periods." During the spring spawning period, the study found that higher discharges (> 3500 cfs) positively influenced reproductive success and concluded that reproductive

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success could be increased if suitable discharges were maintained during critical time periods. However, the report also found that high flow pulses that do not mimic natural seasonal precipitation events have substantial negative influence on fish species, particularly during the summer rearing period. The high velocity of currents created by the pulses of water is detrimental to the survival of juvenile and young of year fishes because of the increased metabolic rate associated with swimming in these currents.

#### Water Quality

Water releases from Buford Dam play an important role in supporting water quality within CRNRA for a number of parameters, including temperature, dissolved oxygen, bacterial levels, and turbidity. Any alternative contemplating a reduction, even seasonally, of the current mandated minimum flow of 750 cfs at Peachtree Creek should clearly and credibly evaluate the effects on water quality within CRNRA. As noted in background materials provided by the USACE, Buford Dam has historically been managed to release base flows of up to 1500 cfs to meet water supply needs and downstream water quality standards. If dam operations are modified to institute or accommodate lower base flows, water quality within CRNRA would likely deteriorate due to a reduction in the positive influence of clean water released from Buford Dam.

Currently, over half of the 48-mile CRNRA is 303d-listed for not meeting fecal coliform standards under the state designation as a recreational water body. A USGS study in 1995-96 showed that the density of fecal coliform bacteria; the recognized indicator bacteria in Georgia, regularly exceeds the U.S. Environmental Protection Agency guidelines for recreational waters. Because of the large number of people who use the river for water-based recreation and the historically high levels of indicator bacteria in the Chattahoochee River, the USGS, in partnership with several federal, state, and local agencies, began the BacteriALERT monitoring program in October 2000. The BacteriALERT program has now been in operation for more than a decade and has documented widespread variability in water quality within the Chattahoochee River, with bacterial spikes occurring during rain events when the proportion of surface water to dam releases is highest. These results highlight the importance of releases from Buford in maintaining water quality in CRNRA.

Another source of water quality concern is the increasing number and capacity of wastewater treatment plants operating within the boundaries of CRNRA. Three wastewater facilities currently exist and a third (Forsyth County Shakerag WTP) is slated for construction in the near future. The Georgia State Environmental Protection Division has used historic flow regimes to model the river's capacity to assimilate wastewater discharges. If the Draft EIS considers the potential for lower baseline releases, there needs to be a corresponding evaluation of the potential negative effects of wastewater discharges on water quality within CRNRA. Since past studies on the assimilative capacity of the river would be invalidated by changes to the flow regime, the Draft EIS should clearly evaluate water quality impacts due to wastewater discharges.

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A final water quality concern relates to Dissolved Oxygen (DO) levels downstream of Buford Dam. Based on the classification of this segment of the Chattahoochee River as a secondary trout stream, the state water quality standard for DO is a minimum daily average of 6.0 mg/l and an instantaneous minimum of 5.0 mg/l. The Georgia Department of Natural Resources operates a trout hatchery a few miles downstream of the dam and regularly monitors DO levels in the tailrace. They have found that in the fall during periods of low/minimum flows, DO levels have been below 5.0 mg/l for extended periods of time and have fallen and remained below 3.0 mg/l at times. These low levels of DO can negatively impact the health of fish and other aquatic organism, which has secondary impacts on recreational users and local economies. The Draft EIS should analyze the impact of low DO on the recreational and ecological conditions in the upper Chattahoochee River and evaluate operational changes that could elevate seasonal DO levels in the tailwater.

#### Recreation

CRNRA is a heavily used recreational resource that attracts over 3 million visitors a year; approximately a third of whom engage in some form of water-based recreation, including boating, fishing, canoeing, kayaking, rowing, tubing and swimming. The NPS' principal concern related to recreational use of the river is public safety. Over the past few years, the USACE and NPS have worked closely with other stakeholders to improve the safety of visitors engaged in water-based recreation within the CRNRA. A key component of this effort has been raising awareness of the hazards associated with the release of high flows from Buford Dam. A decrease in documented incidents and accidents in 2012 suggests that this effort may be working, but there will always be opportunities to do more. In light of the overriding importance of public safety, the Draft EIS should address the safety of water-based recreation within CRNRA, including an evaluation of alternatives for modifying dam operations to improve public safety.

Past studies of recreational uses within CRNRA have demonstrated that water-based recreational activities would benefit from moderate and more consistent flows. According to a Recreation Flow Preference Report completed for the NPS (CH2M Hill, 2000), the preferred recreation flows for wade/float fishing, rowing and power boating is between 1,000 to 1,200 cfs. This report further documented that the ideal recreational flow of 1000 – 1200 cfs was available less than 1 percent of the time during the period studied (summer of 1997 and 2000). A USACE report by Nestler (1986) identified optimal canceing conditions for all user levels as occurring between 1250 cfs – 7000 cfs. Both of these studies provide strong support that higher baseline flows, particularly during the summer recreational season, would enhance the recreational values envisioned by Congress when CRNRA was established.

The NPS has specific concerns related to adequate flows for weekend recreation in the summer, when the park has its greatest number of visitors. Since Buford Dam operations have not historically involved regularly scheduled weekend releases, it will be important for the Draft EIS to evaluate the possibility of supplemental releases to support weekend recreational activities. As noted in the Water Quantity section above, current base flows

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are not always supportive of recreational uses of the Chattahoochee River, and the potential for insufficient flows is increased on the weekends, when hydropower releases aren't regularly scheduled.

#### Geology

Prior to the construction of Buford Dam, naturally-occurring water level fluctuations within the Chattahoochee River would have been relatively slow and gradual. Conversely, the operation of Buford Dam, as dictated by hydropower generation, results in abrupt and dramatic changes in water levels for short periods of time. Over time, this has resulted in severe bank erosion and collapse, not only along the main stem of the Chattahoochee River, but also within tributary confluences due to backwash effects. The Draft EIS should evaluate the geomorphological impact of frequent but short-term high flow conditions, with particular emphasis on the accelerated erosion of river and tributary banks. It will be important to quantify the expected short-term and long-term loss of stream banks in order to accurately analyze the environmental, social and economic effects of accelerated erosion.

The environmental effects of severe bank undercutting and erosion include increased siltation, which concerns the NPS because it leads to long-term habitat alterations that may negatively impact aquatic species. In particular, the Draft EIS should evaluate the impact of dam operations on organisms that benefit from a gravel or rocky substrate, including trout, shoal bass, mussels, and macroinvertebrates. A USGS research biologist noted the deleterious effect of accumulated silt on shoal bass and their habitat within the Chattahoochee River above Morgan Falls Dam (J. Long, pers. comm.). In addition, increasing sediment in Bull Sluice Lake has created a shallow water body optimal for the growth of exotic aquatic plant species.

The social and economic effects of rapid bank erosion in a highly populated and heavily developed metropolitan area are becoming increasingly apparent. Over the past few years, CRNRA has worked with a growing number of municipalities, businesses, homeowner associations, and individual property owners to stabilize banks along the Chattahoochee River and its tributaries in order to prevent loss of property. In most cases, erosion has progressed over a number of years, then reached a tipping point marked by rapid bank loss and/or threatened infrastructure. The social and economic costs associated with property loss and bank stabilization efforts are an emerging issue in communities along the Chattahoochee River. In evaluating alternatives for the operation of Buford Dam, the EIS should consider the future impacts of bank erosion and the growing cost of measures taken to protect private and public property and facilities.

#### **Culture and History**

Cultural and historic resources within CRNRA are similarly impacted by water releases from Buford Dam. The Ivy Mill ruins in Roswell, Georgia date back to the 1830's and are listed on the National Register of Historic Places. Ivy Mill is prone to flooding during protracted high water releases from Buford dam. In addition to Ivy Mill, the NPS

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has documented dozens of archaeological sites within the boundary of CRNRA; many of which occur adjacent to the Chattahoochee River and its tributaries. These archaeological sites are at high risk of damage from accelerated erosion caused by the fluctuating releases from Buford Dam. A number of historic fish weirs within CRNRA are also threatened or lost due to siltation, erosion, and flooding related to the current water regime (Gerdes and Messer, 2007). The Draft EIS should consider the impacts of rapidly fluctuating water levels on archeological and historic sites within CRNRA.

In summary, the national importance of the Chattahoochee River corridor as an ecological, recreational, and historic resource was established through its inclusion into the National Park system. In order to ensure park resources are "preserved and protected from developments and uses which would substantially impair or destroy them," the NPS would like to work cooperatively with the USACE to manage flows within the Chattahoochee River. The preservation of base flows in the Chattahoochee River for ecological and recreational purposes is critical. The NPS would encourage the USACE to evaluate the possibility of establishing a flow standard within the central reach of the park (e.g., at the Norcross or Roswell gage) to ensure that water quality and minimum flows are preserved throughout the recreation area. The USACE should also fully consider potential modifications to the operation of Buford Dam to allow for more gradual increases and decreases in water levels or to mitigate the Draft EIS and updated WCM, the NPS requests that impacts to CRNRA be fully evaluated and considered.

#### Citations

CH2M Hill. 2000. Recreation Flow Preference Report, Chattahoochee River National Recreation Area. Prepared for the National Park Service, Atlanta, Georgia.

Gerdes, M. and S. Messer. 2007. Chattahoochee River National Recreation Area Historic Resource Study. Prepared for the National Park Service, Atlanta, Georgia.

National Park Service. In draft. Chattahoochee River National Recreation Area Values of Special Significance Workshop Report. U.S. Department of the Interior, Chattahoochee River National Recreation Area, Georgia.

Nestler, J.M., et al. 1986. Effects of flow alterations on trout, angling, and recreation in the Chattahoochee River between Buford Dam and Peachtree Creek. Technical Report E-86-10, U.S. Army Engineer Waterways Experiment Station, Vicksburg, Miss.

Peterson, J.T. and S. W. Craven. 2007. The development of a quantitative decision models for evaluating the effects of river regulation and water use on native fishes in the Chattahoochee River National Recreation Area. Report to the National Park Service, Atlanta, Georgia.

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Porta, M.J.. 2006. Effects of Environmental Variation on Conservation-Stocking Success of an Endemic Black Bass Species in the Chattahoochee River, Georgia. Thesis. Frostburg State University.

Sammons, S.M. and Maceina M.J. 2009. Conservation status of shoal bass in Alabama: distribution, abundance, stocking efficiency, and possible effects of sympatric congeneric black bass in selected tributaries of the Chattahoochee River, Alabama. Alabama Division of Wildlife and Freshwater Fisheries. Montgomery, AL.

## Wood, Pearle

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Woodard, Cre

1/14/2013	1/12/2013
COMMENTER: Pearle Wood	COMMENTER: Cre Woodard
700 E. Bayshore Dr.	P.O. Box 21
St. George Island, FL 32328	Empire, MI 39630
ORGANIZATION:	ORGANIZATION:
COMMENTS: Please update the manual in accordance with the best possible results for the Apalachicola	COMMENTS: To protect the River and Bay, citizens can advocate for the scope of the Water Control
River and Bay to stay healthy, including using best schedule practices for the Woodruff Dam, and	Management Plan EIS to include:
remembering the water is shared.	1. An assessment and consideration of the freshwater needs that will sustain the health of the
	Apalachicola River and Bay. 2 Increased water release from Woodruff Dam at appropriate timing and
	duration to sustain Apalachicola River and Bay 3. An ACF basin wide sustainable water management plan that protects the Apalachicola River and Bay and equitably shares the water of this basin.

## Wright, Elizabeth

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## Wright, Elizabeth

1/13/2013	large and intact bottomland hardwood forests which buffer the Apalachicola River are not being
1/13/2013	transported to the Bay. In addition, backswamp tree species such as water tupelo, which need "wet
COMMENTER: Elizabeth Wright	feet" for a portion of the year, are clearly experiencing ecological stress longtime observers say they're
239 8th Street	dying as a result of this lack of seasonal flooding.
Apalachicola, FL 32320	
ORGANIZATION:	The Corps' current water management policies for this basin are rapidly driving Apalachicola River and Bay ecosystems to a tipping point: these ecosystems can still be saved and returned to functional
UNDAMENTON.	integrity, but the time to act is now! Otherwise, it will be too late.
	Without increased freshwater flows, I predict they'll enter a state of irreversible decline like America's
COMMENTS: As a resident of Apalachicola, FL, wildlife biologist, and former congressional staffer who	other great bays (most notably, the Chesapeake, with which I'm quite familliar). And then we'll spend
worked on energy and water development issues, I urge the Corps to include the following within the scope of its revised ACF Master Water Control Management Plan EIS:	tens of millions of taxpayer dollars pretending to "save" another bay, when in reality it will no longer be ecologically feasible.
1) An quantitative assessment of the downstream flows needed to sustain Apalachicola River and Bay	Destruction of Apalachicola River and Bay ecosystems, in turn, will destroy the economy of my county
ecosystems in an ecologically healthy condition;	(Franklin Co., FL) and its various municipalities including Apalachicola, Eastpoint, and St. George Island.
2) Increased water releases from Woodruff Dam of appropriate timing and duration to sustain	Our county's economy relies heavily on the seafood industry and tourism (charter fishing, ecotourism, maritime heritage tourism, etc.) associated with our awe-inspiring river and bay. If we lose our world-
Apalachicola River and Bay ecosystems, in accordance with said assessment; and	famous oysters, our hospitality industry will collapse as well.
Apalachicola hiver and bay ecosystems, in accordance with said assessment, and	ramous dysters, our nospitality industry will compse as well.
3) Development of an ACF basin-wide sustainable water management plan which protects the ecological	Also threatened is production of our world-famous tupelo honey, produced by local beekeepers who
integrity of Apalachicola River and Bay, and equitably distributes ACF basin water resources.	deliver their hives to the backswamps while the water tupelos are in bloom. Unhealthy tupelos mean
The "least Creat De." is drive of third. This remarks here and an dread restriction actuation accounts an	less tupelo honey; dead tupelos mean no tupelo honey.
The "Last Great Bay" is dying of thirst! This remarkably pristine and productive estuarine ecosystem displays signs of mounting ecological stress due to lack of sufficient freshwater input. Both scientists	We don't have any large corporations here. All the businesses I mention above are true small
and lifelong oystermen/women have reported a noticeable increase in abundance of marine predators	businesses, mostly family-owned. Our watermen/women and honey producers learned their trades
in the bay resulting from increased salinity, as well as increasing prevalence of a devastating oyster	from the parents, grandparents, and great-grandparents. We produce marketable goods like oysters
disease (Dermo).	and honey in truly sustainable ways the way they used to do it "back in the day."
It's quite clear that our previously thriving oyster populations have declined as a result, threatening to	Is the Corps really willing to continue threatening the ecological integrity of the Last Great Bay, and the
topple the entire bay ecosystem by reducing the number of filter-feeders. We've seen this happen in	economic health of local communities and their residents who love and rely upon our river and bay?
the Chesapeake Bay please don't let Apalachicola Bay go the same way!	
	Like many of this areas newer residents, I moved to Apalachicola because I fell in love with the river
In addition to oysters, crabs, shrimp, finfish, and other aquatic species, oyster die-off likely will contribute to a long-term decline in populations of a state-listed shorebird species, the American	and bay at first sight. The Corps seemingly deliberate failure to protect these remarkable natural resources is like a slap in the face to me.
Oystercatcher (FL-threatened). As its name suggests, this species relies heavily on oysters as a food	i esources is ince a siap in une lace to inc.
source, and uses exposed bars as places to rest, preen, and escape disturbance some even nest on the	Humans upstream can reduce their water use. Apalachicola River and Bay ecosystems can't. It's as
bars! Many other shorebird species also rely on oyster bars in similar ways. If Apalachicola Bay's oysters	simple as that.
continue to die off, multiple species of shorebirds whose populations are already in decline will lose	The last of the second s
critically important foraging, roosting, and breeding habitats.	Thank you for considering my comments.
And what about the federally-listed (ESA) mussel species found in this area? It seems they're simply	Elizabeth A. Wright
being ignored in the Corps' water management decisions. What's happened to Section 7 here is no less	M.S. in Wildlife Ecology and Management
than shameful.	(12 years' field experience working in southeastern bottomland forest and coastal ecosytems)
Productivity of the bay also is no doubt being adversely affected by a lack of nutrient input from the	
backswamps upriver because, in the absence of sufficient mainstem flows, these areas have not	
experienced in several years their typical winter flood cycle. Thus, nutrients produced in the remarkably	

#### Wylie, Clarence

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wyne, Clarend	Wylie,	Clarence
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#### Zelznak, Rick

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Zumwalt, Bob

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1/11/2013

COMMENTER: Rick Zelznak 8794 Megans Lane Tallahassee, FL 32309

ORGANIZATION:

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COMMENTS: As you update your Master Water Control Manual, please ensure the restoration and sustainability of the flow on the Apalachicola River and the impacts on the Bay. Significant negative economic and biological impacts have been experienced along the Apalachicola for years. I hope you take this opportunity to address these impacts by increasing flows above and beyond the minimal amount of 5000 cfs from Woodruff Dam. Thank you for the opportunity to comment. 1/15/2013

COMMENTER: Bob Zumwalt 3615 Lodgehaven Circle Gainesville, GA 30506

ORGANIZATION: Lake Lanier Association

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COMMENTS: If the "endangered species" survived the drought-stricken years, before dams were built on the Chattahoochee, they would have experianced much dryer situations than now. It's obvious that this is all about more recent commercial species.