

APPENDIX A

**STAKEHOLDER CONSULTATION AND CORRESPONDENCE
PART 5**

From: [stuart](#)
To: [Kelly Miller](#)
Cc: [Gerrit Jobsis](#)
Subject: Re: Follow-up from Recreational Flows Focus Group
Date: Thursday, January 15, 2015 5:04:10 PM

body{font-size:10pt;font-family:arial,sans-serif;background-color:#ffffff;color:black;}p{margin:0px;}

Kelly: Thank you for the email. There were two comments that I neglected to make at our meeting and would like to submit them to you:

1) A few years ago, Joey Holleman wrote an article in the State Newspaper describing a potential paddle. He suggested starting at the Peak Landing, paddling upstream to the dam, then downstream on river-left to the trestle and back up to Peak Landing on river-right. This would be a great paddle, but not possible at low water levels. If a relatively small amount of water were spilled at the west end of the dam, this float would be possible.

2) Your proposed portage around the west side of the dam would be a tough one, since that is the "dry side". If a small amount of water could be spilled there, the portage would be possible.

Thanks, Stuart

-----Original Message-----

From: Kelly Miller
Sent: Jan 7, 2015 4:46 PM
To: "sgreeter77@earthlink.net"
Subject: Follow-up from Recreational Flows Focus Group

Hi Stuart,

I hope you had a nice holiday season! At the Recreational Flows Focus Group I told you I would send you the map that shows where the proposed canoe portage is located at Parr Dam. This map is attached. Also, the website for the Parr Relicensing Project is www.parrfairfieldrelicense.com. At this website, you can find all of the study plans we have developed for the Project, including the Recreation Use and Needs Study Plan and the Recreational and Navigational Flows study plans.

If you have any questions on the Project, or would ever like to be added to a distribution list, where you will receive documents and meeting invites, just let me know.

Thanks!
Kelly

Kelly Miller
Regulatory Coordinator
[cid:image001.gif@01D02A99.74BE8430]
Office: 803.462.5633
www.KleinschmidtGroup.com

From: [Edge Joyner](#)
To: [Kelly Miller](#)
Subject: Re: Follow-up from Recreational Flows Focus Group
Date: Thursday, January 08, 2015 8:00:16 AM

Thank you Kelly. Please add me to the meeting invites/distribution lists; I am very interested in the process and want to be a responsible and active river advocate. I passed along to Karen Kustafik that I thought the meeting was productive, informative, and a positive step in cooperative efforts amongst diverse groups.

edye

----- On Wed, 07 Jan 2015 16:49:35 -0500 **Kelly Miller**<Kelly.Miller@KleinschmidtGroup.com> wrote -----

Hi Edye,

I hope you had a nice holiday season! At the Recreational Flows Focus Group I told you I would send you the map that shows where the proposed canoe portage is located at Parr Dam. This map is attached. Also, the website for the Parr Relicensing Project is www.parrfairfieldrelicense.com. At this website, you can find all of the study plans we have developed for the Project, including the Recreation Use and Needs Study Plan and the Recreational and Navigational Flows study plans.

If you have any questions on the Project, or would ever like to be added to a distribution list, where you will receive documents and meeting invites, just let me know.

Thanks!

Kelly

Kelly Miller

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

<http://www.kleinschmidtusa.com/>

From: [stuart](#)
To: [Kelly Miller](#)
Cc: [Gerrit Jobsis](#)
Subject: Re: Follow-up from Recreational Flows Focus Group
Date: Thursday, January 15, 2015 5:04:10 PM

body{font-size:10pt;font-family:arial,sans-serif;background-color:#ffffff;color:black;}p{margin:0px;}

Kelly: Thank you for the email. There were two comments that I neglected to make at our meeting and would like to submit them to you:

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Thanks, Stuart

-----Original Message-----

From: Kelly Miller
Sent: Jan 7, 2015 4:46 PM
To: "sgreeter77@earthlink.net"
Subject: Follow-up from Recreational Flows Focus Group

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I hope you had a nice holiday season! At the Recreational Flows Focus Group I told you I would send you the map that shows where the proposed canoe portage is located at Parr Dam. This map is attached. Also, the website for the Parr Relicensing Project is www.parrfairfieldrelicense.com. At this website, you can find all of the study plans we have developed for the Project, including the Recreation Use and Needs Study Plan and the Recreational and Navigational Flows study plans.

If you have any questions on the Project, or would ever like to be added to a distribution list, where you will receive documents and meeting invites, just let me know.

Thanks!
Kelly

Kelly Miller
Regulatory Coordinator
[cid:image001.gif@01D02A99.74BE8430]
Office: 803.462.5633
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From: [Jon Durham](#)
To: [Alison Jakupca](#); [harkinsg@dnr.sc.gov](#); [rmills84@hotmail.com](#); [Jennings, Jason E -FS](#); [stokess@dnr.sc.gov](#); [Bill Marshall](#); [edcole67@gmail.com](#)
Cc: [BARGENTIERI@scana.com](#); [Henry Mealing](#); [Kelly Miller](#); ["BOOZER, THOMAS C"](#)
Subject: Re: Draft Waterfowl Focus Group Meeting Summary
Date: Sunday, January 25, 2015 6:17:37 PM

Hello everyone,

A couple of things I would contribute.

- In the "Personal Preferences" bullet points, Keitts Bridge appears to be referenced as being on Parr Reservoir. That landing is on the Enoree, upriver of the Enoree Waterfowl Area.
- In the "Project Area Preference and Needs" bullet points, there is a reference to the foot bridge bridge in the Enoree Waterfowl Area. That bridge already exist. The conversation was about the fact that the bridge may be contributing to the over - crowding issue in the area. It does provide easier access to the far side of the area. Previously, that area was a long *walk* around the impoundment. Now wading to that area is possible because the foot bridge gets you over the creek channel out in the middle of the water.
- In the "Project Area Preference and Needs" bullet points, there is mention of "improving hunting opportunities" regarding the SCE&G property upstream of the Enoree Waterfowl Area. To be clear, the intent of the suggested enhancements to the area is to restore wetland habitat for waterfowl and other wetland dependant organisms.... critters. With it's proximity to the Enoree Waterfowl Area, it is possible that the improved area would be a sanctuary. While this would contribute to overall habitat, I am not sure it directly contributes to "hunting opportunities". Waterfowl hunters have long correlated habitat conservation and restoration with sustaining populations conducive to hunting, but the two efforts are distinct.

Chris, Ed, Rawls and I had a good wood duck shoot in a bottom off the Enoree to close the season. Over all, I had a good season, wood duck numbers were great up and down the Tyger and Enoree, heard there were some numbers of mallards in the Tyger River area. The Enoree Waterfowl area seemed less crowded, I had a good day in there during December with wood ducks, mallards, some mergansers. I hope the rest of you had an enjoyable season as well.

Jon Durham

(803) 271 6701

----- Original Message -----

From: [Alison Jakupca](#)
To: [harkinsg@dnr.sc.gov](#) ; [rmills84@hotmail.com](#) ; [Jon Durham](#) ; [Jennings, Jason E -FS](#) ; [Sam Stokes](#) ([stokess@dnr.sc.gov](#)) ; [Bill Marshall](#) ; [edcole67@gmail.com](#)
Cc: [BARGENTIERI@scana.com](#) ; [Henry Mealing](#) ; [Kelly Miller](#) ; ["BOOZER, THOMAS C"](#)
Sent: Friday, January 23, 2015 4:24 PM
Subject: Draft Waterfowl Focus Group Meeting Summary

Good Afternoon All,

I trust that everyone had a nice Christmas and New Years. Attached is a meeting summary from the December 9th Waterfowl Focus Group that you attended. Please let me know if you have any corrections, or if there are any additions that you would like to make. Any new additions will be added to the end of the summary as "Comments Submitted Subsequent to the Meeting". If you have any corrections or additions, please let me know by February 6th. At that time these notes will become final.

Thank you again for your participation at this focus group. We will certainly let you know in advance of any future waterfowl focus group meetings. Have a wonderful weekend. Alison

Alison Jakupca

Regulatory Coordinator

Kleinschmidt Associates

Office: 803.462.5628

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From: [Shane Boring](#)
To: [Gerrit Jobsis](#); [Kelly Miller](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Bill Stangler \(CRK@congareeriverkeeper.org\)](#); [Brandon Kulik](#); [BRESNAHAN, AMY](#); [Byron Hamstead \(Byron_hamstead@fws.gov\)](#); [Chad Altman \(altmankc@dhec.sc.gov\)](#); [Dick Christie \(christied@dnr.sc.gov\)](#); [Frank Henning@nps.gov](#); [Fritz Rohde \(Fritz.Rohde@noaa.gov\)](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Henry Mealing](#); [Jay Maher](#); [Jim Glover \(gloverjb@dhec.sc.gov\)](#); [Karla Reece \(Karla.Reece@noaa.gov\)](#); [Kerry Castle \(castlek@dnr.sc.gov\)](#); [Ley, Amanda](#); [Pace Wilber \(Pace.Wilber@noaa.gov\)](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy mahan \(rmahan@sc.rr.com\)](#); [Ron Ahle](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Scott Harder](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [Tom McCoy \(thomas_mccoy@fws.gov\)](#)
Subject: RE: IFIM Memo
Date: Wednesday, April 22, 2015 5:00:58 PM

Gerrit,

Thank you for your comments; sorry I'm just getting you a response. In regards to your first comment on the high calibration flows, Jon Quebbeman – our IFIM Team Hydrologist, has provided the following explanation:

I reviewed Gerrit's comments and request for modeling flows up to 20,000 cfs. As he notes, the higher flow is an 'estimate' of habitat; this flow rate cannot be verified with transects and velocity measurements, and only stage records of higher flow pulses (subject to hysteresis) may be used to assist in model calibration. Fortunately, these sites are well studied, and high-quality hypsographic information is available for model construction, increasing confidence in model results, including wetted perimeter estimates. Although focus on model calibration and verification will be at lower flow rates, running models at these extrapolated conditions is still feasible.

I discussed your second comment regarding use of the wetted perimeter results at the Transect above Haltiwanger with Brandon. He indicates that the wetted perimeter information at Haltiwanger would be used no differently than at other wetted perimeter transects in that it will be used to develop a flow/stage relationship which can be used to predict the % of habitat wetted at various discharge levels. This at least gives us some measure of habitat without forcing the transect data into a model that won't provide a meaningful output. Keep in mind that the habitat suitability should be well characterized by the transects adjacent to Haltiwanger Island in each of the 2 channels, as well as upstream at Study Site 7.

I have distributed this response to remainder of the TWC to make certain that others do not have additional recommendations regarding the use of the wetted perimeter transect data at Haltiwanger.

Shane Boring
Environmental Scientist
Office: 803.462.5625

From: Gerrit Jobsis [mailto:gjobsis@americanrivers.org]

Sent: Monday, April 06, 2015 12:06 PM

To: Kelly Miller; Alison Jakupca; ARGENTIERI, WILLIAM R; Bill Marshall (marshallb@dnr.sc.gov); Bill Stangler (CRK@congaareeriverkeeper.org); Brandon Kulik; BRESNAHAN, AMY; Byron Hamstead (Byron_hamstead@fws.gov); Chad Altman (altmankc@dhec.sc.gov); Dick Christie (christied@dnr.sc.gov); Frank_Henning@nps.gov; Fritz Rohde (Fritz.Rohde@noaa.gov); Greg Mixon (mixong@dnr.sc.gov); Henry Mealing; Jay Maher; Jim Glover (gloverjb@dhec.sc.gov); Karla Reece (Karla.Reece@noaa.gov); Kerry Castle (castlek@dnr.sc.gov); Ley, Amanda; Pace Wilber (Pace.Wilber@noaa.gov); rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Ron Ahle; Rusty Wenerick (weneriwr@dhec.sc.gov); Scott Harder; Shane Boring; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov)

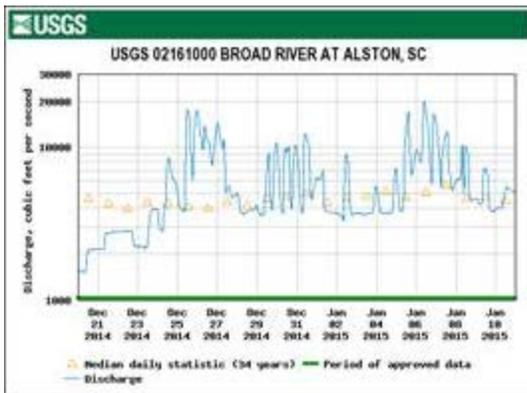
Subject: RE: IFIM Memo

Kelly,

I have reviewed the memo and have the following comments.

- I am fine with using the 9,800 cfs level logger WSEL data as a surrogate for 10,000 cfs and adding a 6,000 cfs WSEL. This is with the understanding that the 400 cfs and 2,000 cfs WSELs will still be collected and that we find a way to use the 6,000 cfs and 9,800 cfs WSELs to provide an estimate habitat availability up to our target of 20,000 cfs. As the graph below shows, project operations can affect flows between 15,000 and 20,000 cfs.
- I understand the problem with lateral flows and PHABSIM transect data. The collection of a wetted perimeter transect will be useful. I recommend the TWC discuss and reach agreement on how best to use the WP information at an upcoming meeting.

Gerrit



Gerrit Jobsis, American Rivers
Senior Director, Southeast Conservation Programs
215 Pickens Street
Columbia, SC 29205
(O) 803.771.7114 (C) 803.546.7926

Communities removed 72 dams in 2014, restoring 730 miles of rivers! How many were removed in your state? www.AmericanRivers.org/2014DamRemovals

Please consider the environment before printing this e-mail.

From: Kelly Miller [<mailto:Kelly.Miller@KleinschmidtGroup.com>]

Sent: Tuesday, March 24, 2015 5:04 PM

To: Alison Jakupca; ARGENTIERI, WILLIAM R; Bill Marshall (marshallb@dnr.sc.gov); Bill Stangler (CRK@congariverkeeper.org); Brandon Kulik; BRESNAHAN, AMY; Byron Hamstead (Byron_hamstead@fws.gov); Chad Altman (altmankc@dhec.sc.gov); Dick Christie (christied@dnr.sc.gov); Frank Henning@nps.gov; Fritz Rohde (Fritz.Rohde@noaa.gov); Gerrit Jobsis; Greg Mixon (mixong@dnr.sc.gov); Henry Mealing; Jay Maher; Jim Glover (gloverjb@dhec.sc.gov); Karla Reece (Karla.Reece@noaa.gov); Kelly Miller; Kerry Castle (castlek@dnr.sc.gov); Ley, Amanda; Pace Wilber (Pace.Wilber@noaa.gov); rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Ron Ahle; Rusty Wenerick (weneriwr@dhec.sc.gov); Scott Harder; Shane Boring; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov)

Subject: IFIM Memo

All,

Attached is a memo with progress updates on IFIM study activities. Please note that two changes to the study methodology are proposed in the memo. Please provide concurrence or your reason for not concurring with recommended changes by April 3rd.

Thanks,
Kelly

Kelly Miller

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

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From: [Jeff Carter](#)
To: [Kelly Miller](#)
Cc: [randy.mahan@sc.rr.com](#); [Erich Miarka \(erich.miarka@gillscreekwatershed.org\)](#); [Robert Stroud \(StroudR@dnr.sc.gov\)](#); [Mark Davis](#); [Alison Jakupca](#); [Steve Summer](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [btrump@scana.com](#); [Frank Henning@nps.gov](#); [J. Hagood Hamilton Jr. \(jhamilton@scana.com\)](#); [Pace Wilber \(Pace.Wilber@noaa.gov\)](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [William Hendrix \(HendrixWB@dot.state.sc.us\)](#); [Edye Joynes](#); [Dick Christie \(dchristie@comporium.net\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [Scott Collins \(secollins@scana.com\)](#); [Wayne and Ginny Boland \(wayneboland@bellsouth.net\)](#); [John Fantry \(jfantry@bellsouth.net\)](#); [STUTTS, BRANDON G](#); [Bill Stangler \(CRK@congareeriverkeeper.org\)](#); [Henry Mealing](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Jaclyn Daly \(Jaclyn.Daly@noaa.gov\)](#); [Gerrit Jobsis \(gjobsis@americanrivers.org\)](#); [BRESNAHAN, AMY](#); [Merrill McGregor \(merrillm@sccl.org\)](#); [Joe Wojcicki](#); [Jon Durham \(jondurham@bellsouth.net\)](#); [Byron Hamstead \(Byron_hamstead@fws.gov\)](#); [ARGENTIERI, WILLIAM R](#); [rammarell@scana.com](#); [Lorianne Riggini \(RigginiL@dnr.sc.gov\)](#); [Jay Maher](#); [Charlene Coleman \(cheetahrk@yahoo.com\)](#); [David Haddon \(dhaddon@scana.com\)](#); [tboozer@scana.com](#); [Corbin Johnson \(Corbin.Johnson@scana.com\)](#); [Randy Mahan \(randolph.mahan@scana.com\)](#)
Subject: Re: draft LLM TWC meeting notes - 8/20/15
Date: Monday, September 14, 2015 7:49:56 PM

Kelly, I was unable to attend the meeting but would like to request clarification of WMA property within the PBL. Although I fully support no hunting above Highway 34 which is my current understanding, however, there appears to be a question as to if the entire Parr Reservoir is or is not WMA.

Please refer to page 71 of the SCDNR 2015-2016 Hunting & Fishing Regulation Guide and it identifies the entire 4,400 acres within WMA.

Additionally, I visited the State Office of DNR and was informed by a Law Enforcement Officer that they allow hunting on all PBL property above Hwy. 34. My question is as follows; Does all PBL property north of Highway 34 considered within the designated SCWMA and therefore available to be hunted by the public?

Would you allow this to be part of the follow up from the meeting held August 20, 2015?

Sent from my Verizon Wireless 4G LTE Tablet

On Sep 14, 2015 4:23 PM, Kelly Miller wrote:

All,

Attached are the draft notes from our LLM TWC meeting held on August 20, 2015. Please review and return any edits or comments to me by Friday, September 25th.

Thanks,

Kelly

Kelly Miller

Regulatory Coordinator



Office: 803.462.5633

From: [Hendrix, William B.](#)
To: [Kelly Miller](#); [Jeff Carter](#)
Cc: [randy mahan \(rmahan@sc.rr.com\)](#); [Erich Miarka \(erich.miarka@gillscreekwatershed.org\)](#); [Robert Stroud \(StroudR@dnr.sc.gov\)](#); [Mark Davis](#); [Alison Jakupca](#); [Steve Summer](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [btrump@scana.com](#); [Frank_Henning@nps.gov](#); [J. Hagood Hamilton Jr. \(jhamilton@scana.com\)](#); [Pace Wilber \(Pace.Wilber@noaa.gov\)](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Edye Joyner](#); [Dick Christie \(dchristie@comporium.net\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [Scott Collins \(secollins@scana.com\)](#); [Wayne and Ginny Boland \(wayneboland@bellsouth.net\)](#); [John Fantry \(jfantry@bellsouth.net\)](#); [STUTTS, BRANDON G.](#); [Bill Stangler \(CRK@congareriverkeeper.org\)](#); [Henry Mealing](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Jaclyn Daly \(Jaclyn.Daly@noaa.gov\)](#); [Gerrit Jobsis \(gjobsis@americanrivers.org\)](#); [BRESNAHAN, AMY](#); [Merrill McGregor \(merrillm@scccl.org\)](#); [Joe Wojcicki](#); [Jon Durham \(jondurham@bellsouth.net\)](#); [Byron Hamstead \(Byron_hamstead@fws.gov\)](#); [ARGENTIERI, WILLIAM R](#); [rammarell@scana.com](#); [Lorianne Riggin \(RigginL@dnr.sc.gov\)](#); [Jay Maher](#); [Charlene Coleman \(cheetahrk@yahoo.com\)](#); [David Haddon \(dhaddon@scana.com\)](#); [tboozr@scana.com](#); [Corbin Johnson \(Corbin.Johnson@scana.com\)](#); [Randy Mahan \(randolph.mahan@scana.com\)](#)
Subject: RE: draft LLM TWC meeting notes - 8/20/15
Date: Thursday, September 17, 2015 9:17:52 AM

Kelly, I am somewhat confused by your reply to Mr. Carter. It was my recollection of the meeting that this matter of public hunting on Non-WMA property was covered by the revision that was made during the meeting to Paragraph 6.2.2 (Hunting) of the Parr SMP. As you will recall, during the meeting I pointed out that the paragraph was not accurate as written as there is hunting on SCE&G lands that are not designated WMA, as SCE&G currently leases the land within the PBL north of Hwy. 34 to its employees for hunting. It was my recollection that Bill revised the paragraph to read "Public Hunting is not allowed..." Is this not the case? Can you please forward this page with the tracking changes shown?

I think there is certainly such a degree of confusion in regards to the lands within the PBL above Hwy. 34 that warrant making this topic an agenda item for the next meeting. I would think the committee would certainly want to produce a final product free of any "gray areas."

Thank you.

Billy Hendrix

From: Kelly Miller [mailto:Kelly.Miller@KleinschmidtGroup.com]

Sent: Wednesday, September 16, 2015 10:23 AM

To: Jeff Carter

Cc: [randy mahan \(rmahan@sc.rr.com\)](#); [Erich Miarka \(erich.miarka@gillscreekwatershed.org\)](#); [Robert Stroud \(StroudR@dnr.sc.gov\)](#); [Mark Davis](#); [Alison Jakupca](#); [Steve Summer](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [btrump@scana.com](#); [Frank_Henning@nps.gov](#); [J. Hagood Hamilton Jr. \(jhamilton@scana.com\)](#); [Pace Wilber \(Pace.Wilber@noaa.gov\)](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Hendrix, William B.](#); [Edye Joyner](#); [Dick Christie \(dchristie@comporium.net\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [Scott Collins \(secollins@scana.com\)](#); [Wayne and Ginny Boland \(wayneboland@bellsouth.net\)](#); [John Fantry \(jfantry@bellsouth.net\)](#); [STUTTS, BRANDON G.](#); [Bill Stangler \(CRK@congareriverkeeper.org\)](#); [Henry Mealing](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Jaclyn Daly \(Jaclyn.Daly@noaa.gov\)](#); [Gerrit Jobsis \(gjobsis@americanrivers.org\)](#); [BRESNAHAN, AMY](#); [Merrill McGregor \(merrillm@scccl.org\)](#); [Joe Wojcicki](#); [Jon Durham \(jondurham@bellsouth.net\)](#); [Byron Hamstead \(Byron_hamstead@fws.gov\)](#); [ARGENTIERI, WILLIAM R](#); [rammarell@scana.com](#); [Lorianne Riggin \(RigginL@dnr.sc.gov\)](#); [Jay Maher](#); [Charlene Coleman \(cheetahrk@yahoo.com\)](#); [David Haddon \(dhaddon@scana.com\)](#); [tboozr@scana.com](#); [Corbin Johnson \(Corbin.Johnson@scana.com\)](#); [Randy Mahan \(randolph.mahan@scana.com\)](#)

Subject: RE: draft LLM TWC meeting notes - 8/20/15

Mr. Carter,

Thank you for your comment regarding WMA lands within the Parr PBL. In order to fully and accurately answer your question, we also consulted with Bill Marshall with SCDNR. Here is a summary of the information we collected.

Shoreline around the Nuclear Exclusion Zone and some other specific lands owned by SCE&G are designated as part of the Property Watch Program, where SCE&G does not allow public hunting. This is enforced by SCDNR. Currently, the land within the PBL upstream of Hwy 34 has not been communicated to SCDNR as land that needs to be included in this program. However, if SCE&G does not want to allow public hunting above Hwy 34, they can communicate this with SCDNR for enforcement.

Right now, it appears that the lands in question are in a "gray area," where they are not part of the WMA (please see the SCDNR Map #4 attached), and they are also not included in the Property Watch Program. Public hunting is not encouraged, but it is also not prohibited.

To answer your question, all PBL property north of Hwy 34 is **not** designated within South Carolina's WMA, however, it has also not been designated to SCDNR as an area where hunting is prohibited to the public.

We will include your question and this response as part of the meeting notes record.

I hope this answers your question and if you have any further questions or comments, please let me know. As always, we appreciate your continued participation in the Lake and Land Management TWC, and the Parr Hydro Project Relicensing.

Thanks,

Kelly

Kelly Miller
Regulatory Coordinator

Kleinschmidt

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From: Jeff Carter [<mailto:jmcarter00@sc.rr.com>]

Sent: Monday, September 14, 2015 7:50 PM

To: Kelly Miller <Kelly.Miller@KleinschmidtGroup.com>

Cc: randy mahan (rmahan@sc.rr.com) <rmahan@sc.rr.com>; Erich Miarka (erich.miarka@gillscreekwatershed.org) <erich.miarka@gillscreekwatershed.org>; Robert Stroud (StroudR@dnr.sc.gov) <StroudR@dnr.sc.gov>; Mark Davis <mddavis629@gmail.com>; Alison Jakupca <Alison.Jakupca@KleinschmidtGroup.com>; Steve Summer <ssummer@scana.com>; Malcolm Leaphart (mwleapjr@att.net) <mwleapjr@att.net>; btrump@scana.com <btrump@scana.com>; Frank_Henning@nps.gov <Frank_Henning@nps.gov>; J. Hagood Hamilton Jr. (jhamilton@scana.com) <jhamilton@scana.com>; Pace Wilber (Pace.Wilber@noaa.gov) <Pace.Wilber@noaa.gov>; Bill Marshall (marshallb@dnr.sc.gov) <marshallb@dnr.sc.gov>; William Hendrix (HendrixWB@dot.state.sc.us) <HendrixWB@dot.state.sc.us>; Edye Joyner <edye@bteamkayaking.com>; Dick Christie (dchristie@comporium.net) <dchristie@comporium.net>; Chuck Hightower (hightocw@dhec.sc.gov) <hightocw@dhec.sc.gov>; Scott Collins (secollins@scana.com) <secollins@scana.com>; Wayne and Ginny Boland (wayneboland@bellsouth.net) <wayneboland@bellsouth.net>; John Fantry (jfantry@bellsouth.net) <jfantry@bellsouth.net>; STUTTS, BRANDON G <BSTUTTS@scana.com>; Bill Stangler (CRK@congareriverkeeper.org) <CRK@congareriverkeeper.org>; Henry Mealing <Henry.Mealing@KleinschmidtGroup.com>; Greg Mixon (mixong@dnr.sc.gov) <mixong@dnr.sc.gov>; Rusty Wenerick (weneriwr@dhec.sc.gov) <weneriwr@dhec.sc.gov>; Jaclyn Daly (Jaclyn.Daly@noaa.gov) <Jaclyn.Daly@noaa.gov>; Gerrit Jobsis (gjobsis@americanrivers.org) <gjobsis@americanrivers.org>; BRESNAHAN, AMY <Amy.Bresnahan@scana.com>; Merrill McGregor (merrillm@scccl.org) <merrillm@scccl.org>; Joe Wojcicki <bypas2000@yahoo.com>; Jon Durham

(jondurham@bellsouth.net) <jondurham@bellsouth.net>; Byron Hamstead
(Byron_hamstead@fws.gov) <Byron_hamstead@fws.gov>; ARGENTIERI, WILLIAM R
<BARGENTIERI@scana.com>; rammarell@scana.com <rammarell@scana.com>; Lorianne Rigg
(RigginL@dnr.sc.gov) <RigginL@dnr.sc.gov>; Jay Maher <Jay.Maher@KleinschmidtGroup.com>;
Charlene Coleman (cheetahtrk@yahoo.com) <cheetahtrk@yahoo.com>; David Haddon
(dhaddon@scana.com) <dhaddon@scana.com>; tboozier@scana.com; Corbin Johnson
(Corbin.Johnson@scana.com) <Corbin.Johnson@scana.com>; Randy Mahan
(randolph.mahan@scana.com) <randolph.mahan@scana.com>

Subject: Re: draft LLM TWC meeting notes - 8/20/15

Kelly, I was unable to attend the meeting but would like to request clarification of WMA property within the PBL. Although I fully support no hunting above Highway 34 which is my current understanding, however, there appears to be a question as to if the entire Parr Reservoir is or is not WMA.

Please refer to page 71 of the SCDNR 2015-2016 Hunting & Fishing Regulation Guide and it identifies the entire 4,400 acres within WMA.

Additionally, I visited the State Office of DNR and was informed by a Law Enforcement Officer that they allow hunting on all PBL property above Hwy. 34. My question is as follows; Does all PBL property north of Highway 34 considered within the designated SCWMA and therefore available to be hunted by the public?

Would you allow this to be part of the follow up from the meeting held August 20, 2015?

Sent from my Verizon Wireless 4G LTE Tablet

On Sep 14, 2015 4:23 PM, Kelly Miller <Kelly.Miller@KleinschmidtGroup.com> wrote:

All,

Attached are the draft notes from our LLM TWC meeting held on August 20, 2015. Please review and return any edits or comments to me by Friday, September 25th.

Thanks,

Kelly

Kelly Miller

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

www.KleinschmidtGroup.com

From: cmccrary.netsourceek12.com
To: [Kelly Kirven](#)
Subject: Re: Parr Reservoir waterfowl hunting
Date: Thursday, February 25, 2016 11:34:06 AM

Hey Kelly,

My apologies for the late response. I've been swamped lately.

A little back story on me, I'm a waterfowl hunter and fisherman from the Santee Cooper lakes area. Over the last 6 years I've become really involved with Santee Cooper Electric Co-op, SCDNR, and the Aquatic Plant Management Council (APMC) as an advocate for expansion of native beneficial submersed aquatic vegetation (SAV) on the lakes for wildlife habitat. The Santee Cooper lakes have a long history with SAV starting with hydrilla 25 years ago. Since then our lakes have been a rollercoaster of up and down in terms of biological stability.

With the drought of 2008 a new native plant showed up on the scene down here. *Vallisneria Americana*. Val is a native perennial SAV that is a top priority food source for all waterfowl. It makes up 70% of the diet of canvasbacks wintering in the Chesapeake Bay. It's a vital food source for other ducks such as gadwalls, pintails, widgeon, and ring-necked ducks.

As of now I am working with Santee Cooper to hopefully install some SAV enclosures this summer to introduce *vallisneria* in some new areas of the lakes.

Call and speak to Larry McCord (Director of Analytical and Biological Services) at Santee Cooper on *vallisneria*. He's a great guy and full of knowledge as it relates to aquatic plant benefits for wildlife.

As for Parr -

I think that *vallisneria* would be perfect for the reservoir as a food source and for cover for fish. It's a great filter plant that provides water clarity in the shallows. The backwater areas such as Cannon's Creek and Heller's Creek would be great introduction test sites. There is a diked area just south of the VC Summer water intake canal that would be a perfect introduction site as well. *Vallisneria* is a shallow water plant that won't grow in waters deeper than about 5ft so concerns about the intake canal don't apply.

Another idea - There are several ridges and islands that occur due east of Heller's creek and run southeast down the reservoir towards the dam.

As of now, these islands are covered in cattails. A great benefit to waterfowl would be to burn the islands and then re-seed them with native wild millets, bulrush, spikerush, button bush, Pennsylvania smartweed, all important food sources for waterfowl and all other wildlife.

Parr could be one of the best waterfowl habitats in the state and we would love to help with any labor needed to install enclosures and transplanting. I would love to be involved in any upcoming meetings on this, and would like to involve SCDNR if possible.

There are many South Carolina hunters that would benefit from Parr's wintering waterfowl,

and with Broad River WMA just up the river, if we add a vital food source to Parr, the wintering waterfowl population would sky-rocket.

Not to mention what SAV would do for the fishery.

Please keep me involved, I would love to help.

Thanks

Clark McCrary

Carolina Waterfowl Syndicate

803-378-3250.

On February 18, 2016 at 1:21 PM Kelly Kirven wrote:

Hi Clark,

This email is just to follow up from our recent conversation about waterfowl hunting on Parr Reservoir. Thank you for your feedback in response to our survey efforts. We appreciate any and all information you can provide about waterfowl hunting on the reservoir.

If you would like any additional information about the Parr Hydro Project relicensing, please visit our website at www.parrfairfieldrelicense.com.

Thanks,

Kelly

Kelly Miller Kirven

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

Cell: 803.917.4528

www.KleinschmidtGroup.com

From: [Congaree Riverkeeper](#)
To: [Kelly Kirven](#)
Cc: [Alex Pellett \(PellettC@dnr.sc.gov\)](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [BRESNAHAN, AMY](#); [btrump@scana.com](#); [Caleb Gaston \(caleb.gaston@scana.com\)](#); [Charlene Coleman \(cheetahrk@yahoo.com\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [Dick Christie \(dchristie@comporium.net\)](#); [Edye Joyner](#); [Erich Miarka \(erich.miarka@gillscreekwatershed.org\)](#); [Frank Henning@nps.gov](#); [Gerrit Jobsis \(gjobsis@americanrivers.org\)](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Henry Mealing](#); [J. Hagood Hamilton Jr. \(jhamilton@scana.com\)](#); [Jaclyn Daly \(Jaclyn.Daly@noaa.gov\)](#); [Jay Maher](#); [Jeff Carter \(jmcarter00@sc.rr.com\)](#); [Joe Wojcicki](#); [John Fantry \(jfantry@bellsouth.net\)](#); [Jon Durham \(jondurham@bellsouth.net\)](#); [Karen Swank Kustafik \(kakustafik@columbiasc.net\)](#); [Lorianne Riggin \(RigginL@dnr.sc.gov\)](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [Mark Davis](#); [Merrill McGregor \(merrillm@sccccl.org\)](#); [Pace Wilber \(Pace.Wilber@noaa.gov\)](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy.mahan \(rmahan@sc.rr.com\)](#); [Robert Stroud \(StroudR@dnr.sc.gov\)](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Scott Collins \(secollins@scana.com\)](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [tboozr@scana.com](#); [Wayne and Ginny Boland \(wayneboland@bellsouth.net\)](#); [William Hendrix \(HendrixWB@dot.state.sc.us\)](#)
Subject: Re: draft Downstream Navigational Flow Assessment
Date: Friday, April 15, 2016 6:32:25 PM
Attachments: [CRK - Navigational Flow Assessment Comments.pdf](#)

Congaree Riverkeeper's comments on the Downstream Navigational Flow Assessment are attached.

--

Bill Stangler
Congaree Riverkeeper

On Fri, Apr 1, 2016 at 10:36 AM, Kelly Kirven <Kelly.Kirven@kleinschmidtgroup.com> wrote:

Good morning,

Attached is the draft Downstream Navigational Flow Assessment. Please review and submit any comments or edits by Friday, April 15th. We will discuss this document at the upcoming Recreation TWC meeting, to be scheduled for some time in May.

Thanks,

Kelly

Kelly Miller Kirven

Regulatory Coordinator

Kleinschmidt

Office: [803.462.5633](tel:803.462.5633)

Cell: [803.917.4528](tel:803.917.4528)

www.KleinschmidtGroup.com

From: [Gerrit Jobsis](#)
To: [Kelly Kirven](#); [Alex Pellett \(PellettC@dnr.sc.gov\)](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Bill Stangler \(CRK@congariverkeeper.org\)](#); [BRESNAHAN, AMY](#); [btrump@scana.com](#); [Caleb Gaston \(caleb.gaston@scana.com\)](#); [Charlene Coleman \(cheetahrk@yahoo.com\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [Dick Christie \(dchristie@comporium.net\)](#); [Edye Joyner](#); [Erich Miarka \(erich.miarka@gillscreekwatershed.org\)](#); [Frank_Henning@nps.gov](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Henry Mealing](#); [J. Hagood Hamilton Jr. \(jhamilton@scana.com\)](#); [Jaclyn Daly \(Jaclyn.Daly@noaa.gov\)](#); [Jay Maher](#); [Jeff Carter \(jmcarter00@sc.rr.com\)](#); [Joe Wojcicki](#); [John Fantry \(jfantry@bellsouth.net\)](#); [Jon Durham \(jondurham@bellsouth.net\)](#); [Karen Swank Kustafik \(kakustafik@columbiasc.net\)](#); [Lorianne Riggin \(RigginL@dnr.sc.gov\)](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [Mark Davis](#); [Merrill McGregor \(merrillm@sccl.org\)](#); [Pace Wilber \(Pace.Wilber@noaa.gov\)](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy.mahan \(rmahan@sc.rr.com\)](#); [Robert Stroud \(StroudR@dnr.sc.gov\)](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Scott Collins \(secollins@scana.com\)](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [tboozers@scana.com](#); [Wayne and Ginny Boland \(wayneboland@bellsouth.net\)](#); [William Hendrix \(HendrixWB@dot.state.sc.us\)](#)
Subject: RE: draft Downstream Navigational Flow Assessment
Date: Friday, April 08, 2016 5:49:48 PM
Attachments: [AmericanRiversNavigationFlowsStudyComments.pdf](#)

Here are American Rivers' comments.

Gerrit Jöbsis, American Rivers
Senior Director, Conservation Programs
215 Pickens Street
Columbia, SC 29205
(O) 803.771.7114 (C) 803.546.7926

Rivers connect us. Show your support for clean water and healthy rivers at www.AmericanRivers.org/Donate
Please consider the environment before printing this e-mail.

From: Kelly Kirven [mailto:Kelly.Kirven@KleinschmidtGroup.com]
Sent: Friday, April 01, 2016 10:37 AM
To: [Alex Pellett \(PellettC@dnr.sc.gov\)](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Bill Stangler \(CRK@congariverkeeper.org\)](#); [BRESNAHAN, AMY](#); [btrump@scana.com](#); [Caleb Gaston \(caleb.gaston@scana.com\)](#); [Charlene Coleman \(cheetahrk@yahoo.com\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [Dick Christie \(dchristie@comporium.net\)](#); [Edye Joyner](#); [Erich Miarka \(erich.miarka@gillscreekwatershed.org\)](#); [Frank_Henning@nps.gov](#); [Gerrit Jobsis](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Henry Mealing](#); [J. Hagood Hamilton Jr. \(jhamilton@scana.com\)](#); [Jaclyn Daly \(Jaclyn.Daly@noaa.gov\)](#); [Jay Maher](#); [Jeff Carter \(jmcarter00@sc.rr.com\)](#); [Joe Wojcicki](#); [John Fantry \(jfantry@bellsouth.net\)](#); [Jon Durham \(jondurham@bellsouth.net\)](#); [Karen Swank Kustafik \(kakustafik@columbiasc.net\)](#); [Kelly Kirven](#); [Lorianne Riggin \(RigginL@dnr.sc.gov\)](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [Mark Davis](#); [Merrill McGregor \(merrillm@sccl.org\)](#); [Pace Wilber \(Pace.Wilber@noaa.gov\)](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy.mahan \(rmahan@sc.rr.com\)](#); [Robert Stroud \(StroudR@dnr.sc.gov\)](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Scott Collins \(secollins@scana.com\)](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [tboozers@scana.com](#); [Wayne and Ginny Boland \(wayneboland@bellsouth.net\)](#); [William Hendrix \(HendrixWB@dot.state.sc.us\)](#)
Subject: draft Downstream Navigational Flow Assessment

Good morning,

Attached is the draft Downstream Navigational Flow Assessment. Please review and submit any comments or edits by Friday, April 15th. We will discuss this document at the upcoming Recreation TWC meeting, to be scheduled for some time in May.

Thanks,

Kelly

Kelly Miller Kirven
Regulatory Coordinator



Office: 803.462.5633

Cell: 803.917.4528

www.KleinschmidtGroup.com

From: [Gerrit Jobsis](#)
To: [Kelly Kirven](#); [Alex Pellett \(PellettC@dnr.sc.gov\)](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Bill Stangler \(CRK@congariverkeeper.org\)](#); [BRESNAHAN, AMY](#); [Caleb Gaston \(caleb.gaston@scana.com\)](#); [Chad Altman \(altmankc@dhec.sc.gov\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [David Eargle \(eargleda@dhec.sc.gov\)](#); [Fritz Rohde \(Fritz.Rohde@noaa.gov\)](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Henry Mealing](#); [Jay Maher](#); [Jim Glover \(gloverjb@dhec.sc.gov\)](#); [Kerry Castle \(castlek@dnr.sc.gov\)](#); [Ley, Amanda](#); [Lorianne Riggan \(RigganL@dnr.sc.gov\)](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy mahan \(rmahan@sc.rr.com\)](#); [Ron Ahle](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Scott Castleberry \(castlews@dhec.sc.gov\)](#); [Shane Boring](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [Tom McCoy \(thomas_mccoy@fws.gov\)](#)
Subject: RE: Final Parr Shoals Dam Turbine Venting Report
Date: Friday, April 22, 2016 5:52:29 PM
Attachments: [AmericanRiversTurbine VentingStudyComments.pdf](#)
[AmericanRiversWestChannelWaterQualityStudyComments.pdf](#)

Dear Kelly,
Please find attached American Rivers comments and recommendations for the turbine venting and west channel water quality study reports.
Gerrit

Gerrit Jöbsis, American Rivers
Senior Director, Conservation Programs
215 Pickens Street
Columbia, SC 29205
(O) 803.771.7114 (C) 803.546.7926

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Please consider the environment before printing this e-mail.

From: Kelly Kirven [mailto:Kelly.Kirven@KleinschmidtGroup.com]
Sent: Tuesday, April 19, 2016 1:20 PM
To: [Alex Pellett \(PellettC@dnr.sc.gov\)](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Bill Stangler \(CRK@congariverkeeper.org\)](#); [BRESNAHAN, AMY](#); [Caleb Gaston \(caleb.gaston@scana.com\)](#); [Chad Altman \(altmankc@dhec.sc.gov\)](#); [Chuck Hightower \(hightocw@dhec.sc.gov\)](#); [David Eargle \(eargleda@dhec.sc.gov\)](#); [Fritz Rohde \(Fritz.Rohde@noaa.gov\)](#); [Gerrit Jobsis](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Henry Mealing](#); [Jay Maher](#); [Jim Glover \(gloverjb@dhec.sc.gov\)](#); [Kelly Kirven](#); [Kerry Castle \(castlek@dnr.sc.gov\)](#); [Ley, Amanda](#); [Lorianne Riggan \(RigganL@dnr.sc.gov\)](#); [Malcolm Leaphart \(mwleapjr@att.net\)](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy mahan \(rmahan@sc.rr.com\)](#); [Ron Ahle](#); [Rusty Wenerick \(weneriwr@dhec.sc.gov\)](#); [Scott Castleberry \(castlews@dhec.sc.gov\)](#); [Shane Boring](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [Tom McCoy \(thomas_mccoy@fws.gov\)](#)
Subject: Final Parr Shoals Dam Turbine Venting Report

Good afternoon,

Attached for your record is the Final Parr Shoals Dam Turbine Venting Report. This document will also be available at the project website at www.parrfairfieldrelicense.com.

Thanks,

Kelly

Kelly Miller Kirven
Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

Cell: 803.917.4528

www.KleinschmidtGroup.com

From: [Henry Mealing](#)
To: [Kelly Miller](#); BARGENTIERI@scana.com; [Steve Summer](#)
Subject: FW: Entrainment Memo #4
Date: Monday, February 09, 2015 3:58:34 PM
Attachments: [image002.png](#)

For the files.

Henry

From: Fritz Rohde - NOAA Federal [mailto:fritz.rohde@noaa.gov]

Sent: Monday, February 09, 2015 3:37 PM

To: Henry Mealing

Subject: Re: Entrainment Memo #4

I emailed Shane earlier that I can't participate. Have another meeting. But I have no issues
On Mon, Feb 9, 2015 at 3:26 PM, Henry Mealing <Henry.Mealing@kleinschmidtgroup.com>
wrote:

Hey TWC,

I pulled together some additional data from the turbine mortality database to answer Byron's
questions that he posed for the group discussion. I know this doesn't give you much time, but
we just finished pulling data together this afternoon.

Henry

Henry Mealing

Fisheries Biologist / Project Manager

Kleinschmidt

Lexington, SC 29072

[706-339-3209](tel:706-339-3209)

www.KleinschmidtGroup.com

From: Kelly Miller

Sent: Friday, January 30, 2015 11:35 AM

To: Alison Jakupca; BARGENTIERI@scana.com; Bill Marshall (marshallb@dnr.sc.gov); Bill Stangler
(CRK@congariverkeeper.org); BRESNAHAN, AMY; Byron Hamstead (Byron_hamstead@fws.gov); Chad
Altman (altmankc@dhec.sc.gov); Dick Christie (christied@dnr.sc.gov); Fritz Rohde (Fritz.Rohde@noaa.gov);
Gerrit Jobsis (gjobsis@americanrivers.org); Greg Mixon (mixong@dnr.sc.gov); Hal Beard (BeardH@dnr.sc.gov);
Henry Mealing; Jay Maher; Jim Glover (gloverjb@dhec.sc.gov); Karla Reece (Karla.Reece@noaa.gov); Kelly
Miller; QUATTLEBAUM, MILTON; rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy
mahan (rmahan@sc.rr.com); Robert Stroud (StroudR@dnr.sc.gov); Ron Ahle; Sam Stokes (stokess@dnr.sc.gov);
Shane Boring; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov)

Subject: Entrainment Memo #4

All,

Attached for your review is the Entrainment Hold Point Memo #4. The memo provides the
proposed survival estimates for fishing passing through Parr and Fairfield turbines. We will
discuss this memo during a conference call, scheduled for February 10th.

Thanks!

Kelly

Kelly Miller

Regulatory Coordinator

Kleinschmidt

Office: [803.462.5633](tel:803.462.5633)

www.KleinschmidtGroup.com

From: [ARGENTIERI, WILLIAM R](#)
To: "Wenerick, William 'Rusty'"
Cc: [SUMMER, STEPHEN E](#); [Henry Mealing](#); [Kelly Miller](#); [Hightower, Charles](#)
Subject: RE: Parr Hydro Relicensing - Water Quality Memo
Date: Friday, February 06, 2015 10:19:13 AM

Rusty,

Thank you for the quick response. This is very helpful. We will work on a plan to use the existing equipment at Parr to provide aeration during the appropriate times. Our aim will be to finalize the plan during the relicensing process and make it part of the settlement agreement.
Bill

From: Wenerick, William "Rusty" [mailto:WENERIWR@dhec.sc.gov]

Sent: Friday, February 06, 2015 9:51 AM

To: ARGENTIERI, WILLIAM R

Cc: SUMMER, STEPHEN E; Henry Mealing; Kelly Miller; Hightower, Charles

Subject: Re: Parr Hydro Relicensing - Water Quality Memo

***This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.

Dear Bill,

It was a pleasure meeting with you the other day to discuss the additional water quality data you collected this past summer and fall, and to discuss the results of your tests on the aeration capabilities of the existing equipment at Parr. DHEC does not see any need to collect additional data; however, we would like to request that you explore developing a plan for using your existing equipment to provide aeration at those times when you anticipate DO excursions in your discharge based on data from the USGS station. The goal of the plan should be to meet the DO standard in your discharge at all times.

Thanks very much for all your efforts to facilitate our review. Please don't hesitate to call me or Chuck Hightower, should you have any questions.

Rusty Wenerick

William R. "Rusty" Wenerick, Project Manager

DHEC Bureau of Water

2600 Bull Street, Columbia, SC 29201

Phone: (803) 898-4266

Fax: (803) 898-7344

Email: Rusty.Wenerick@dhec.sc.gov

401/WQC Website:

<http://www.scdhec.gov/environment/WaterQuality/401Certification/Overview/>

Nav Waters Website: <http://www.scdhec.gov/environment/WaterQuality/NavigableWaters/>

Research: <http://link.springer.com/article/10.1007/s00267-013-0158-x>

From: Kelly Miller <Kelly.Miller@KleinschmidtGroup.com>

Sent: Monday, January 26, 2015 1:39 PM

To: Hightower, Charles; Wenerick, William "Rusty"

Cc: ARGENTIERI@scana.com; SUMMER, STEPHEN E; Henry Mealing

Subject: Parr Hydro Relicensing - Water Quality Memo

Good afternoon Chuck and Rusty,

We wanted to follow up with you on our relicensing activities regarding the Project's water quality issues. In our original Water Quality Report and Addendum, we identified some historic low dissolved oxygen (DO) readings at the tailrace USGS monitor and researched those a little further. We performed some additional collections in the tailrace and forebay in late summer/fall 2014 during which we did not observe any low DO readings. We also did some initial testing on the Parr Shoals turbines to see if they could aerate for potentially increasing DO levels in the turbine discharge.

We have attached a memo that summarizes the results of our recent investigations and would like to have a meeting with y'all to discuss our findings and how they relate back to the information needed to obtain a 401 Certificate for the Parr Hydroelectric Project. We have identified February 3 and 4 as two dates that we have availability all day long to meet with you. We think that it will take up to 2 hours for our discussions. Please let us know if you would be available on these days and if so, what time will work best for you.

Thank you for your continued cooperation with SCE&G in the relicensing of the Parr Hydroelectric Project.

Kelly

Kelly Miller

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

www.KleinschmidtGroup.com

From: [Eargle, David A.](#)
To: [Kelly Kirven](#)
Cc: [Glover, James](#)
Subject: Re: draft Monticello Mussel Report
Date: Tuesday, February 02, 2016 10:31:52 AM

Hi Kelly,

I had a chance to read over the mussel survey report. Looks like it will serve as good baseline data for us. Most of the species they found are what you might expect in a reservoir like Monticello. No shock that they didn't find *Toxolasma pullus* or *Lasmigona decorata*. While the surveyors suggested that it was a little unusual to have that many *Elliptio angustata* in a reservoir, I've seen them there myself and so wasn't surprised by that either. Of course the reservoir is full of *Corbicula fluminea* but we all knew that already.

What was surprising to me was first that there were essentially no mussels in the recreational part of the lake whereas the main impoundment had a fairly diverse and evenly-distributed fauna. Also, the presence of *Villosa vaughaniana* at four sites was not expected (by me). From my experience, this guy is pretty rare even in its preferred habitat and would be an unlikely find in Lake Monticello. I'm not sure what to make of these findings. We will probably have to think a little more about this.

As for the snails, *Campeloma* is to be expected. *Cipangopalodina japonica* is an invasive that is spreading around the state. I found it in Lake Monticello several years ago. As for the *Viviparus georgianus* this is the first I've heard of it being in Lake Monticello. I contacted snail expert Dr. Rob Dillon in Charleston and he was also unaware. He had received reports of its recent spread into a few other water bodies in SC. It has been in Lakes Marion and Moultrie since the 1990s. It seems the jury is still out on whether the spread of these species is likely to cause any ecological trouble.

Just a few thoughts.

David

From: Kelly Kirven
Sent: Thursday, January 21, 2016 10:25 AM
To: Alison Jakupca; ARGENTIERI, WILLIAM R; Bill Marshall (marshallb@dnr.sc.gov); Bill Stangler (CRK@congareriverkeeper.org); BRESNAHAN, AMY; Byron Hamstead (Byron_hamstead@fws.gov); Caleb Gaston (caleb.gaston@scana.com); Altman, Chad; Eargle, David A.; Gerrit Jobsis (gjobsis@americanrivers.org); MixonG@dnr.sc.gov; Henry Mealing; Jay Maher; Glover, James; Karla

Reece (Karla.Reece@noaa.gov); Kelly Kirven; Lorianne Riggin (RigginL@dnr.sc.gov); rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Sam Stokes (stokess@dnr.sc.gov); Castleberry, William; Shane Boring; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov)

Subject: draft Monticello Mussel Report

All,

Attached for your review is the draft Monticello Mussel Report. Please provide any comments or edits to this report by Friday, February 5th. We will discuss this report at the upcoming RTE TWC meeting (date TBD).

Please note that the Word version is included for comment and the PDF version is included because it has site photos in Appendix B.

Thanks,

Kelly

Kelly Miller Kirven

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

Cell: 803.917.4528

www.KleinschmidtGroup.com

From: [Wenerick, William "Rusty"](#)
To: [Henry Mealing](#); [Kelly Kirven](#)
Cc: [Bill Argentieri - SCE&G \(BArgentieri@scana.com\)](#); [Shane Boring](#); [Eargle, David A.](#); [Hightower, Charles](#); [Glover, James](#)
Subject: Re: Genetics Testing of Mussel - Monticello Reservoir
Date: Thursday, April 21, 2016 1:40:29 PM
Attachments: [image003.png](#)
[image002.png](#)

Henry and Kelly,

We are OK with not asking for genetic testing given this language in the report:
"However, the seven individuals identified as Carolina Creekshell were done so based on conchological (shell), and soft part anatomy characteristics, and should be considered as such until further study proves otherwise."

Thanks for your patience and please call if you have any questions.

Sincerely,
Rusty Wenerick

William R. "Rusty" Wenerick, Project Manager
DHEC Bureau of Water
2600 Bull Street, Columbia, SC 29201
Phone: (803) 898-4266
Fax: (803) 898-7344
Email: Rusty.Wenerick@dhec.sc.gov
401/WQC
Website: <http://www.scdhec.gov/environment/WaterQuality/401Certification/Overview/>
Nav Waters Website: <http://www.scdhec.gov/environment/WaterQuality/NavigableWaters/>
Research: <http://link.springer.com/article/10.1007/s00267-013-0158-x>

From: Henry Mealing <Henry.Mealing@KleinschmidtGroup.com>
Sent: Monday, March 28, 2016 11:35 AM
To: Eargle, David A.; Wenerick, William "Rusty"; Hightower, Charles
Cc: Kelly Kirven; Bill Argentieri - SCE&G (BArgentieri@scana.com); Shane Boring
Subject: Genetics Testing of Mussel - Monticello Reservoir

David, Rusty, and Chuck

At our last Parr Relicensing - RTE TWC meeting, SCE&G/Kleinschmidt was given an action item to follow up with genetic testing for verification of the Carolina creekshell specimens found in Monticello Reservoir during the 2015 surveys. During the TWC meeting, David told us that Three Oaks stated that the genetic testing would cost around \$500. Shane and I followed up

on this item, and Three Oaks told us that the costs for the genetic testing would require the collection of additional specimens and the costs for genetic analysis through a lab.

Based on the information that we currently have, the costs to do the genetic testing for Carolina creekshell is actually between \$3,500 to \$5,000.

From the “relicensing standpoint”, we know that the species “might” be in Monticello Reservoir. The Carolina creekshell is not federally protected, but is a priority species for the State. We are developing habitat enhancements for fish in the lake that could enhance habitats for mussels in general. We are having a difficult time finding a compelling reason to push forward on this effort.

Before we commit to spend this extra expense, I wanted to find out from SCDHEC if we really need to spend the money on genetic testing for this species in addressing required SCDHEC issues/concerns.

I will be glad to follow up with you on a call to talk it through if requested. Thanks for your input on this topic.

Henry

Henry Mealing

Fisheries Biologist / Project Manager

Kleinschmidt

204 Caughman Farm Lane

Suite 301

Lexington, SC 29072

706-339-3209

www.KleinschmidtGroup.com



From: [Bill Marshall](#)
To: [Kelly Miller](#); [Alison Jakupca](#); BARGENTIERI@scana.com; [Bill Stangler \(CRK@congariverkeeper.org\)](mailto:Bill.Stangler@congariverkeeper.org); [BRESNAHAN, AMY](#); [Bret Hoffman](#); [Bruce Halverson](#); [Byron Hamstead \(Byron_hamstead@fws.gov\)](mailto:Byron.hamstead@fws.gov); [Dick Christie](#); [Frank_Henning@nps.gov](mailto:Frank.Henning@nps.gov); [Gerrit Jobsis \(gjobsis@americanrivers.org\)](mailto:Gerrit.Jobsis@americanrivers.org); [Greg Mixon](#); [Henry Mealing](#); [J. Hagood Hamilton Jr. \(jhamilton@scana.com\)](mailto:J.HagoodHamilton@scana.com); [Jay Maher](#); [Joe Wojcicki](#); [Malcolm Leaphart \(mwleapjr@att.net\)](mailto:Malcolm.Leaphart@att.net); [Pace Wilber \(Pace.Wilber@noaa.gov\)](mailto:Pace.Wilber@noaa.gov); rammarell@scana.com; [Randy Mahan \(randolph.mahan@scana.com\)](mailto:Randy.Mahan@scana.com); [randy mahan \(rmahan@sc.rr.com\)](mailto:randy.mahan@sc.rr.com); [Scott Harder](#); [Steve Summer](#); [Tom McCoy \(thomas_mccoy@fws.gov\)](mailto:Tom.McCoy@fws.gov); [Wayne and Ginny Boland \(wayneboland@bellsouth.net\)](mailto:Wayne.and.Ginny.Boland@bellsouth.net)
Subject: RE: Operations Model - Historic Scenario Period of Record
Date: Wednesday, February 18, 2015 12:57:50 PM

Hi Kelly,

Thanks for providing this information. I think DNR staff are okay with the proposed period of record (referenced in your email) to be used for the model verification needs which were discussed at the Sept 17, 2014 Operations RCG mtg.

Bill Marshall
SCDNR

From: Kelly Miller [mailto:Kelly.Miller@KleinschmidtGroup.com]
Sent: Monday, January 26, 2015 4:51 PM
To: Alison Jakupca; BARGENTIERI@scana.com; Bill Marshall; Bill Stangler (CRK@congariverkeeper.org); BRESNAHAN, AMY; Bret Hoffman; Bruce Halverson; Byron Hamstead (Byron_hamstead@fws.gov); Dick Christie; Frank_Henning@nps.gov; Gerrit Jobsis (gjobsis@americanrivers.org); Greg Mixon; Henry Mealing; J. Hagood Hamilton Jr. (jhamilton@scana.com); Jay Maher; Joe Wojcicki; Kelly Miller; Malcolm Leaphart (mwleapjr@att.net); Pace Wilber (Pace.Wilber@noaa.gov); rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Scott Harder; Steve Summer; Tom McCoy (thomas_mccoy@fws.gov); Wayne and Ginny Boland (wayneboland@bellsouth.net)
Subject: Operations Model - Historic Scenario Period of Record

Good afternoon RCG members,

After reviewing the available periods of record for the Alston gage flows, Parr and Fairfield hourly generation data, and Parr hourly reservoir stage, we have selected a 2-week period in 2005 that represents normal baseline flows, a range of generation and pumping for the Fairfield development, and contains a high inflow event. We are proposing to use this period of record for the historic scenario requested during the last RCG meeting. Fortunately, SCE&G also has records of the Monticello reservoir for this period of record, which we will include in our results comparison.

Please review this period and indicate to us your agreement (or if you take exception) by next Monday, February 2nd of this period of record sufficient to demonstrate the model accuracy across a range of project operating conditions.

Thanks,
Kelly

Kelly Miller
Regulatory Coordinator

The logo for Kleinschmidt, featuring the word "Kleinschmidt" in a bold, sans-serif font with a green underline.

Office: 803.462.5633

www.KleinschmidtGroup.com

From: [Bill Marshall](#)
To: [Kelly Miller](#); [Henry Mealing](#)
Subject: FW: draft Fish Entrainment Report
Date: Tuesday, May 05, 2015 5:31:01 PM
Attachments: [RBR Entrainment Effects 1997 \(2\).pdf](#)

Hi Henry, as discussed earlier, I am forwarding to you the comments from DNR biologist, Ron Ahle along with the attached report on entrainment studies at the Richard B Russell pump storage project.

Let us know if you all have questions.

Thanks,

Bill Marshall
SCDNR
803-734-9096

From: Ron Ahle
Sent: Thursday, April 23, 2015 2:15 PM
To: Bill Marshall
Cc: Hal Beard; Dick Christie; Greg Mixon; Lorianne Riggin
Subject: FW: draft Fish Entrainment Report

Hi Bill,

I have reviewed the draft entrainment report for Parr Hydro Project and have some issues with it. My primary concern is the lack of information on entrainment mortality with an emphasis on clupeid survival. These fragile fish are very different from other fish in their tolerance ranges and generally have high mortality at pumpback operations for reasons other than turbine strikes. The draft report appears to address entrainment mortality in terms of turbine strikes as provided in Table 3-13. This is good information, but this report needs to address the total entrainment mortality to provide a better understanding of the operational impacts. Studies done at Richard B Russell, a pump back project with similar turbines and similar capacity, addressed total entrainment mortality. In the attached RBR document on page 376 it is stated that "Mortality rates ranged from 65.0 to 100.0 percent for clupeids (blueback herring, threadfin shad, and gizzard shad), 29.5 to 85.0 percent for sunfish and crappie, 0.0 to 28.5 percent for catfish, 17.8 to 72.1 percent for yellow perch, and 45.3 to 81.8 percent for Morone sp. (striped bass, hybrid bass, and white perch). A significant positive relationship between water temperature and mortality was found for clupeids, catfish, and Morone sp. (as water temperature increases mortality increases)." Summary tables for immediate, 24 hr, and 48 hr mortality are also provided in the same document in the section entitled "**Pumpback Fish Mortality Studies**" from page 376-395. This type of information is needed in the entrainment report for Parr Hydro Project. I believe this type of project information (from RBR) is more relevant to the Fairfield pump storage development than the turbine studies cited in the EPRI documents. Frankly, the mortality estimates from RBR may be more relevant than the number of fish entrained. In recent TWC meetings, questions were raised about the numbers of clupeids entrained at RBR verses Fairfield mainly based on fish present. This may be a legitimate issue, but it does not change the mortality rate which should be based on the percentage of fish that actually die as a result of entrainment.

Another thing I do not understand about the report is how (as indicated in Table3-13) the Clupeidae family has a lower mortality rate than their surrogate Cyprinadae. Maybe this is a typo.

These are my comments.

Later,

Ron

From: Kelly Miller [mailto:Kelly.Miller@KleinschmidtGroup.com]

Sent: Tuesday, April 21, 2015 3:05 PM

To: Alison Jakupca; ARGENTIERI, WILLIAM R; Bill Marshall; Bill Stangler (CRK@congariverkeeper.org); BRESNAHAN, AMY; Byron Hamstead (Byron_hamstead@fws.gov); Chad Altman (altmankc@dhec.sc.gov); Dick

Christie; Fritz Rohde (Fritz.Rohde@noaa.gov); Gerrit Jobsis (gjobsis@americanrivers.org); Greg Mixon; Hal Beard; Henry Mealing; Jay Maher; Jim Glover (gloverjb@dhec.sc.gov); Jordan Johnson; Karla Reece (Karla.Reece@noaa.gov); Kelly Miller; rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Robert Stroud; Ron Ahle; Sam Stokes Jr.; Shane Boring; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov)

Subject: draft Fish Entrainment Report

All,

Attached is the draft Fish Entrainment Report for the Parr Hydro Project. Please review and submit any comments or edits by Friday, May 8th. Also attached for your reference is a PDF document containing appendices A, B, and C.

Thanks,

Kelly

Kelly Miller

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

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From: [ARGENTIERI, WILLIAM R](#)
To: [Henry Mealing](#); [Shane Boring](#)
Cc: [Kelly Miller](#); [STUTTS, BRANDON G](#)
Subject: FW: Broad River RRH Spawning Aggregation
Date: Friday, May 08, 2015 4:46:31 PM

From: QUATTLEBAUM, MILTON
Sent: Friday, May 08, 2015 4:39 PM
To: SUMMER, STEPHEN E; ARGENTIERI, WILLIAM R
Subject: FW: Broad River RRH Spawning Aggregation

FYI

From: Scott Lamprecht [<mailto:LamprechtS@dnr.sc.gov>]
Sent: Friday, May 08, 2015 3:08 PM
To: Shane Boring; QUATTLEBAUM, MILTON
Subject: Broad River RRH Spawning Aggregation

*****This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.**

Shane & Milton,

On Wed. May 6 we shocked the stretch below Parr Dam looking specifically for RRH juveniles (water 20 C, 3200 cfs). We were not successful in capturing any. However, we did collect 18 adults in spawning condition; flowing tuberculate males and egg flowing females. 15 of these came in a small area depicted in the attached file, located at Lat 34.253442 lon -81.326967 (slightly different than google screen shot). This shoot was characterized by fast flow and woody debris; downstream of a slight bend in the river against Henderson Island. The number of fish was significant in that it represented one of the highest concentration of spawning condition fish I have seen. This site is worthy of further habitat characterization. We could have collected more if we had more dippers and could handle the boat better in the fast water. We may have dipped 60% of the fish observed. This is with one boat only. Pretty exciting.

Scott Lamprecht
Freshwater Fisheries Coordinator Region IV
SC Department of Natural Resources
305 Black Oak Road
Bonneau, SC 29431
843 825-3387
843 870-5810



From: [Shane Boring](#)
To: [Bill Marshall](#); [Kelly Miller](#)
Subject: RE: Rocky Shoals Spider Lily Survey
Date: Thursday, May 21, 2015 3:07:05 PM

Thanks, Bill. Bill Stangler has indicated that we're much less likely to see anything on day 2, and since it's a straight channel (no islands), we plan to hit it with a skeleton crew to make sure we cover the study area. Point is, you won't miss much on Day 2. We'll count you in for Day 1.

Shane Boring
Environmental Scientist
Office: 803.462.5625
www.KleinschmidtGroup.com

From: Bill Marshall [mailto:MarshallB@dnr.sc.gov]

Sent: Thursday, May 21, 2015 2:50 PM

To: Kelly Miller; Shane Boring

Subject: RE: Rocky Shoals Spider Lily Survey

Kelly and Shane,

I'd like to join you all for the Day 1/Tuesday survey if that still works for you. I cannot go on Day 2.

Looks like I do need to bring a boat.... but please let me know if do not need to bring a boat.

Thanks,

Bill

From: Kelly Miller [mailto:Kelly.Miller@KleinschmidtGroup.com]

Sent: Thursday, May 21, 2015 12:58 PM

To: Shane Boring; Henry Mealing; Jordan Johnson; Jared Porter; STUTTS, BRANDON G; Caleb Gaston (caleb.gaston@scana.com); BRESNAHAN, AMY; Bill Stangler (CRK@congareriverkeeper.org); Bill Marshall; Katy Langley

Subject: Rocky Shoals Spider Lily Survey

Good afternoon!

This email is only being sent to those members of the RT&E TWC that indicated an interest in participating in the Rocky Shoals Spider Lily (RSSL) Survey. As promised, below are details about next week's survey.

Day 1 (Tuesday, May 26th)

Attendees: Shane Boring, Henry Mealing, Jordan Johnson, Jared Porter, Brandon Stutts, Amy Bresnahan, Caleb Gaston, Bill Stangler, Bill Marshall (?)

Boats: 3 single kayaks (Henry), 1 single kayak (Shane), 1 single kayak (Brandon), 1 single kayak (Bill S.), 1 single kayak (Amy B.), Kleinschmidt's Riverhawk

Meeting location: **Meet at the Columbia Rowing Club at 7:00am**; Logan from River Runner Outdoor Center will meet us there to load boats and transport up to the put-in location at Haltiwanger Island

Field Equipment: All field equipment will be provided by Kleinschmidt; **please bring your lunch and snacks, and your kayak (if indicated)**

Day 2 (Wednesday, May 27th)

Attendees: Jared Porter, Katy Langley, Brandon Stutts, Amy Bresnahan, Caleb Gaston, Henry Mealing (?), Bill Marshall (?)

Boats: Riverhawk x2 (Katy and Jared), 1 single kayak (Brandon), 1 single kayak (Amy B.), 3 single kayaks (Henry)

Meeting location: **Meet at the Palmetto Trail parking area at the Alston gage at 8:00am**; Jared will

meet Brandon at Fulmer Bottom at 7:30am to leave a car; take out at Fulmer Bottom

Field Equipment: All field equipment will be provided by Kleinschmidt; **please bring your lunch and snacks, and your kayak (if indicated)**

Tuesday will be a long day, so prepare accordingly. If you have any questions, or won't be able to join us as planned, please let myself or Shane know ASAP.

Thanks!

Kelly

Kelly Miller

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

www.KleinschmidtGroup.com

From: [Bill Marshall](#)
To: [Kelly Miller](#)
Cc: [Dick Christie](#)
Subject: RE: draft Operations RCG meeting notes - 5/5/15
Date: Thursday, June 11, 2015 3:04:37 PM

Hi Kelly

In regard to the homework assignments from the May 5 meeting, Dick Christie says he has looked into the issue of operation effects on downstream flows in regards to striped bass, and DNR does have a concern that project flows may be disrupting or limiting striped bass spawning success (as well as other diadromous fish species) in the Congaree River. We recommend that this issue be discussed as we go forward in the relicensing process.

Thanks,

Bill Marshall

SCDNR

From: Kelly Miller [mailto:Kelly.Miller@KleinschmidtGroup.com]
Sent: Monday, June 08, 2015 10:34 AM
To: Alison Jakupca; ARGENTIERI, WILLIAM R; Bill Marshall; Bill Stangler (CRK@congareriverkeeper.org); BRESNAHAN, AMY; Bret Hoffman; Bruce Halverson; Byron Hamstead (Byron_hamstead@fws.gov); Dick Christie; Frank_Henning@nps.gov; Gerrit Jobsis (gjobsis@americanrivers.org); Greg Mixon; Henry Mealing; J. Hagood Hamilton Jr. (jhamilton@scana.com); Jay Maher; Joe Wojcicki; Kelly Miller; Lorianne Riggis; Malcolm Leaphart (mwleapjr@att.net); Pace Wilber (Pace.Wilber@noaa.gov); rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Scott Harder; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov); Wayne and Ginny Boland (wayneboland@bellsouth.net)
Subject: draft Operations RCG meeting notes - 5/5/15

Good morning all,

During the last Operations RCG meeting, held on May 5, 2015, the group discussed the possible need for any additional edits for finalizing the model. At this point, all revisions have been made and the Parr-Fairfield Operations Model is now considered complete. If you would like to have a copy of the model, please let me know and I will make sure you receive one.

Attached are the draft notes from the May 5th Operations RCG meeting. Please review and send any comments or edits back to me by Monday, June 22nd. Please note that the PowerPoint presentation given during the meeting will be attached to the final notes.

Thanks,

Kelly

Kelly Miller
Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

www.KleinschmidtGroup.com

From: [Dick Christie](#)
To: [Kelly Miller](#)
Subject: RE: Draft Waterfowl Surveys
Date: Thursday, July 02, 2015 4:47:46 PM

You Are welcome. Have a great holiday as well!

From: Kelly Miller [<mailto:Kelly.Miller@KleinschmidtGroup.com>]

Sent: Thursday, July 02, 2015 3:25 PM

To: Dick Christie

Cc: Willie Simmons; Sam Stokes Jr.; Billy Dukes; Bill Marshall; Henry Mealing; ARGENTIERI, WILLIAM R; Alison Jakupca

Subject: Re: Draft Waterfowl Surveys

Thanks for the quick response Dick. And as always, we appreciate DNR's continued participation in the relicensing of Parr Hydro.

Hope you all have a great 4th of July!

Kelly

Sent from my iPhone

On Jul 2, 2015, at 3:17 PM, Dick Christie <ChristieD@dnr.sc.gov> wrote:

[Hi Kelly - we can live with question #2 in the survey.](#)

From: Kelly Miller [<mailto:Kelly.Miller@KleinschmidtGroup.com>]

Sent: Thursday, July 02, 2015 11:28 AM

To: Dick Christie

Cc: Willie Simmons; Sam Stokes Jr.; Billy Dukes; Bill Marshall; Henry Mealing; ARGENTIERI, WILLIAM R; Alison Jakupca

Subject: RE: Draft Waterfowl Surveys

Hi Dick,

Thank you for the comments you submitted regarding the waterfowl surveys. We agree to delete question 4 from the Enoree survey. However, we have some concerns over deleting question 2, as it is a common question asked for recreation surveys, and provides information that FERC typically likes to see. We understand that Enoree can be a busy area for waterfowl hunting, but would like to get the hunter's perception on how crowded they believe the area to be.

We would like to get a little more information from DNR on why this question should be deleted from the survey. We will be glad to have a conference call with you to discuss this issue. Please let me know your availability and I can schedule something in the next two weeks. We hope to have these surveys finalized in the next few weeks so that we can focus on our distribution methods prior to the start of waterfowl hunting season.

As a side note, we distributed these surveys to the US Forest Service, as they also expressed an interest in the waterfowl hunting areas. We are currently waiting to hear back from them, and I will be glad to share their comments once received.

Thanks,

Kelly

Kelly Miller

Regulatory Coordinator

Office: 803.462.5633

www.KleinschmidtGroup.com

From: Dick Christie [<mailto:ChristieD@dnr.sc.gov>]

Sent: Monday, June 15, 2015 1:36 PM

To: Kelly Miller

Cc: Willie Simmons; Sam Stokes Jr.; Billy Dukes; Bill Marshall

Subject: RE: Draft Waterfowl Surveys

Hi Kelly - I have heard from DNR staff regarding the waterfowl surveys. We are good with the surveys for Parr and Monticello. For the Enoree River survey, we are not comfortable with questions 2 and 4 and request that they be deleted. Let me know if you have any other questions. Thanks.

From: Kelly Miller [<mailto:Kelly.Miller@KleinschmidtGroup.com>]

Sent: Friday, May 22, 2015 10:59 AM

To: Willie Simmons; Sam Stokes Jr.; Dick Christie; Bill Marshall; Billy Dukes

Cc: ARGENTIERI, WILLIAM R; Henry Mealing; Alison Jakupca

Subject: Draft Waterfowl Surveys

Good morning gentlemen,

Attached are three draft waterfowl surveys we have prepared for Enoree, Parr and Monticello. Please review and let me know if you have any comments or edits.

Thanks!

Kelly

Kelly Miller

Regulatory Coordinator

Office: 803.462.5633

www.KleinschmidtGroup.com

From: [Lorianne Riggin](#)
To: [Kelly Miller](#); [Alison Jakupca](#)
Cc: [Dick Christie](#); [Bill Marshall](#); [Greg Mixon](#)
Subject: Habitat Enhancement Verbiage for Monticello SMP
Date: Thursday, September 03, 2015 9:08:42 AM
Attachments: [Fisheries Habitat Enhancement Verbiage Monticello SMP final.docx](#)

Howdy All!

Attached is the verbiage we are suggesting for the Monticello SMP.
Please let me know if you have any questions or require more info.

Thanks,
Lorianne

Lorianne Riggin
Office of Environmental Programs
South Carolina Department of Natural Resources
1000 Assembly Street, PO Box 167
Columbia, SC 29202
Cell 803-667-2488
www.dnr.sc.gov

From: [Lorianne Riggin](#)
To: [Alison Jakupca](#)
Cc: [Dick Christie](#); [Bill Marshall](#); [Greg Mixon](#); [Bill Argentieri \(bargentieri@Scana.com\)](#); [BOOZER, THOMAS C](#); [Henry Mealing](#); [Randy Mahan](#); [Kelly Miller](#)
Subject: RE: Habitat Enhancement Verbiage for Monticello SMP
Date: Monday, October 26, 2015 2:55:39 PM

Hey Alison,

I think that suits the intentions of SCDNR and SCE&G quite nicely. Kudos to the wordsmiths!

Thanks,

Lorianne

Lorianne Riggin

Office of Environmental Programs

South Carolina Department of Natural Resources

1000 Assembly Street, PO Box 167

Columbia, SC 29202

Cell 803-667-2488

www.dnr.sc.gov

From: Alison Jakupca [mailto:Alison.Jakupca@KleinschmidtGroup.com]

Sent: Monday, October 26, 2015 2:52 PM

To: Lorianne Riggin

Cc: Dick Christie ; Bill Marshall ; Greg Mixon ; Bill Argentieri (bargentieri@Scana.com) ; BOOZER, THOMAS C ; Henry Mealing ; Randy Mahan ; Kelly Miller

Subject: RE: Habitat Enhancement Verbiage for Monticello SMP

Hi Lorianne,

I hope that you are doing well. We revisited the Monticello fisheries habitat enhancement language subsequent to the reservoir fluctuation/habitat enhancement meeting that was held on September 29th. We had a few tweaks for SCDNR's consideration. Please let me know your thoughts and we will get it incorporated into the SMP. Thanks and take care,

Alison

Alison Jakupca

Regulatory Coordinator

Kleinschmidt Associates

Office: 803.462.5628

www.Kleinschmidtusa.com

From: Lorianne Riggin [mailto:RigginL@dnr.sc.gov]

Sent: Thursday, September 03, 2015 9:08 AM

To: Kelly Miller <Kelly.Miller@KleinschmidtGroup.com>; Alison Jakupca

<Alison.Jakupca@KleinschmidtGroup.com>

Cc: Dick Christie <ChristieD@dnr.sc.gov>; Bill Marshall <MarshallB@dnr.sc.gov>; Greg Mixon <MixonG@dnr.sc.gov>

Subject: Habitat Enhancement Verbiage for Monticello SMP

Howdy All!

Attached is the verbiage we are suggesting for the Monticello SMP.

Please let me know if you have any questions or require more info.

Thanks,
Lorianne

Lorianne Riggin

Office of Environmental Programs

South Carolina Department of Natural Resources

1000 Assembly Street, PO Box 167

Columbia, SC 29202

Cell 803-667-2488

www.dnr.sc.gov

From: [Alex Pellett](#)
To: [Gerrit Jobsis](#); [Kelly Kirven](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall](#); [Bill Stangler \(CRK@congareriverkeeper.org\)](#); [BRESNAHAN, AMY](#); [Byron Hamstead \(Byron_hamstead@fws.gov\)](#); [Caleb Gaston \(caleb.gaston@scana.com\)](#); [Chad Altman \(altmankc@dhec.sc.gov\)](#); [Dick Christie](#); [Fritz Rohde \(Fritz.Rohde@noaa.gov\)](#); [Greg Mixon](#); [Hal Beard](#); [Henry Mealing](#); [Jay Maher](#); [Jim Glover \(gloverjb@dhec.sc.gov\)](#); [Jordan Johnson](#); [Karla Reece \(Karla.Reece@noaa.gov\)](#); [Lorianne Riggin](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy mahan \(rmahan@sc.rr.com\)](#); [Robert Stroud](#); [Ron Ahle](#); [Sam Stokes Jr.](#); [Shane Boring](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [Tom McCoy \(thomas_mccoy@fws.gov\)](#)
Cc: [Scott Harder](#)
Subject: RE: Parr streamflow interactive plots
Date: Wednesday, January 27, 2016 3:48:58 PM

Thanks for the feedback,

I did not modify the data except as described in the footnote in my email below. My intent was to clarify the information presented in figures 1-6 (in the top graph), and figures 7-12 (in the lower graph).

If I understand correctly, the estimated flows have been lagged with a time delay, but they have not been attenuated. The regional regression coefficients could possibly attenuate peaks and troughs (better than straight area proration), but the regression coefficients couldn't be used between the Alston and Congaree gages. So perhaps the blue lines in the app (the red lines in Figures 1-12) are flashier than they should be.

Figures 13-18 allow for comparison of upstream prorated flows to Congaree gage flows, and indeed the prorated upstream flows tend to peak higher.

C. Alex Pellett

Hydrologist, South Carolina Department of Natural Resources

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Fax: (864) 654 - 9168

Cell: (864) 722 - 3212

From: Gerrit Jobsis [mailto:gjobsis@americanrivers.org]

Sent: Tuesday, January 26, 2016 4:16 PM

To: Alex Pellett ; Kelly Kirven ; Alison Jakupca ; ARGENTIERI, WILLIAM R ; Bill Marshall ; Bill Stangler (CRK@congareriverkeeper.org) ; BRESNAHAN, AMY ; Byron Hamstead (Byron_hamstead@fws.gov) ; Caleb Gaston (caleb.gaston@scana.com) ; Chad Altman (altmankc@dhec.sc.gov) ; Dick Christie ; Fritz Rohde (Fritz.Rohde@noaa.gov) ; Greg Mixon ; Hal Beard ; Henry Mealing ; Jay Maher ; Jim Glover (gloverjb@dhec.sc.gov) ; Jordan Johnson ; Karla Reece (Karla.Reece@noaa.gov) ; Lorianne Riggin ; rammarell@scana.com ; Randy Mahan (randolph.mahan@scana.com) ; randy mahan (rmahan@sc.rr.com) ; Robert Stroud ; Ron Ahle ; Sam Stokes Jr. ; Shane Boring ; Steve Summer ; STUTTS, BRANDON G ; Tom McCoy (thomas_mccoy@fws.gov)

Cc: Scott Harder

Subject: RE: Parr streamflow interactive plots

Thanks Alex. This is a great way to look at the data. Just to make sure I am interpreting this correctly, you didn't do any routing to account for attenuation of flows from the upstream gages to the Parr Reservoir headwaters. Assuming that's right it means that shorter term inflow peaks (and probably troughs too) are likely exaggerated from what would actually occur at the upstream project boundary.

Gerrit

Gerrit Jöbsis, American Rivers
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Please consider the environment before printing this e-mail.

From: Alex Pellett [<mailto:PellettC@dnr.sc.gov>]

Sent: Tuesday, January 26, 2016 3:53 PM

To: Kelly Kirven; Alison Jakupca; ARGENTIERI, WILLIAM R; Bill Marshall; Bill Stangler (CRK@congareriverkeeper.org); BRESNAHAN, AMY; Byron Hamstead (Byron_hamstead@fws.gov); Caleb Gaston (caleb.gaston@scana.com); Chad Altman (altmankc@dhec.sc.gov); Dick Christie; Fritz Rohde (Fritz.Rohde@noaa.gov); Gerrit Jobsis; Greg Mixon; Hal Beard; Henry Mealing; Jay Maher; Jim Glover (gloverjb@dhec.sc.gov); Jordan Johnson; Karla Reece (Karla.Reece@noaa.gov); Lorianne Riggins; rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Robert Stroud; Ron Ahle; Sam Stokes Jr.; Shane Boring; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov)

Cc: Scott Harder

Subject: Parr streamflow interactive plots

Good afternoon,

First of all, thanks for the cordial welcome at the meeting last week. I really appreciate the efforts members of the group made to introduce themselves and help me get oriented.

There was some interest among group members in getting a closer look at the inflow and outflow datasets. Perhaps not everyone is eager to dig through spreadsheets, so I've prepared a few supplementary graphs using the data which Kleinschmidt provided* (specifically, columns H & V of "Inflow vs Outflow" and columns I & K of "Without Parr Influence", from the Peaking Flows.xlsm file distributed on CD).

The graphs can be accessed here: <https://capellett.shinyapps.io/ParrDataViewer/>

The first graph is inflow and outflow at the reservoir. The second graph is at the Congaree gage downstream (estimated natural flow without Parr influence compared to gaged flow).

** With the following, minor, edits: 1) any hour missing data for the Congaree gage was removed from the other datasets as well (73 hours). 2) The hour after the start of daylight savings time (2 am in early March) each year was removed (6 hours). Why was this necessary? I blame the Windows Operating System... I doubt this will effect interpretation of the graphs, just bringing it up for the sake of completeness and clarity.*

Cheers

C. Alex Pellett

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From: Kelly Kirven [<mailto:Kelly.Kirven@KleinschmidtGroup.com>]

Sent: Friday, January 22, 2016 2:46 PM

To: Alex Pellett <PellettC@dnr.sc.gov>; Alison Jakupca <Alison.Jakupca@KleinschmidtGroup.com>; ARGENTIERI, WILLIAM R <BARGENTIERI@scana.com>; Bill Marshall <MarshallB@dnr.sc.gov>; Bill Stangler (CRK@congareriverkeeper.org) <CRK@congareriverkeeper.org>; BRESNAHAN, AMY

<Amy.Bresnahan@scana.com>; Byron Hamstead (Byron_hamstead@fws.gov)
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Chad Altman (altmankc@dhec.sc.gov) <altmankc@dhec.sc.gov>; Dick Christie
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Beard <BeardH@dnr.sc.gov>; Henry Mealing <Henry.Mealing@KleinschmidtGroup.com>; Jay Maher
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Stroud <StroudR@dnr.sc.gov>; Ron Ahle <AhleR@dnr.sc.gov>; Sam Stokes Jr.
<SamStokesJr@dnr.sc.gov>; Shane Boring <Shane.Boring@KleinschmidtGroup.com>; Steve Summer
<ssummer@scana.com>; STUTTS, BRANDON G <BSTUTTS@scana.com>; Tom McCoy
(thomas_mccoy@fws.gov) <thomas_mccoy@fws.gov>

Subject: FW: Monticello/Parr Aerial Waterfowl Survey Summary 1-19-16

Attached is the correct waterfowl survey summary. Please disregard the previous attachment.

Thanks,

Kelly

Kelly Miller Kirven
Regulatory Coordinator

Kleinschmidt

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From: Kelly Kirven

Sent: Friday, January 22, 2016 2:37 PM

To: Alex Pellett (PellettC@dnr.sc.gov) <PellettC@dnr.sc.gov>; Alison Jakupca
<Alison.Jakupca@KleinschmidtGroup.com>; ARGENTIERI, WILLIAM R <BARGENTIERI@scana.com>;
Bill Marshall (marshallb@dnr.sc.gov) <marshallb@dnr.sc.gov>; Bill Stangler
(CRK@congareriverkeeper.org) <CRK@congareriverkeeper.org>; BRESNAHAN, AMY
<Amy.Bresnahan@scana.com>; Byron Hamstead (Byron_hamstead@fws.gov)
<Byron_hamstead@fws.gov>; Caleb Gaston (caleb.gaston@scana.com) <caleb.gaston@scana.com>;
Chad Altman (altmankc@dhec.sc.gov) <altmankc@dhec.sc.gov>; Dick Christie (christied@dnr.sc.gov)
<christied@dnr.sc.gov>; Fritz Rohde (Fritz.Rohde@noaa.gov) <Fritz.Rohde@noaa.gov>; Gerrit Jobsis
(gjobsis@americanrivers.org) <gjobsis@americanrivers.org>; Greg Mixon (mixong@dnr.sc.gov)
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BRANDON G <BSTUTTS@scana.com>; Tom McCoy (thomas_mccoy@fws.gov)
<thomas_mccoy@fws.gov>

Subject: Monticello/Parr Aerial Waterfowl Survey Summary 1-19-16

Good afternoon,

Attached is a summary of the aerial waterfowl survey that was conducted at Monticello and Parr reservoirs by the Savannah River Ecology Laboratory (SREL) on January 19, 2016. The next survey will be conducted in early February, and a summary will be sent out soon after.

Thanks,

Kelly

Kelly Miller Kirven
Regulatory Coordinator

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From: [Dick Christie](#)
To: [Kelly Kirven](#)
Cc: [Bill Marshall](#)
Date: Tuesday, January 26, 2016 10:26:37 AM
Attachments: [Draft American Eel Abundance Report 121715dcedits.docx](#)

Hi Kelly - thanks for allowing us to review this draft report. The majority of our edits, attached, are offered in an attempt to clarify the discussion.

Dick Christie

SCDNR

1771 Highway 521 bypass S.

Lancaster, SC 29720

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From: [Alison Jakupca](#)
To: [Bob Perry](#); [Bill Marshall](#); [Dick Christie](#); [Willie Simmons](#); [Billy Dukes](#); brockH@dnr.sc.gov; [Sam Stokes Jr.](#); CoatesJ@dnr.sc.gov; BranhamW@dnr.sc.gov; arnolde@dnr.sc.gov
Cc: [Tommy Boozer](#); [COLLINS, SCOTT E](#); [Henry Mealing](#); rammarell@scana.com; [RANDOLPH MAHAN](#); [Bill Argentieri](#) (bargentieri@Scana.com); [Kelly Kirven](#); gene.delk@scana.com
Subject: Parr Hydroelectric Project December 8th Meeting Notes
Date: Thursday, January 28, 2016 3:53:58 PM
Attachments: [final_120815_SCDNR_meeting_notes_1-28.doc](#)

Good Afternoon All,

Yesterday, Bill Marshall provided me with a few clarifications to the meeting notes from our December 8th Meeting. I have attached revised meeting notes to this email. These notes are in final form, however if you have any additional edits or clarifications, please do not hesitate to provide them to me. I would like to get them finalized by next Thursday, February 4th if possible.

In summary I have made the following changes to clarify the notes based on SCDNR's comments:

- Deleted the second bullet under: Discussion Points – Monticello Reservoir which previously stated: “SCDNR said that currently, Monticello Reservoir is not listed as a WMA.”
- Modified the third bullet under Discussion Points – Monticello Reservoir to read: “The water and islands of Monticello Reservoir, up to the high water mark, are currently classified as WMA. This WMA allows for waterfowl hunting only, during appropriate seasons. Hunters will be allowed access to the shoreline to perform tasks such as retrieving downed birds.”
- Modified the fourth bullet under Discussion Points – Monticello Reservoir to read: “The group agreed that the Recreation Lake should be classified as an SCDNR Wildlife Sanctuary. This would allow SCDNR law enforcement to enforce the “no hunting” designation. “

Thanks, and please let me know if you have any additional edits by next Thursday. Take care,
Alison

Alison Jakupca
Regulatory Coordinator
Kleinschmidt Associates
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From: [Dick Christie](#)
To: [Kelly Kirven](#)
Cc: [Bill Marshall](#); [Bill Post](#); [Ron Ahle](#); [Chad Holbrook](#)
Subject: FW: draft American Eel Abundance Report
Date: Monday, February 01, 2016 11:48:28 AM
Attachments: [American eel data from 5 year Lower Broad River Study.xlsx](#)

Hi Kelly - attached are Ron's data for American eel (yellow) collected in the Broad River. I think we could conclude 1) that the abundance of yellow American eels at Parr appears to be pretty low (CPUE = 3.5/h of electrofishing), but populations appear to be higher than the data presented in the report would indicate; 2) boat electrofishing appeared to be more effective at capturing yellow eels than either the elver trap, the the fyke net, or the backpack electrofisher. Let me know if you have any questions.

From: [Bill Marshall](#)
To: [Kelly Kirven](#)
Cc: [Dick Christie](#); [Byron Hamstead](#)
Subject: RE: draft Monticello Mussel Report
Date: Friday, February 05, 2016 5:27:31 PM

Hi Kelly,

Here, below, I have some additional information that needs to be included in the Monticello mussel report.

Three of the mussel species found in Monticello reservoir, the Carolina Creekshell, Carolina Lance, and Eastern Creekshell, are described in the mussel report as having some status of conservation concern. This is noted with references in report sections 6.6, 6.1 and 6.5 respectively. In addition to what's referenced in the mussel report, there is the 2015 South Carolina State Wildlife Action Plan (SWAP), which also reports these as species of concern. The SWAP lists and ranks "species of greatest conservation need" and these mussels rank as follows:

Carolina Creekshell – highest priority

Carolina Lance – moderate priority

Eastern Creekshell – moderate priority

Here are related links to the 2015 SWAP:

<http://dnr.sc.gov/swap/index.html>

<http://dnr.sc.gov/swap/main/chapter2-prioritiespecies.pdf>

Let me know if you have questions.

Thanks,

Bill Marshall

SCDNR

From: Kelly Kirven [mailto:Kelly.Kirven@KleinschmidtGroup.com]

Sent: Thursday, January 21, 2016 10:25 AM

To: Alison Jakupca ; ARGENTIERI, WILLIAM R ; Bill Marshall ; Bill Stangler

(CRK@congareriverkeeper.org) ; BRESNAHAN, AMY ; Byron Hamstead (Byron_hamstead@fws.gov)

; Caleb Gaston (caleb.gaston@scana.com) ; Chad Altman (altmankc@dhec.sc.gov) ; David Eargle

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mahan (rmahan@sc.rr.com) ; Sam Stokes Jr. ; Scott Castleberry (castlews@dhec.sc.gov) ; Shane

Boring ; Steve Summer ; STUTTS, BRANDON G ; Tom McCoy (thomas_mccoy@fws.gov)

Subject: draft Monticello Mussel Report

All,

Attached for your review is the draft Monticello Mussel Report. Please provide any comments or edits to this report by Friday, February 5th. We will discuss this report at the upcoming RTE TWC meeting (date TBD).

Please note that the Word version is included for comment and the PDF version is included because it has site photos in Appendix B.

Thanks,

Kelly

Kelly Miller Kirven

Regulatory Coordinator

The logo for Kleinschmidt, featuring the name "Kleinschmidt" in a bold, blue, sans-serif font with a green underline.

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From: [Bill Marshall](#)
To: [Kelly Kirven](#)
Subject: Parr Project RTE Species Desktop Assessment
Date: Thursday, March 17, 2016 4:07:47 PM
Attachments: [Final Parr RTE Desktop Assessment 12-7-15 \(Marshall edits\).pdf](#)

Hi Kelly,

In follow-up to our last meeting, I've added comments to the attached PDF suggesting edits on 4 pages. My suggested edits mainly address text where the reference to 2015 SWAP can replace the 2005 CWCS. I also thought it made sense to add the State Priority Levels to the table of bird species in Section 4.5.

To find my comments, look for yellow comment clouds on the follow pages -- PDF pages 10, 36, 47, and 67.

Let me know if you have questions.

Thanks,

Bill

From: [Bill Marshall](#)
To: [Kelly Kirven](#)
Subject: RE: Parr-Fairfield Operations Modeling System - Addendum 2
Date: Friday, April 08, 2016 10:45:14 AM

Hi Kelly,

This addendum-2 report seems clear.

We are wondering if graphs are available to describe the historic and future load scenarios, and perhaps such graphs could be added to the report. This is just a suggestion.

Thanks,

Bill

From: Kelly Kirven [mailto:Kelly.Kirven@KleinschmidtGroup.com]

Sent: Friday, March 25, 2016 7:17 AM

To: Alex Pellett ; Alison Jakupca ; ARGENTIERI, WILLIAM R ; Bill Marshall ; Bill Stangler (CRK@congareriverkeeper.org) ; BRESNAHAN, AMY ; Bret Hoffman ; Bruce Halverson ; Dick Christie (dchristie@comporium.net) ; Frank_Henning@nps.gov; Gerritt Jobsis (gjobsis@americanrivers.org) ; Greg Mixon ; Henry Mealing ; J. Hagood Hamilton Jr. (jhamilton@scana.com) ; Jay Maher ; Joe Wojcicki ; Karen Swank Kustafik (kakustafik@columbiasc.net) ; Kelly Kirven ; Lorianne Rigglin ; Malcolm Leaphart (mwleapjr@att.net) ; Pace Wilber (Pace.Wilber@noaa.gov) ; rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com) ; randy mahan (rmahan@sc.rr.com) ; Scott Harder ; Steve Summer ; STUTTS, BRANDON G ; Tom McCoy (thomas_mccoy@fws.gov) ; Wayne and Ginny Boland (wayneboland@bellsouth.net)

Subject: Parr-Fairfield Operations Modeling System - Addendum 2

Good morning,

Attached is the Parr-Fairfield Operations Modeling System – Addendum 2. Please review and let me know of any comments or edits you may have by Friday, April 8th.

Thanks,

Kelly

Kelly Miller Kirven
Regulatory Coordinator

The logo for Kleinschmidt, featuring the word "Kleinschmidt" in a stylized, bold, blue font with a green underline.

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From: [Bill Marshall](#)
To: [Kelly Kirven](#); [Alex Pellett](#); [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Stangler](#) (CRK@congariverkeeper.org); [BRESNAHAN, AMY](#); btrump@scana.com; [Caleb Gaston](#) (caleb.gaston@scana.com); [Charlene Coleman](#) (cheetahtk@yahoo.com); [Chuck Hightower](#) (hightocw@dhec.sc.gov); [Dick Christie](#) (dchristie@comporium.net); [Edye Joyner](#); [Erich Miarka](#) (erich.miarka@gillscreekwatershed.org); [Frank Henning](#) (nps.gov); [Gerrit Jobsis](#) (gjobsis@americanrivers.org); [Greg Mixon](#); [Henry Mealing](#); [J. Hagood Hamilton Jr.](#) (jhamilton@scana.com); [Jaclyn Daly](#) (Jaclyn.Daly@noaa.gov); [Jay Maher](#); [Jeff Carter](#) (jmcarter00@sc.rr.com); [Joe Wojcicki](#); [John Fantry](#) (jfantry@bellsouth.net); [Jon Durham](#) (jondurham@bellsouth.net); [Karen Swank Kustafik](#) (kakustafik@columbiasc.net); [Lorianne Riggins](#); [Malcolm Leaphart](#) (mwleapjr@att.net); [Mark Davis](#); [Merrill McGregor](#) (merrillm@scccl.org); [Pace Wilber](#) (Pace.Wilber@noaa.gov); [rammarell@scana.com](#); [Randy Mahan](#) (randolph.mahan@scana.com); [randy mahan](#) (rmahan@sc.rr.com); [Robert Stroud](#); [Rusty Wenerick](#) (weneriwr@dhec.sc.gov); [Scott Collins](#) (secollins@scana.com); [Steve Summer](#); [STUTTS, BRANDON G](#); tbooz@scana.com; [Wayne and Ginny Boland](#) (wayneboland@bellsouth.net); [William Hendrix](#) (HendrixWB@dot.state.sc.us)
Subject: RE: draft Downstream Navigational Flow Assessment
Date: Thursday, April 14, 2016 3:15:37 PM

Hi Kelly, I have a few comments to offer.

I think the Navigational Flow Assessment provides useful information, and DNR staff will want to consider these results in combination with the Instream Flow Study findings as we further evaluate future flow needs below Parr hydro.

In addition, I think this navigational flow assessment at the two ledges may not capture the more complicated navigational obstruction presented in shoal complexes such as those in the upper Bookman Island complex, particularly the shoals just upstream of Hickory Island (see attached image). I'd be interested in seeing how the Instream Flow Study data collected for Study Site 10 (Bookman Island Complex, 2D data collection) might help us to evaluate navigational flow conditions for that area. Please let us know if those other data might be useful to further evaluating the navigation issues.

Thank you,
Bill Marshall
SCDNR
803-734-9096

From: Kelly Kirven [<mailto:Kelly.Kirven@KleinschmidtGroup.com>]

Sent: Friday, April 01, 2016 10:37 AM

To: Alex Pellett ; Alison Jakupca ; ARGENTIERI, WILLIAM R ; Bill Marshall ; Bill Stangler (CRK@congariverkeeper.org) ; BRESNAHAN, AMY ; btrump@scana.com; Caleb Gaston (caleb.gaston@scana.com) ; Charlene Coleman (cheetahtk@yahoo.com) ; Chuck Hightower (hightocw@dhec.sc.gov) ; Dick Christie (dchristie@comporium.net) ; Edye Joyner ; Erich Miarka (erich.miarka@gillscreekwatershed.org) ; Frank_Henning@nps.gov; Gerrit Jobsis (gjobsis@americanrivers.org) ; Greg Mixon ; Henry Mealing ; J. Hagood Hamilton Jr. (jhamilton@scana.com) ; Jaclyn Daly (Jaclyn.Daly@noaa.gov) ; Jay Maher ; Jeff Carter (jmcarter00@sc.rr.com) ; Joe Wojcicki ; John Fantry (jfantry@bellsouth.net) ; Jon Durham (jondurham@bellsouth.net) ; Karen Swank Kustafik (kakustafik@columbiasc.net) ; Kelly Kirven ; Lorianne Riggins ; Malcolm Leaphart (mwleapjr@att.net) ; Mark Davis ; Merrill McGregor (merrillm@scccl.org) ; Pace Wilber (Pace.Wilber@noaa.gov) ; rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com) ; randy mahan (rmahan@sc.rr.com) ; Robert Stroud ; Rusty Wenerick (weneriwr@dhec.sc.gov) ; Scott Collins (secollins@scana.com) ; Steve Summer ; STUTTS, BRANDON G ; tbooz@scana.com; Wayne and Ginny Boland (wayneboland@bellsouth.net) ; William Hendrix (HendrixWB@dot.state.sc.us)

Subject: draft Downstream Navigational Flow Assessment

Good morning,

Attached is the draft Downstream Navigational Flow Assessment. Please review and submit any comments or edits by Friday, April 15th. We will discuss this document at the upcoming Recreation TWC meeting, to be scheduled for some time in May.

Thanks,

Kelly

Kelly Miller Kirven

Regulatory Coordinator

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From: [Dick Christie](#)
To: [Henry Mealing](#); [Bill Marshall](#)
Cc: [Bill Argentieri - SCE&G \(BArgentieri@scana.com\)](#); [RAYMOND R AMMARELL \(RAMMARELL@scana.com\)](#); [Kelly Kirven](#); [Jordan Johnson](#)
Subject: RE: Parr Shoals nvigation study questions
Date: Wednesday, March 08, 2017 4:41:22 PM

Thanks, Henry - this is very helpful.

From: Henry Mealing [<mailto:Henry.Mealing@KleinschmidtGroup.com>]
Sent: Wednesday, March 08, 2017 4:39 PM
To: Dick Christie; Bill Marshall
Cc: Bill Argentieri - SCE&G (BArgentieri@scana.com); RAYMOND R AMMARELL (RAMMARELL@scana.com); Kelly Kirven; Jordan Johnson
Subject: RE: Parr Shoals nvigation study questions

Dick,

We went ahead and calculated the distance at 800 and 900 cfs for the Ledge 2 navigation transect. See attached file.

Henry

From: Dick Christie [<mailto:ChristieD@dnr.sc.gov>]
Sent: Thursday, February 23, 2017 3:09 PM
To: Henry Mealing <Henry.Mealing@KleinschmidtGroup.com>
Subject: RE: Parr Shoals nvigation study questions

Hi Henry - what took you so long? Just kidding. Assuming we would like to meet 100 of the navigation flow at ledge 2, we are trying to determine what flow would have to be released at the dam to do that. Alex is looking into the contribution from the watershed downstream of Parr Reservoir and the tributaries - which we know won't add a whole lot, but may get us under 1,000 at the dam. And the 700 flow appears to meet the 1' criteria for 66.1 of 80 feet (82%), which is not too bad. How much trouble would it be to calculate the blocks for a 800 cfs flow?

Thanks.

From: Henry Mealing [<mailto:Henry.Mealing@KleinschmidtGroup.com>]
Sent: Thursday, February 23, 2017 1:52 PM
To: Dick Christie; Bill Marshall
Cc: Bill Argentieri - SCE&G (BArgentieri@scana.com); RAYMOND R AMMARELL (RAMMARELL@scana.com); Jordan Johnson; Kelly Kirven; Alison Jakupca
Subject: FW: Parr Shoals nvigation study questions

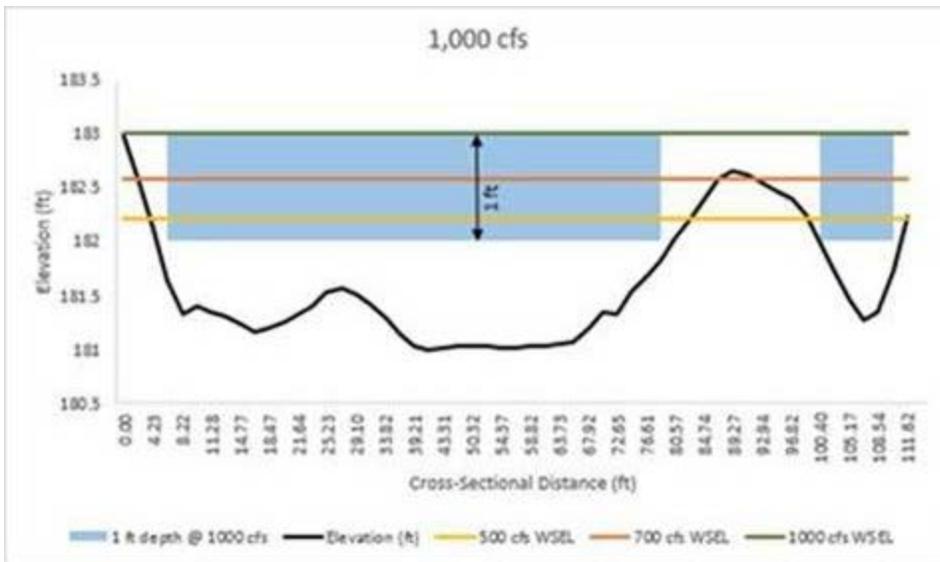
Dick and Bill,

Question 1. The bathymetry data for the 3-D plots of the navigation area were collected with an ADCP unit at a flow of approximately 6,500 cfs. The flow and Water Surface Elevation (WSEL) was measured at each collection site during collections. The way we determined the WSEL for the 1,000, 700, and 500 cfs is from the Level Logger discharge relationship that we developed during the IFIM study. We positioned a Level Logger at each of the navigation transects early in the study just to answer that question. We selected the 1,000, 700, and 500 WSELs for our analysis because we had really good data (accuracy and frequency) for those data points and we didn't need to go any higher to meet the passage guidelines.

This is one of the reasons that we included a field observation for those two navigation constrictions built into the study. Just to verify that all our calculations we giving us what we expected.

Question 2: The exact distances across the transect that is 12 inches deep by "block" (Block A on the left – Block B on the right) and total width added together are as follows:

	Block A	Block B	Total
Flow 1,000 cfs:	72.32 ft	9.67 ft	81.99 ft
Flow 700 cfs:	66.21 ft	0.0	66.21 ft
Flow 500 cfs:	31.69 ft	0.0	31.69 ft



Please let me know if this does not answer your questions adequately or if you want to talk through any specifics.

Henry

From: Dick Christie [<mailto:ChristieD@dnr.sc.gov>]
Sent: Thursday, February 23, 2017 11:55 AM
To: Henry Mealing <Henry.Mealing@KleinschmidtGroup.com>
Cc: Bill Marshall <MarshallB@dnr.sc.gov>
Subject: Parr Shoals nvigation study questions

Hi Henry - hope you are doing well. I have a couple of questions regarding the navigation flow study conducted for the Parr Shoals relicensing. First, my understanding is the flows that were evaluated (500, 700, and 1000 cfs) at the two sites represent flows at those sites and not from the dam; and 2) based on Figure 4 (the graph for ledge 2 at 500 cfs), it appears that a flow of 700 cfs would provide at least 12 inches of water depth for much of the channel width - can you determine how much?

Thanks.

Dick Christie
SCDNR
1771 Highway 521 bypass S.
Lancaster, SC 29720
(803)609-7014

From: [Bill Marshall](#)
To: [Bill Argentieri](#); [Henry Mealing](#); [Kelly Kirven](#)
Subject: DNR notes for March 28-30 PME meetings - Parr Relicensing
Date: Tuesday, April 04, 2017 6:30:02 PM
Attachments: [DNR PMEs recommended at March 28-30 mtgs Parr\(2\).docx](#)

Bill, Henry and Kelly,

I am attaching some notes which are intended to help clarify DNR comments and recommendations made during the March 28 and 30 meetings to address the agenda item "other PME measures (not previously proposed)".

I hope these notes will be useful to compiling the meeting summary. Let us know if you have questions. Thanks.

Bill Marshall

From: [Bill Marshall](#)
To: [Henry Mealing](#); [Kelly Kirven](#)
Cc: [Ron Ahle](#); [Dick Christie](#)
Subject: RE: West Channel Grid
Date: Thursday, April 27, 2017 2:16:42 PM
Attachments: [Grid for West Channel \(final w sticky note\).pdf](#)
[MEMO on West Channel Grid.doc](#)

Henry and Kelly,

As follow-up to an action item from previous Parr Hydro TWC meetings, please see the attached grid map and associated memo of explanation from Ron. This presents a stratified random sampling grid for monitoring water quality conditions in the west channel and is proposed for inclusion in the West Channel AMP.

Let us know if you have questions.

Bill Marshall
SCDNR
803-734-9096

From: Ron Ahle
Sent: Thursday, April 27, 2017 12:35 PM
To: Bill Marshall <MarshallB@dnr.sc.gov>
Cc: Dick Christie <ChristieD@dnr.sc.gov>
Subject: West Channel Grid

Hi Bill,

Attached is the long awaited West Channel Grid that I agreed to provide the Fish and Wildlife TWC. Take a look at it and if you have no issues please pass it on to Kleinschmidt.

Thanks,

Ron

Ronald C. Ahle
Freshwater Fisheries Biologist
South Carolina Department of Natural Resources
2726 Fish Hatchery Road
W. Columbia, SC 29172
Bus: (803)-755-9345
Email:Ahler@dnr.sc.gov

From: [LeMaster, Elizabeth -FS](#)
To: [Kelly Miller](#)
Subject: RE: Parr Waterfowl Hunter Surveys
Date: Friday, July 10, 2015 5:38:43 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Hi Kelly – I just realized that I never sent you guys a letter saying that we had met and were involved in the process...

Do you still want/need such a letter from the USFS?

Beth



Beth LeMaster
District Ranger
Forest Service
Sumter National Forest, Enoree Ranger District

p: 803-276-4810
elemaster@fs.fed.us

20 Work Center Road
Whitmire, SC 29178

www.fs.fed.us



Caring for the land and serving people

From: Kelly Miller [mailto:Kelly.Miller@KleinschmidtGroup.com]

Sent: Tuesday, July 07, 2015 9:05 AM

To: LeMaster, Elizabeth -FS

Cc: Evans, Christopher -FS

Subject: Parr Waterfowl Hunter Surveys

Importance: High

Hi Beth,

I just wanted to let you know that after further discussion with SCDNR, they have agreed to include question 2 on the Enoree River Waterfowl Survey. We will be removing question 4 however.

If the USFS has any additional edits or comments on the surveys, please send these in by Friday, July 17th. We want to finalize the surveys in the next few weeks so that we can focus on our distribution methods prior to the start of waterfowl hunting season.

Thanks!

Kelly

Kelly Miller
Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

www.KleinschmidtGroup.com

From: [Hamstead, Byron](#)
To: [Shane Boring](#); [Henry Mealing](#)
Cc: [Alison Jakupca](#); [BARGENTIERI@scana.com](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Bill Stangler \(CRK@congariverkeeper.org\)](#); [BRESNAHAN, AMY](#); [Byron Hamstead \(Byron_hamstead@fws.gov\)](#); [Chad Altman \(altmankc@dhec.sc.gov\)](#); [Dick Christie \(christied@dnr.sc.gov\)](#); [Fritz Rohde \(Fritz.Rohde@noaa.gov\)](#); [Gerrit Jobsis \(gjobsis@americanrivers.org\)](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Hal Beard \(BeardH@dnr.sc.gov\)](#); [Jay Maher](#); [Jim Glover \(gloverjb@dhec.sc.gov\)](#); [Karla Reece \(Karla.Reece@noaa.gov\)](#); [Kelly Miller](#); [QUATTLEBAUM, MILTON](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy mahan \(rmahan@sc.rr.com\)](#); [Robert Stroud \(StroudR@dnr.sc.gov\)](#); [Ron Ahle](#); [Sam Stokes \(stokess@dnr.sc.gov\)](#); [Steve Summer](#); [Tom McCoy \(thomas_mccoy@fws.gov\)](#)
Subject: Parr Entrainment/Mortality Study Hold Point 3
Date: Tuesday, January 06, 2015 7:07:58 AM
Attachments: [20150105_Parr Entrainment Hold Point 3 USFWS Comments.docx](#)

Shane and Henry,

I regret that I cannot attend today's scheduled conference call. Apologies for the short notice. Attached are my comments and questions.

Thank you,
Byron

Byron Hamstead
Fish and Wildlife Biologist
USFWS Charleston Field Office
176 Croghan Spur Rd., Suite 200
Charleston, SC, 29407

843-727-4707 ext. 205

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From: [Hamstead, Byron](#)
To: [Henry Mealing](#)
Cc: [ARGENTIERI, WILLIAM R](#); [Shane Boring](#); [Kelly Miller](#)
Subject: Re: Delivery delayed:County Species List
Date: Tuesday, September 01, 2015 7:19:27 AM
Attachments: [image001.png](#)

Apologies Henry. I included the Union County list b/c the PBL includes the confluence of the Broad and Enoree Rivers. I mistook the Union county line to extend down to the Enoree-Broad River confluence.

Byron

Byron Hamstead
Fish and Wildlife Biologist
USFWS Charleston Field Office
176 Croghan Spur Rd., Suite 200
Charleston, SC, 29407

843-727-4707 ext. 205

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On Mon, Aug 31, 2015 at 7:14 PM, Henry Mealing
<Henry.Mealing@kleinschmidtgroup.com> wrote:

Byron,

I took a closer look at all of the items you sent me and I noticed that you included Union County as one of the counties in the project influence. The project doesn't touch Union County and we will remove any species from the list that are associated with that specific county list. The major inclusions of species to evaluate are the At Risk Species (ARS). We will add an additional section to cover these species including a short write up – known presence within the PBL – if the project will affect the species.

Thanks again for the complete list. We will get started on this right away.

Henry

Henry Mealing

Fisheries Biologist / Project Manager

Kleinschmidt

204 Caughman Farm Lane

Suite 301

Lexington, SC 29072

706-339-3209

www.KleinschmidtGroup.com

From: Hamstead, Byron [mailto:byron_hamstead@fws.gov]
Sent: Monday, August 24, 2015 10:05 AM
To: ARGENTIERI, WILLIAM R <BARGENTIERI@scana.com>
Cc: Henry Mealing <Henry.Mealing@KleinschmidtGroup.com>
Subject: Re: Delivery delayed:County Species List

Hi Bill,

Per Henry's request, attached is a .xlsx list of federal priority species that may be impacted by the Parr Project. These species were pulled from the USFWS's county lists (Union, Fairfield, Newberry, and Richland Counties), Birds of Conservation Concern (2008) for Bird Conservation Region 29 (Table 27), and our July 9, 2014 proposal to include two mussels for consideration by the RT&E TWC. County lists and other reference documents are attached for your records. Please let me know if you have any questions.

Thanks,

Byron

Byron Hamstead

Fish and Wildlife Biologist

USFWS Charleston Field Office

176 Croghan Spur Rd., Suite 200

Charleston, SC, 29407

843-727-4707 ext. 205

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On Mon, Jun 29, 2015 at 1:08 PM, ARGENTIERI, WILLIAM R
<BARGENTIERI@scana.com> wrote:

Done

His new email address is Henry.Mealing@KleinschmidtGroup.com.

From: Thomas McCoy [mailto:thomas_mccoy@fws.gov]

Sent: Friday, June 26, 2015 3:13 PM

To: ARGENTIERI, WILLIAM R

Subject: FW: Delivery delayed:County Species List

*****This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.**

Hi Bill,

??

Can you send to Henry the species list?

It bounced back.

Tom

??

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??

From: Microsoft Outlook [mailto:postmaster@doi.gov]
Sent: Friday, June 26, 2015 2:55 PM
To: thomas_mccoy@fws.gov
Subject: Delivery delayed:County Species List

??

Delivery is delayed to these recipients or groups:

[Henry Mealing \(HMealing@kassociates.com\)](mailto:HMealing@kassociates.com)

Subject: County Species List

This message hasn't been delivered yet. Delivery will continue to be attempted.

The server will keep trying to deliver this message for the next 1 days, 19 hours and 55 minutes. You'll be notified if the message can't be delivered by that time.

From: [Hamstead, Byron](#)
To: [Kelly Kirven](#)
Cc: [Alison Jakupca](#); [ARGENTIERI, WILLIAM R](#); [Bill Marshall \(marshallb@dnr.sc.gov\)](#); [Bill Stangler \(CRK@congareriverkeeper.org\)](#); [BRESNAHAN, AMY](#); [Caleb Gaston \(caleb.gaston@scana.com\)](#); [Chad Altman \(altmankc@dhec.sc.gov\)](#); [David Eargle \(eargleda@dhec.sc.gov\)](#); [Gerrit Jobsis \(gjobsis@americanrivers.org\)](#); [Greg Mixon \(mixong@dnr.sc.gov\)](#); [Henry Mealing](#); [Jay Maher](#); [Jim Glover \(gloverjb@dhec.sc.gov\)](#); [Karla Reece \(Karla.Reece@noaa.gov\)](#); [Lorianne Riggin \(RigginL@dnr.sc.gov\)](#); [rammarell@scana.com](#); [Randy Mahan \(randolph.mahan@scana.com\)](#); [randy mahan \(rmahan@sc.rr.com\)](#); [Sam Stokes \(stokess@dnr.sc.gov\)](#); [Scott Castleberry \(castlews@dhec.sc.gov\)](#); [Shane Boring](#); [Steve Summer](#); [STUTTS, BRANDON G](#); [Tom McCoy \(thomas_mccoy@fws.gov\)](#); [Morgan Wolf](#)
Subject: Re: draft Broad River Spiny Crayfish Report
Date: Wednesday, January 06, 2016 8:36:16 AM
Attachments: [201407XX_ Identification and Distribution of Crayfishes in South Carolina.pdf](#)
[Broad River Spiny Crayfish Report-Draft_Hamstead Comments_20160106.docx](#)

Hi Kelly,

Just a few comments on this one in tracked changes. Also attached is Arnie's 2014 Crayfish report/atlas.

Thanks,
Byron

Byron Hamstead
Fish and Wildlife Biologist
USFWS Asheville Field Office
160 Zillicoa St., Suite B
Asheville, NC, 28801

828-258-3939 ext. 225

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On Mon, Dec 14, 2015 at 10:24 AM, Kelly Kirven <Kelly.Kirven@kleinschmidtgroup.com> wrote:

All,

Attached is the draft Broad River Spiny Crayfish Report. Please review and submit any comments or edits by Monday, December 28th. Please note that Appendix A will be included with the final report.

Thanks,

Kelly

Kelly Miller Kirven

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

www.KleinschmidtGroup.com

From: [Thomas McCoy](#)
To: [ARGENTIERI, WILLIAM R](#)
Cc: [Kelly Kirven](#); [Henry Mealing](#)
Subject: RE: American Eel Collections downstream of Parr Dam Final Report 2016
Date: Thursday, February 04, 2016 10:51:43 AM
Attachments: [image001.png](#)
[image002.png](#)

Bill,

Believe me....I am not the American eel expert, but I wonder if we need another year or not, due to the flooding. However, looking at the data from SCDNR, it appears that they are not moving further than Columbia, so I am torn between yes for another year due to the flooding and no due to the five years of data. This is my opinion. In some regards, I think we might not need any more survey work, but defer to our discussion in March with SCDNR and NFMS. You are correct, it could be worked out in the PM&E measures.

Please let me know if I can provide any further assistance.

Tom

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From: ARGENTIERI, WILLIAM R [mailto:BARGENTIERI@scana.com]
Sent: Thursday, February 04, 2016 10:21 AM
To: 'Thomas McCoy'
Cc: Kelly Kirven; Henry Mealing
Subject: RE: American Eel Collections downstream of Parr Dam Final Report 2016

Tom,

Thanks for the comments. KA will incorporate your requested editorial changes. I was curious as to whether you are requesting a second year of eel studies as part of the Accord or as part of our Parr Relicensing. Both study plans were for one year. As far as Parr Relicensing, we need to move forward and start working toward PM&E measures for the draft license application. If the Accord wants to do another year of studies, someone will need to submit a new study plan through the TC and get Board approval.

What are your thoughts?

Bill

From: Thomas McCoy [mailto:Thomas_McCoy@fws.gov]
Sent: Thursday, February 04, 2016 9:07 AM
To: Henry Mealing <Henry.Mealing@kleinschmidtgroup.com>
Cc: ARGENTIERI, WILLIAM R <BARGENTIERI@scana.com>; Kelly Kirven <Kelly.Kirven@kleinschmidtgroup.com>

Subject: RE: American Eel Collections downstream of Parr Dam Final Report 2016

***This is an EXTERNAL email. Please do not click on a link or open any attachments unless you are confident it is from a trusted source.

Henry,

Attached are my comments for your review. I am not sure if we need to have more time in the water for the AMEL or not – I would defer to the experts on that comment and whether or not AMEL make it to Parr or not.

Please let me know if I can provide any further assistance.

Tom

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From: Henry Mealing [mailto:Henry.Mealing@KleinschmidtGroup.com]

Sent: Thursday, February 04, 2016 8:23 AM

To: Thomas McCoy

Cc: Bill Argentieri - SCE&G (BArgentieri@scana.com); Kelly Kirven

Subject: RE: American Eel Collections downstream of Parr Dam Final Report 2016

Tom,

Thanks for your question – let me give a little clarification. We sent the draft out to the Parr Relicense Team in December 2015. SCDNR requested a time extension on comments until the end of January 2016. We agreed with that and SCDNR sent us their comments on the draft report the 3rd week of January. We never received comments from any other Relicense stakeholder and thought that was it. We incorporated all of the SCDNR comments into the file I just sent to you for the ACCORD.

This may have been a report that slipped by USFWS review during Bryon’s transition and Christmas. Of course we would be interested to see your comments on the report as the USFWS for relicensing of the Parr Project – and as part of the ACCORD. I don’t know if they will be different for one versus the other – but let us know if there is a difference.

Thanks again and please give me a call if we need to discuss further.

Henry

Henry Mealing

Fisheries Biologist / Project Manager

Kleinschmidt

204 Caughman Farm Lane

Suite 301

Lexington, SC 29072

706-339-3209

www.KleinschmidtGroup.com



From: Thomas McCoy [mailto:Thomas_McCoy@fws.gov]

Sent: Thursday, February 04, 2016 7:39 AM

To: Henry Mealing <Henry.Mealing@KleinschmidtGroup.com>

Subject: RE: American Eel Collections downstream of Parr Dam Final Report 2016

Henry,

Do you want our comments now or wait until the meeting next month?

Please let me know if I can provide any further assistance.

Tom

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From: Henry Mealing [mailto:Henry.Mealing@KleinschmidtGroup.com]

Sent: Wednesday, February 03, 2016 8:16 PM

To: Bill Argentieri - SCE&G (BAgentieri@scana.com); Tom McCoy (thomas_mccoy@fws.gov)

Cc: Jared Porter; Kelly Kirven; Shane Boring; Alison Jakupca

Subject: American Eel Collections downstream of Parr Dam Final Report 2016

Bill and Tom,

Attached is the final report of American eel surveys downstream of Parr Shoals Dam. Please let me know if you have any questions.

Henry

Henry Mealing

Fisheries Biologist / Project Manager

Kleinschmidt

204 Caughman Farm Lane

Suite 301

Lexington, SC 29072

706-339-3209

www.KleinschmidtGroup.com



From: [Thomas McCoy](#)
To: [Kelly Kirven](#)
Subject: RE: Final WQFW RCG Meeting Notes
Date: Wednesday, March 02, 2016 6:35:14 AM
Attachments: [Final Parr RTE Desktop Assessment 12-7-15TDMedits.pdf](#)

Hi Kelly,

Attached are my edits for the Desktop Assessment for your review.

Please let me know if I can provide any further assistance.

Tom

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-----Original Message-----

From: Kelly Kirven [<mailto:Kelly.Kirven@KleinschmidtGroup.com>]
Sent: Tuesday, March 01, 2016 1:40 PM
To: Alex Pellett (PellettC@dnr.sc.gov); Alison Jakupca; ARGENTIERI, WILLIAM R; Bill Marshall (marshallb@dnr.sc.gov); Bill Stangler (CRK@congareriverkeeper.org); Caleb Gaston (caleb.gaston@scana.com); Chad Altman (altmankc@dhec.sc.gov); Charlene Coleman (cheetahtk@yahoo.com); Chris Johnston (JohnstonWC@gmail.com); Chuck Hightower (hightocw@dhec.sc.gov); David Eargle (eargleda@dhec.sc.gov); Dick Christie (christied@dnr.sc.gov); Frank_Henning@nps.gov; Fritz Rohde (Fritz.Rohde@noaa.gov); Gerrit Jobsis (gjobsis@americanrivers.org); Greg Mixon (mixong@dnr.sc.gov); Hal Beard (BeardH@dnr.sc.gov); Henry Mealing; J. Hagood Hamilton Jr. (jhamilton@scana.com); Jaclyn Daly (Jaclyn.Daly@noaa.gov); Jim Glover (gloverjb@dhec.sc.gov); Jon Durham (jondurham@bellsouth.net); Kelly Kirven; Lorianne Riggan (RigganL@dnr.sc.gov); Malcolm Leaphart (mwleapjr@att.net); Mark Caldwell (mark_caldwell@fws.gov); Mel Jenkins (greenpalmetto@yahoo.com); Pace Wilber (Pace.Wilber@noaa.gov); rammarell@scana.com; Randy Mahan (randolph.mahan@scana.com); randy mahan (rmahan@sc.rr.com); Ron Ahle; Rusty Wenerick (weneriwr@dhec.sc.gov); Sam Stokes (stokess@dnr.sc.gov); Scott Castleberry (castlews@dhec.sc.gov); Scott Harder; Shane Boring; Steve Summer; STUTTS, BRANDON G; Tom McCoy (thomas_mccoy@fws.gov); Wayne and Ginny Boland (wayneboland@bellsouth.net)
Subject: Final WQFW RCG Meeting Notes

All,

Attached for your record are the final meeting notes from the WQFW RCG meeting that was held on January 21, 2016. These notes will also be available on the project website at www.parrfairfieldrelicense.com<<http://www.parrfairfieldrelicense.com>>

Thanks,
Kelly

Kelly Miller Kirven
Regulatory Coordinator
[2012 Email Logo]
Office: 803.462.5633

Cell: 803.917.4528

www.KleinschmidtGroup.com<<http://www.kleinschmidtusa.com>>

From: [ARGENTIERI, WILLIAM R](#)
To: [Kelly Kirven](#)
Cc: [Henry Mealing](#)
Subject: Email from Tom McCoy regarding Reservoir Fluctuation Issue at Parr
Date: Monday, March 07, 2016 11:24:48 AM
Attachments: [Parr Shoals Question.msg](#)

Kelly,

Please add the comments and questions by Tom McCoy (see attached email) to the meeting notes for the reservoir fluctuation meeting held last Thursday.

Thanks,

William R. Argentieri

South Carolina Electric & Gas Company
Mail Code A221
220 Operation Way
Cayce, SC 29033-3701

(Physical Address)
100 SCANA Pkwy
Building A, Floor 2
Cayce, SC 29033-3712

Phone - (803) 217-9162
Fax - (803) 933-7849
Cell - (803) 331-0179

From: [Olds, Melanie](#)
To: [Kelly Kirven](#)
Subject: Re: Parr Relicensing - Draft PME Meeting Notes - March 28 and 30, 2017
Date: Monday, May 01, 2017 1:34:08 PM

Hi Kelly,

I have no comments on the notes. I am still working on providing more specifics on a mussel monitoring plan and should have that to you either by the end of this week or early next week.

Thanks,

Melanie

Melanie Olds | *Fish & Wildlife Biologist/FERC Coordinator*
U.S. Fish and Wildlife Service
South Carolina Ecological Services Field Office
176 Croghan Spur Road, Suite 200
Charleston, SC 29407
843-727-4707 ext. 205
843-727-4218 fax

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On Tue, Apr 25, 2017 at 1:32 PM, Kelly Kirven <Kelly.Kirven@kleinschmidtgroup.com> wrote:

Hi Melanie,

Absolutely – we completed a Mussel Study in Monticello Reservoir at the request of SCDHEC. Attached is the final report for that study.

We also completed a Desktop Baseline Macroinvertebrate and Mussel Study early in relicensing, just to document the macro and mussel population in the Project area using existing data. I have attached a copy of that report as well, in case you might want to see it.

Let me know if you need anything else. Thanks!

Kelly

Kelly Miller Kirven

Regulatory Coordinator



Office: 803.462.5633

Cell: 803.917.4528

www.KleinschmidtGroup.com

From: Olds, Melanie [mailto:melanie_old@fws.gov]

Sent: Tuesday, April 25, 2017 1:05 PM

To: Kelly Kirven <Kelly.Kirven@KleinschmidtGroup.com>

Subject: Re: Parr Relicensing - Draft PME Meeting Notes - March 28 and 30, 2017

Kelly,

I've been going through my files and I couldn't find the Final Mussel report for Monticello, I saw in the RT &E TWC meeting notes for March 1,2016 that a report was referenced. Can you please send me that report?

Thanks,

Melanie

Melanie Olds | *Fish & Wildlife Biologist/FERC Coordinator*

U.S. Fish and Wildlife Service

South Carolina Ecological Services Field Office

176 Croghan Spur Road, Suite 200

Charleston, SC 29407

843-727-4707 ext. 205

843-727-4218 fax

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On Thu, Apr 13, 2017 at 1:57 PM, Kelly Kirven <Kelly.Kirven@kleinschmidtgroup.com> wrote:

Good afternoon,

Attached are the draft notes from the PME meetings held on March 28th and 30th. Please review and pay particular attention to the action items listed at the end of the notes. We would like to have all comments on the notes and any additional information on new PME measures by **May 1st**, so that we can include this information in the DLA.

Thanks,

Kelly

Kelly Miller Kirven

Regulatory Coordinator

Kleinschmidt

Office: 803.462.5633

Cell: 803.917.4528

www.KleinschmidtGroup.com

SUBJECT	COMMENT	RESPONSES
South Carolina Department of Natural Resources		
Reservoir Fluctuations	<p>DNR notes that the ranges of fluctuations presented in Section 3.4 and Appendix C, page 191, represent fluctuations between the maximum and minimum pool elevations which occur over the course of a year <i>and do not reflect normal daily fluctuations</i>. Actual reservoir fluctuations observed during the period of 1995-2013 for Parr Reservoir and 2005-2013 for Monticello Reservoir are presented in Appendix C on pages 622 through 629 (April 1, 2014 presentation for the Fisheries TWC). These data show that during the periods of record, daily operations have generally used only a portion of the available 29,000 acre/feet, and the resulting daily fluctuations are much less on average than described in Section 3.4. DNR recommends that information describing the daily fluctuations in both Parr and Monticello reservoirs be included in the License Application.</p>	<p>Reservoir fluctuations have been discussed during pre-PAD consultation via the Operations RCG, and SCE&G is open to continuing that discussion during relicensing. A reservoir fluctuation study is planned for the 2015 study season.</p> <p>Ray will pull together some information on why they asked for this in the current license and how it is used.</p> <p>Point out that the top 2 feet of the pool are used as temporary storage and that the pool is not refilled to the top of the spillway gates each day.</p> <p>The daily fluctuation occurs within the 10 foot band.</p> <p>SCE&G does not operate the spillway gates dynamically.</p>
Downstream Flows	<p>Appendix C, page 917 – A discussion between Kleinschmidt and DNR involving sturgeon populations on April 24, 2014, is presented. In that consultation, DNR staff noted that DNR would have concerns if Project operations impact flows downstream in the Congaree River during the spring spawning season. Kleinschmidt responded that impacts on flows in the Congaree as a result of project operations would be unlikely for a number of reasons. “Acknowledging that flow impacts to the Upper Congaree are unlikely, Kleinschmidt staff noted that level-loggers are being deployed throughout the reach of the Broad below the project and that an operations model is being developed to determine the extent of the downstream peaking “wave.” It was determined that, if</p>	<p>SCE&G agrees that we should discuss this issue additionally during relicensing. We plan to add this issue to the Fisheries TWC and discuss it initially during July/August 2015. We will use that discussion to identify the “next steps” for gathering additional information to better define the issue.</p>

	<p>operations modeling efforts suggest that water level/flow effects extend downstream of the Columbia Hydro Project, then there may be a need to reinitiate consultation regarding potential sturgeon impacts; otherwise, there are no concerns”. DNR notes that data collected since that meeting, and presented in the PAD (Figure on pages 352-354) clearly show effects that Project operations can have on the frequency, duration, and magnitude of peak flows downstream to the Congaree River. Since these flows may disrupt spawning diadromous fish, we recommend that DNR, USFWS and NMFS personnel be consulted to determine what additional information may be needed to assess those impacts.</p>	
Downstream Flows (flood flow)	<p>Section 3.7, page 3-11 – Article 39 requires that the project is operated such that releases from Parr Reservoir during flood flows shall be no greater than flows which would have occurred in the absence of the Project. The Article did not provide a definition for flood flows; however, in practice, SCE&G uses 40,000 cfs as the targeted flood flow to guide operational measures to comply with this Article. Assuming a similar article is incorporated in the new license, DNR sees a need for further discussion and evaluation of how Project operations effect downstream flows during high inflow events, and we think such evaluation should address inflows less than 40,000 cfs, and consider effects of flood flow alterations on diadromous fish.</p>	<p>SCE&G has discussed this issue during some of the RCG/TWC meetings prior to the start of relicensing. We will schedule an additional meeting with stakeholders to share information regarding the current flood operations included in the current license.</p>
Downstream Flows (flow statistics)	<p>Section 4.2.2, page 4-15 – The flow statistics presented in this section (Table 4-2) are limited to monthly flow data from the Alston gage. Annual and monthly flow duration curves are provided in Appendix A of the PAD (page 162). As the relicensing process proceeds, DNR suggests that it is essential to have an understanding of daily variability of flows to be able to evaluate Project effects on aquatic and related natural resources. As an example, we would note that the daily minimum and maximum flows from the Project in the selected period of record (1981-2013) have ranged from a low of 48 cfs, on September 12, 2002, to a high of 106,000 cfs on October 14, 1990 (USGS summary statistics for Station 02161000, Broad River at Alston).</p>	<p>Noted. SCE&G provided information required in the PAD. This is primarily in the form of flow duration curves and average flow data. We can provide additional instantaneous flow data that is identified by the SCDNR.</p>

Recreation Lands	Appendix C, page 225 – On page 2 of the minutes from the May 14, 2013, Recreation TWC meeting, SCE&G determines that some property within the Project Boundary (Lyne Tract) needs to be reclassified from future recreation to project operations. DNR suggests that 1) it may not be necessary to reclassify the entire 350 acres to Project Operations and other options should be considered, and 2) any lands that are removed from present or future recreational status should be replaced.	SCE&G agrees to discuss this additionally during relicensing in the Lake and Land Management RCG.
United States Fish and Wildlife Service		
Reservoir Fluctuations	Section 3.4: This section outlines a typical pumping cycle where active storage is transferred to and from Parr and Monticello Reservoirs. While the annual maximum for daily reservoir elevation fluctuation is reported to be 4.5 feet for Monticello and 10 feet for Parr, the Service contends that it is also important for the Commission to be aware of typical reservoir elevation fluctuation. According to reservoir elevation observation data from 1995-2013, the monthly mean for daily fluctuation for Parr ranges from 2.87 feet in February to 7.03 feet in August. Similarly, the elevation fluctuation for Monticello ranges from 1.49-feet in February to 3.40 feet in August (see consultation record in PAD for data presented at the Fisheries Technical Working Committee (TWC) meeting on April 1, 2014). These data suggest that the current environmental condition of the Project (e.g., reservoir shoreline stability, fish and mussel assemblages, downstream hydrology, etc.) are expressions of only a portion of the allowable operating range for the Project.	<p>Reservoir fluctuations have been discussed during pre-PAD consultation via the Operations RCG, and SCE&G is open to continuing that discussion during relicensing. A reservoir fluctuation study is planned for the 2015 study season.</p> <p>Ray will pull together some information on why they asked for this in the current license and how it is used.</p> <p>Point out that the top 2 feet of the pool are used as temporary storage and that the pool is not refilled to the top of the spillway gates each day.</p> <p>The daily fluctuation occurs within the 10 foot band.</p> <p>SCE&G does not operate the spillway gates dynamically.</p>
Downstream Flows	Section 3.4 and 4.2.2: Section 3.4 does not describe any daily or seasonal ramping rates. While section 4.2.2 summarizes monthly flow statistics for water years 1981-2013 at the USGS gage (02161000) below the Project on the Broad River, these data do not show daily and hourly streamflow fluctuations that occur in the Broad River below the Project. The Service contends that daily and	Noted. SCE&G provided information required in the PAD. This is primarily in the form of flow duration curves and average flow data. We can provide the additional daily/hourly flow data that is identified by the USFWS.

	<p>sub-daily streamflow fluctuations in the Broad River affect many aquatic resources and their habitats. Measuring streamflow fluctuation across broad timescales may mask trends that drive a biological phenomenon or environmental impact. Data reported and presented by American Rivers and the University of South Carolina at the Operations Resource Conservation Group (RCG) meeting on June 27, 2013, (see consultation record) show that stream flow pulses occur more frequently during higher baseflow conditions. Baseflow conditions are typically highest in the spring months (see Appendix A of PAD) during the spawning season for many resident and diadromous fishes and freshwater mussels. The Service believes that SCE&G's Final License Application and the Commission's environmental document should assess streamflow fluctuations on sufficiently small timescale to fully evaluate potential ecological impacts to priority natural resources.</p>	<p>SCE&G will work with the Fisheries TWC and the Project Operations RCG to provide information in the Final License Application that adequately describes project operations and potential impacts on the downstream aquatic community.</p> <p>We are performing an IFIM study downstream of the project to determine the potential influence of stream flow on target aquatic species. We are also preparing a project operations model that we can use to identify operations alternatives and their cost to SCE&G.</p>
Downstream Flows (flood flow)	<p>Section 3.7: License article 39 is the, "requirement to operate the Project reservoirs in such a manner that releases from the lower reservoir during flood flows shall be no greater than flows, which would have occurred in the absence of the Project." The Service agrees with SCDNR's assertion that there is a need to further discuss SCE&G's definition of a flood flow (40,000 cubic feet per second), and we support their request for additional information and/or consultation record regarding how this benchmark was established.</p>	<p>SCE&G has discussed this issue during some of the RCG/TWC meetings prior to the start of relicensing. We will include an additional meeting with stakeholders to share information regarding the current flood operations included in the current license (most likely with the Operations RCG).</p>
Water Quality	<p>Section 4.2.6: The South Carolina Department of Health and Environmental Control (SCDHEC) identifies several areas within both reservoirs and immediately downstream of the Project in which water quality conditions are impaired. Since these impairments impact use by aquatic life (Table 4-5), the Service is concerned and interested to know the measures being taken to recovery water quality.</p>	<p>All impairments listed by the SCDHEC on the 303(d) list are identified in the Baseline Water Quality Report, prepared by SCE&G. This list is also included in the PAD.</p> <p>Additionally, SCE&G has formed the Water Quality TWC to address water quality issues in the area of project influence. Through this TWC, a potential water quality issue was identified immediately below Parr Shoals Dam (occasional drops in DO below the state required standards).</p>

		We have been working with the SCDHEC to identify project operations that will provide assurance that the project will meet the state water quality standards consistently in the future. We will continue to share this information with all stakeholders during relicensing via the Water Quality TWC.
Fish and Wildlife (mussels)	Section 4.3.3: SCE&G staff informed the Service of potential freshwater mussel harvesting in the reservoirs. While this activity is permissible, the taking of freshwater mussels is unlawful without a permit from SCDNR. The Service wants to ensure that mussel harvesting activities are responsible, sustainable and enforced according to South Carolina law.	SCE&G has in the past and will continue to support the SCDNR's enforcement of state laws within the Project.
Fish Entrainment	Sections 4.3.6 and 4.3.7: Currently, no specific prevention, mitigation, or enhancement measures have been identified as a result of the Desktop Fish Entrainment Study Plan. However, the Service is open to a variety of outcomes consistent with our Mitigation Policy that aim to offset the ecological impact of fish and mussels entrained and killed by Project operations. Such measures may include, but are not limited to, modifying Project operations, fisheries stocking activities, and/or annual contributions to the Broad River Mitigation Trust Fund.	A desktop fish entrainment analysis is being performed as part of the Fisheries TWC. The final report should be completed during 2015 and SCE&G will work with the TWC to identify PM&E measures that will be considered as part of a Settlement Agreement.
Fish and Wildlife (avian resources)	Sections 4.4.2 and 4.6.1: Table 4-15 and the text that precedes it describe the avian resources found in surveys of the adjacent V .C. Summer Nuclear Station. Section 4.6.1 identifies federally listed species in the project vicinity. The MBTA prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized to do so by the Department of the Interior. On March 30, 2011, the Service and the Commission entered into a Memorandum of Understanding that focuses on avoiding or minimizing adverse impacts on migratory birds and cooperative reinforcement for migratory bird conservation. The Service's division of Migratory	SCE&G has been in informal consultation with the USFWS since 2013 to identify species that are potentially impacted by the operation of the Parr Shoals Hydroelectric Project. We will continue to work with the USFWS to identify potential impacts to protected species, including BCC, within the project boundary during relicensing.

	<p>Bird Management provides regional lists of Birds of Conservation Concern (BCC), which consist of migratory nongame conservation priority species. The BCC list is divided into Bird Conservation Regions (BCR). The Project occurs in the Piedmont region (BCR 27). We recommend that the Final License Application considers the Project's potential impact on BCC that occur in the Project vicinity including, but not limited to bald eagle, prairie warbler, loggerhead shrike, and brown-headed nuthatch.</p>	
RT&E Species	<p>Section 4.6.1: The list of federally protected species is dynamic. Table 4-18 omits several species known to occur in Richland, Fairfield, and Newberry Counties, South Carolina. It is important that the Final License Application and the Commission's environmental document describe and fully consider potential impacts to these species resulting from the Project's new license.</p>	<p>SCE&G will continue to work with the USFWS during relicensing to identify project impacts to federally protected species. We will include all of our findings in the FLA.</p>
RT&E Species (mussels)	<p>Sections 4.6.4 and 5.1.5: Currently, no studies have been proposed to determine how the Project may be affecting the yellow lampmussel (<i>Lampsilis cariosa</i>) and Roanoke slabshell (<i>Elliptio roanokensis</i>). However, it is evident from data collected so far, that the Parr dam is a physical barrier that prevents these species from accessing upstream habitats, thereby limiting the distribution and recovery of these priority species. The Service is committed to restoring populations of these species upstream of the Parr Reservoir and elsewhere in the Broad River basin.</p>	<p>Acknowledged. SCE&G and the SCDNR have performed studies in recent years that document these two mussel species downstream of the Project. In addition, a survey is planned for Lake Monticello in 2015 as part of relicensing. To date, these two species have not been observed upstream of the project. Although these species may have an anadromous host, and thus would be limited in upstream extent by the dam, NEPA and FPA do not require that these populations be analyzed relative to pre-project conditions (i.e., potential distribution in the absence of the dam). It should be noted that these species are not federally listed, therefore Section 7 requirements do not apply. Similarly, there are no recovery goals for these species.</p>
Recreation Land	<p>Section 4.7.11: The Service supports SCDNR's assertion that any lands reclassified from the future recreation designation should be replaced.</p>	<p>Comment noted.</p>

<p>Additional Information Requests</p>	<p>The Service echoes the additional information needs put forth by SCDNR and requests the following:</p> <ol style="list-style-type: none"> 1) Presentation hydrologic data describing Project outflow in relation to inflow with sufficient resolution (hourly timescale) so as to reveal potentially meaningful hydrologic trends and associated biological impacts; 2) A description of measures in place to continue monitoring and remediation of impaired water quality within and immediately downstream of the Project boundary; 3) Assess potential adverse impacts and issues for federally protected species omitted from the PAD including migratory birds⁷; and 4) Does SCE&G concur with the Service's assertion that the Project is a barrier limiting the distribution and recovery of yellow lampmussel and Roanoke slabshell? If not, additional surveys/studies may be needed to verify this fact. 	<ol style="list-style-type: none"> 1) SCE&G agrees that we should discuss this issue additionally during relicensing. We plan to add this issue to the Fisheries TWC and discuss it initially during July/August 2015. We will use that discussion to identify the “next steps” for gathering additional information to better define the issue. 2) We will include these in the FLA and the proposed PM&E measures 3) We will include these in the FLA and the proposed PM&E measures 4) SCE&G is not clear on this statement. We do not agree that the relicensing process requires the Licensee to analyze the environment without the presence of the project. NEPA and FPA require that we determine the impacts on existing populations of federally protected species within the project, but not relative to pre-project conditions. Therefore, we will need further clarification from USFWS on this issue before we can properly respond or address their concerns. <p>Note: it is probably a fair statement to say that the dam limits upstream extent of these species; however, that is not relevant given that NEPA and FPA only require that the applicant analyze impacts to species relative to an environmental baseline that includes the presence of the dam, and NOT relative to pre-project conditions.</p>
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Typos/Document Errors	Section 4.2.2: Table 4-2: The water year for minimum recorded flow in May is incorrect. Section 4.3.1.4: The reference of (Post 2010) under the "American Shad" heading was not included in references section 4.3.8.	Noted.
National Oceanic and Atmospheric Administration – Marine Fisheries Division		
Downstream Flows	Project operations have been observed to alter downstream flows (compared to inflows) so as to increase the magnitude and frequency of high flow events (PAD, Appendix C, pages 331- 354). Project operations can alter the flows released at Parr Dam as measured at Alston all the way to the Congaree River (see Figures on pages 352, 353, and 354). The NMFS is concerned these flow variations may disrupt spawning by anadromous fish in the Broad and Congaree Rivers.	SCE&G agrees that we should discuss this issue additionally during relicensing. We plan to add this issue to the Fisheries TWC and discuss it initially during July/August 2015. We will use that discussion to identify the “next steps” for gathering additional information to better define the issue.
Downstream Fluctuations	The NMFS also has concerns about potential impacts from fluctuating water levels from peaking activities to the area in the Congaree River known to be spawning habitat for Shortnose Sturgeon (<i>Acipenser brevirostrum</i>). A meeting on April 24, 2014, between Kleinschmidt and the South Carolina Department of Natural Resources (SCDNR) involving Shortnose Sturgeon populations is summarized in Appendix C, pages 917-918. In that consultation, SCDNR staff noted SCDNR would have concerns if Project operations impact flows downstream in the Congaree River during the spring spawning season. Data presented in the PAD (Figure on pages 352-354) clearly show the effects of Project operations on duration and magnitude of flows downstream to the Congaree River. Since these flows may disrupt spawning anadromous fish, including the federally-endangered Shortnose Sturgeon, the NMFS recommends that SCDNR, USFWS, and NMFS personnel be consulted to determine if additional information may be needed to assess those impacts.	SCE&G agrees that we should discuss this issue additionally during relicensing. We plan to add this issue to the Fisheries TWC and discuss it initially during July/August 2015. We will use that discussion to identify the “next steps” for gathering additional information to better define the issue.
Additional Information Requests	1. SCE&G further evaluate hydrologic information on Project flows (inflow, outflow, and Congaree River flows) to better assess the impact on spawning anadromous fishes, especially the Shortnose Sturgeon.	1 & 2) SCE&G agrees that we should discuss this issue additionally during relicensing. We plan to add this issue to the Fisheries TWC and discuss it initially during July/August 2015. We will use

	<p>2. SCE&G convene a meeting with the resource agencies and interested stakeholders to discuss the potential impacts of current project operations on the spawning of anadromous fish, to include American Shad, Striped Bass, and Shortnose Sturgeon.</p> <p>3. SCE&G scope options for and evaluate the engineering feasibility of fishways at the Parr Shoals Development suitable for passing American Eel, American Shad, and Blueback Herring.</p>	<p>that discussion to identify the “next steps” for gathering additional information to better define the issue.</p> <p>3) SCE&G is an active member of the Santee Basin ACCORD, which is focused on the restoration of anadromous fish species. The ACCORD plan includes fish passage requirements for the Parr Project. SCE&G will include the agreements of the ACCORD in the Settlement Agreement and the FLA.</p> <p>Bill and Henry, should we elaborate on this to note that there are specific steps and timelines for engineering feasibility, preliminary design, etc. (e.g., exactly what they are asking for)?</p>