

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Monday, June 3, 2019 1:34 PM
To: 'Powell, Jeff'; 'Evan Collins'; jennifer_grunewald@fws.gov; 'Matt Laschet'; Ford, Andy
Cc: APC Harris Relicensing; Chandler, Keith Edward
Subject: Harris relicensing - T&E study plan meeting

Good afternoon,

I'm planning a HAT 3 meeting for some time in August to discuss the GIS overlays and map and the need for field verification for the T&E study (see [T&E Study Plan](#) for additional detail). It would be best to meet in person. What is your availability the week of August 19 or August 26 to meet in Greenville?

Thanks,

Angie Anderegg
Hydro Services
(205)257-2251
arsegars@southernco.com

HAT 6 meeting notes

APC Harris Relicensing

Tue 6/4/2019 5:32 PM

To:'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>;

Bcc:steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>; stacye.hathorn@ahc.alabama.gov <stacye.hathorn@ahc.alabama.gov>; christopher.kinder@ahc.alabama.gov <christopher.kinder@ahc.alabama.gov>; amanda.mcbride@ahc.alabama.gov <amanda.mcbride@ahc.alabama.gov>; eric.sipes@ahc.alabama.gov <eric.sipes@ahc.alabama.gov>; arsegars@southernco.com <arsegars@southernco.com>; dkanders@southernco.com <dkanders@southernco.com>; kechandl@southernco.com <kechandl@southernco.com>; wsgardne@southernco.com <wsgardne@southernco.com>; ammcvica@southernco.com <ammcvica@southernco.com>; tlmills@southernco.com <tlmills@southernco.com>; jlowe@alabama-quassarte.org <jlowe@alabama-quassarte.org>; celestine.bryant@actribe.org <celestine.bryant@actribe.org>; gjobsis@americanrivers.org <gjobsis@americanrivers.org>; kmo0025@auburn.edu <kmo0025@auburn.edu>; llangley@coushattatribela.org <llangley@coushattatribela.org>; russtown@nc-chokeee.com <russtown@nc-chokeee.com>; rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; kate.cosnahan@kleinschmidtgroup.com <kate.cosnahan@kleinschmidtgroup.com>; amanda.fleming@kleinschmidtgroup.com <amanda.fleming@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com <kelly.schaeffer@kleinschmidtgroup.com>; nancyburnes@centurylink.net <nancyburnes@centurylink.net>; raebutler@mcn-nsn.gov <raebutler@mcn-nsn.gov>; section106@mcn-nsn.gov <section106@mcn-nsn.gov>; mitchell.reid@tnc.org <mitchell.reid@tnc.org>; lhaikey@pci-nsn.gov <lhaikey@pci-nsn.gov>; eveham75@gmail.com <eveham75@gmail.com>; donnamat@aol.com <donnamat@aol.com>; bsmith0253@gmail.com <bsmith0253@gmail.com>; thpo@tttown.org <thpo@tttown.org>; elizabeth-toombs@cherokee.org <elizabeth-toombs@cherokee.org>; amccarnt@blm.gov <amccarnt@blm.gov>; j35sullivan@blm.gov <j35sullivan@blm.gov>; jeff_duncan@nps.gov <jeff_duncan@nps.gov>; sbird@ukb-nsn.gov <sbird@ukb-nsn.gov>;

1 attachments (149 KB)

2019-5-22 HAT 6 Meeting Notes.pdf;

HAT 6,

Attached are meeting notes from the May 22, 2019 HAT 6 meeting. Note that due to the sensitive nature of the subject matter, participants were limited for this meeting. These notes can also be found in the HAT 6 meeting folder at www.harrisrelicensing.com.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

APC Harris Relicensing

From: Sarah Salazar <Sarah.Salazar@ferc.gov>
Sent: Friday, June 7, 2019 9:21 AM
To: Anderegg, Angela Segars
Cc: Allan Creamer; Rachel McNamara; Monte Terhaar (CTR); APC Harris Relicensing
Subject: RE: Request RE: participation in the Harris Project HATs

Thank you Angie,

We will tentatively note the Sept. 11 meeting for HATs 1, 2, and 4 on our calendars and stay tuned for updates on meetings for the other HATs. We will let you know if any questions occur to us between now and then.

Summer is off to a fairly hot and rainy start here—it's a bit tropical actually ☺. We hope you all have a great summer too.

Thanks again,

Sarah L. Salazar ✦ *Environmental Biologist* ✦ *Federal Energy Regulatory Commission* ✦ *888 First St, NE, Washington, DC 20426* ✦ *(202) 502-6863*
🌱 *Please consider the environment before printing this email.*

From: Anderegg, Angela Segars [mailto:ARSEGARS@southernco.com]
Sent: Friday, June 07, 2019 10:04 AM
To: Sarah Salazar <Sarah.Salazar@ferc.gov>
Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR) <Monte.Terhaar@ferc.gov>; APC Harris Relicensing <g2apchr@southernco.com>
Subject: RE: Request RE: participation in the Harris Project HATs

Great! Below is a list of our upcoming meetings.

HAT 6 – we had a meeting with SHPO and tribes on 5/22. Unfortunately, the Muscogee didn't receive the information we sent out for review prior to the meeting. So, we are determining a way to share large files with them securely via SP, will give them a chance to review, and then will schedule a follow up call in the next few weeks. Stay tuned. Meeting notes from 5/22 are at www.harrisrelicensing.com [harrisrelicensing.com].

HAT 3 – we are nailing down a date in August to meet with HAT 3, particularly FWS, to discuss the next steps in the T&E plan – GIS and need for field verification. Stay tuned on this one too.

HATs 1, 2, and 4 – we have tentatively chosen September 11 for this meeting. A meeting notice hasn't gone out to the HATs yet because we don't have the location nailed down and it's way too early – it would get lost in everyone's inbox. We will send out the meeting details closer to time (and be sure to send you call in info).

Meeting purpose:

HAT 1:

- Operating Curve Change – review model inputs and methodologies
- Downstream Release Alternatives – model inputs, alternatives to be analyzed

HAT 2:

- Water Quality – areas of water quality concern
- Erosion/Sedimentation – review and finalize list of sites for field verification this winter

HAT 4:

- Project Lands – review our project lands proposal

Let me know if you have any questions. I hope everyone's summer is off to a great start.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

From: Sarah Salazar <Sarah.Salazar@ferc.gov>

Sent: Thursday, June 6, 2019 5:13 PM

To: Anderegg, Angela Segars <ARSEGARS@southernco.com>

Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR) <Monte.Terhaar@ferc.gov>

Subject: Request RE: participation in the Harris Project HATs

EXTERNAL MAIL: Caution Opening Links or Files

Hi Angie,

Thank you for filing the updated Revised Study Plan (RSP) for the Harris Project and addressing our comments from the Study Plan Determination in it. The FERC relicensing team has considered the recommendation in the cover letter of your updated RSP for FERC staff to participate in the HATs. We would like to be added to your HAT email distribution list(s) and, as our workload allows, we would like to participate (via teleconference) in HAT meetings. Could you let us know when the next HAT meetings will take place and send us call-in instructions? I'm available tomorrow if you have any questions about this request (202)502-6863.

Thank you in advance,

Sarah L. Salazar ✦ *Environmental Biologist* ✦ *Federal Energy Regulatory Commission* ✦ *888 First St, NE, Washington, DC 20426* ✦ *(202) 502-6863*

🌱 *Please consider the environment before printing this email.*

2019-7-9 HAT 6 meeting notes

Anderegg, Angela Segars

Fri 7/19/2019 4:18 PM

To:'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>;

Bcc:steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>; stacye.hathorn@ahc.alabama.gov <stacye.hathorn@ahc.alabama.gov>; christopher.kinder@ahc.alabama.gov <christopher.kinder@ahc.alabama.gov>; amanda.mcbride@ahc.alabama.gov <amanda.mcbride@ahc.alabama.gov>; eric.sipes@ahc.alabama.gov <eric.sipes@ahc.alabama.gov>; arsegars@southernco.com <arsegars@southernco.com>; dkanders@southernco.com <dkanders@southernco.com>; kechandl@southernco.com <kechandl@southernco.com>; wsgardne@southernco.com <wsgardne@southernco.com>; ammcvica@southernco.com <ammcvica@southernco.com>; tlmills@southernco.com <tlmills@southernco.com>; jlowe@alabama-quassarte.org <jlowe@alabama-quassarte.org>; celestine.bryant@actribe.org <celestine.bryant@actribe.org>; gjobsis@americanrivers.org <gjobsis@americanrivers.org>; kmo0025@auburn.edu <kmo0025@auburn.edu>; llangley@coushattatribela.org <llangley@coushattatribela.org>; russtown@nc-chokeee.com <russtown@nc-chokeee.com>; allan.creamer@ferc.gov <allan.creamer@ferc.gov>; rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; sarah.salazar@ferc.gov <sarah.salazar@ferc.gov>; monte.terhaar@ferc.gov <monte.terhaar@ferc.gov>; kate.cosnahan@kleinschmidtgroup.com <kate.cosnahan@kleinschmidtgroup.com>; amanda.fleming@kleinschmidtgroup.com <amanda.fleming@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com <kelly.schaeffer@kleinschmidtgroup.com>; nancyburnes@centurylink.net <nancyburnes@centurylink.net>; raebutler@mcn-nsn.gov <raebutler@mcn-nsn.gov>; section106@mcn-nsn.gov <section106@mcn-nsn.gov>; mitchell.reid@tnc.org <mitchell.reid@tnc.org>; lhaikey@pci-nsn.gov <lhaikey@pci-nsn.gov>; eveham75@gmail.com <eveham75@gmail.com>; donnamat@aol.com <donnamat@aol.com>; bsmith0253@gmail.com <bsmith0253@gmail.com>; thpo@tttown.org <thpo@tttown.org>; elizabeth-toombs@cherokee.org <elizabeth-toombs@cherokee.org>; amccartn@blm.gov <amccartn@blm.gov>; j35sullivan@blm.gov <j35sullivan@blm.gov>; jeff_duncan@nps.gov <jeff_duncan@nps.gov>; kpritchett@ukb-nsn.gov <kpritchett@ukb-nsn.gov>; Robin Soweka Jr. <rosoweka@mcn-nsn.gov>;

1 attachments (136 KB)

2019-07-09 HAT 6 Meeting Notes.pdf;

HAT 6,

Attached are meeting notes from the July 9, 2019 HAT 6 conference call. Note that due to the sensitive nature of the subject matter, participants were limited for this meeting. These notes can also be found in the HAT 6 meeting folder at www.harrisrelicensing.com.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com



R. L. Harris Hydroelectric Project

FERC No. 2628

Meeting Summary HAT 6 Conference Call/Skype Meeting July 9, 2019 at 1:00 pm

Participants:

Amanda McBride- Alabama Historical Commission (AHC)
RaeLynn Butler - Muscogee (Creek) Nation
Robin Soweka- Muscogee (Creek) Nation
Elizabeth Toombs- Cherokee Nation
Keith Chandler - Alabama Power
Bill Gardner - Alabama Power
Angie Anderegg- Alabama Power
Tina Mills - Alabama Power
Amanda Fleming - Kleinschmidt Associates

Action Items:

- Alabama Power to investigate access issues for Robin Soweka, as needed.
- Alabama Power to email table of sites selected for further evaluation.
- Alabama Power to schedule a follow-up call to finalize list of sites for further evaluation.
- Muscogee (Creek) Nation will respond with written comments on the sites for further evaluation on or before August 16.

Notes:

Amanda Fleming (Kleinschmidt) welcomed everyone and thanked them for their participation in the conference call. Amanda provided a review of the last HAT6 meeting that was held on May 22, 2019 and reminded the group that Alabama Power had established a HAT 6 SharePoint website (website) for the purpose of distributing large files to the group. Amanda reminded everyone that the large files that were distributed on flash drive on May 1, 2019 had also been posted to the website on June 14, 2019 and, due to the sensitive nature of the information, had been removed from the website on June 21, 2019. Amanda then asked all of the call participants whether they were able to access the files that were posted. Robin Soweka (Muscogee (Creek) Nation) stated that, because access to the website required a Microsoft account, he was not able to download the information. Robin stated that he had made several attempts with various Microsoft accounts but was not successful. Amanda Fleming stated that Alabama Power could work with Robin on access issues. RaeLynn Butler (Muscogee (Creek) Nation) stated that she was able to access the website but did not have time to download all of the files before they were deleted. Amanda Fleming stated that all of the files would re-added to the website for additional time to access and would remain posted until the end of the week. Angie Anderegg (Alabama Power) stated that she appreciated everyone's patience during this process, and this group of large files should be the only time that requires downloading this much information at one time. Elizabeth Toombs (Cherokee Nation) stated that she had attempted to access the files, but the website crashed during download. Amanda Fleming reiterated that the files would be re-added for access and stated that Alabama Power can also send a second flash drive with the information if anyone would like to provide a better or different mailing address.

Amanda Fleming then asked whether anyone had an opportunity to review the list of sites to be further evaluated and stated that these sites had been the sites that were discussed during the May 22, 2019 meeting. Amanda reiterated that the immediate next step is to finalize the list of sites to be evaluated and that any comments regarding changes to the list or additional sites should be forward to Angie Anderegg.

RaeLynn Butler asked about the timeline for providing comments. Amanda stated that comments were no longer needed for the Study Plan as it has been finalized by FERC. All comments moving forward would be made regarding how the study is conducted.

Amanda Fleming stated that HAT 6 needs to finalize the list of sites for further evaluation as soon as possible so that the Office of Archaeological Research (OAR) can begin any needed field evaluations in the fall. Amanda added that HAT 6 will be meeting again in the August/September timeframe to review methods and to begin more detailed discussions regarding the HPMP or TCP and then reiterated that the immediate step is to finalize the list of sites for further evaluation.

Bill Gardner (Alabama Power) stated that the field work would need to be conducted from November through January in order to access areas during low water conditions. Bill added that OAR follows the University of Alabama's schedule and, therefore, would not be available to conduct field work during the last two weeks of December.

Amanda Fleming stated that the table of sites for further evaluation would be provided via email as soon as possible as it is small enough in file size to email. Amanda added that any comments regarding the table can be provided to Angie Anderegg via email, and, after allowing 2-3 weeks for review of the table, a follow-up call will be scheduled to discuss finalizing the list. RaeLynn Butler stated that the Muscogee (Creek) Nation would be able to review the list and provide comments by August 16th.

In conclusion, Amanda Fleming asked for any further comments or discussion, and, with none given, thanked everyone for their time and closed the meeting.

HAT 3 meeting - T&E study plan

APC Harris Relicensing

Mon 7/22/2019 3:09 PM

To:'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>;

Bcc:amy.silvano@dcnr.alabama.gov <amy.silvano@dcnr.alabama.gov>; chris.greene@dcnr.alabama.gov <chris.greene@dcnr.alabama.gov>; damon.abernethy@dcnr.alabama.gov <damon.abernethy@dcnr.alabama.gov>; evan.lawrence@dcnr.alabama.gov <evan.lawrence@dcnr.alabama.gov>; keith.henderson@dcnr.alabama.gov <keith.henderson@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>; nick.nichols@dcnr.alabama.gov <nick.nichols@dcnr.alabama.gov>; stan.cook@dcnr.alabama.gov <stan.cook@dcnr.alabama.gov>; steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>; ken.wills@jcdh.org <ken.wills@jcdh.org>; arsegars@southernco.com <arsegars@southernco.com>; ammcvica@southernco.com <ammcvica@southernco.com>; dkanders@southernco.com <dkanders@southernco.com>; jcarlee@southernco.com <jcarlee@southernco.com>; jefbaker@southernco.com <jefbaker@southernco.com>; kechandl@southernco.com <kechandl@southernco.com>; tlmills@southernco.com <tlmills@southernco.com>; cggoodma@southernco.com <cggoodma@southernco.com>; clowry@alabamarivers.org <clowry@alabamarivers.org>; cchaffin@alabamarivers.org <cchaffin@alabamarivers.org>; gjobsis@americanrivers.org <gjobsis@americanrivers.org>; devridr@auburn.edu <devridr@auburn.edu>; irwiner@auburn.edu <irwiner@auburn.edu>; kmo0025@auburn.edu <kmo0025@auburn.edu>; wright2@aces.edu <wright2@aces.edu>; jhancock@balch.com <jhancock@balch.com>; lgallen@balch.com <lgallen@balch.com>; chrisoberholster@birminghamaudubon.org <chrisoberholster@birminghamaudubon.org>; sarah.salazar@ferc.gov <sarah.salazar@ferc.gov>; allan.creamer@ferc.gov <allan.creamer@ferc.gov>; rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; monte.terhaar@ferc.gov <monte.terhaar@ferc.gov>; amanda.fleming@kleinschmidtgroup.com <amanda.fleming@kleinschmidtgroup.com>; colin.dinken@kleinschmidtgroup.com <colin.dinken@kleinschmidtgroup.com>; henry.mealing@kleinschmidtgroup.com <henry.mealing@kleinschmidtgroup.com>; jason.moak@kleinschmidtgroup.com <jason.moak@kleinschmidtgroup.com>; kate.cosnahan@kleinschmidtgroup.com <kate.cosnahan@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com <kelly.schaeffer@kleinschmidtgroup.com>; sforehand@russelllands.com <sforehand@russelllands.com>; lgarland68@aol.com <lgarland68@aol.com>; pace.wilber@noaa.gov <pace.wilber@noaa.gov>; mitchell.reid@tnc.org <mitchell.reid@tnc.org>; donnamat@aol.com <donnamat@aol.com>; trayjim@bellsouth.net <trayjim@bellsouth.net>; mhpwedowee@gmail.com <mhpwedowee@gmail.com>; straylor426@bellsouth.net <straylor426@bellsouth.net>; triciastearns@gmail.com <triciastearns@gmail.com>; wmcampbell218@gmail.com <wmcampbell218@gmail.com>; holliman.daniel@epa.gov <holliman.daniel@epa.gov>; decker.chris@epa.gov <decker.chris@epa.gov>; bill_pearson@fws.gov <bill_pearson@fws.gov>; evan_collins@fws.gov <evan_collins@fws.gov>; jeff_powell@fws.gov <jeff_powell@fws.gov>; jennifer_grunewald@fws.gov <jennifer_grunewald@fws.gov>; jeff_duncan@nps.gov <jeff_duncan@nps.gov>;

HAT 3,

We will have a HAT 3 meeting on August 27th from 10:00 am – 2:00 pm at the Wendell Mitchell Conference Center at Lurleen B. Wallace Community College in Greenville (750 Greenville By-Pass, Greenville, AL 36037). The purpose of this meeting is to discuss the GIS overlays and map and the need for field verification for the T&E Study Plan. Please RSVP by August 20th if you plan to attend.

Thanks,

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Thursday, July 25, 2019 11:39 AM
To: Clark, Maria
Subject: RE: HAT 3 meeting - T&E study plan

Hi Maria,

We're reaching out to the conference center on the best option for calling in. I'll send out info when we hear back.

Thanks!

Angie Anderegg
Hydro Services
(205)257-2251
arsegars@southernco.com

From: Clark, Maria <Clark.Maria@epa.gov>
Sent: Tuesday, July 23, 2019 2:32 PM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Subject: FW: HAT 3 meeting - T&E study plan
Importance: High

EXTERNAL MAIL: Caution Opening Links or Files

Dear Angie,

How are you? I can't believe the summer is almost gone.

Is there any chance to connect via internet and/or phone to attend this meeting?

Thank you!

Maria R. Clark

NEPA Section - Region 4
Strategic Programs Office
U.S. Environmental Protection Agency
61 Forsyth, Street South West
Atlanta, GA 30303
404-562-9513

From: APC Harris Relicensing <g2apchr@southernco.com>
Sent: Monday, July 22, 2019 11:10 AM
To: APC Harris Relicensing <g2apchr@southernco.com>
Subject: HAT 3 meeting - T&E study plan

HAT 3,

We will have a HAT 3 meeting on August 27th from 10:00 am – 2:00 pm at the Wendell Mitchell Conference Center at Lurleen B. Wallace Community College in Greenville (750 Greenville By-Pass, Greenville, AL 36037). The purpose of this meeting is to discuss the GIS overlays and map and the need for field verification for the T&E Study Plan. Please RSVP by August 20th if you plan to attend.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

USGS, Alabama Cooperative Fish & Wildlife Research Unit
Auburn University
119 Swingle Hall
Auburn, Alabama 36849
334.844.9190

HAT 3 meeting - T&E Study Plan

APC Harris Relicensing

Thu 8/8/2019 5:31 PM

To: 'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>
 Bcc amy.silvano@dcnr.alabama.gov <amy.silvano@dcnr.alabama.gov>; chris.greene@dcnr.alabama.gov <chris.greene@dcnr.alabama.gov>; damon.abernethy@dcnr.alabama.gov <damon.abernethy@dcnr.alabama.gov>; evan.lawrence@dcnr.alabama.gov <evan.lawrence@dcnr.alabama.gov>; keith.henderson@dcnr.alabama.gov <keith.henderson@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>; nick.nichols@dcnr.alabama.gov <nick.nichols@dcnr.alabama.gov>; stan.cook@dcnr.alabama.gov <stan.cook@dcnr.alabama.gov>; steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>; ken.wills@jcdh.org <ken.wills@jcdh.org>; arsegars@southernco.com <arsegars@southernco.com>; ammcvica@southernco.com <ammcvica@southernco.com>; dkanders@southernco.com <dkanders@southernco.com>; jcarlee@southernco.com <jcarlee@southernco.com>; jefbaker@southernco.com <jefbaker@southernco.com>; kechandler@southernco.com <kechandler@southernco.com>; tlmills@southernco.com <tlmills@southernco.com>; cggoodma@southernco.com <cggoodma@southernco.com>; clowry@alabamarivers.org <clowry@alabamarivers.org>; cchaffin@alabamarivers.org <cchaffin@alabamarivers.org>; gjobsis@americanrivers.org <gjobsis@americanrivers.org>; devridr@auburn.edu <devridr@auburn.edu>; irwiner@auburn.edu <irwiner@auburn.edu>; kmo0025@auburn.edu <kmo0025@auburn.edu>; wright2@aces.edu <wright2@aces.edu>; jhancock@balch.com <jhancock@balch.com>; lgallen@balch.com <lgallen@balch.com>; chrisoberholster@birminghamaudubon.org <chrisoberholster@birminghamaudubon.org>; sarah.salazar@ferc.gov <sarah.salazar@ferc.gov>; allan.creamer@ferc.gov <allan.creamer@ferc.gov>; rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; monte.terhaar@ferc.gov <monte.terhaar@ferc.gov>; amanda.fleming@kleinschmidtgroup.com <amanda.fleming@kleinschmidtgroup.com>; colin.dinken@kleinschmidtgroup.com <colin.dinken@kleinschmidtgroup.com>; henry.mealing@kleinschmidtgroup.com <henry.mealing@kleinschmidtgroup.com>; jason.moak@kleinschmidtgroup.com <jason.moak@kleinschmidtgroup.com>; kate.cosnahan@kleinschmidtgroup.com <kate.cosnahan@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com <kelly.schaeffer@kleinschmidtgroup.com>; sforehand@russellands.com <sforehand@russellands.com>; lgarland68@aol.com <lgarland68@aol.com>; pace.wilber@noaa.gov <pace.wilber@noaa.gov>; mitchell.reid@tnc.org <mitchell.reid@tnc.org>; donnamat@aol.com <donnamat@aol.com>; trayjim@bellsouth.net <trayjim@bellsouth.net>; mhpwedowee@gmail.com <mhpwedowee@gmail.com>; straylor426@bellsouth.net <straylor426@bellsouth.net>; triciastearns@gmail.com <triciastearns@gmail.com>; wmcampbell218@gmail.com <wmcampbell218@gmail.com>; holliman.daniel@epa.gov <holliman.daniel@epa.gov>; decker.chris@epa.gov <decker.chris@epa.gov>; bill_pearson@fws.gov <bill_pearson@fws.gov>; evan_collins@fws.gov <evan_collins@fws.gov>; jeff_powell@fws.gov <jeff_powell@fws.gov>; jennifer_grunewald@fws.gov <jennifer_grunewald@fws.gov>; jeff_duncan@nps.gov <jeff_duncan@nps.gov>

HAT 3,

Below is call in information if you would prefer to call in for the August 27th meeting. If you plan to attend in person, please RSVP by August 20th so we can get an accurate headcount for lunch.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

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HAT 3,

We will have a HAT 3 meeting on August 27th from 10:00 am – 2:00 pm at the Wendell Mitchell Conference Center at Lurleen B. Wallace Community College in Greenville (750 Greenville By-Pass, Greenville, AL 36037). The purpose of this meeting is to discuss the GIS overlays and map and the need for field verification for the T&E Study Plan. Please RSVP by August 20th if you plan to attend.

Thanks,

APC Harris Relicensing

From: Nichols, Nick <Nick.Nichols@dcnr.alabama.gov>
Sent: Thursday, August 8, 2019 12:32 PM
To: APC Harris Relicensing
Subject: Automatic reply: HAT 3 meeting - T&E Study Plan

Please be advised that I will be retired as Chief of Fisheries for ALWFF as of August 1, 2019. Chris Greene (Chris.Greene@dcnr.alabama.gov) has been appointed to serve as my replacement as of that date. If you need immediate assistance, you may also contact the Fisheries Section Office at (334) 242-3471.

APC Harris Relicensing

From: APC Harris Relicensing
Sent: Friday, August 9, 2019 8:50 AM
To: Sarah Salazar; APC Harris Relicensing
Cc: Allan Creamer; Rachel McNamara; Monte Terhaar (CTR); Kyrstin Wallach; Stephen Bowler
Subject: RE: HAT 3 meeting - T&E Study Plan

Hi Sarah,

It will be great to have you guys on the phone. The Skype info is in the email below. We will be looking at a Powerpoint and Google Maps, so it would be ideal for you to pull it up on your computer screen as well as be on the phone.

Thanks!

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Sarah Salazar <Sarah.Salazar@ferc.gov>
Sent: Thursday, August 8, 2019 12:49 PM
To: APC Harris Relicensing <g2apchr@southernco.com>
Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR) <Monte.Terhaar@ferc.gov>; Kyrstin Wallach <Kyrstin.Wallach@ferc.gov>; Stephen Bowler <Stephen.Bowler@ferc.gov>
Subject: RE: HAT 3 meeting - T&E Study Plan

Good afternoon Angie,

Could you send the call-in information to the FERC staff when you have it? We won't be able to attend in person, but some of us plan to participate by phone.

Thanks in advance,

Sarah L. Salazar ✨ *Environmental Biologist* ✨ *Federal Energy Regulatory Commission* ✨ *888 First St, NE, Washington, DC 20426* ✨ *(202) 502-6863*
🌱 *Please consider the environment before printing this email.*

From: APC Harris Relicensing [<mailto:g2apchr@southernco.com>]
Sent: Thursday, August 08, 2019 1:32 PM
To: APC Harris Relicensing <g2apchr@southernco.com>
Subject: HAT 3 meeting - T&E Study Plan

HAT 3,

Below is call in information if you would prefer to call in for the August 27th meeting. If you plan to attend in person, please RSVP by August 20th so we can get an accurate headcount for lunch.

Thanks,

Angie Anderegg

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arsegars@southernco.com

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HAT 3,

We will have a HAT 3 meeting on August 27th from 10:00 am – 2:00 pm at the Wendell Mitchell Conference Center at Lurleen B. Wallace Community College in Greenville (750 Greenville By-Pass, Greenville, AL 36037). The purpose of this meeting is to discuss the GIS overlays and map and the need for field verification for the T&E Study Plan. Please RSVP by August 20th if you plan to attend.

Thanks,

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Monday, August 12, 2019 3:43 PM
To: APC Harris Relicensing; Amanda Fleming; Jason Moak; Kelly Schaeffer; Anderson, Dave; Mills, Tina L.
Subject: FW: Skyline WMA recreation use data
Attachments: SKYLINE HUNT DATA FOR FERC.xlsx

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Gauldin, Keith <Keith.Gauldin@dcnr.alabama.gov>
Sent: Monday, August 12, 2019 9:36 AM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Subject: RE: Skyline WMA recreation use data

EXTERNAL MAIL: Caution Opening Links or Files

Good morning Angie,
Attached is the requested information, please let me know if you have any questions.
Regards,
Keith

From: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Sent: Thursday, August 8, 2019 12:22 PM
To: Gauldin, Keith <Keith.Gauldin@dcnr.alabama.gov>
Subject: Skyline WMA recreation use data

Hi Keith,

As you are aware, we are in the process of relicensing the Harris Hydroelectric Project with the Federal Energy Regulatory Commission. As part of the process, Alabama Power is required to obtain information on recreation use within the Project Boundary. Could you please provide information on recreation use at Skyline for the past several years? Specifically, we are looking for numbers of deer and turkey hunters.

Also, I saw online that Frank Allen is the point of contact for obtaining permits at Skyline. Should he be added to our stakeholder list for relicensing? If so, would you mind sending me his email address?

Please let me know if you have any questions or would like to discuss any of the details.

Thanks,

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

**JAMES D. MARTIN - SKYLINE WILDLIFE MANAGEMENT AREA
HUNTING DATA
2016-17 SEASON THROUGH 2018-19 SEASON**

2016-2017 SEASON

SPECIES	ESTIMATED		KNOWN HARVEST
	MAN-DAYS HUNTED	ESTIMATED HARVEST	
DEER	6270	274	
TURKEY	1865	65	51
SQUIRREL	600	700	
QUAIL	30	16	
RABBIT	550	825	
DOVE	120	130	
WATERFOWL	20	15	
RACCOON	200	10	
OPOSSUM	0	0	
WOODCOCK	18	6	
SNIPE	0	0	
FOX	0	0	
PIG	0	0	
TRAPPING	TN 360	31	
	9673		

2017-2018 SEASON

SPECIES	ESTIMATED		KNOWN HARVEST
	MAN-DAYS HUNTED	ESTIMATED HARVEST	
DEER	6110	229	
TURKEY	1710	60	47
SQUIRREL	600	700	
QUAIL	30	16	
RABBIT	520	745	
DOVE	95	97	
WATERFOWL	0	0	
RACCOON	200	10	
OPOSSUM	0	0	
WOODCOCK	15	4	
SNIPE	0	0	
FOX	0	0	
PIG	0	0	
TRAPPING	0	0	
	9280		

2018-2019 SEASON

SPECIES	ESTIMATED		KNOWN HARVEST
	MAN-DAYS HUNTED	ESTIMATED HARVEST	
DEER	8003	225	
TURKEY	700	75	63
SQUIRREL	580	600	
QUAIL	30	15	
RABBIT	500	420	
DOVE	75	80	
WATERFOWL	30	30	
RACCOON	15	15	
OPOSSUM	0	0	
WOODCOCK	0	0	
SNIPE	0	0	
FOX	0	0	
PIG	0	0	
TRAPPING	0	0	
	9933		

HAT 4 meeting - September 11, 2019

Anderegg, Angela Segars

Tue 8/13/2019 6:53 PM

To: 'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>
 Bcc: damon.abernethy@dcnr.alabama.gov <damon.abernethy@dcnr.alabama.gov>;
 steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; keith.gauldin@dcnr.alabama.gov
 <keith.gauldin@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>;
 chris.greene@dcnr.alabama.gov <chris.greene@dcnr.alabama.gov>; keith.henderson@dcnr.alabama.gov
 <keith.henderson@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>;
 evan.lawrence@dcnr.alabama.gov <evan.lawrence@dcnr.alabama.gov>; nick.nichols@dcnr.alabama.gov
 <nick.nichols@dcnr.alabama.gov>; amy.silvano@dcnr.alabama.gov <amy.silvano@dcnr.alabama.gov>;
 chris.smith@dcnr.alabama.gov <chris.smith@dcnr.alabama.gov>; ken.wills@jcdh.org <ken.wills@jcdh.org>;
 matt.brooks@alea.gov <matt.brooks@alea.gov>; coty.brown@alea.gov <coty.brown@alea.gov>;
 arsegars@southernco.com <arsegars@southernco.com>; dkanders@southernco.com
 <dkanders@southernco.com>; wtanders@southernco.com <wtanders@southernco.com>;
 jefbaker@southernco.com <jefbaker@southernco.com>; jcarlee@southernco.com <jcarlee@southernco.com>;
 kechandl@southernco.com <kechandl@southernco.com>; tpfreema@southernco.com
 <tpfreema@southernco.com>; cggoodma@southernco.com <cggoodma@southernco.com>;
 ammcvica@southernco.com <ammcvica@southernco.com>; tlmills@southernco.com <tlmills@southernco.com>;
 dolmoore@southernco.com <dolmoore@southernco.com>; scsmith@southernco.com
 <scsmith@southernco.com>; twstjohn@southernco.com <twstjohn@southernco.com>; lswinsto@southernco.com
 <lswinsto@southernco.com>; cchaffin@alabamarivers.org <cchaffin@alabamarivers.org>;
 clowry@alabamarivers.org <clowry@alabamarivers.org>; gjobsis@americanrivers.org
 <gjobsis@americanrivers.org>; kmo0025@auburn.edu <kmo0025@auburn.edu>; irwiner@auburn.edu
 <irwiner@auburn.edu>; chrisoberholster@birminghamaudubon.org
 <chrisoberholster@birminghamaudubon.org>; allan.creamer@ferc.gov <allan.creamer@ferc.gov>;
 rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; sarah.salazar@ferc.gov <sarah.salazar@ferc.gov>;
 monte.terhaar@ferc.gov <monte.terhaar@ferc.gov>; gene@wedoweelakehomes.com
 <gene@wedoweelakehomes.com>; kate.cosnahan@kleinschmidtgroup.com
 <kate.cosnahan@kleinschmidtgroup.com>; colin.dinken@kleinschmidtgroup.com
 <colin.dinken@kleinschmidtgroup.com>; amanda.fleming@kleinschmidtgroup.com
 <amanda.fleming@kleinschmidtgroup.com>; henry.mealing@kleinschmidtgroup.com
 <henry.mealing@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com
 <kelly.schaeffer@kleinschmidtgroup.com>; sforehand@russellands.com <sforehand@russellands.com>; Tom
 Garland (lgarland68@aol.com) <lgarland68@aol.com>; Diane Lunsford (johndiane@sbcglobal.net)
 <johndiane@sbcglobal.net>; bradandsue795@gmail.com <bradandsue795@gmail.com>; mitchell.reid@tnc.org
 <mitchell.reid@tnc.org>; wmcampbell218@gmail.com <wmcampbell218@gmail.com>; donnamat@aol.com
 <donnamat@aol.com>; harry.merrill47@gmail.com <harry.merrill47@gmail.com>; mhpwedowee@gmail.com
 <mhpwedowee@gmail.com>; midwaytreasures@bellsouth.net <midwaytreasures@bellsouth.net>;
 inspector_003@yahoo.com <inspector_003@yahoo.com>; gardenergirl04@yahoo.com
 <gardenergirl04@yahoo.com>; paul.trudine@gmail.com <paul.trudine@gmail.com>;
 1942jthompson420@gmail.com <1942jthompson420@gmail.com>; amccartn@blm.gov <amccartn@blm.gov>;
 j35sullivan@blm.gov <j35sullivan@blm.gov>; evan_collins@fws.gov <evan_collins@fws.gov>;
 jennifer_grunewald@fws.gov <jennifer_grunewald@fws.gov>; jeff_powell@fws.gov <jeff_powell@fws.gov>

HAT 4,

Alabama Power will be hosting a series of HAT meetings on **Wednesday, September 11, 2019 at the Oxford Civic Center**, 401 Mccullars Ln, Oxford, AL 36203. The HAT 4 meeting will be from **12:30 to 1:15**. The purpose of the HAT 4 meeting is to present Alabama Power's proposed land use changes at the Harris Project, including lands that Alabama Power may propose to be removed or included in the project boundary, or those lands proposed to change land use classification.

Please RSVP by Friday, September 6, 2019. Lunch will be provided (~11:45) so please indicate any food allergies or vegetarian preferences on or before September 6, 2019. I encourage everyone to attend in person. If this is not feasible, we are also offering a Skype option (info below). It would be ideal to join on your computer as we will be viewing presentations and maps.

If you have any questions about the agenda or meetings, please email or call me at ARSEGARS@southernco.com or (205) 257-2251.

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Conference ID: 892052380

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Tuesday, August 13, 2019 1:51 PM
To: 'harrisrelicensing@southernco.com'
Subject: HAT 2 meeting - September 11, 2019

HAT 2,

Alabama Power will be hosting a series of HAT meetings on **Wednesday, September 11, 2019 at the Oxford Civic Center**, 401 McCullars Ln, Oxford, AL 36203. The HAT 2 meeting will be from 11:00 to 11:45. The purpose of the HAT 2 meeting is to review the sedimentation and erosion areas that were previously identified by stakeholders and to prepare for the field investigation in the fall. During this HAT 2 meeting, Alabama Power will also provide an update on water quality study efforts.

Please RSVP by Friday, September 6, 2019. Lunch will be provided so please indicate any food allergies or vegetarian preferences on or before September 6, 2019. I encourage everyone to attend in person. If this is not feasible, we are also offering a Skype option (info below). It would be ideal to join on your computer as we will be viewing presentations and maps.

If you have any questions about the agenda or meetings, please email or call me at ARSEGARS@southernco.com or (205) 257-2251.

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Conference ID: 892052380

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

HAT 1 meeting - September 11, 2019

Anderegg, Angela Segars

Tue 8/13/2019 6:18 PM

To: 'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>
 Bcc: damon.abernethy@dcnr.alabama.gov <damon.abernethy@dcnr.alabama.gov>;
 steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; stan.cook@dcnr.alabama.gov
 <stan.cook@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>;
 chris.greene@dcnr.alabama.gov <chris.greene@dcnr.alabama.gov>; keith.henderson@dcnr.alabama.gov
 <keith.henderson@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>;
 evan.lawrence@dcnr.alabama.gov <evan.lawrence@dcnr.alabama.gov>; nick.nichols@dcnr.alabama.gov
 <nick.nichols@dcnr.alabama.gov>; brian.atkins@adeca.alabama.gov <brian.atkins@adeca.alabama.gov>;
 tom.littlepage@adeca.alabama.gov <tom.littlepage@adeca.alabama.gov>; jhaslbauer@adem.alabama.gov
 <jhaslbauer@adem.alabama.gov>; cljohnson@adem.alabama.gov <cljohnson@adem.alabama.gov>;
 mlen@adem.alabama.gov <mlen@adem.alabama.gov>; fal@adem.alabama.gov <fal@adem.alabama.gov>;
 djmoore@adem.alabama.gov <djmoore@adem.alabama.gov>; arsegars@southernco.com
 <arsegars@southernco.com>; dkanders@southernco.com <dkanders@southernco.com>;
 jefbaker@southernco.com <jefbaker@southernco.com>; jcarlee@southernco.com <jcarlee@southernco.com>;
 kechandi@southernco.com <kechandi@southernco.com>; mcoker@southernco.com <mcoker@southernco.com>;
 cggoodma@southernco.com <cggoodma@southernco.com>; sgraham@southernco.com
 <sgraham@southernco.com>; ammcvica@southernco.com <ammcvica@southernco.com>;
 tlmills@southernco.com <tlmills@southernco.com>; cmnix@southernco.com <cmnix@southernco.com>;
 kodom@southernco.com <kodom@southernco.com>; alpeeples@southernco.com <alpeeples@southernco.com>;
 dpreston@southernco.com <dpreston@southernco.com>; scsmith@southernco.com <scsmith@southernco.com>;
 twstjohn@southernco.com <twstjohn@southernco.com>; dawhatle@southernco.com
 <dawhatle@southernco.com>; cchaffin@alabamarivers.org <cchaffin@alabamarivers.org>;
 clowry@alabamarivers.org <clowry@alabamarivers.org>; gjobsis@americanrivers.org
 <gjobsis@americanrivers.org>; kmo0025@auburn.edu <kmo0025@auburn.edu>; devridr@auburn.edu
 <devridr@auburn.edu>; irwiner@auburn.edu <irwiner@auburn.edu>; wright2@aces.edu <wright2@aces.edu>;
 lgallen@balch.com <lgallen@balch.com>; jhancock@balch.com <jhancock@balch.com>; allan.creamer@ferc.gov
 <allan.creamer@ferc.gov>; rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; sarah.salazar@ferc.gov
 <sarah.salazar@ferc.gov>; monte.terhaar@ferc.gov <monte.terhaar@ferc.gov>; gene@wedoweelakehomes.com
 <gene@wedoweelakehomes.com>; kate.cosnahan@kleinschmidtgroup.com
 <kate.cosnahan@kleinschmidtgroup.com>; colin.dinken@kleinschmidtgroup.com
 <colin.dinken@kleinschmidtgroup.com>; amanda.fleming@kleinschmidtgroup.com
 <amanda.fleming@kleinschmidtgroup.com>; chris.goodell@kleinschmidtgroup.com
 <chris.goodell@kleinschmidtgroup.com>; henry.mealing@kleinschmidtgroup.com
 <henry.mealing@kleinschmidtgroup.com>; jason.moak@kleinschmidtgroup.com
 <jason.moak@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com
 <kelly.schaeffer@kleinschmidtgroup.com>; jesse.cunningham@msn.com <jesse.cunningham@msn.com>;
 mdollar48@gmail.com <mdollar48@gmail.com>; drheinzen@charter.net <drheinzen@charter.net>;
 sforehand@russelllands.com <sforehand@russelllands.com>; 1942jthompson420@gmail.com
 <1942jthompson420@gmail.com>; nancyburnes@centurylink.net <nancyburnes@centurylink.net>;
 sandnfrench@gmail.com <sandnfrench@gmail.com>; lgarland68@aol.com <lgarland68@aol.com>;
 rbmorris222@gmail.com <rbmorris222@gmail.com>; Ira Parsons (irapar@centurytel.net) <irapar@centurytel.net>;
 mitchell.reid@tnc.org <mitchell.reid@tnc.org>; richardburnes3@gmail.com <richardburnes3@gmail.com>;
 eilandfarm@aol.com <eilandfarm@aol.com>; athall@fujifilm.com <athall@fujifilm.com>; ebt.drt@numail.org
 <ebt.drt@numail.org>; georgettraylor@centurylink.net <georgettraylor@centurylink.net>;
 beckyrainwater1@yahoo.com <beckyrainwater1@yahoo.com>; dbronson@charter.net <dbronson@charter.net>;
 wmcampbell218@gmail.com <wmcampbell218@gmail.com>; jec22641@aol.com <jec22641@aol.com>;
 sonjaholloman@gmail.com <sonjaholloman@gmail.com>; butchjackson60@gmail.com
 <butchjackson60@gmail.com>; donnamat@aol.com <donnamat@aol.com>; goxford@centurylink.net
 <goxford@centurylink.net>; mhpwedowee@gmail.com <mhpwedowee@gmail.com>; jerrelshell@gmail.com
 <jerrelshell@gmail.com>; bsmith0253@gmail.com <bsmith0253@gmail.com>; inspector_003@yahoo.com

<inspector_003@yahoo.com>; paul.trudine@gmail.com <paul.trudine@gmail.com>; lindastone2012@gmail.com <lindastone2012@gmail.com>; granddadth@windstream.net <granddadth@windstream.net>; trayjim@bellsouth.net <trayjim@bellsouth.net>; straylor426@bellsouth.net <straylor426@bellsouth.net>; robert.a.allen@usace.army.mil <robert.a.allen@usace.army.mil>; randall.b.harvey@usace.army.mil <randall.b.harvey@usace.army.mil>; james.e.hathorn.jr@sam.usace.army.mil <james.e.hathorn.jr@sam.usace.army.mil>; lewis.c.sumner@usace.army.mil <lewis.c.sumner@usace.army.mil>; jonas.white@usace.army.mil <jonas.white@usace.army.mil>; gordon.lisa-perras@epa.gov <gordon.lisa-perras@epa.gov>; holliman.daniel@epa.gov <holliman.daniel@epa.gov>; jennifer_grunewald@fws.gov <jennifer_grunewald@fws.gov>; jeff_powell@fws.gov <jeff_powell@fws.gov>; jeff_duncan@nps.gov <jeff_duncan@nps.gov>

HAT 1,

Alabama Power Company will be hosting a series of HAT meetings on **Wednesday, September 11, 2019 at the Oxford Civic Center**, 401 Mccullars Ln, Oxford, AL 36203. The HAT 1 meeting will be from **9:00 to 11:00**. The purpose of the HAT 1 meeting is to review the models, model assumptions, inputs and scenarios, and to review the schedule for deliverables and respond to stakeholder questions on the models. This is for both the Operating Curve Change Feasibility Analysis and the Downstream Release Alternatives studies. Note that Alabama Power will not be presenting results of any of the modeling efforts at this meeting; however we will be explaining how the analyses will provide results.

Please RSVP by Friday, September 6, 2019. Lunch will be provided (~11:45) so please indicate any food allergies or vegetarian preferences on or before September 6, 2019. I encourage everyone to attend in person. If this is not feasible, we are also offering a Skype option (info below). It would be ideal to join on your computer as we will be viewing presentations and maps.

If you have any questions about the agenda or meeting, please email or call me at ARSEGARS@southernco.com or (205) 257-2251.

[Join Skype Meeting \[meet.lync.com\]](https://meet.lync.com)

Trouble Joining? [Try Skype Web App \[meet.lync.com\]](https://meet.lync.com)

Join by phone

Toll number: +1 (207) 248-8024

[Find a local number \[dialin.lync.com\]](https://dialin.lync.com)

Conference ID: 892052380

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Wednesday, August 14, 2019 2:54 PM
To: 'Elise Irwin'
Subject: Netica meeting
Attachments: APC Parking Map.pdf

Hi Elise,

We'll be meeting next Thursday, 8/22, at APC Corporate Headquarters. Attached is a map that shows parking in the area. The APC Parking lots are for visitors. When you arrive, you can either give me a call directly or let the person at the desk in the atrium know you're here to see me and they'll call. I'll need to come down and get you. Also, you need your driver's license to get a visitor badge.

I figure we'll eat lunch when you arrive at 11 and then we can dive into Netica. Let me know if you have any questions.

See you next week,

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Thursday, August 15, 2019 3:28 PM
To: Sarah Salazar
Cc: Allan Creamer; Rachel McNamara; Monte Terhaar (CTR); Kyrstin Wallach; Stephen Bowler
Subject: RE: HAT 1 meeting - September 11, 2019

We have found that Skype works best if you have it call your desk or cell phone, in lieu of using the speakers on your computer. An alternative is to call the number directly from your phone. Then click on the link and choose "Don't join audio." Hopefully one of these will work!

Thanks!

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Sarah Salazar <Sarah.Salazar@ferc.gov>
Sent: Tuesday, August 13, 2019 1:55 PM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR) <Monte.Terhaar@ferc.gov>; Kyrstin Wallach <Kyrstin.Wallach@ferc.gov>; Stephen Bowler <Stephen.Bowler@ferc.gov>
Subject: RE: HAT 1 meeting - September 11, 2019

EXTERNAL MAIL: Caution Opening Links or Files

Good afternoon Angie,

Thank you for the information about the HAT 1 & 2 meetings in September. As with the HAT 3 mtg., we won't be able to attend in person, but some of us plan to participate by phone. I meant to confirm that I saw the call-in and skype info. in your previous email too. We will join by phone and/or Skype so that we can follow along with the slides as you present. I say and/or because sometimes our Skype sound works and other times it doesn't. We look forward to the meetings!

Thanks again,

[Sarah L. Salazar](#) ✦ *Environmental Biologist* ✦ *Federal Energy Regulatory Commission* ✦ *888 First St, NE, Washington, DC 20426* ✦ *(202) 502-6863*
🌱 *Please consider the environment before printing this email.*

From: Anderegg, Angela Segars [<mailto:ARSEGARS@southernco.com>]
Sent: Tuesday, August 13, 2019 2:19 PM
To: APC Harris Relicensing <g2apchr@southernco.com>
Subject: HAT 1 meeting - September 11, 2019

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Conference ID: 892052380

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Wednesday, August 21, 2019 9:13 AM
To: Clark, Maria
Subject: RE: HAT 3 meeting - T&E study plan
Attachments: HAT 3 meeting - T&E Study Plan

Hi Maria,

Attached is the email that went out to HAT 3 with the call in info for August 27th.

Thanks!

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Clark, Maria <Clark.Maria@epa.gov>
Sent: Wednesday, August 21, 2019 8:04 AM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Cc: Clark, Maria <Clark.Maria@epa.gov>
Subject: RE: HAT 3 meeting - T&E study plan
Importance: High

EXTERNAL MAIL: Caution Opening Links or Files

Good morning Angie!

Any news regarding this request? Thank you so much!!
Maria

From: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Sent: Thursday, July 25, 2019 12:39 PM
To: Clark, Maria <Clark.Maria@epa.gov>
Subject: RE: HAT 3 meeting - T&E study plan

Hi Maria,

We're reaching out to the conference center on the best option for calling in. I'll send out info when we hear back.

Thanks!

Angie Anderegg

Hydro Services
(205)257-2251

arsegars@southernco.com

From: Clark, Maria <Clark.Maria@epa.gov>
Sent: Tuesday, July 23, 2019 2:32 PM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Subject: FW: HAT 3 meeting - T&E study plan
Importance: High

EXTERNAL MAIL: Caution Opening Links or Files

Dear Angie,

How are you? I can't believe the summer is almost gone.

Is there any chance to connect via internet and/or phone to attend this meeting?

Thank you!

Maria B. Clark

NEPA Section - Region 4
Strategic Programs Office
U.S. Environmental Protection Agency
61 Forsyth, Street South West
Atlanta, GA 30303
404-562-9513

From: APC Harris Relicensing <g2apchr@southernco.com>
Sent: Monday, July 22, 2019 11:10 AM
To: APC Harris Relicensing <g2apchr@southernco.com>
Subject: HAT 3 meeting - T&E study plan

HAT 3,

We will have a HAT 3 meeting on August 27th from 10:00 am – 2:00 pm at the Wendell Mitchell Conference Center at Lurleen B. Wallace Community College in Greenville (750 Greenville By-Pass, Greenville, AL 36037). The purpose of this meeting is to discuss the GIS overlays and map and the need for field verification for the T&E Study Plan. Please RSVP by August 20th if you plan to attend.

Thanks,

Angie Anderegg
Hydro Services
(205)257-2251
arsegars@southernco.com

APC Harris Relicensing

From: Gauldin, Keith <Keith.Gauldin@dcnr.alabama.gov>
Sent: Thursday, August 22, 2019 8:18 AM
To: Anderegg, Angela Segars
Subject: RE: Skyline WMA recreation use data
Attachments: ALABAMA MAN-DAY & GAME HARVEST EST w Permits.docx; ALABAMA MAN-DAY & GAME HARVEST EST.docx

EXTERNAL MAIL: Caution Opening Links or Files

Good morning Andrea,

We have a couple of methods that we use, recently, we've implemented a self-service check in box that will improve our estimates. Please review the attached documents and let me know if you have any questions.

Regards,
keith

From: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Sent: Thursday, August 15, 2019 3:32 PM
To: Gauldin, Keith <Keith.Gauldin@dcnr.alabama.gov>
Subject: RE: Skyline WMA recreation use data

Hi Keith,

A couple questions. How are man-days hunted and harvest estimated? And how is man-day defined?

Thanks!

Angie Anderegg
Hydro Services
(205)257-2251
arsegars@southernco.com

From: Gauldin, Keith <Keith.Gauldin@dcnr.alabama.gov>
Sent: Monday, August 12, 2019 9:36 AM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Subject: RE: Skyline WMA recreation use data

EXTERNAL MAIL: Caution Opening Links or Files

Good morning Angie,

Attached is the requested information, please let me know if you have any questions.

Regards,
Keith

From: Anderegg, Angela Segars <ARSEGARS@southernco.com>

Sent: Thursday, August 8, 2019 12:22 PM

To: Gauldin, Keith <Keith.Gauldin@dcnr.alabama.gov>

Subject: Skyline WMA recreation use data

Hi Keith,

As you are aware, we are in the process of relicensing the Harris Hydroelectric Project with the Federal Energy Regulatory Commission. As part of the process, Alabama Power is required to obtain information on recreation use within the Project Boundary. Could you please provide information on recreation use at Skyline for the past several years? Specifically, we are looking for numbers of deer and turkey hunters.

Also, I saw online that Frank Allen is the point of contact for obtaining permits at Skyline. Should he be added to our stakeholder list for relicensing? If so, would you mind sending me his email address?

Please let me know if you have any questions or would like to discuss any of the details.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

MAN-DAYS HUNTED AND HARVEST ESTIMATES USED IN ALABAMA HUNTING SUMMARIES

By: Steve Bryant, WMA Game Harvest Project Leader

Questions occasionally arise requesting how information for the Alabama Statewide Game Harvest Report or the Alabama WMA Game Harvest Report are derived. These numbers are deduced in a variety of ways.

Both reports are attempting to measure the parameters of hunting activity commonly called pressure and the number of animals harvested. Hunting pressure is measured in man-days, any hunting activity for any length of time is considered a man-day. For animals with a bag limit of one per day it is possible to limit out within minutes of initiating a hunt, this is a rare occurrence. Hunting activity typically coincides with expected peak game movement times or other parameters which would improve the odds of success for a hunter. These times are typically early morning and late afternoon. Observation for decades has confirmed that hunting activity follows patterns. Deer, Turkey, Waterfowl are normally hunted sunrise to mid-morning, another peak period occurs in the afternoon from mid-afternoon to sundown. If you hunt both periods it is still considered one man-day. Small game hunting is usually a bit more leisurely with hunting early morning around 7:00AM to noon, and a second period mid-afternoon to sundown. Any variation of these time frames is considered a man-day of pressure.

For the Statewide Game Harvest Survey, a specified number (the sample) of license buyers are randomly selected and contacted after the hunting season to ask them questions regarding their hunting activities and harvest. These numbers are then expanded to the total number of licenses sold to arrive at estimates for total man-days used for pursuing a given species and the total harvest for that species.

The WMA Harvest Report is not as statistically oriented. It relies primarily on information gathered by the employees on a WMA at a check station, making vehicle counts during hunting time, and during their other routine work activities to make incidental observations to collect raw data with which to make a season estimate. Using incidental observation is particularly true for small game species that have long open seasons and are widely dispersed such as rabbit, squirrel, raccoon, pig, and other species that are highly adaptive and not dependent on a restricted habitat. For these species employees should make notes on activity observed and if possible, talk to the hunters to get the numbers on days hunted and their success rate. In many cases all that is needed is to observe where a vehicle is parked to know what they are hunting. A vehicle parked adjoining mature hardwoods if a deer hunt is not in progress likely indicates a squirrel hunter. In some cases, the employee would look in the windows of a vehicle and get other clues such as gun case, bow case, ammunition etc. to arrive at a conclusion on what species is being hunted. In some instances, employees talk with hunters when they are not hunting to ask how many days they hunted this year and about their harvest. This information is provided to the WMA biologist who will assess the information and make the man-day and harvest estimate.

For species that are found in a relatively confined area such as waterfowl or dove. The local WMA biologist and their staff can check these locations to interview hunters and look at the actual game taken. For dove it is relatively easy because they are only hunted extensively during the beginning of the season, primarily during the early weeks of September. The data collector will ride around the field count the number of vehicles then set up at an exit point. As each vehicle exits information is collected on number of hunters in vehicle and the harvest. That information is expanded to the number of vehicles that did not pass through the exit point where data is being collected. In this situation you can get very specific regarding the harvest and count hatching year dove and adult dove.

Data collection from waterfowl hunters is the most comprehensive of all. It is a long season, 60 days. However, the hunters can be easily accessed by going to the locations where they are concentrated, boat ramps, here data is collected on number of hours hunted and harvest by species, mallard, gadwall, etc. These check points are operated during the peak hunting times, primarily weekends, morning, and evening. A significant amount of data is collected over the course of the season and is expanded to cover the days when data was not collected but possibly some vehicle counts were made. In the final analysis you will have a good estimate of the average number of hours of a hunt, average number of birds taken per hunt, hours/duck, and the species composition for the season. This information is reported to the U S Fish & Wildlife Service and is incorporated in the discussions for the setting of the following season along with many other factors.

Deer hunter man-days and harvest was historically easy to collect and very accurate. This was during the period when daily permits were issued for each hunt day and the hunters felt compelled to bring their harvest by a check station operated by conservation personnel to provide biological data from each deer harvested. This would include gender, age, antler points, antler measurements, and general body condition. Data from that period is very accurate. However, because deer hunt dates are set up almost a full year in advance of when the hunt happens environmental conditions can drastically affect participation and therefore harvest. This resulted in many unproductive days operating check stations. Slowly during the 21st century many if not all of Alabama's WMAs shifted to the season map permit. This had an advantage for both the hunter and the WMA staff, primarily being everyone did not have to get up at 3:00AM to issue and receive the daily permit. However, an unexpected result happened when the wildlife section shifted to the map permit. The hunters interpreted this as deer managers not being interested in biological data from deer that was collected at the former check stations under the daily permit system. Even though the check stations were being operated and regulations state all deer harvested must be submitted at a check station for biological data collection, the deer being turned in declined significantly. This had led to another attempt by the wildlife section to improve data collection for all species and will be discussed later in this paper. In order to gain insight into deer hunting man-days under the season map permit era employees make vehicle counts of hunters on the area on the way to operate the check stations when a deer gun hunt is in progress. These vehicle counts are used to estimate hunting pressure. The procedure and computations used were developed by Chris Cook, Alabama Deer Project Leader. Archery deer hunting pressure is obtained by the incidental observation method and harvest is provided primarily by the hunters. Information stations are provided at key access points where archery hunters can record their harvest data. Small game hunters can also utilize these information stations, but their cooperation has traditionally not been proactive. Fortunately, or Unfortunately depending on your view point the gun deer hunters have provided some partial data at these locations also. From the deer managers point of view yes, the hunter provided some information, we know a deer was harvested, but we did not get all the biological information we need such as a jawbone to determine age, so that the age structure of the female and male segments of the population can be assessed.

Turkey hunting man-days and harvest has always been by incidental observation and the hunter using the information stations to record their harvest. In general turkey hunters are more cooperative about providing harvest information. Another method that is providing information to biologist is Facebook. This can provide insight into both data reported at the WMA and what is not reported.

Game harvest and hunting pressure estimates is both an art and science and depends on the diligence of both the hunters utilizing an area and the employees who work there. Negligence on anyone's part results in lost data and diminished opportunity to better manage the species which we all enjoy.

A new era is being implemented by the wildlife section that has the potential to benefit greatly the species we manage and the hunters who enjoy them. The Daily Permit System will be mandatory for everyone hunting any species in Wildlife Section District II during the 2019-2020 season and beyond. Under this system Daily Permits are provided at many convenient access points to all D-2 WMA's. Hunters are required to get a permit, complete an entry section, tear off that part of it and deposit in a lockbox when they enter the WMA and report on the remaining section the results of their hunt for the day also deposited in the lockbox. There will be self help instructions on collection of the biological data if the check stations are closed. Check stations will still be operated on peak use days, but we do expect to gain a better understanding of hunting activity and harvest for all species using the Daily Permits because theoretically we should get 100% data. Of course, no one in the wildlife section is naive enough to believe we will get perfect cooperation, but we do expect to have a baseline of data better than ever before. If further explanation is needed contact me at Steve.Bryant@dcnr.alabama.gov or (256) 435-5422

CHECK IN

SPECIES HUNTED (Circle as many as apply)

Deer	Woodcock	Waterfowl	Hog
Turkey	Gallinule	Squirrel	OTHER:
Dove	Rail	Rabbit	_____
Quail	Snipe	Raccoon	_____

Hunt Date: _____ Telephone #: _____

Print Name: _____

County of Residence: _____ State of Residence: _____



WILDLIFE MANAGEMENT AREA DAILY PERMIT

#00001

Check in portion **MUST** be completed and put in permit box **BEFORE** engaging in any activity on the WMA.

CHECK OUT



WILDLIFE MANAGEMENT AREA DAILY PERMIT

#00001

Check out portion **must be carried by each user** while on the WMA. Check out portion **MUST** be completed and put in permit box at the conclusion of the holder's activity within WMA.

Print Name: _____

Hunt (TIME IN): _____ (TIME OUT): _____

Telephone #: _____

FIRST TIME TO HUNT A WMA? YES NO

WMA DAILY PERMIT • HUNT REPORT

Check out portion must be carried by each user while on the WMA. This hunt report **MUST** be completed and put in permit box at the conclusion of the holder's activity within the WMA.

DEER HARVESTED (Circle): **ANTLERED** / **ANTLERLESS**
Male or Female

Chest Girth _____ # of Points _____ Inside Spread _____
Main Beam Length Left _____ Main Beam Length Right _____
Beam Cir. (above burr) Left _____ Beam Cir. Right _____

Method (Circle): Gun Primitive Weapon Archery

SPECIES HUNTED (Circle as many as apply)

Deer	Woodcock	Waterfowl	Hog
Turkey	Gallinule	Squirrel	OTHER:
Dove	Rail	Rabbit	_____
Quail	Snipe	Raccoon	_____

NUMBER HARVESTED

(Enter 0 if you hunted a species and none were bagged)

DEER _____	WOODCOCK _____	RACCOON _____
SQUIRRELS _____	GALLINULE _____	HOGS _____
RABBITS _____	RAIL _____	OPOSSUM _____
DOVES _____	SNIPE _____	
QUAIL _____	WATERFOWL _____	

TURKEY HARVESTED: Y or N

Spur Length: R _____ L _____ Beard Length _____

Other Species/Comments: _____

Hunters: Complete information on both sides of check out portion of the permit. Failure to comply with WMA regulations is a Class C Misdemeanor and subject to fines up to \$500 for first offense.

Report your deer or turkey harvest within 48 hours and record your Confirmation # on your harvest record.



HELP STOP POACHING BY CALLING OPERATION GAMEWATCH (800) 272-4263



*Hunters must complete the hunt report on the back of this permit.

CHECK IN

WMA DAILY PERMIT

Failure to comply with WMA regulations is a Class 3 misdemeanor and subject to fines up to \$500 for first offense.

#00002

Hunt Date: _____ Telephone # _____

Print Name: _____

County of Residence: _____ State of Residence: _____



WILDLIFE MANAGEMENT AREA DAILY PERMIT

Check in portion **MUST** be completed and put in permit box **BEFORE** engaging in any activity on the WMA.

CHECK OUT



WILDLIFE MANAGEMENT AREA DAILY PERMIT

#00002

Check out portion **must be carried by each user** while on the WMA. Check out portion **MUST** be completed and put in permit box at the conclusion of the holder's activity within WMA.

Print Name: _____

Hunt (TIME IN): _____ (TIME OUT): _____

Telephone # _____

FIRST TIME TO HUNT A WMA? YES NO

SPECIES HUNTED (Circle as many as apply)

Deer	Woodcock	Waterfowl	Hog
Turkey	Gallinule	Squirrel	OTHER: _____
Dove	Rail	Rabbit	_____
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HELP STOP POACHING BY CALLING
OPERATION GAMEWATCH (800) 272-4263

WMA DAILY PERMIT • HUNT REPORT

Check out portion must be carried by each user while on the WMA. This hunt report **MUST** be completed and put in permit box at the conclusion of the holder's activity within the WMA.

NUMBER HARVESTED

(Enter 0 if you hunted a species and none were bagged)

BLACK DUCK _____	SCAUP _____	GALLINULE _____
BUFFLEHEAD _____	SCOTER _____	RAIL _____
CANVASBACK _____	G.W TEAL _____	SNIPE _____
GADWALL _____	B.W. TEAL _____	WOODCOCK _____
GOLDENEYE _____	WIGEON _____	FOX SQUIRREL _____
H. MERGANSER _____	WOOD DUCK _____	GRAY SQUIRREL _____
MALLARD _____	CANADA GOOSE _____	RABBITS _____
MOTTLED _____	SNOW GOOSE _____	RACCOON _____
PINTAIL _____	WHITE-FRONTED _____	OPOSSUM _____
REDHEAD _____	GOOSE _____	FOX _____
RINGNECK _____	COOT _____	BOBCAT _____
RUDDY _____	DOVES _____	HOGS _____
SHOVELER _____	QUAIL _____	

DEER HARVESTED (Circle): ANTLERED / ANTLERLESS
MALE or FEMALE

Chest Girth _____ # of Points _____ Inside Spread _____
Main Beam Length Left _____ Main Beam Length Right _____
Beam Cir. (above burr) Left _____ Beam Cir. Right _____

Method (Circle): Gun Primitive Weapon Archery

Hunters: Complete information on both sides of check out portion of the permit. Failure to comply with WMA regulations is a Class C Misdemeanor and subject to fines up to \$500 for first offense.

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The WMA Harvest Report is not as statistically oriented. It relies primarily on information gathered by the employees on a WMA at a check station, making vehicle counts during hunting time, and during their other routine work activities to make incidental observations to collect raw data with which to make a season estimate. Using incidental observation is particularly true for small game species that have long open seasons and are widely dispersed such as rabbit, squirrel, raccoon, pig, and other species that are highly adaptive and not dependent on a restricted habitat. For these species employees should make notes on activity observed and if possible, talk to the hunters to get the numbers on days hunted and their success rate. In many cases all that is needed is to observe where a vehicle is parked to know what they are hunting. A vehicle parked adjoining mature hardwoods if a deer hunt is not in progress likely indicates a squirrel hunter. In some cases, the employee would look in the windows of a vehicle and get other clues such as gun case, bow case, ammunition etc. to arrive at a conclusion on what species is being hunted. In some instances, employees talk with hunters when they are not hunting to ask how many days they hunted this year and about their harvest. This information is provided to the WMA biologist who will assess the information and make the man-day and harvest estimate.

For species that are found in a relatively confined area such as waterfowl or dove. The local WMA biologist and their staff can check these locations to interview hunters and look at the actual game taken. For dove it is relatively easy because they are only hunted extensively during the beginning of the season, primarily during the early weeks of September. The data collector will ride around the field count the number of vehicles then set up at an exit point. As each vehicle exits information is collected on number of hunters in vehicle and the harvest. That information is expanded to the number of vehicles that did not pass through the exit point where data is being collected. In this situation you can get very specific regarding the harvest and count hatching year dove and adult dove.

Data collection from waterfowl hunters is the most comprehensive of all. It is a long season, 60 days. However, the hunters can be easily accessed by going to the locations where they are concentrated, boat ramps, here data is collected on number of hours hunted and harvest by species, mallard, gadwall, etc. These check points are operated during the peak hunting times, primarily weekends, morning, and evening. A significant amount of data is collected over the course of the season and is expanded to cover the days when data was not collected but possibly some vehicle counts were made. In the final analysis you will have a good estimate of the average number of hours of a hunt, average number of birds taken per hunt, hours/duck, and the species composition for the season. This information is reported to the U S Fish & Wildlife Service and is incorporated in the discussions for the setting of the following season along with many other factors.

Deer hunter man-days and harvest was historically easy to collect and very accurate. This was during the period when daily permits were issued for each hunt day and the hunters felt compelled to bring their harvest by a check station operated by conservation personnel to provide biological data from each deer harvested. This would include gender, age, antler points, antler measurements, and general body condition. Data from that period is very accurate. However, because deer hunt dates are set up almost a full year in advance of when the hunt happens environmental conditions can drastically affect participation and therefore harvest. This resulted in many unproductive days operating check stations. Slowly during the 21st century many if not all of Alabama's WMAs shifted to the season map permit. This had an advantage for both the hunter and the WMA staff, primarily being everyone did not have to get up at 3:00AM to issue and receive the daily permit. However, an unexpected result happened when the wildlife section shifted to the map permit. The hunters interpreted this as deer managers not being interested in biological data from deer that was collected at the former check stations under the daily permit system. Even though the check stations were being operated and regulations state all deer harvested must be submitted at a check station for biological data collection, the deer being turned in declined significantly. This had led to another attempt by the wildlife section to improve data collection for all species and will be discussed later in this paper. In order to gain insight into deer hunting man-days under the season map permit era employees make vehicle counts of hunters on the area on the way to operate the check stations when a deer gun hunt is in progress. These vehicle counts are used to estimate hunting pressure. The procedure and computations used were developed by Chris Cook, Alabama Deer Project Leader. Archery deer hunting pressure is obtained by the incidental observation method and harvest is provided primarily by the hunters. Information stations are provided at key access points where archery hunters can record their harvest data. Small game hunters can also utilize these information stations, but their cooperation has traditionally not been proactive. Fortunately, or Unfortunately depending on your view point the gun deer hunters have provided some partial data at these locations also. From the deer managers point of view yes, the hunter provided some information, we know a deer was harvested, but we did not get all the biological information we need such as a jawbone to determine age, so that the age structure of the female and male segments of the population can be assessed.

Turkey hunting man-days and harvest has always been by incidental observation and the hunter using the information stations to record their harvest. In general turkey hunters are more cooperative about providing harvest information. Another method that is providing information to biologist is Facebook. This can provide insight into both data reported at the WMA and what is not reported.

Game harvest and hunting pressure estimates is both an art and science and depends on the diligence of both the hunters utilizing an area and the employees who work there. Negligence on anyone's part results in lost data and diminished opportunity to better manage the species which we all enjoy.

A new era is being implemented by the wildlife section that has the potential to benefit greatly the species we manage and the hunters who enjoy them. The Daily Permit System will be mandatory for everyone hunting any species in Wildlife Section District II during the 2019-2020 season and beyond. Under this system Daily Permits are provided at many convenient access points to all D-2 WMA's. Hunters are required to get a permit, complete an entry section, tear off that part of it and deposit in a lockbox when they enter the WMA and report on the remaining section the results of their hunt for the day also deposited in the lockbox. There will be self help instructions on collection of the biological data if the check stations are closed. Check stations will still be operated on peak use days, but we do expect to gain a better understanding of hunting activity and harvest for all species using the Daily Permits because theoretically we should get 100% data. Of course, no one in the wildlife section is naive enough to believe we will get perfect cooperation, but we do expect to have a baseline of data better than ever before. If further explanation is needed contact me at Steve.Bryant@dcnr.alabama.gov or (256) 435-5422

Attachments:

2019-20 Draft Deer/Small Game/Turkey Daily Permit

2019-20 Draft Waterfowl / Deer/Small Game Daily Permit

CHECK IN

SPECIES HUNTED (Circle as many as apply)

Deer	Woodcock	Waterfowl	Hog
Turkey	Gallinule	Squirrel	OTHER:
Dove	Rail	Rabbit	_____
Quail	Snipe	Raccoon	_____

Hunt Date: _____ Telephone #: _____

Print Name: _____

County of Residence: _____ State of Residence: _____



WILDLIFE MANAGEMENT AREA DAILY PERMIT

#00001

Check in portion **MUST** be completed and put in permit box **BEFORE** engaging in any activity on the WMA.

CHECK OUT



WILDLIFE MANAGEMENT AREA DAILY PERMIT

#00001

Check out portion **must be carried by each user** while on the WMA. Check out portion **MUST** be completed and put in permit box at the conclusion of the holder's activity within WMA.

Print Name: _____

Hunt (TIME IN): _____ (TIME OUT): _____

Telephone #: _____

FIRST TIME TO HUNT A WMA? YES NO

WMA DAILY PERMIT • HUNT REPORT

Check out portion must be carried by each user while on the WMA. This hunt report **MUST** be completed and put in permit box at the conclusion of the holder's activity within the WMA.

DEER HARVESTED (Circle): **ANTLERED** / **ANTLERLESS**
Male or Female

Chest Girth _____ # of Points _____ Inside Spread _____
Main Beam Length Left _____ Main Beam Length Right _____
Beam Cir. (above burr) Left _____ Beam Cir. Right _____

Method (Circle): Gun Primitive Weapon Archery

SPECIES HUNTED (Circle as many as apply)

Deer	Woodcock	Waterfowl	Hog
Turkey	Gallinule	Squirrel	OTHER:
Dove	Rail	Rabbit	_____
Quail	Snipe	Raccoon	_____

NUMBER HARVESTED

(Enter 0 if you hunted a species and none were bagged)

DEER _____ WOODCOCK _____ RACCOON _____
 SQUIRRELS _____ GALLINULE _____ HOGS _____
 RABBITS _____ RAIL _____ OPOSSUM _____
 DOVES _____ SNIPE _____
 QUAIL _____ WATERFOWL _____

TURKEY HARVESTED: Y or N

Spur Length: R _____ L _____ Beard Length _____

Other Species/Comments: _____

Hunters: Complete information on both sides of check out portion of the permit. Failure to comply with WMA regulations is a Class C Misdemeanor and subject to fines up to \$500 for first offense.

Report your deer or turkey harvest within 48 hours and record your Confirmation # on your harvest record.



HELP STOP POACHING BY
CALLING OPERATION
GAMEWATCH (800) 272-4263



*Hunters must complete the hunt report on the back of this permit.

CHECK IN

WMA DAILY PERMIT

Failure to comply with WMA regulations is a Class 3 misdemeanor and subject to fines up to \$500 for first offense.

#00002

Hunt Date: _____ Telephone # _____

Print Name: _____

County of Residence: _____ State of Residence: _____



WILDLIFE MANAGEMENT AREA DAILY PERMIT

Check in portion **MUST** be completed and put in permit box **BEFORE** engaging in any activity on the WMA.

CHECK OUT



WILDLIFE MANAGEMENT AREA DAILY PERMIT

#00002

Check out portion **must be carried by each user** while on the WMA. Check out portion **MUST** be completed and put in permit box at the conclusion of the holder's activity within WMA.

Print Name: _____

Hunt (TIME IN): _____ (TIME OUT): _____

Telephone # _____

FIRST TIME TO HUNT A WMA? YES NO

SPECIES HUNTED (Circle as many as apply)

Deer	Woodcock	Waterfowl	Hog
Turkey	Gallinule	Squirrel	OTHER: _____
Dove	Rail	Rabbit	_____
Quail	Snipe	Raccoon	_____



Report your deer or turkey harvest within 48 hours and record your Confirmation # on your harvest record.

*Hunters must complete the hunt report on the back of this permit.

HELP STOP POACHING BY CALLING
OPERATION GAMEWATCH (800) 272-4263

WMA DAILY PERMIT • HUNT REPORT

Check out portion must be carried by each user while on the WMA. This hunt report **MUST** be completed and put in permit box at the conclusion of the holder's activity within the WMA.

NUMBER HARVESTED

(Enter 0 if you hunted a species and none were bagged)

BLACK DUCK _____	SCAUP _____	GALLINULE _____
BUFFLEHEAD _____	SCOTER _____	RAIL _____
CANVASBACK _____	G.W TEAL _____	SNIPE _____
GADWALL _____	B.W. TEAL _____	WOODCOCK _____
GOLDENEYE _____	WIGEON _____	FOX SQUIRREL _____
H. MERGANSER _____	WOOD DUCK _____	GRAY SQUIRREL _____
MALLARD _____	CANADA GOOSE _____	RABBITS _____
MOTTLED _____	SNOW GOOSE _____	RACCOON _____
PINTAIL _____	WHITE-FRONTED GOOSE _____	OPOSSUM _____
REDHEAD _____	COOT _____	FOX _____
RINGNECK _____	DOVES _____	BOBCAT _____
RUDDY _____	QUAIL _____	HOGS _____
SHOVELER _____		

DEER HARVESTED (Circle): ANTLERED / ANTLERLESS
MALE or FEMALE

Chest Girth _____ # of Points _____ Inside Spread _____
Main Beam Length Left _____ Main Beam Length Right _____
Beam Cir. (above burr) Left _____ Beam Cir. Right _____

Method (Circle): Gun Primitive Weapon Archery

Hunters: Complete information on both sides of check out portion of the permit. Failure to comply with WMA regulations is a Class C Misdemeanor and subject to fines up to \$500 for first offense.

RE: HAT 3 meeting - T&E Study Plan**APC Harris Relicensing**

Mon 8/26/2019 5:14 PM

To: APC Harris Relicensing <g2apchr@southernco.com>

Bcc amy.silvano@dcnr.alabama.gov <amy.silvano@dcnr.alabama.gov>; chris.greene@dcnr.alabama.gov <chris.greene@dcnr.alabama.gov>; damon.abernethy@dcnr.alabama.gov <damon.abernethy@dcnr.alabama.gov>; evan.lawrence@dcnr.alabama.gov <evan.lawrence@dcnr.alabama.gov>; keith.henderson@dcnr.alabama.gov <keith.henderson@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>; nick.nichols@dcnr.alabama.gov <nick.nichols@dcnr.alabama.gov>; stan.cook@dcnr.alabama.gov <stan.cook@dcnr.alabama.gov>; steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>; ken.wills@jcdh.org <ken.wills@jcdh.org>; Anderegg, Angela Segars <ARSEGARS@southernco.com>; McVicar, Ashley M <AMMcVica@southernco.com>; Anderson, Dave <DKANDERS@SOUTHERNCO.COM>; Carlee, Jason <JCARLEE@southernco.com>; Baker, Jeffery L. <JEFBAKER@southernco.com>; Chandler, Keith Edward <KECHANDL@SOUTHERNCO.COM>; Mills, Tina L. <tlmills@southernco.com>; cggoodma@southernco.com <cggoodma@southernco.com>; clowry@alabamarivers.org <clowry@alabamarivers.org>; cchaffin@alabamarivers.org <cchaffin@alabamarivers.org>; gjobsis@americanrivers.org <gjobsis@americanrivers.org>; devridr@auburn.edu <devridr@auburn.edu>; irwiner@auburn.edu <irwiner@auburn.edu>; kmo0025@auburn.edu <kmo0025@auburn.edu>; wrighr2@aces.edu <wrighr2@aces.edu>; Hancock, Jim (Balch) <jhancock@balch.com>; Allen, Leslie G. (Balch) <lgallen@balch.com>; chrisoberholster@birminghamaudubon.org <chrisoberholster@birminghamaudubon.org>; sarah.salazar@ferc.gov <sarah.salazar@ferc.gov>; allan.creamer@ferc.gov <allan.creamer@ferc.gov>; rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; monte.terhaar@ferc.gov <monte.terhaar@ferc.gov>; amanda.fleming@kleinschmidtgroup.com <amanda.fleming@kleinschmidtgroup.com>; colin.dinken@kleinschmidtgroup.com <colin.dinken@kleinschmidtgroup.com>; henry.mealing@kleinschmidtgroup.com <henry.mealing@kleinschmidtgroup.com>; jason.moak@kleinschmidtgroup.com <jason.moak@kleinschmidtgroup.com>; kate.cosnahan@kleinschmidtgroup.com <kate.cosnahan@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com <kelly.schaeffer@kleinschmidtgroup.com>; sforehand@russelllands.com <sforehand@russelllands.com>; lgarland68@aol.com <lgarland68@aol.com>; pace.wilber@noaa.gov <pace.wilber@noaa.gov>; mitchell.reid@tnc.org <mitchell.reid@tnc.org>; donnamat@aol.com <donnamat@aol.com>; trayjim@bellsouth.net <trayjim@bellsouth.net>; mhpwedowee@gmail.com <mhpwedowee@gmail.com>; straylor426@bellsouth.net <straylor426@bellsouth.net>; triciastearns@gmail.com <triciastearns@gmail.com>; wmcampbell218@gmail.com <wmcampbell218@gmail.com>; holliman.daniel@epa.gov <holliman.daniel@epa.gov>; decker.chris@epa.gov <decker.chris@epa.gov>; bill_pearson@fws.gov <bill_pearson@fws.gov>; evan_collins@fws.gov <evan_collins@fws.gov>; jeff_powell@fws.gov <jeff_powell@fws.gov>; jennifer_grunewald@fws.gov <jennifer_grunewald@fws.gov>; jeff_duncan@nps.gov <jeff_duncan@nps.gov>

 1 attachments (950 KB)

2019-8-27 HAT 3 T&E Meeting.pdf;

HAT 3,

In case you plan on calling in tomorrow and end up having technical difficulties, attached is the agenda and presentation we will be using.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

From: APC Harris Relicensing

Sent: Thursday, August 8, 2019 12:32 PM

To: 'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>

Subject: HAT 3 meeting - T&E Study Plan

HAT 3,

Below is call in information if you would prefer to call in for the August 27th meeting. If you plan to attend in person, please RSVP by August 20th so we can get an accurate headcount for lunch.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

[Join Skype Meeting \[meet.lync.com\]](#)

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Join by phone

Toll number: +1 (207) 248-8024,,55915081# (Dial-in Number)

English (United States)

[Find a local number \[dialin.lync.com\]](#)

Conference ID: 55915081

[Forgot your dial-in PIN? \[mysettings.lync.com\]](#) | [Help \[go.microsoft.com\]](#)

HAT 3,

We will have a HAT 3 meeting on August 27th from 10:00 am – 2:00 pm at the Wendell Mitchell Conference Center at Lurleen B. Wallace Community College in Greenville (750 Greenville By-Pass, Greenville, AL 36037). The purpose of this meeting is to discuss the GIS overlays and map and the need for field verification for the T&E Study Plan. Please RSVP by August 20th if you plan to attend.

Thanks,

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Wednesday, August 28, 2019 12:36 PM
To: Sarah Salazar
Subject: RE: HAT 1 meeting - September 11, 2019

Hi Sarah,

I completely agree that it will be beneficial to document our consultation with FWS on what species should continue to be reviewed, which require field verification vs desktop analysis, protocols to use, etc.

I apologize again for the phone issues yesterday. We are going to make every effort to avoid that happening again!

Thanks,

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Sarah Salazar <Sarah.Salazar@ferc.gov>
Sent: Tuesday, August 27, 2019 11:54 AM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Subject: RE: HAT 1 meeting - September 11, 2019

EXTERNAL MAIL: Caution Opening Links or Files

Hi Angie,

I have a quick follow-up comment/clarification for the HAT 3 meeting for consideration as we move forward in the first study season. When you consult with FWS, it would be really helpful if you could get their explicit comments not only regarding which species should continue to be reviewed (i.e., as our official T&E species list for the Harris Reservoir area and Skyline), but also their comments about whether or not field surveys are needed for each of the species on the list. If FWS comments that surveys are needed for any of the species, it would be ideal for them to also provide the species-specific survey protocol(s), if available, that would facilitate their review under ESA. Having all of these types of comments on our record would facilitate ESA consultation throughout the licensing process. Feel free to call if you have any questions about this follow-up comment.

Thanks again for the opportunity to participate in the meeting today!

[Sarah L. Salazar](#) ✦ *Environmental Biologist* ✦ *Federal Energy Regulatory Commission* ✦ 888 First St, NE, Washington, DC 20426 ✦ (202) 502-6863
🌱 *Please consider the environment before printing this email.*

From: Anderegg, Angela Segars [<mailto:ARSEGARS@southernco.com>]
Sent: Monday, August 26, 2019 1:04 PM
To: Sarah Salazar <Sarah.Salazar@ferc.gov>
Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR)

<Monte.Terhaar@ferc.gov>; Kyrstin Wallach <Kyrstin.Wallach@ferc.gov>; Stephen Bowler <Stephen.Bowler@ferc.gov>; Anderson, Dave <DKANDERS@SOUTHERNCO.COM>

Subject: RE: HAT 1 meeting - September 11, 2019

Hey Sarah,

Yes, if you have any technical difficulties call Dave Anderson (205-257-1398). He has the most experience in our group working out snags with Skype.

Talk to you tomorrow!

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

From: Sarah Salazar <Sarah.Salazar@ferc.gov>

Sent: Monday, August 26, 2019 10:36 AM

To: Anderegg, Angela Segars <ARSEGARS@southernco.com>

Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR) <Monte.Terhaar@ferc.gov>; Kyrstin Wallach <Kyrstin.Wallach@ferc.gov>; Stephen Bowler <Stephen.Bowler@ferc.gov>

Subject: RE: HAT 1 meeting - September 11, 2019

EXTERNAL MAIL: Caution Opening Links or Files

Ok, thank you for the heads up Angie. We can call in for the audio. I will try to connect 5 or 10 min. before the mtg. starts. Is there a preferred number we should call if we experience any technical difficulties?

Sarah L. Salazar ✦ *Environmental Biologist* ✦ *Federal Energy Regulatory Commission* ✦ *888 First St, NE, Washington, DC 20426* ✦ *(202) 502-6863*

♻️ *Please consider the environment before printing this email.*

From: Anderegg, Angela Segars [<mailto:ARSEGARS@southernco.com>]

Sent: Thursday, August 15, 2019 4:28 PM

To: Sarah Salazar <Sarah.Salazar@ferc.gov>

Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR) <Monte.Terhaar@ferc.gov>; Kyrstin Wallach <Kyrstin.Wallach@ferc.gov>; Stephen Bowler <Stephen.Bowler@ferc.gov>

Subject: RE: HAT 1 meeting - September 11, 2019

We have found that Skype works best if you have it call your desk or cell phone, in lieu of using the speakers on your computer. An alternative is to call the number directly from your phone. Then click on the link and choose "Don't join audio." Hopefully one of these will work!

Thanks!

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

From: Sarah Salazar <Sarah.Salazar@ferc.gov>
Sent: Tuesday, August 13, 2019 1:55 PM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Cc: Allan Creamer <Allan.Creamer@ferc.gov>; Rachel McNamara <Rachel.McNamara@ferc.gov>; Monte Terhaar (CTR) <Monte.Terhaar@ferc.gov>; Kyrstin Wallach <Kyrstin.Wallach@ferc.gov>; Stephen Bowler <Stephen.Bowler@ferc.gov>
Subject: RE: HAT 1 meeting - September 11, 2019

EXTERNAL MAIL: Caution Opening Links or Files

Good afternoon Angie,

Thank you for the information about the HAT 1 & 2 meetings in September. As with the HAT 3 mtg., we won't be able to attend in person, but some of us plan to participate by phone. I meant to confirm that I saw the call-in and skype info. in your previous email too. We will join by phone and/or Skype so that we can follow along with the slides as you present. I say and/or because sometimes our Skype sound works and other times it doesn't. We look forward to the meetings!

Thanks again,

Sarah L. Salazar ✨ *Environmental Biologist* ✨ *Federal Energy Regulatory Commission* ✨ *888 First St, NE, Washington, DC 20426* ✨ *(202) 502-6863*
🌱 *Please consider the environment before printing this email.*

From: Anderegg, Angela Segars [<mailto:ARSEGARS@southernco.com>]
Sent: Tuesday, August 13, 2019 2:19 PM
To: APC Harris Relicensing <g2apchr@southernco.com>
Subject: HAT 1 meeting - September 11, 2019

HAT 1,

Alabama Power Company will be hosting a series of HAT meetings on **Wednesday, September 11, 2019 at the Oxford Civic Center**, 401 Mccullars Ln, Oxford, AL 36203. The HAT 1 meeting will be from **9:00 to 11:00**. The purpose of the HAT 1 meeting is to review the models, model assumptions, inputs and scenarios, and to review the schedule for deliverables and respond to stakeholder questions on the models. This is for both the Operating Curve Change Feasibility Analysis and the Downstream Release Alternatives studies. Note that Alabama Power will not be presenting results of any of the modeling efforts at this meeting; however we will be explaining how the analyses will provide results.

Please RSVP by Friday, September 6, 2019. Lunch will be provided (~11:45) so please indicate any food allergies or vegetarian preferences on or before September 6, 2019. I encourage everyone to attend in person. If this is not feasible, we are also offering a Skype option (info below). It would be ideal to join on your computer as we will be viewing presentations and maps.

If you have any questions about the agenda or meeting, please email or call me at ARSEGARS@southernco.com or (205) 257-2251.

[Join Skype Meeting \[meet.lync.com\]](https://meet.lync.com)

Trouble Joining? [Try Skype Web App \[meet.lync.com\]](https://meet.lync.com)

Join by phone

Toll number: +1 (207) 248-8024

[Find a local number \[dialin.lync.com\]](#)

Conference ID: 892052380

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

APC Harris Relicensing

From: Stan Nelson <snelson@nelsonandco.com>
Sent: Thursday, August 29, 2019 3:45 PM
To: Mark Carter
Cc: Anderegg, Angela Segars; Bearden, Justin; Edge, William; Robert Fletcher; Graham, Stacey A.; Haslbauer, Jennifer; Jeremy Jessup; David Moore; james.R.Schauer@apc.com; Smith, Sheila C.; jctinney@hotmail.com; abwhite@adem.state.al.us; recaton@adem.alabama.gov; john.taylor@al.usda.gov; estreett@mccarter.com; vester.whitmore@gmail.com; mprandolph@gmail.com
Subject: Re: Request to Modify RL Harris Res. Land Use Plan For Randolph Co Raw Water Intake

EXTERNAL MAIL: Caution Opening Links or Files

2 pm Central Time.

Stan Nelson, PE
NELSON & COMPANY, PC - Consulting Engineers
400 Emery Drive, Suite 300
Birmingham, AL 35244-4548
Work (205) 989-5690
Fax (205) 989-5672
Cell (205) 585-4600
snelson@nelsonandco.com

On Thu, Aug 29, 2019 at 3:44 PM Mark Carter <Mark.Carter@ferc.gov> wrote:
Is this 2pm CST? I have a conflict at 2pm EST but can participate at 2pm CST.

Thanks,

Mark Carter
Environmental Biologist
Hydropower Administration and Compliance
FERC - Atlanta Regional Office
Phone: (678) 245-3083
Fax: (678) 245-3010

From: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Sent: Thursday, August 29, 2019 4:21:17 PM
To: snelson@nelsonandco.com <snelson@nelsonandco.com>
Cc: Bearden, Justin <JBEARDEN@SOUTHERNCO.COM>; Mark Carter <Mark.Carter@ferc.gov>; Edge, William <WAEDGE@southernco.com>; Robert Fletcher <Robert.Fletcher@ferc.gov>; Graham, Stacey A. <SGRAHAM@SOUTHERNCO.COM>; Haslbauer, Jennifer <jhaslbauer@adem.alabama.gov>; Jeremy Jessup <Jeremy.Jessup@ferc.gov>; 'David Moore' <djmoore@adem.alabama.gov>; james.R.Schauer@apc.com <james.R.Schauer@apc.com>; Smith, Sheila C. <SCSMITH@southernco.com>; jctinney@hotmail.com <jctinney@hotmail.com>; abwhite@adem.state.al.us <abwhite@adem.state.al.us>; recaton@adem.alabama.gov <recaton@adem.alabama.gov>; john.taylor@al.usda.gov <john.taylor@al.usda.gov>; estreett@mccarter.com

<estreett@mccarter.com>; vester.whitmore@gmail.com <vester.whitmore@gmail.com>; mprandolph@gmail.com <mprandolph@gmail.com>

Subject: FW: Request to Modify RL Harris Res. Land Use Plan For Randolph Co Raw Water Intake

Hi Stan,

I am available for a conference call Tuesday, September 3 at 2 PM.

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

From: Smith, Sheila C. <SCSMITH@southernco.com>

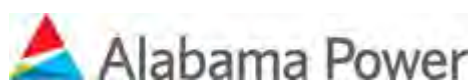
Sent: Thursday, August 29, 2019 2:53 PM

To: Anderegg, Angela Segars <ARSEGARS@southernco.com>

Subject: FW: Request to Modify RL Harris Res. Land Use Plan For Randolph Co Raw Water Intake

Sheila Smith / Land Supervisor

Office: 256-396-5093 / Cell: 256-610-3243





From: Stan Nelson <snelson@nelsonandco.com>
Sent: Thursday, August 29, 2019 2:26 PM
To: aanderegg@southernco.com
Cc: Bearden, Justin <JBEARDEN@SOUTHERNCO.COM>; Mark Carter <mark.carter@ferc.gov>; Edge, William <WAEDGE@southernco.com>; Robert Fletcher <robert.fletcher@ferc.gov>; Graham, Stacey A. <SGRAHAM@SOUTHERNCO.COM>; Haslbauer, Jennifer <jhaslbauer@adem.alabama.gov>; jeremy.jessup@ferc.gov; djmoore@adem.alabama.gov; James.R.Schauer@apc.com; Smith, Sheila C. <SCSMITH@southernco.com>; John Tinney <ictinney@hotmail.com>; White, Aimee B <ABWhite@adem.state.al.us>; Caton, Ross E <recaton@adem.alabama.gov>; John Taylor <john.taylor@al.usda.gov>; estreett@mccarter.com; vester.whitmore@gmail.com; Mark Prestridge <mprandolphwater@gmail.com>
Subject: Request to Modify RL Harris Res. Land Use Plan For Randolph Co Raw Water Intake

EXTERNAL MAIL: Caution Opening Links or Files

Please see the attached request.

Stan Nelson, PE
NELSON & COMPANY, PC - Consulting Engineers
400 Emery Drive, Suite 300
Birmingham, AL 35244-4548
Work (205) 989-5690
Fax (205) 989-5672
Cell (205) 585-4600
snelson@nelsonandco.com



NELSON & COMPANY, PC

Civil & Environmental Engineering
400 Emery Drive, Suite 300
Birmingham, Alabama 35244
(205) 989-5690 (205) 989-5672 FAX
Cell/Car (205) 585-4600
E-mail - SNelson@NelsonAndCo.com

Ms. Angie Anderegg, Project Manager,
Alabama Power Company - Hydro Re-licensing
600 North 18th Street
Birmingham, AL 35203

August 29, 2019

REF: Hwy 48 Raw Water Intake on RL Harris Reservoir
Owner: Randolph County Water, Sewer and Fire Protection Authority
Project: 111-46

Dear Anderegg:

We are the consulting engineers for the Randolph County Water, Sewer and Fire Protection Authority (here in after call the Authority). Over the past year, the Authority has investigated building a water treatment plant upstream of the RL Harris Reservoir on the Little Tallapoosa River. After much study and consultation with ADEM, it has been determined that the site studied on the Little Tallapoosa River would not meet the short term or long term needs of the Authority.

The Authority and ADEM agree that the Highway 48 Raw Water Pumping Station site on HL Harris Reservoir has superior water quality and will meet the long term needs of the Authority and is a far superior site because:

1. Ability to withdraw water from multiple water levels to get the highest quality raw water, (See attached very preliminary Drawings 111-46-4 and 5)
2. Ability to withdraw water far below the HL Harris minimum project water pool level
3. The site is downstream of the confluence of the Little Tallapoosa and the Tallapoosa Rivers where the water quality is far superior to the site studied on the Little Tallapoosa River.
4. The site is in close proximity to property on County Road 90 currently owned by the Authority for the construction of a water treatment plant.
5. The site is in close proximity to the Authority's constructed large diameter drinking water lines (16" DIP) near County Road 90.

The Authority hereby request that Alabama Power revise the RL Harris Land Use Plan for FERC approval to allow for the transfer of property and easements to the Authority shown on the Attached 1.1, D1, D2 and D3. If you like, we can set up a conference call for Tuesday September 3, 2019 at 2 pm with your office, the Authority, ADEM and FERC. Please advise.

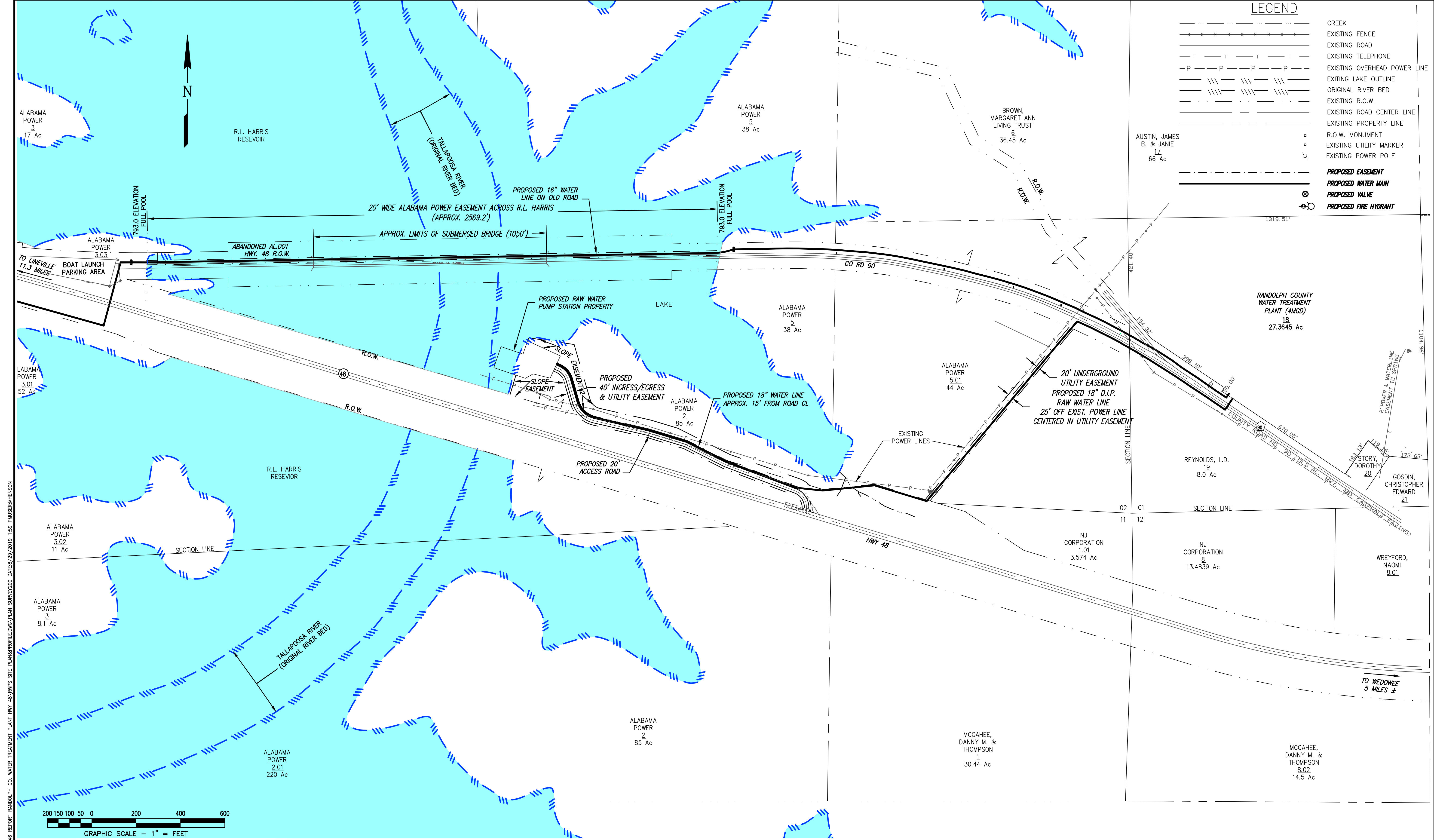
Sincerely,
NELSON & COMPANY, PC
Civil and Environmental Engineering

Stan Nelson
President

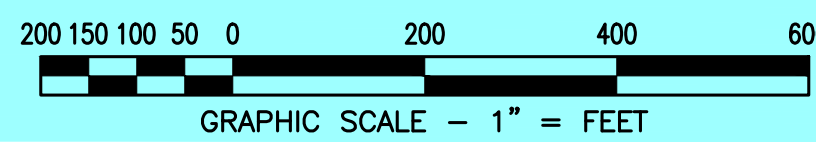
Vester Whitmore, Chairman - RCWS&FPA
John Tinney, Attorney for RCWS&FPA
Clay Tinney, Attorney
Emily Streett, McCarter & English – Washington, DC
John Taylor, State Engr. USDA-RD

Robert Fletcher, FERC
Mark Carter, FERC
Sheila Smith, APC

Ross Caton, ADEM
Jennifer Haslbauer, ADEM
David Moore, ADEM
Aimee White, ADEM



LEGEND	
	CREEK
	EXISTING FENCE
	EXISTING ROAD
	EXISTING TELEPHONE
	EXISTING OVERHEAD POWER LINE
	EXISTING LAKE OUTLINE
	ORIGINAL RIVER BED
	EXISTING R.O.W.
	EXISTING ROAD CENTER LINE
	EXISTING PROPERTY LINE
	R.O.W. MONUMENT
	EXISTING UTILITY MARKER
	EXISTING POWER POLE
	PROPOSED EASEMENT
	PROPOSED WATER MAIN
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT



U.S. RANDOLPH COUNTY 111-46 REPORT RANDOLPH CO. WATER TREATMENT PLANT HWY 48 RWPS SITE PLAN PROFILE DWS PLAN SURVEY 200 DATES 2/29/2019 1:59 PAUSEMUNSON

NO.	DATE	REVISIONS	CHKD.	APPR.	NO.	DATE	REVISIONS	CHKD.	APPR.
1	08/28/19	PROJECT 111-W46	RSN	RSN					

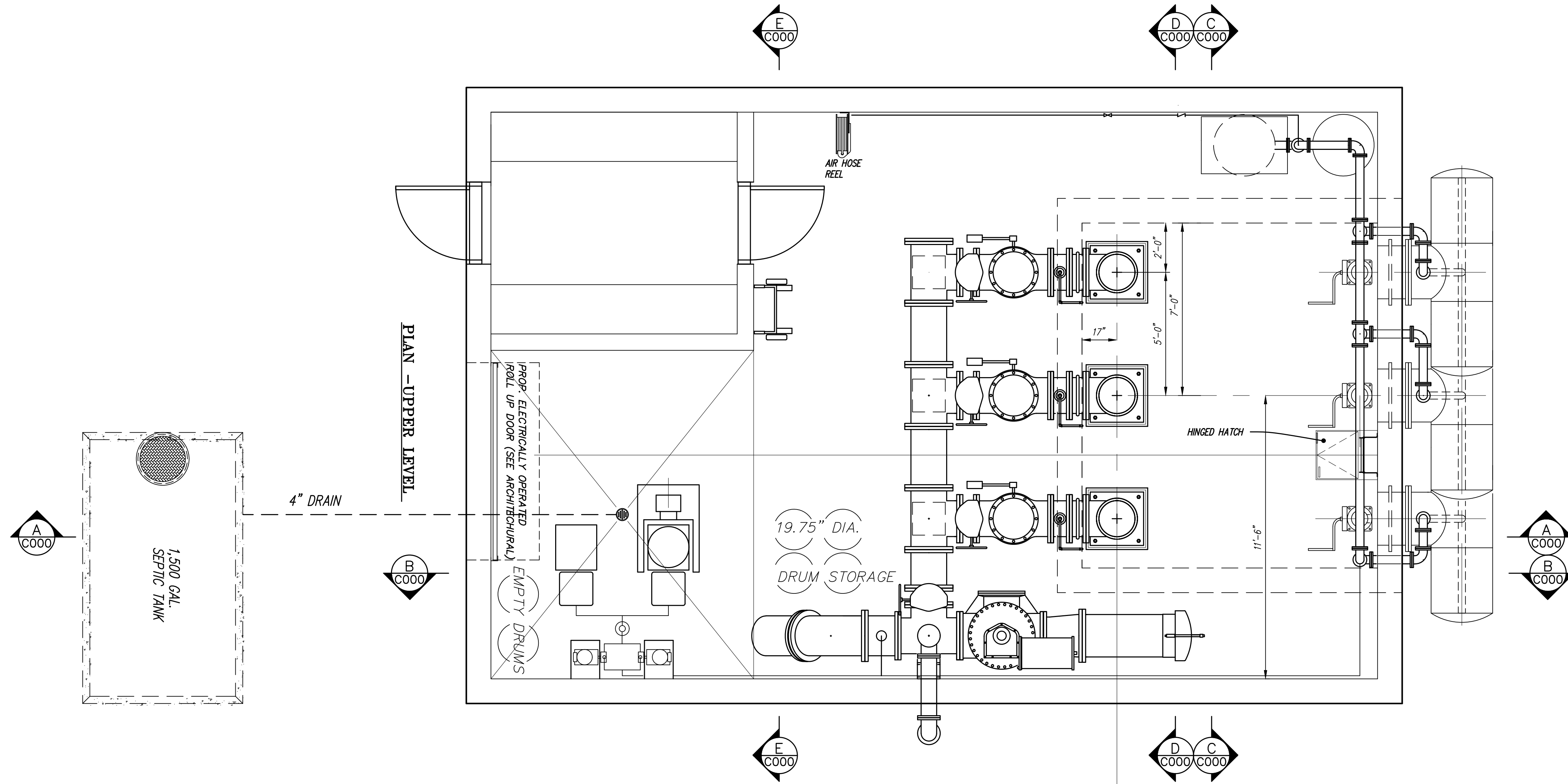
DRAWN	MGH
CHECKED	SWN
APPROVED	



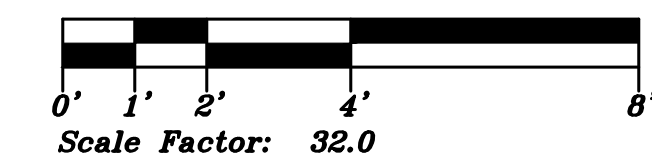
NELSON & COMPANY, PC
 Civil and Environmental Engineering
 400 Emery Drive - Suite 300
 Birmingham, Alabama 35244
 (205)989-5690 FAX (205)989-5672

RANDOLPH COUNTY, ALABAMA
 MUNICIPAL WATER SYSTEM IMPROVEMENTS
**PROPERTY & EASEMENTS
 NEEDED FROM ALABAMA POWER**

REV. ①
 111-46-FIG 1.1



PLAN -RAW WATER PUMP STATION AND INTAKE SCREENS w/AIR BURST



NO.	DATE	REVISIONS	CHKD.	APPR.	NO.	DATE	REVISIONS	CHKD.	APPR.	NO.	DATE	REVISIONS	CHKD.	APPR.

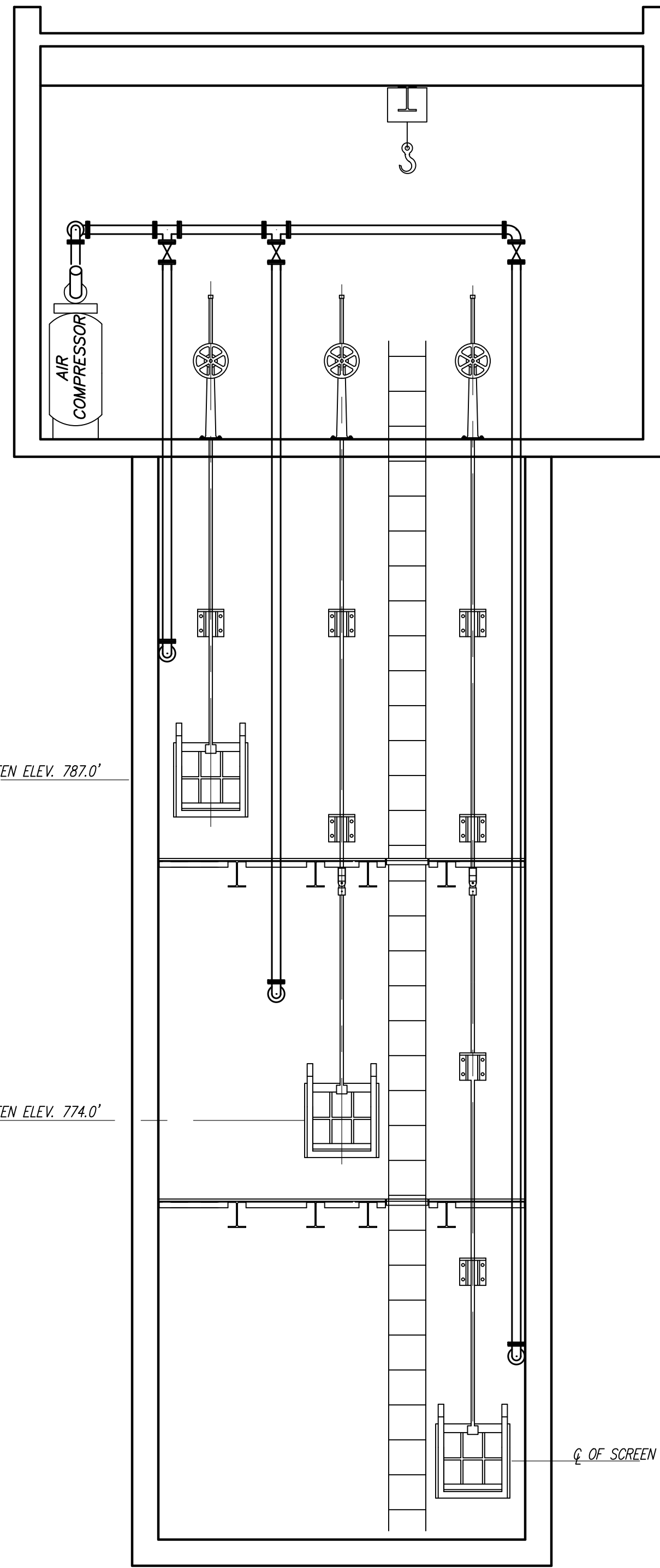
DRAWN MGH
 CHECKED SWN
 DATE 4/17/01
 APPROVED



NELSON & COMPANY, PC
 Civil and Environmental Engineering
 400 Emery Drive - Suite 300
 Birmingham, Alabama 35244
 (205)989-5690 FAX (205)989-5672

RANDOLPH COUNTY WATER AUTHORITY
 HWY 48 PLANT
RAW WATER INTAKE
 PLAN

REV. ①
 111-46-3
 SCALE AS SHOWN



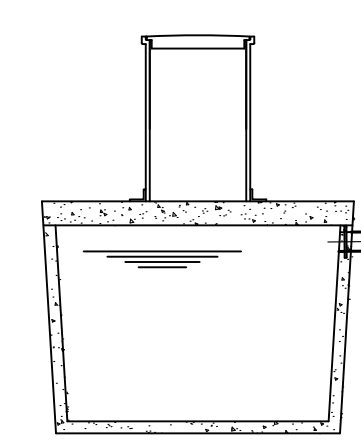
TOP OF MANHOLE
ELEV. xxxxx

500 YR. FLOOD STAGE
ELEV. xxxxx

TOP OF TANK ELEV. xxxxx

LIQUID ELEV. xxxxx

PROP. AMERICAN CONCRETE PRODUCTS
1,500 GALLON PRE-CAST SEPTIC TANK
(NO CENTER BAFFLE WALL)
w/TRAFFIC LID & NEEHAH FOUNDRY
MANHOLE (MODEL #R-1673-A)



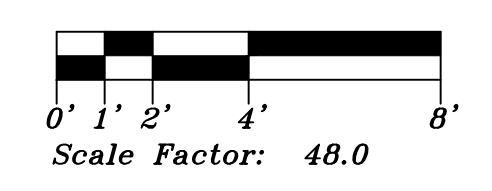
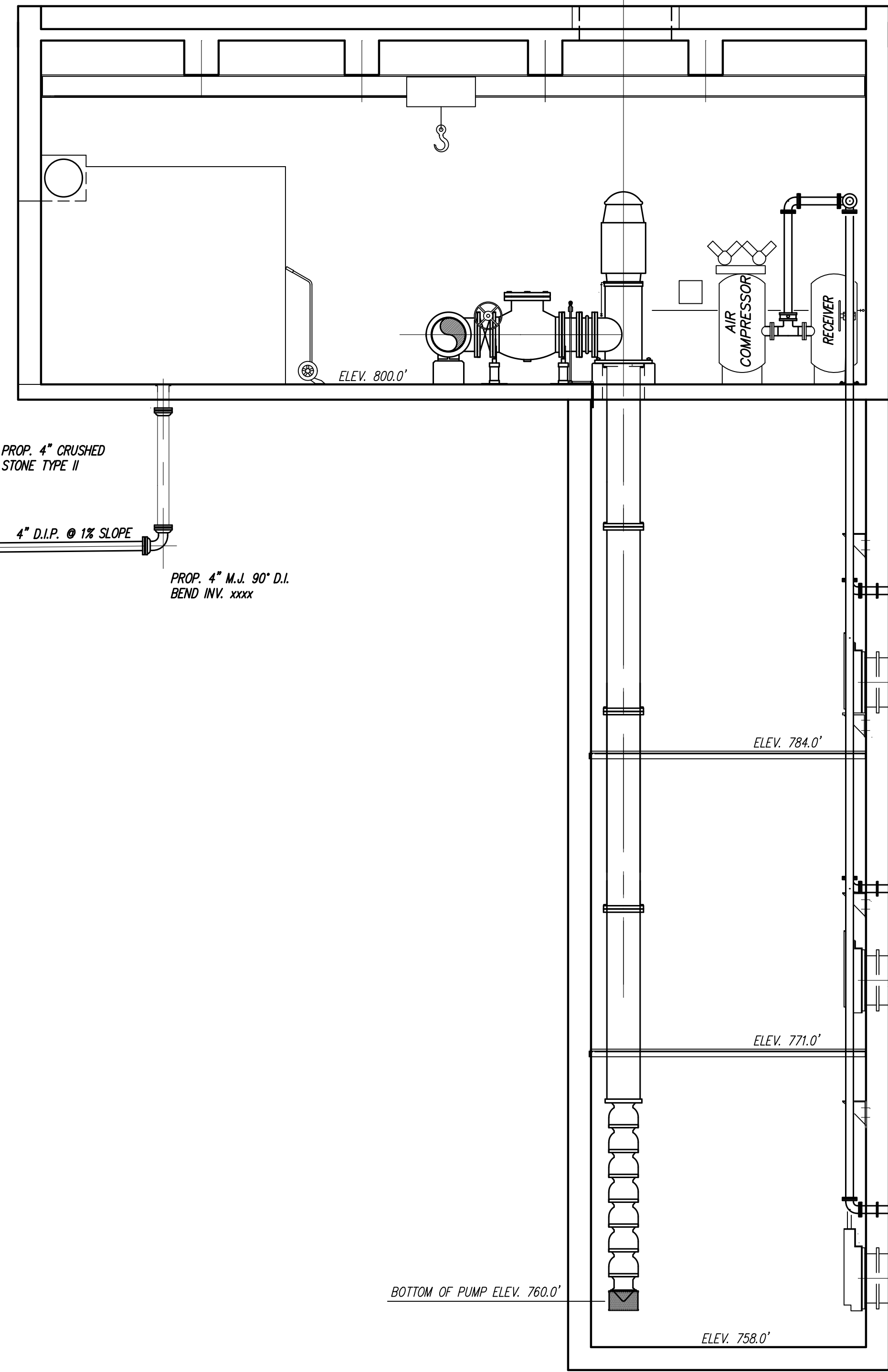
FIN. GRADE
xxxxx

PROP. 4" CRUSHED
STONE TYPE II

4" D.I.P. @ 1% SLOPE

PROP. 4" M.J. 90° D.I.
BEND INV. xxxxx

INV. xxxxx



NO.	DATE	REVISIONS	CHKD.	APPR.	NO.	DATE	REVISIONS	CHKD.	APPR.	NO.	DATE	REVISIONS	CHKD.	APPR.

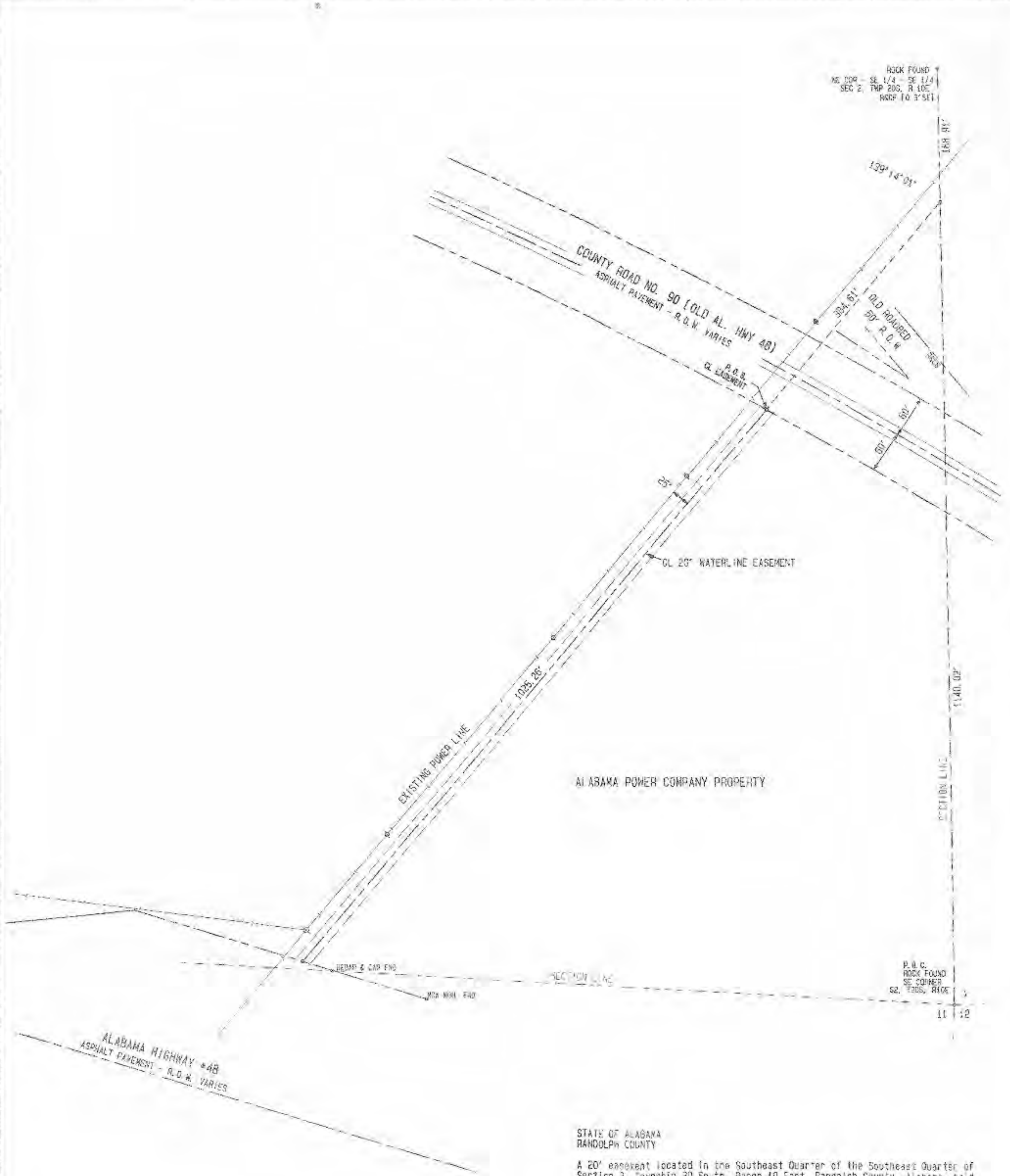
DRAWN MGH
CHECKED SWN
DATE 4/17/01
APPROVED



NELSON & COMPANY, PC
Civil and Environmental Engineering
400 Emery Drive - Suite 300
Birmingham, Alabama 35244
(205)989-5690 FAX (205)989-5672

RANDOLPH COUNTY WATER AUTHORITY
HWY 48 PLANT
RAW WATER INTAKE
SECTIONS

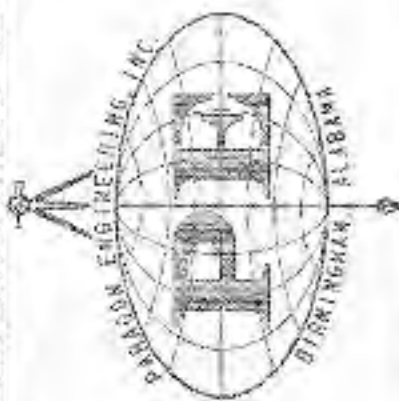
REV. ①
111-46-4
SCALE AS SHOWN



NO.	DATE	REVISIONS	DESCRIPTION

This is not a contract and does not constitute an offer of any services. It is a copy of the original drawing and is not to be used for any other purpose. The original drawing is the only one to be used for any purpose.

PARRAGON ENGINEERING INC
 SUITE 230
 2320 HIGHLAND AVENUE SOUTH
 BIRMINGHAM, ALABAMA 35205
 (205) 939-1119



STATE OF ALABAMA
 RANDOLPH COUNTY

A 20' easement located in the Southeast Quarter of the Southeast Quarter of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama, said easement lying 10 feet on either side of and parallel to the following described centerline, said centerline lying 25 feet Southeastarily of and parallel to an existing power transmission line, and being more particularly described as follows:

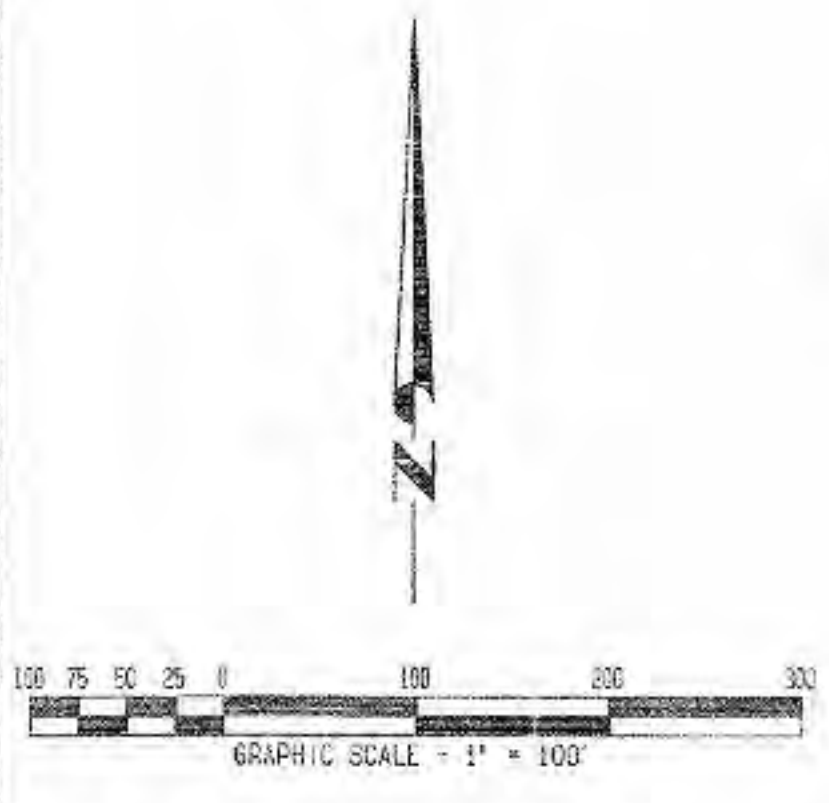
Commence at the Southeast corner of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama and run in a Northerly direction along the East line of said Section 1140.02 feet, thence deflect 139°14'01" and run to the left in a Southwesterly direction 394.61 feet more or less to the Southerly right of way of Randolph County Highway 90, (Old Alabama Highway 48), being the Point Of Beginning of the herein described centerline easement; thence continue along last described course in a Southwesterly direction 1025.25 feet more or less to the Northerly right of way of Alabama Highway No. 89 and the end of the herein described easement centerline.

Field survey completed on April 23, 2001.

Reference Information:
 Alabama DOT right of way map for Highway 48,
 Alabama DOT right of way map for Old Highway 46
 Survey by Stothard Engineering
 Alabama Power Company section plat

I hereby certify, to the best of my knowledge and belief, that all parts of this survey and drawing have been completed in accordance with the requirements of the Minimum Technical Standards for the Practice of Land Surveying in the State of Alabama.

PARRAGON ENGINEERING, INC.
 APR 25 2001
 PRINTED



Robbin E. Phillips
 Robbin E. Phillips, Al. L.S. #14976

4/25/01
 Date

EASEMENT SURVEY	
DRAWN	CHECKED
REP	AFC
DATE APRIL 25, 2001	
SCALE 1" = 100'	
F.S. 540	PAGE 1-17
DISC: DC	FILE: 01019802
QUAD. NAME: OFELIA	
PROJECT NO: B-01019	
SHEET NO: 1 OF 1	

STATE OF ALABAMA
RANDOLPH COUNTY

A parcel of land situated in the South Quarter of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama, being more particularly described as follows:

Commence at a rock marking the accepted Southeast corner of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama; thence turn an angle left of 73°47'15" from the accepted East line of the Southeast Quarter of the Southeast Quarter of said Section and run in a Northwesterly direction 2671.61 feet to the Point of Beginning of the herein described parcel, said point hereinafter known as Point A; thence deflect 80°40'13" and run to the left in a Southeasterly direction 110.00 feet; thence turn an interior angle of 100°57'16" and run to the right in a Northwesterly direction 79.43 feet; thence turn an interior angle of 223°36'05" and run to the left in a Southeasterly direction 40.00 feet; thence turn an interior angle of 131°24'34" and run to the right in a Northwesterly direction 150.00 feet; thence turn an interior angle of 90°00'00" and run to the right in a Northwesterly direction 100.00 feet; thence turn an interior angle of 90°00'00" and run to the right in a Southeasterly direction 105.00 feet; thence turn an interior angle of 270°00'00" and run to the left in a Northwesterly direction 63.25 feet; thence turn an interior angle of 84°02'05" and run to the right in a Southeasterly direction 162.90 feet to the point of beginning, containing 0.723 acres more or less.

Together with a forty foot ingress/egress and utility easement extending from the Easterly line of the above described parcel to the Northerly right of way of Alabama Highway #48, said easement lying twenty feet on either side of and parallel to the following described centerline:

Commence at the aforementioned Point A, being the Northeast corner of the above described parcel, and run in a Southwesterly direction along the Easterly line of said parcel 55.00 feet to the point of beginning of the herein described centerline easement; thence deflect 90°00'00" and run to the left in a Southeasterly direction 16.09 feet to a point of curvature; thence run along the arc of a curve to the right having a central angle of 49°04'22" and a radius of 80.00 feet in a Southeasterly direction 68.52 feet; thence run tangent to the last described curve in a Southeasterly direction 106.10 feet to a point of curvature; thence run along the arc of a curve to the left having a central angle of 27°18'16" and a radius of 120.00 feet in a Southeasterly direction 57.19 feet more or less to the Northerly right of way of Alabama Highway #48 and the end of the herein described centerline.

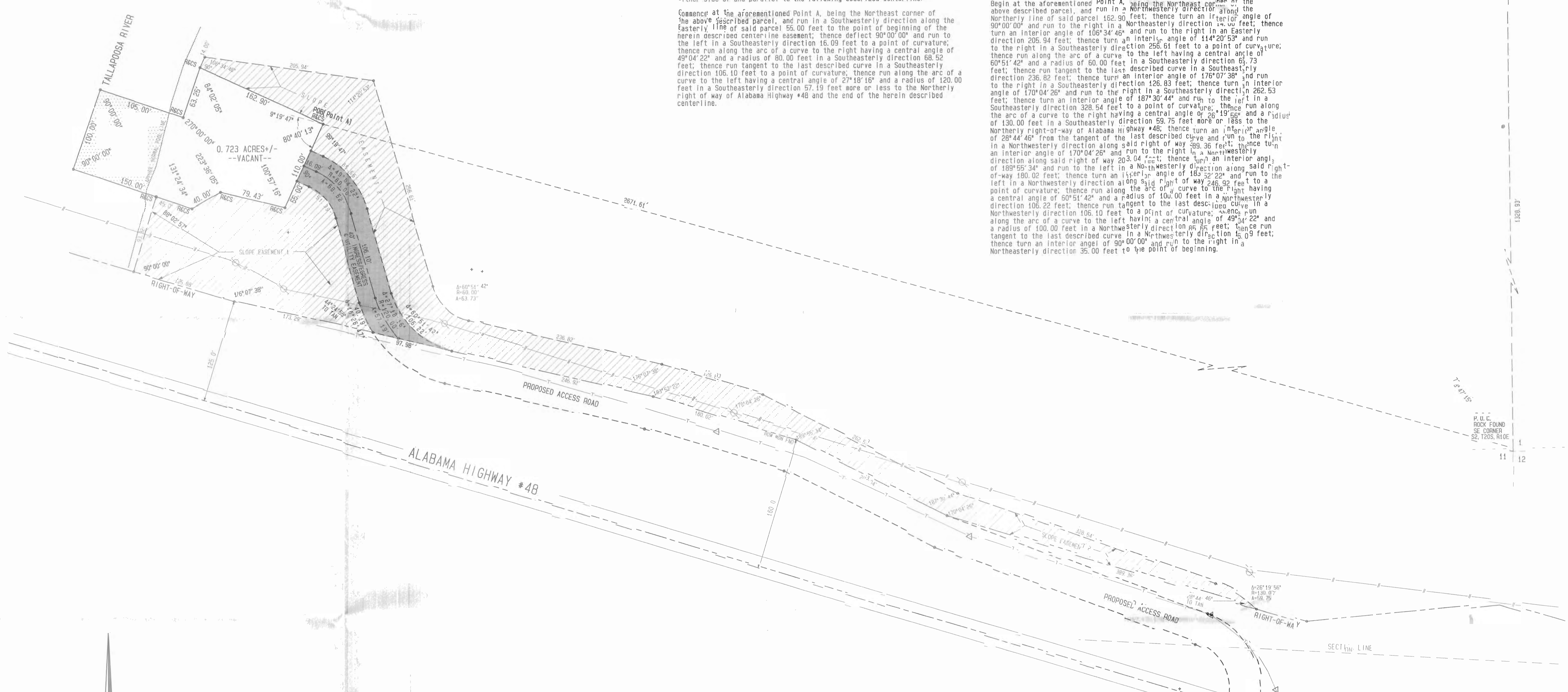
Also: Two slope easements of varying widths located adjacent to the above described parcels, being more particularly described as follows:

Slope easement 1:

Commence at the aforementioned Point A, being the Northeast corner of the above described parcel, and run in a Southwesterly direction along the Easterly line of said parcel 75.00 feet to the point of beginning of the herein described easement; thence deflect 90°00'00" and run to the left in a Southeasterly direction 16.09 feet to a point of curvature; thence run along the arc of a curve to the right having a central angle of 49°04'22" and a radius of 80.00 feet in a Southeasterly direction 51.39 feet; thence run tangent to the last described curve in a Southeasterly direction 106.10 feet to a point of curvature; thence run along the arc of a curve to the left having a central angle of 26°47' and a radius of 100.00 feet in a Southeasterly direction 40.19 feet more or less to the Northerly right of way of Alabama Highway #48; thence turn an interior angle of 44°24'55" from the tangent of the last described curve and run to the right in a Westerly direction along said right-of-way 173.29 feet; thence turn an interior angle of 176°07'38" and run to the right in a Northwesterly direction along said right of way 125.88 feet; thence turn an interior angle of 90°00'00" and run to the right in a Northeasterly direction 93.32 feet; thence turn an interior angle of 88°02'57" and run to the right in a southeasterly direction 45.00 feet; thence turn an interior angle of 223°36'05" and run to the left in a Northwesterly direction 40.00 feet; thence turn an interior angle of 136°23'55" and run to the right in a Southeasterly direction 79.43 feet; thence turn an interior angle of 259°00'44" and run to the left in a Northwesterly direction 35.00 feet to the point of beginning.

Slope easement 2:

Begin at the aforementioned Point A, being the Northeast corner of the above described parcel, and run in a Northwesterly direction along the Northerly line of said parcel 162.90 feet; thence turn an interior angle of 90°00'00" and run to the right in a Northeasterly direction 14.00 feet; thence turn an interior angle of 106°34'46" and run to the right in an Easterly direction 205.94 feet; thence turn an interior angle of 144°20'53" and run to the right in a Southeasterly direction 258.61 feet to a point of curvature; thence run along the arc of a curve to the left having a central angle of 60°51'42" and a radius of 60.00 feet in a Southeasterly direction 65.73 feet; thence run tangent to the last described curve in a Southeasterly direction 236.82 feet; thence turn an interior angle of 176°07'38" and run to the right in a Southeasterly direction 126.83 feet; thence turn an interior angle of 170°04'28" and run to the right in a Southeasterly direction 262.53 feet; thence turn an interior angle of 187°30'44" and run to the left in a Southeasterly direction 328.54 feet to a point of curvature; thence run along the arc of a curve to the right having a central angle of 26°19'56" and a radius of 130.00 feet in a Southeasterly direction 59.75 feet more or less to the Northerly right-of-way of Alabama Highway #48; thence turn an interior angle of 28°44'48" from the tangent of the last described curve and run to the right in a Northwesterly direction along said right of way 89.36 feet; thence turn an interior angle of 170°04'26" and run to the right in a Northwesterly direction along said right of way 203.04 feet; thence turn an interior angle of 189°55'34" and run to the left in a Northwesterly direction along said right-of-way 180.02 feet; thence turn an interior angle of 165°32'22" and run to the left in a Northwesterly direction along said right of way 246.92 feet to a point of curvature; thence run along the arc of a curve to the right having a central angle of 60°51'42" and a radius of 100.00 feet in a Northwesterly direction 106.22 feet; thence run tangent to the last described curve in a Northwesterly direction 106.10 feet to a point of curvature; thence run along the arc of a curve to the left having a central angle of 49°04'22" and a radius of 100.00 feet in a Northwesterly direction 68.52 feet; thence run tangent to the last described curve in a Northwesterly direction 106.10 feet to the point of beginning.



LEGEND	
—//—	OVERHEAD UTILITY LINES
—P—	POWER POLE
—T—	UNDERGROUND TELEPHONE
—M—	TELEPHONE LINE MARKER
R&CS	REBAR AND CAP SET

Field survey completed on April 23, 2001.
Reference Information:
Alabama DJJ Right of Way map for Highway 48.
Survey by Stothard Engineering
Alabama Power Company section plat

I hereby certify, to the best of my knowledge and belief, that all parts of this survey and drawing have been completed in accordance with the requirements of the Minimum Technical Standards for the Practice of Land Surveying in the State of Alabama.

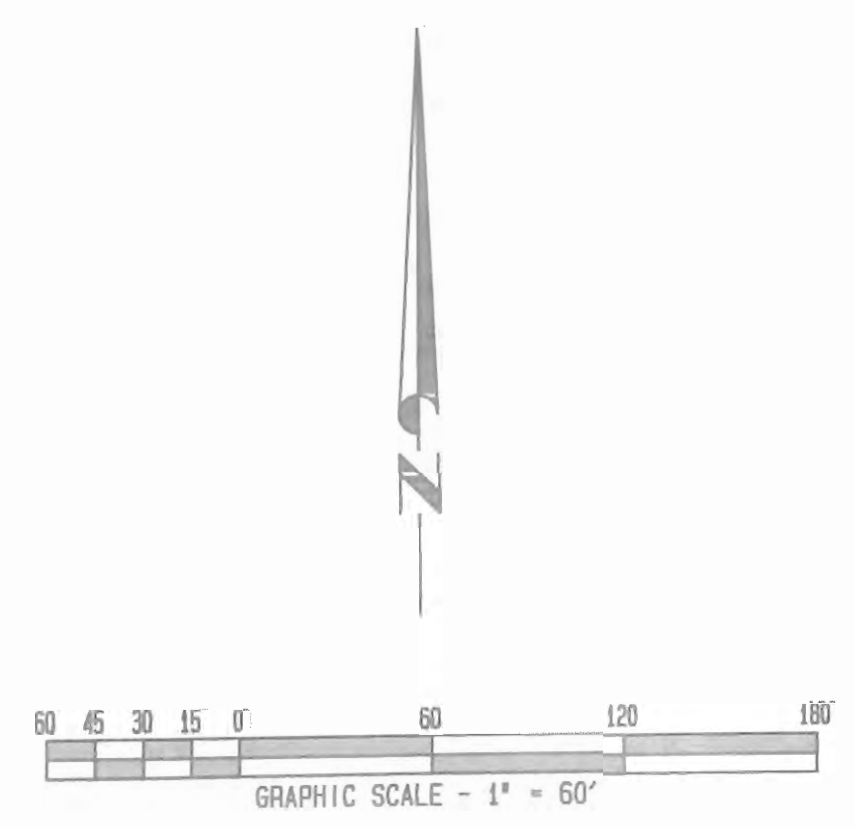
Robbin E. Phillips
Robbin E. Phillips, A.L.S. #14976

4/25/01
Date

PARAGON ENGINEERING, INC.

APR 26 2001

PRINTED

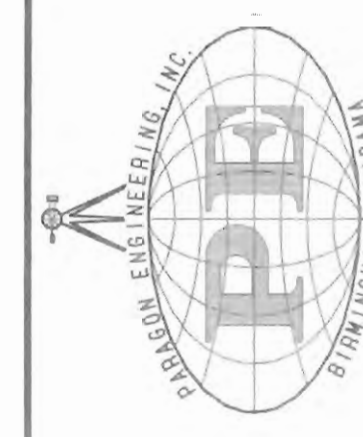


ROCK FOUND
NE COR - SE 1/4 - SE 1/4
SEC. 2, TWP 20S, R 10E
R&CS (10.3' SE)

ROCK FOUND
SE CORNER
SEC. 2, TWP 20S, R 10E

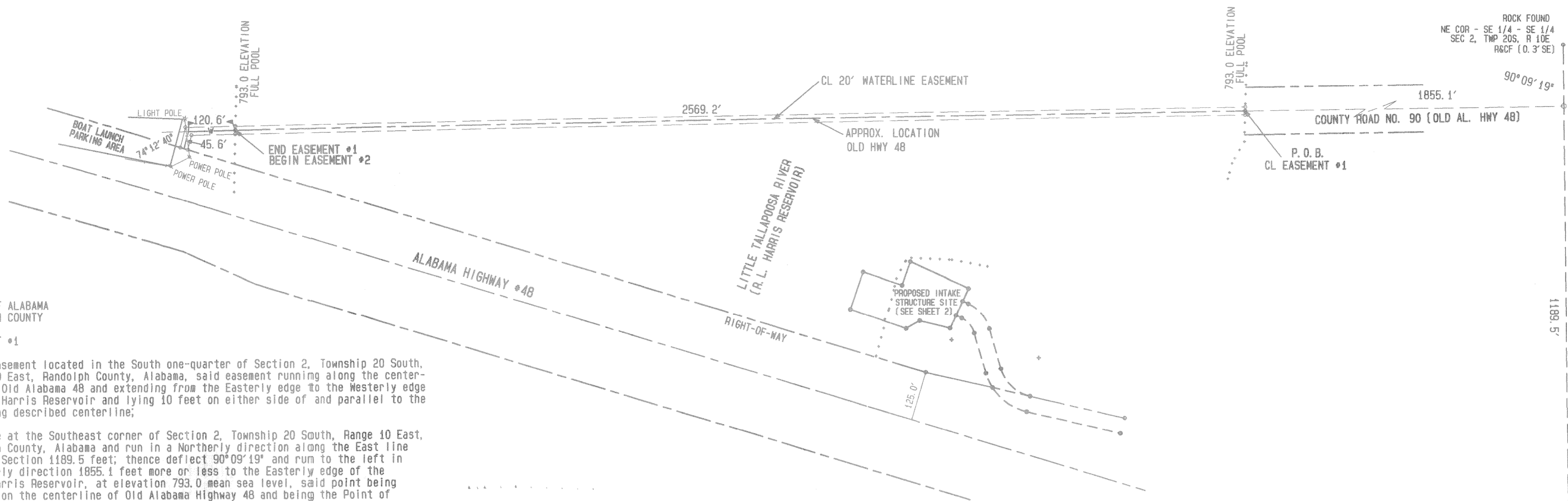
NO.	DATE	DESCRIPTION

PARAGON ENGINEERING, INC.
ENGINEERING INC.
SUITE 230
2320 HIGHLAND AVENUE SOUTH
BIRMINGHAM, ALABAMA 35205



BOUNDARY and EASEMENT SURVEY
a portion of
Alabama Power Company Property
located in
the South One-Quarter
SEC. 2, TWP 20S, R 10E

DRAWN	CHECKED
REP	AFC
DATE	APRIL 25, 2001
SCALE	1" = 60'
F-B. 540	PAGE 1
DISC. DC	FILE:01019
QUAD. NAME:	OFELIA
PROJECT NO.:	8-01019
SHEET NO.:	1 OF 1



STATE OF ALABAMA
RANDOLPH COUNTY

EASEMENT #1

A 20' easement located in the South one-quarter of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama, said easement running along the centerline of Old Alabama 48 and extending from the Easterly edge to the Westerly edge of R.L. Harris Reservoir and lying 10 feet on either side of and parallel to the following described centerline;

Commence at the Southeast corner of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama and run in a Northerly direction along the East line of said Section 1189.5 feet; thence deflect 90°09'19" and run to the left in a Westerly direction 1855.1 feet more or less to the Easterly edge of the R. L. Harris Reservoir, at elevation 793.0 mean sea level, said point being located on the centerline of Old Alabama Highway 48 and being the Point of Beginning of the herein described centerline easement; thence continue along the last described course in a Westerly direction and along the centerline of Old Alabama Highway 48 for 2569.2 feet, more or less, to the Westerly edge of said R. L. Harris Reservoir at elevation 793.0 mean sea level, being the end of the herein described centerline easement.

EASEMENT #2

A 20' easement located in the South one-quarter of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama, said easement lying 10 feet on either side of and parallel to the following described centerline:

Commence at the Southeast corner of Section 2, Township 20 South, Range 10 East, Randolph County, Alabama and run in a Northerly direction along the East line of said Section 1189.5 feet; thence deflect 90°09'19" and run to the left in a Westerly direction 4424.3 feet, more or less, to the Westerly edge of the R. L. Harris Reservoir, at elevation 793.0 mean sea level, said point being located on the centerline of Old Alabama Highway 48 and being the Point of Beginning of the herein described centerline easement; thence continue along the last described course in a Westerly direction and along the centerline of Old Alabama Highway 48 for 120.6 feet, thence deflect 74°12'40" to the left and run in a Southerly direction for 46 feet, more or less, to the Northerly right-of-way of the New Alabama Highway #48 and the end of the herein described centerline easement.

Field survey completed on April 23, 2001.

Reference Information:

- Alabama DOT right of way map for Highway 48.
- Alabama DOT right of way map for Old Highway 48
- Survey by Stothard Engineering
- Alabama Power Company section plat

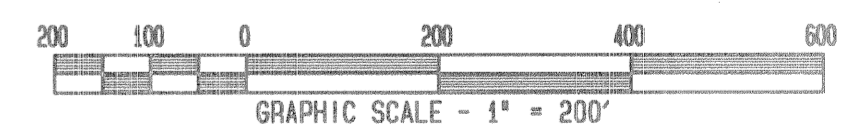
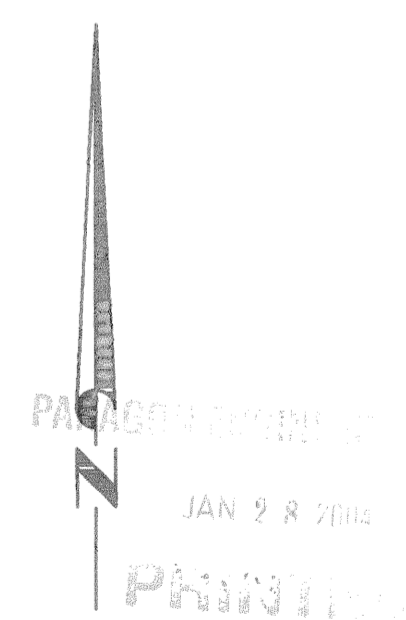
I hereby certify, to the best of my knowledge and belief, that all parts of this survey and drawing have been completed in accordance with the requirements of the Minimum Technical Standards for the Practice of Land Surveying in the State of Alabama.

Robbin E. Phillips
Robbin E. Phillips, Al. L.S. #14976

1/28/04
Date

ROCK FOUND
NE COR - SE 1/4 - SE 1/4
SEC 2, TWP 20S, R 10E
R&CF (0.3' SE)

P.O.C.
ROCK FOUND
SE CORNER
S2, T20S, R10E 2 1
11 12



SHEET NO:	4 OF 4
PROJECT NO:	8-01019
QUAD. NAME:	OFFELIA
DISC:	DC FILE:01019B02
F.B.:	540 PAGE 1-19
SCALE:	1" = 60'
DATE:	JUNE 08, 2001
DRAWN:	REP
CHECKED:	AFC

EASEMENT SURVEY
a portion of
Alabama Power Company Property
LOCATED IN
the South One-Quarter
SEC. 2, TWP 20S, RNG 10E
RANDOLPH COUNTY, ALABAMA



P A R A G O N
ENGINEERING INC
SUITE 230
2320 HIGHLAND AVENUE SOUTH
BIRMINGHAM, ALABAMA 35205
(205) 939-1119

If seal is not colored red, the drawing is a copy that should be assumed to contain unauthorized alterations. Certification contained on this document does not apply unless sealed in red.

REVISIONS			
NO	DATE	DESCRIPTION	BY
1	1/23/04	MOVED PROPOSED CL E'SMT TO CL OLD HWY	rep
2	1/23	REMOVE SID ROW	rep

APC Harris Relicensing

From: APC Harris Relicensing
Sent: Tuesday, September 3, 2019 2:59 PM
To: snelson@nelsonandco.com; mprandolph@gmail.com
Subject: FW: HAT 4 meeting - September 11, 2019

Good afternoon,

Details for our HAT 4 meeting next week are below. I'll make sure you both are added to the HAT 4 stakeholder list so you get communications in the future.

Thanks,

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Sent: Tuesday, August 13, 2019 1:54 PM
To: APC Harris Relicensing <g2apchr@southernco.com>
Subject: HAT 4 meeting - September 11, 2019

HAT 4,

Alabama Power will be hosting a series of HAT meetings on **Wednesday, September 11, 2019 at the Oxford Civic Center**, 401 Mccullars Ln, Oxford, AL 36203. The HAT 4 meeting will be from **12:30 to 1:15**. The purpose of the HAT 4 meeting is to present Alabama Power's proposed land use changes at the Harris Project, including lands that Alabama Power may propose to be removed or included in the project boundary, or those lands proposed to change land use classification.

Please RSVP by Friday, September 6, 2019. Lunch will be provided (~11:45) so please indicate any food allergies or vegetarian preferences on or before September 6, 2019. I encourage everyone to attend in person. If this is not feasible, we are also offering a Skype option (info below). It would be ideal to join on your computer as we will be viewing presentations and maps.

If you have any questions about the agenda or meetings, please email or call me at ARSEGARS@southernco.com or (205) 257-2251.

[Join Skype Meeting \[meet.lync.com\]](#)

Trouble Joining? [Try Skype Web App \[meet.lync.com\]](#)

Join by phone

Toll number: +1 (207) 248-8024

[Find a local number \[dialin.lync.com\]](#)

Conference ID: 892052380

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

APC Harris Relicensing

From: Clark, Maria <Clark.Maria@epa.gov>
Sent: Wednesday, September 4, 2019 6:51 AM
To: APC Harris Relicensing
Subject: RE: HAT 2 meeting - September 11, 2019

Thank you so much Angie.

From: APC Harris Relicensing <g2apchr@southernco.com>
Sent: Tuesday, September 03, 2019 3:58 PM
To: Clark, Maria <Clark.Maria@epa.gov>
Subject: FW: HAT 2 meeting - September 11, 2019

FYI – I've added you to this list now so you'll get these emails in the future.

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Sent: Tuesday, August 13, 2019 1:51 PM
To: APC Harris Relicensing <g2apchr@southernco.com>
Subject: HAT 2 meeting - September 11, 2019

HAT 2,

Alabama Power will be hosting a series of HAT meetings on **Wednesday, September 11, 2019 at the Oxford Civic Center**, 401 McCullars Ln, Oxford, AL 36203. The HAT 2 meeting will be from 11:00 to 11:45. The purpose of the HAT 2 meeting is to review the sedimentation and erosion areas that were previously identified by stakeholders and to prepare for the field investigation in the fall. During this HAT 2 meeting, Alabama Power will also provide an update on water quality study efforts.

Please RSVP by Friday, September 6, 2019. Lunch will be provided so please indicate any food allergies or vegetarian preferences on or before September 6, 2019. I encourage everyone to attend in person. If this is not feasible, we are also offering a Skype option (info below). It would be ideal to join on your computer as we will be viewing presentations and maps.

If you have any questions about the agenda or meetings, please email or call me at ARSEGARS@southernco.com or (205) 257-2251.

Join Skype Meeting [meet.lync.com]

Trouble Joining? [Try Skype Web App](https://meet.lync.com) [meet.lync.com]

Join by phone

Toll number: +1 (207) 248-8024

[Find a local number \[dialin.lync.com\]](#)

Conference ID: 892052380

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

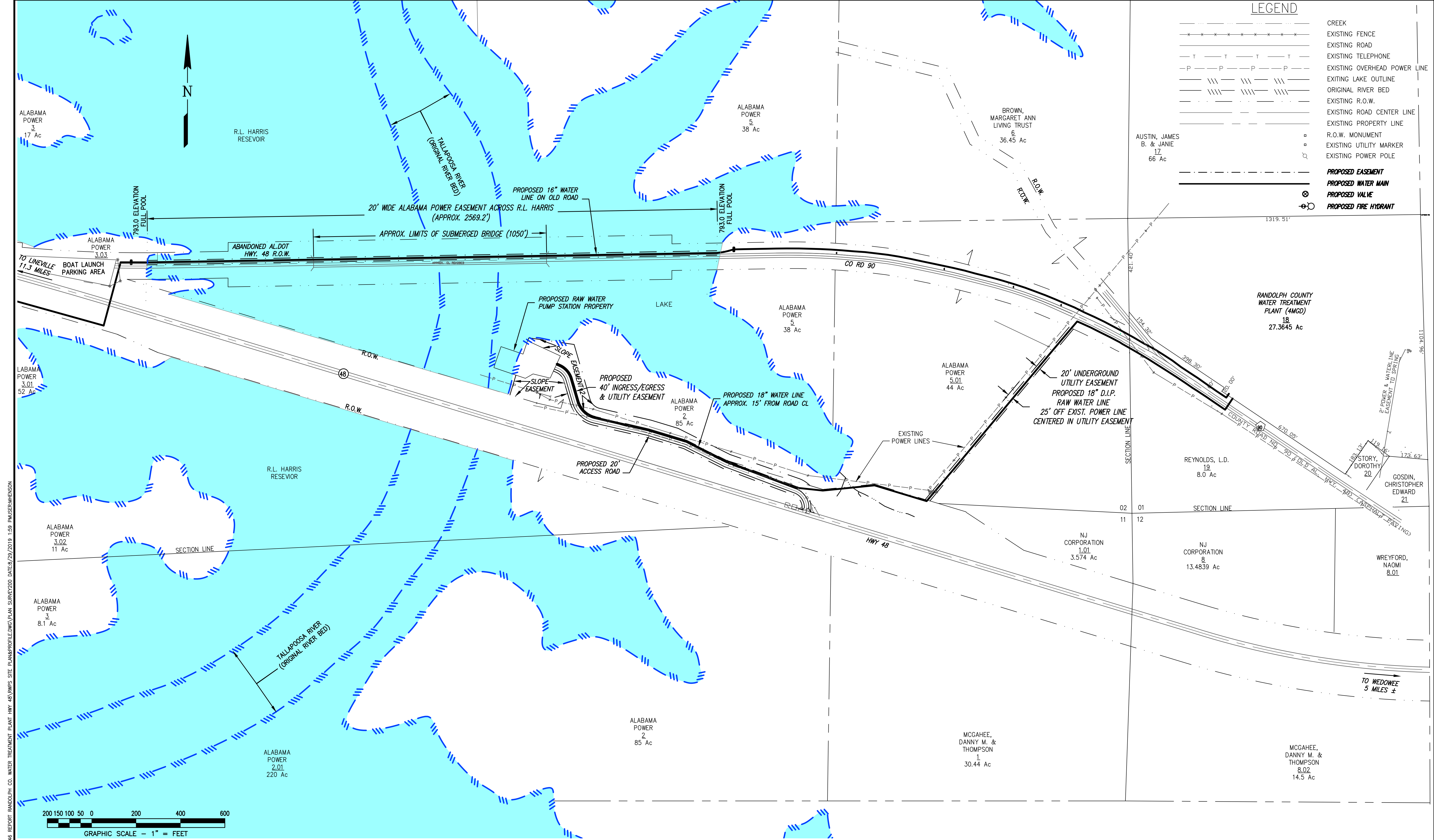
APC Harris Relicensing

From: Stan Nelson <snelson@nelsonandco.com>
Sent: Wednesday, September 4, 2019 12:28 PM
To: Anderegg, Angela Segars
Cc: Mark Prestridge; vester.whitmore@gmail.com; John Tinney; Clay Tinney; John Taylor; Mark Carter; Robert Fletcher; pwebb@webbconcrete.com; phillweb@clarkmhc.com; dpwebb@gmail.com; dpwebb@webbconcrete.com; senator@shelby.senate.gov; Caton, Ross E; Randy.Price@alsenate.gov; bob.fincher@alhouse.gov
Subject: Randolph County Hwy 48 Water Plant - Followup on 9-3-19 Conf Call
Attachments: Followup of 9-3-19 Conference Call.pdf; 1.1 Alabama Power Needed Property.pdf

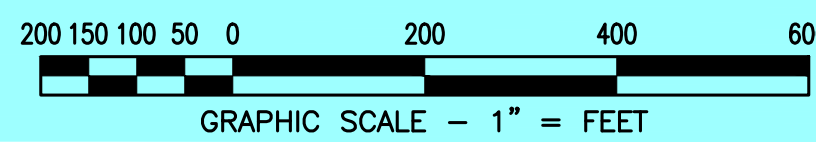
EXTERNAL MAIL: Caution Opening Links or Files

Please see the attached.

Stan Nelson, PE
NELSON & COMPANY, PC - Consulting Engineers
400 Emery Drive, Suite 300
Birmingham, AL 35244-4548
Work (205) 989-5690
Fax (205) 989-5672
Cell (205) 585-4600
snelson@nelsonandco.com



LEGEND	
	CREEK
	EXISTING FENCE
	EXISTING ROAD
	EXISTING TELEPHONE
	EXISTING OVERHEAD POWER LINE
	EXISTING LAKE OUTLINE
	ORIGINAL RIVER BED
	EXISTING R.O.W.
	EXISTING ROAD CENTER LINE
	EXISTING PROPERTY LINE
	R.O.W. MONUMENT
	EXISTING UTILITY MARKER
	EXISTING POWER POLE
	PROPOSED EASEMENT
	PROPOSED WATER MAIN
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT



U.S. RANDOLPH COUNTY 111-46 REPORT RANDOLPH CO. WATER TREATMENT PLANT HWY 48 RWPS SITE PLAN PROFILE DWS PLAN SURVEY 200 DATES 2/29/2019 1:59 PAUSEMWHENSON

NO.	DATE	REVISIONS	CHKD.	APPR.	NO.	DATE	REVISIONS	CHKD.	APPR.
1	08/28/19	PROJECT 111-W46	RSN	RSN					

DRAWN	MGH
CHECKED	SWN
APPROVED	



NELSON & COMPANY, PC
 Civil and Environmental Engineering
 400 Emery Drive - Suite 300
 Birmingham, Alabama 35244
 (205)989-5690 FAX (205)989-5672

RANDOLPH COUNTY, ALABAMA
 MUNICIPAL WATER SYSTEM IMPROVEMENTS
**PROPERTY & EASEMENTS
 NEEDED FROM ALABAMA POWER**

REV. ①
 111-46-FIG 1.1



NELSON & COMPANY, PC
Civil & Environmental Engineering
400 Emery Drive, Suite 300
Birmingham, Alabama 35244
(205) 989-5690 (205) 989-5672 FAX
Cell/Car (205) 585-4600
E-mail - SNelson@NelsonAndCo.com

September 4, 2019

Ms. Angela Anderegg, Project Manager
Alabama Power Company
Hydro Re-licensing
600 North 18th Street
Birmingham, AL 35203

REF: Proposed Highway 48 Regional Water Treatment Plant
Owner: Randolph County Water, Sewer and Fire Protection Authority
Project No.: 111-46

Dear Ms. Anderegg:

I was very disappointed in your comments during our conference call yesterday, that the location of the proposed raw water intake is not compatible "with all that is going on" near that site. One of the most important functions that a government has is to provide a high quality, affordable, and dependable drinking water supply. Water is required for life and is more important than power generation, recreation, a marina, or the proposed resort. The selected site is very compatible with the adjacent Hwy 48 Bridge, as the concrete raw water intake structure is no less objectionable than the concrete piers that support the Bridge and is far less of an obstacle to boat traffic.

Section 10(a)(1) of the Federal Power Act charges the Federal Energy Regulatory Commission with ensuring that all licensed projects:

"be best adapted to a comprehensive plan for improving or developing a waterway or waterways for the use or benefit of interstate or foreign commerce, for the improvement and utilization of waterpower development, for the adequate protection, mitigation, and enhancement of fish and wildlife (including related spawning grounds and habitat), and for other beneficial public uses, including irrigation, flood control, water supply, and recreational and other purposes referred to in section 4(e); and, if necessary, in order to secure such a plan, the Commission shall have authority to require the modification of any project and of the plans and specifications of the project works before approval."

The proposed raw water pump station and water treatment plant sites are not dependent on the RL Harris Reservoir. With the raw water pumping station being at the main channel of the Tallapoosa River, just downstream of the confluence of the Tallapoosa and the Little Tallapoosa Rivers, the raw water pump station is not dependant on the re-licensing of the RL Harris Reservoir, but does takes advantage of the reservoir by being able to withdraw water from different depths. The raw water pump station site is ideal, affords protection above the 500 year flood elevation; and is adjacent to existing power lines and Highway 48. The proposed water treatment facilities will provide a dependable supply of water forever to Randolph County and parts of the surrounding Clay, Cleburne, Chambers and Heard (Ga) Counties. The proposed facilities have been reviewed and

signed off by the following agencies:

East Alabama Regional Planning Commission
Randolph County Commission
Alabama Department of Environmental Management (ADEM)
Alabama Historical Commission
Alabama Department of Transportation
Alabama Office of Water Resources
Alabama Department of Conservation and Natural Resources
Alabama Marine Police Division
Alabama State Lands Division
US Environmental Protection Agency (EPA)
US Natural Resources Conservation Service (NRCS)
US Fish & Wildlife Service
US Army Corps of Engineers
USDA - Rural Development
Lake Wedowee Homeowners Association

I am confident that the RL Harris Land Use Plan can quickly be amended and approved by FERC to allow for the needed water facilities to serve the region.

Please advise how we can work together to cut the red tape and get the proposed Highway 48 water treatment system constructed as soon as possible.

Sincerely,
NELSON & COMPANY, PC
Civil and Environmental Engineering



Stan Nelson
President

Randolph County Water, Sewer and Fire Protection Authority - Board of Directors
Alabama Power - Board of Directors
Mark Carter, FERC
Senator Richard Shelby
US Representative Mike Rogers
Governor Kay Ivey
State Senator Randy Price
State Representative Bob Fincher (R-AL 37th District)
John Taylor, PE - USDA-Rural Development, State Engineer
Ross Caton, PE - Chief, ADEM Drinking Water Section

APC Harris Relicensing

From: Stan Nelson <snelson@nelsonandco.com>
Sent: Thursday, September 5, 2019 5:12 PM
To: aanderegg@southernco.com
Cc: Mark Prestridge; vester.whitmore@gmail.com
Subject: 111-46 Randolph County Hwy 48 Regional WTP
Attachments: Enter Authority's Request in Minutes of HAT4 Meeting.pdf

EXTERNAL MAIL: Caution Opening Links or Files

Please see the attached. I look forward to seeing you next week at the HAT4 meeting.

Stan Nelson, PE
NELSON & COMPANY, PC - Consulting Engineers
400 Emery Drive, Suite 300
Birmingham, AL 35244-4548
Work (205) 989-5690
Fax (205) 989-5672
Cell (205) 585-4600
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E-mail - SNelson@NelsonAndCo.com

September 5, 2019

Ms. Angela Anderegg, Project Manager
Alabama Power Company
Hydro Re-licensing
600 North 18th Street
Birmingham, AL 35203

REF: Proposed Highway 48 Regional Water Treatment Plant
Owner: Randolph County Water, Sewer and Fire Protection Authority (Authority)
Project No.: 111-46

Dear Ms. Anderegg:

I am confident that the RL Harris Land Use Plan can quickly be amended and approved by FERC to allow for the needed water facilities to serve the region. The proposed plant will serve parts of 5 counties in Alabama and Georgia.

Representatives of the Authority and I will attend your HAT 4 meeting next week. Please enter into the records of the meeting the Authority's request to secure property from Alabama Power to construct the Highway 48 Regional Water Treatment Plant. Support letters from the attached individuals and organizations will be requested and provided to you in the near future.

Please advise how we can work together to cut the red tape and get the proposed Highway 48 Regional Water Treatment system constructed as soon as possible.

Sincerely,
NELSON & COMPANY, PC
Civil and Environmental Engineering

A handwritten signature in black ink that reads "Stan Nelson".

Stan Nelson
President

Randolph County Water, Sewer and Fire Protection Authority - Board of Directors

<i>Organization or Person Requested for Support</i>	<i>Note:</i>
Town of Ranburne (Cleburne County), AL	Water customer
Town of Woodland (Randolph County), AL	Water customer
Town of Wadley (Randolph County), AL	Water customer
Town of Wedowee (Randolph County), AL	Water customer and two way interconnection
City of Roanoke (Randolph County), AL	Emergency water connection
East Alabama Water Authority (Chambers County)	Water customer
Heard County, Georgia Water Authority	Currently a one way feed should be converted to a two way emergency interconnection in 2020.
City of Lineville (Clay County), AL	Water customer (2020)
Clay County Water Authority	Water customer (2020) ¹
City of Ashland (Clay County), AL	Water customer (2020)
Randolph County Commission	
Randolph County Health Department	
Randolph County Industrial Development Board	
Randolph County Chamber of Commerce	
Clay County Commission	
Clay County Health Department	
Clay County Industrial Development Board	
Clay County Chamber of Commerce	
Chambers County Commission	
Chambers County Health Department	
Chambers County Industrial Development Board	
Lake Wedowee Property Owners Association	
Roanoke Rotary Club	
Roanoke Kiwanis Club	

¹The interconnection between the Clay County Water Authority and the Randolph County Water, Sewer and Fire Protection Authority is currently under construction in Clay County. Completion is scheduled for early 2020.

<i>Organization or Person Requested for Support</i>	<i>Note:</i>
Roanoke Lions Club	
Ashland Kiwanis Club	
Delta Exchange Club	
Emerald Triangle	
Wedowee Lions Club	
REGIONAL PLANNING	
East Alabama Regional Planning and Development Commission	Regional Planning and A95 Clearinghouse Review
FEDERAL	
President Donald J. Trump	
US Senator Richard Shelby, Alabama	
US Senator Doug Jones, Alabama	
US Representative Mike Rogers, AL 3 rd Dis.	
US Senator Johnny Isakson, Georgia	
US Senator David Perdue, Georgia	
US Representative Drew Ferguson, GA 3 rd Dis.	
FERC	
FERC Chairman Neil Chatterjee	
FERC Commissioner Richard Glick	
FERC Commissioner Bernard McNamee	
Mr. Robert Fletcher	FERC, Chief of Hydro Compliance Sec.
Mr. Mark Carter	FERC Atlanta, Office
US-EPA	Provided financing for a major portion of the water line that loops Randolph County and crosses Lake Wedowee.

<i>Organization or Person Requested for Support</i>	<i>Note:</i>
USDA - Rural Development	Have financed all of the water system improvements to the Randolph County Water System not funded by EPA, ARC and CDBG.
US Fish & Wildlife Service	
US Army Corps of Engineers	
STATE OF ALABAMA	
Governor Kay Ivey	
Alabama State Senator Randy Price	
Alabama State Representative Bob Fincher (AL 37 th District)	
Alabama Department of Economic and Community Affairs	Have provided CDBG Grants to fund many of the water lines in Randolph County to serve low and moderate income residents
Alabama Department of Environmental Management (ADEM)	Have recommended Lake Wedowee as a water source over a site considered on the Little Tallapoosa River at Meadows Bridge
Alabama Department of Conservation and Natural Resources - Alabama State Lands Division	
Alabama Department of Conservation and Natural Resources - Alabama Marine Police Division	
Alabama Office of Water Resources	
STATE OF GEORGIA	
Governor Brian Kemp	
Georgia Senator Matt Brass, GA 28 th Dis.	
Georgia Environmental Protection Division	



R. L. Harris Hydroelectric Project

FERC No. 2628

HAT 1 (Project Operations) Stakeholder Meeting Summary **September 11, 2019** **9 am to 11 am** **Oxford Civic Center, Oxford, AL**

Participants:

See Attachment A

Participants by Phone:

Chuck Denman – Downstream Property Owner

Sarah Salazar – FERC

Monte TerHaar – FERC

Kyrstin Wallach – FERC

Action Items:

- Alabama Power will post the HAT 1 meeting summary and all meeting materials to the Harris Relicensing website (www.harrisrelicensing.com)

Summary

The following summarizes the September 11, 2019 Harris Action Team (HAT) 1 (Project Operations) meeting. The meeting presentation is included in Attachment B; therefore, this meeting summary focuses on the overall meeting purpose, highlights of the presentation, and stakeholders' questions/comments and Alabama Power's responses.

Introduction – Angie Anderegg (Alabama Power)

Angie introduced the HAT 1 meeting purpose, reviewed the safety procedures, and introduced participants in the meeting room and by phone. The purpose of the HAT 1 meeting was to discuss all the models, the methods, and the model inputs and outputs (how the model will be used) for the Operating Curve Change Feasibility Analysis and the Downstream Release Alternatives Studies.

Operating Curve Change Feasibility Analysis – Kenneth Odom (Alabama Power)

Kenneth presented a detailed overview of the three models: Hydrologic Engineering Center (HEC) – Statistical Software Package (SSP) (HEC-SSP) and the Flood Frequency Analysis (HEC-FFA); the HEC-Reservoir Simulation (HEC-RES-Sim); and HEC-River Analysis System (HEC-RAS). Kenneth explained how each of the tools were used in the process and how Alabama Power will use these tools in evaluating the baseline condition (existing winter pool elevation) and the four alternative winter pool elevations (raising the winter curve by 1, 2, 3, and 4 feet). Kenneth also explained that the 100-year flood is a high streamflow event that has a 1 percent chance of being equaled or exceeded in any year. Barry Morris (Lake Wedowee Property Owners Association-LWPOA) asked Kenneth to explain the difference between peak and inflow volume. Kenneth responded that the peak inflow is the maximum inflow – like the instantaneous peak. Inflow volume is the volume (acre-feet) that occurs over the full duration of the storm, which provides a better picture of the area occupied in the reservoir. This volume is cumulative over a flow event.

Barry asked about other data inputs in addition to the U.S. Geological Survey (USGS) that Alabama Power would consider during a flood event. Kenneth noted that Alabama Power uses a

network of rainfall gages in addition to the stream flow gages. Additionally, Alabama Power knows the amount of water going through the forebay and spillway, which allows inflow as well as outflow to be calculated.

Barry Morris asked about the forebay water quality modeling. Jason Moak (Kleinschmidt) noted that the forebay water quality modeling would be used to address effects of the alternative winter pool elevations on water quality and temperature in the reservoir. Barry asked if the forebay modeling focused on temperature and dissolved oxygen; Kenneth stated that while the focus of the study is evaluating impacts to DO and temperature, the Environmental Fluid Dynamics Code (EFDC) model does incorporate other water quality/chemistry data.

Downstream Release Alternatives Study – Kenneth Odom

Kenneth also reviewed the tools for the Downstream Alternatives Study. Taconya Goar (Alabama Department of Conservation and Natural Resources – ADCNR) asked if this study would also include flood flows downstream. Angie Anderegg clarified that Alabama Power would review high, normal, and low flow operations in the Downstream Release Alternatives Study.

FERC staff asked if Alabama Power had determined what the modified Green Plan would entail. Jason Moak responded that Alabama Power is working to complete the habitat study and, based on the results of that study, Alabama Power will better define modifications to the existing Green Plan. A stakeholder asked about the difference between the continuous minimum flow alternative and the Green Plan and whether the Green Plan would have a minimum flow. Angie Anderegg responded that the Green Plan does not have a continuous minimum flow; however, the minimum flow alternative is the same daily volume (150 cfs) as the Green Plan pulses and the modified Green Plan would likely include changes to the timing of those pulses. Angie provided an example of how Alabama Power could modify the Green Plan to include shifting the pulses to occur in the early morning hours (e.g., 3 am) to support kayaking/boating activity later in the day.

Alabama Power discussed the cross-section data used to develop the HEC-RAS model. Jason Moak noted that this data will be available as x, y, and z points, and currently there are over 200 between the dam and Jaybird Landing. Donna Matthews asked if any of the 200 transects were monitoring real time data. Jason Moak responded that the transects are not monitors but are necessary to build the downstream HEC-RAS model. Alabama Power has deployed 20 level logger monitors in the Tallapoosa River below Harris Dam that are collecting data (elevation and temperature). Jason also noted that the USGS has recently installed a gage at Malone. Albert Eiland (downstream property owner) shared his experience with the high flow events in the Tallapoosa River and its effect on his property. He is concerned that raising the winter curve at Lake Harris will reduce any flood protection he may have on his property downstream of the Harris Dam. Barry Morris asked at what point in a rain event does the U.S. Army Corps of Engineers (USACE) intervene. Alan Peebles (Alabama Power) noted that Alabama Power and the USACE are in constant communication during high flow events and that Alabama Power's flood control operations are dictated by the USACE Harris Reservoir Regulation Manual. Barry asked if Alabama Power can override the Harris Reservoir Regulation Manual. Alan noted that it is possible to ask the USACE for a variance; however, Alabama Power would be required to do additional modeling prior to that variance request. Mr. Eiland asked about operations in 2003, including why Alabama Power did not release water when they knew a rain event was coming to the Harris area. Alabama Power does not pre-evacuate the reservoir because weather forecasts

are often inaccurate, and Alabama Power must abide by the USACE flood control procedures specified in the Harris Reservoir Regulation Manual.

Angie Anderegg reviewed the next steps for the Operating Curve Change Feasibility Analysis and the Downstream Release Alternatives studies. Alabama Power will file a Progress Update on all the studies before the end of October 2019. Between October and the first quarter (Q1) of 2020, Alabama Power will be modeling the alternatives in each study plan and will prepare an Initial Study Report that must be filed with FERC in April 2020. The Phase 1 Modeling report will be part of the Initial Study Report and will include effects on downstream flooding, generation, navigation, and drought management. Phase 2 of these studies will address effects on other resources. Additional HAT 1 meetings will be held in Q1 2020.

ATTACHMENT A
HARRIS ACTION TEAM 1 MEETING ATTENDEES



HARRIS PROJECT RELICENSING

HAT 1 SIGN-IN SHEET

September 11, 2019 9:00 AM

	Name/ Affiliation or Organization	Email
1	John Smith/ Stakeholder	jsmith@email.com
2	Kelly Yates, Env. Affairs	kayates@southernco.com
3	Stacy Thompson APC Env. Affairs	sthompson@southernco.com
4	DAVID Smith	inspector_003@yahoo.com
5	Glenell Smith	gardenergirl07@yahoo.com
6	Trey Stevens	trstevens@southernco.com
7	Joe Stevens	tjstevens@southernco.com
8	Jason Moak	jason.moak@kleinschmidtgroup.com
9	Kelly Schaeffer	kelly.schaeffer@kleinschmidtgroup.com
10	Barry Morris	rbmorris333@gmail.com
11	Mike Holley	mike.holley@denn.alabama.gov
12	Tina Freeman	tpfreema@southernco.com



HARRIS PROJECT RELICENSING

HAT 1 SIGN-IN SHEET

September 11, 2019 9:00 AM

Name/ Affiliation or Organization	Email
13 Sheila Smith APC	Sasmith@southernco.com
14 ALBERT EILAND	EILANDFARM@AOL.COM
15 Nathan Aycock	Nathan.Aycock@dcur.alabama.gov
16 Butch Tucker	Ketter lakebutch@kw.com
17 Taconya Gear	taconya.gear@dcur.alabama.gov
18 Sylvia French	sandrifrench@gmail.com
19 TOM GARLAND	→ jfcrow@southernco.com
20 Jim Crew	
21 Alan Peoples	alpeoples@southernco.com
22 Kenneth Odum	kodum@southernco.com
23 Mitch Reed	mitchell.reed@trc.org
24 TINA L Mills	tmills@southernco.com



HARRIS PROJECT RELICENSING

HAT 1 SIGN-IN SHEET

September 11, 2019 9:00 AM

Name/ Affiliation or Organization	Email
25 Fred Leslie/ADEM Field Ops	fal@adem.alabama.gov
26 Chris Goodman	cggoodman@southernco.com
27 Keith Chandler	
28 Carl + Chaffin	cchaffin@alabama.org
29 Jason Carlee	jcarlee@southernco.com
30 Ashley McVicar	ammcvica@southernco.com
31 Dona Matthews	donna.mat@gol.com
32 Kristie Coffman /ALCFWRU	kmo0025@auburn.edu
33 Jennifer Raspberry /APC	
34 HARRY E. MERRILL	HARRY.MERRILL47@gmail.com
35 FERC Staff on phone	Sarah Salazar
36	

ATTACHMENT B
SEPTEMBER 11, 2019 HAT 1 PRESENTATION

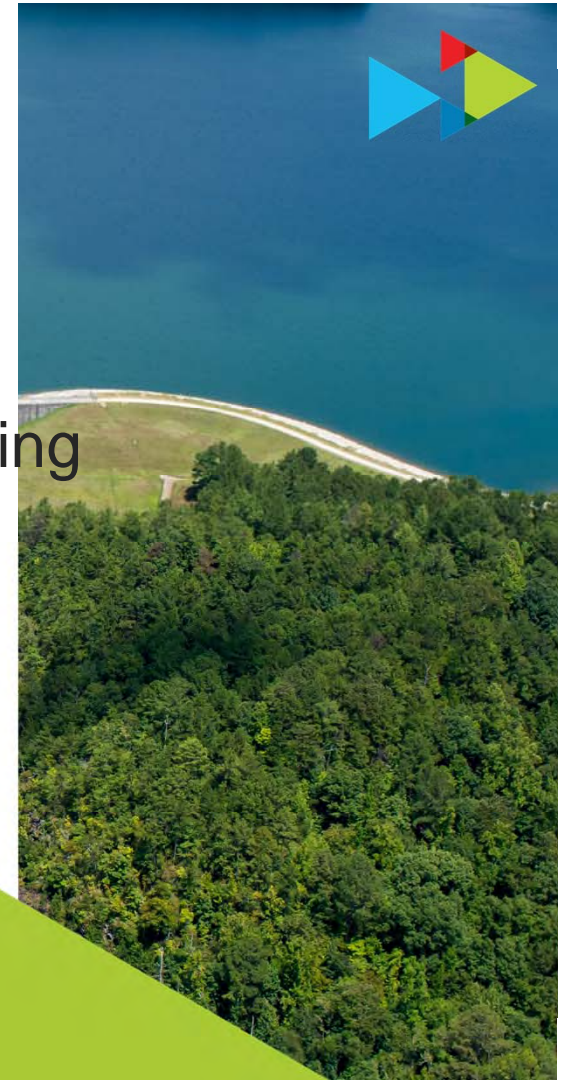


R.L. Harris Project Relicensing

Project Operations – HAT 1

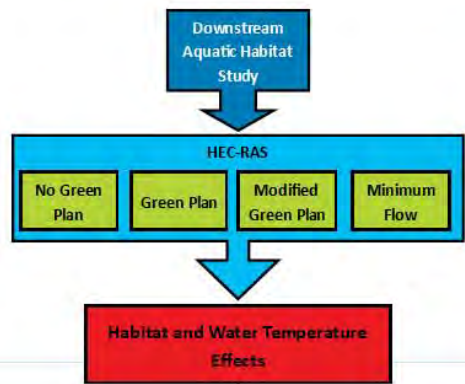
Model Inputs and Methodologies for Operating
Curve Change Analysis and Downstream
Release Alternatives

September 11, 2019

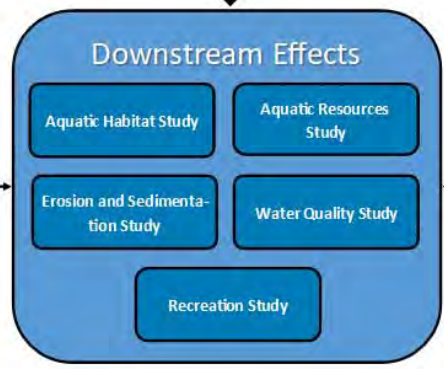
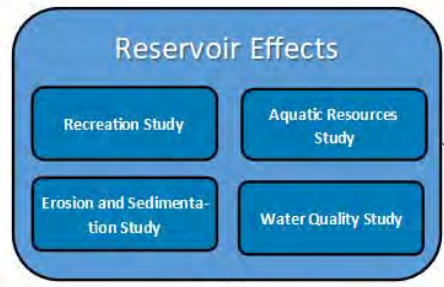
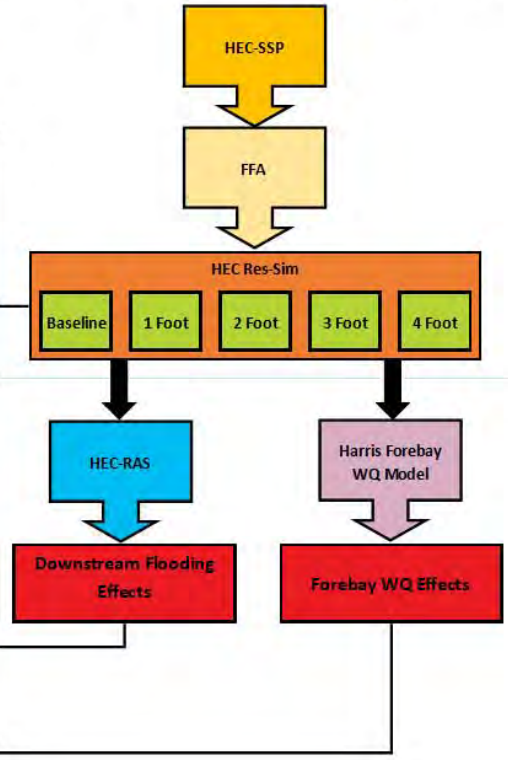




Downstream Release Alternatives Study

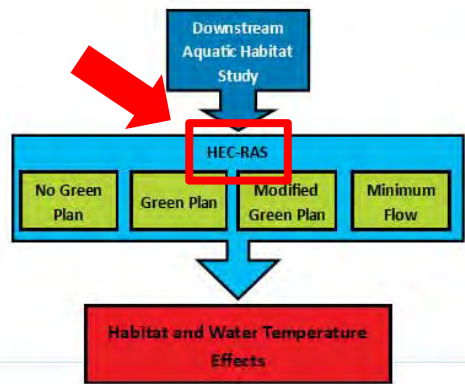


Operating Curve Change Feasibility Analysis Study

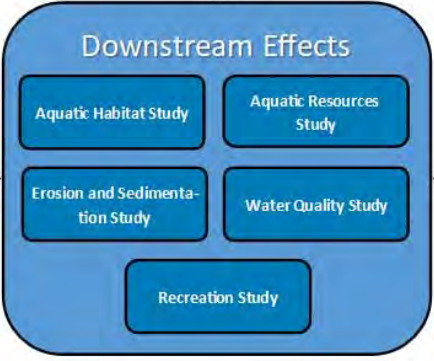
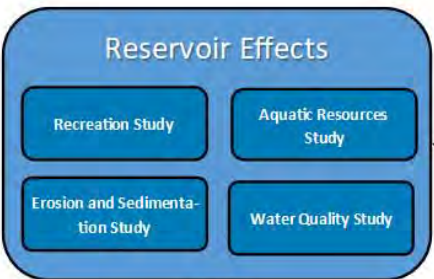
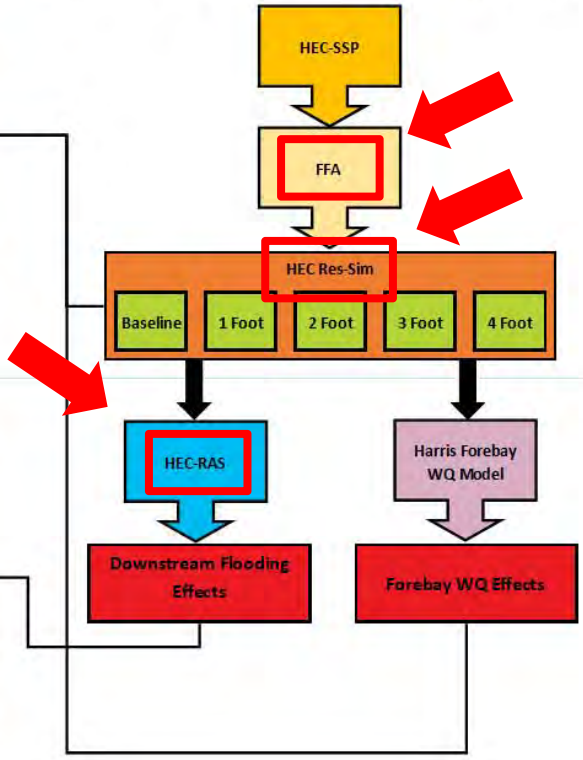




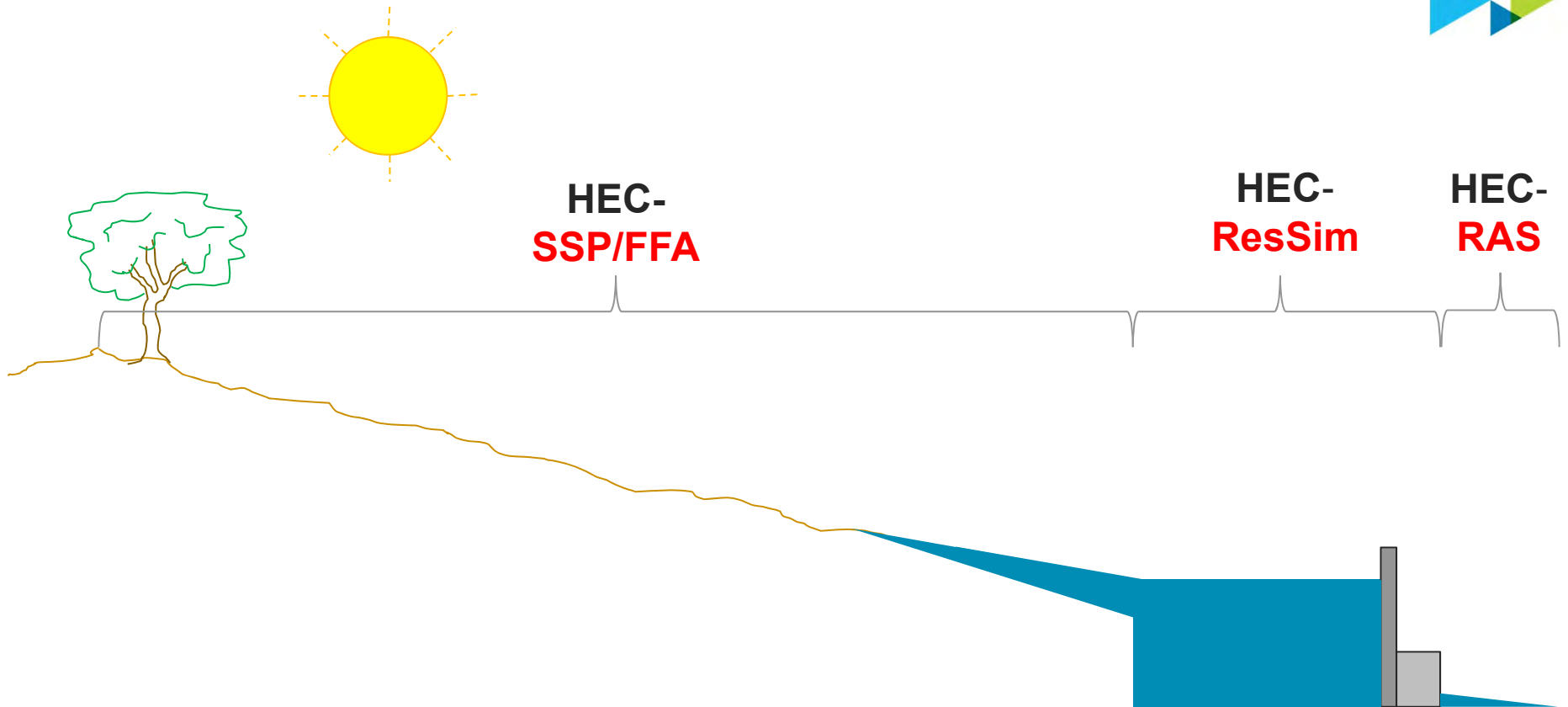
Downstream Release Alternatives Study



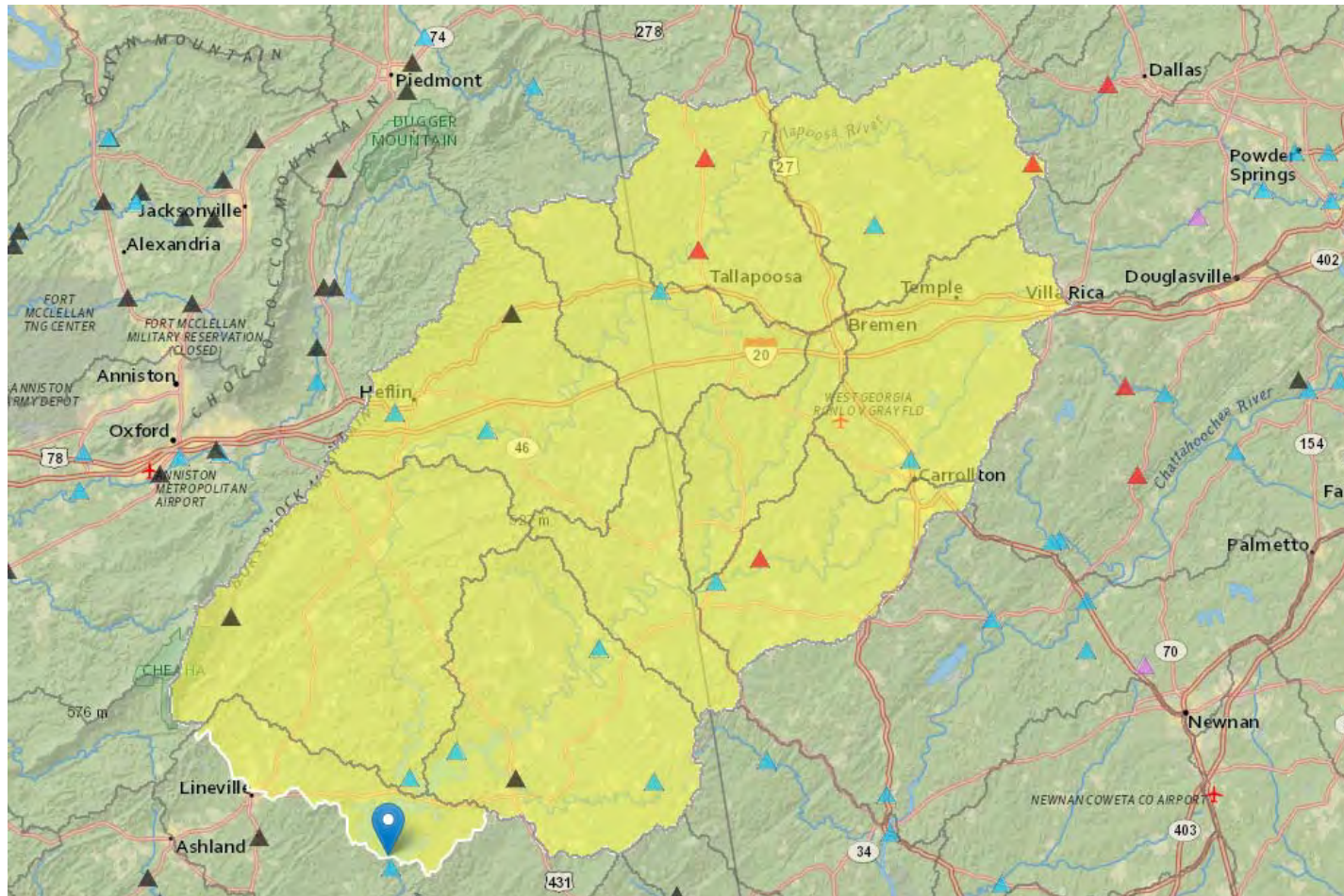
Operating Curve Change Feasibility Analysis Study



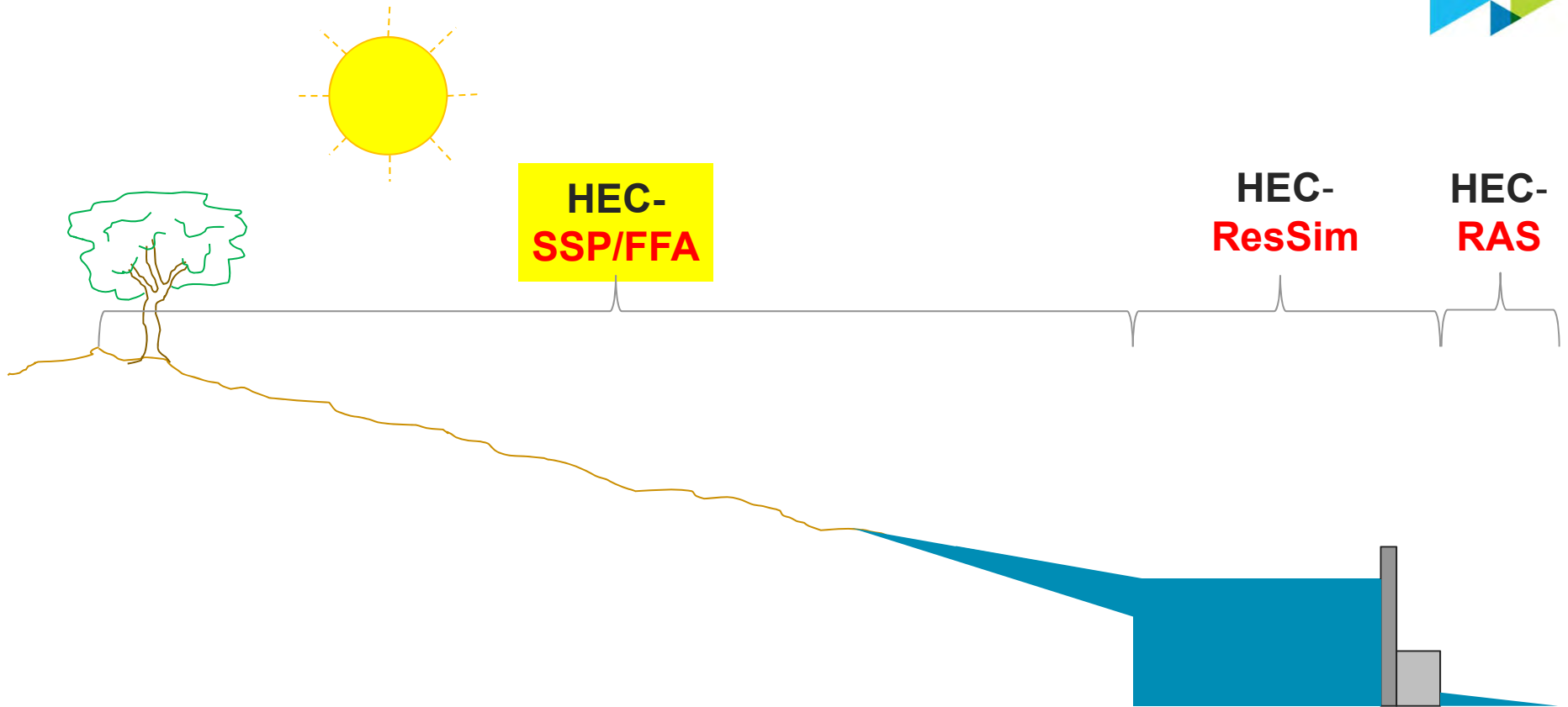
Where the models are used...



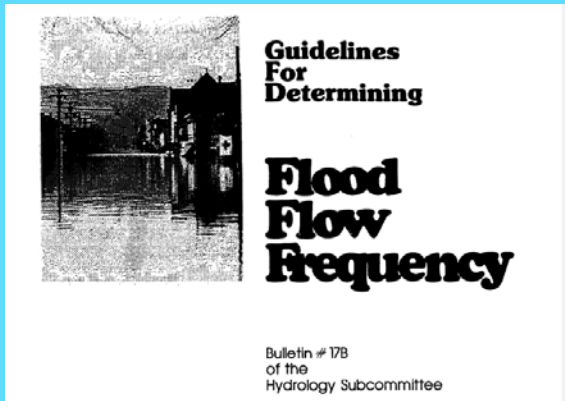
Harris Watershed Boundary



Where the models are used...



HEC-SSP (Statistical Software Package)



FFA
Flood Frequency Analysis
for the Coosa and
Tallapoosa Rivers



100-year flood



Why the 100-year flood?

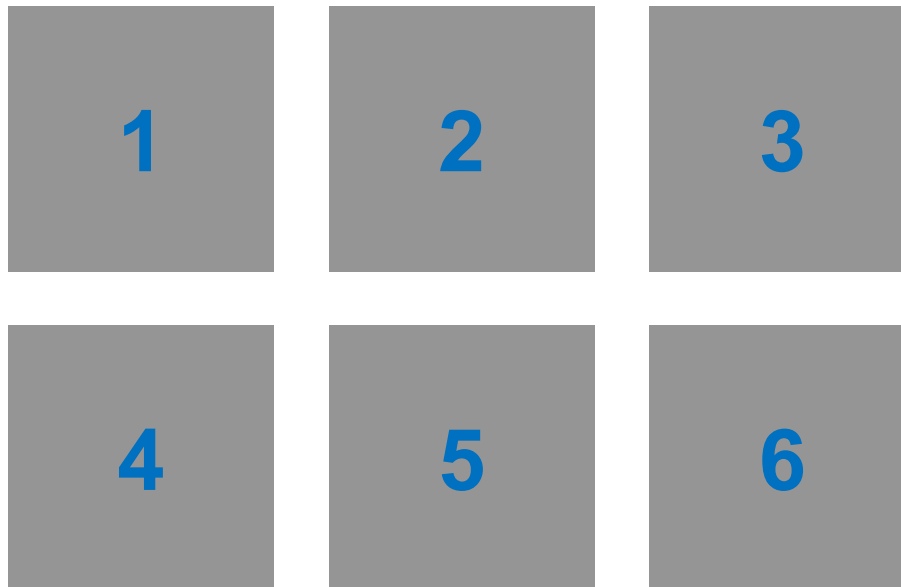
- U.S. Government in the 1960's decided the 100-year flood would be the basis for the National Flood Insurance Program, and it has been the standard since
- This makes the 100-year flood event the base of what **MUST** be studied



Exactly what do you mean by the “100-year” flood event?

- **It is a high streamflow event that has a 1-percent chance of being equaled or exceeded in any year.**
- The keyword here is “chance”
- Consider the following: if we had 1000 years of annual streamflow data, we would expect to see ten 100-year floods (1-percent chance floods) over the 1000-year record. These ten events could occur at any time during the 1000-year period.

Let's play a game of "chance." Pick a number. One card has a dollar sign under it. What are your chances of picking the right one?



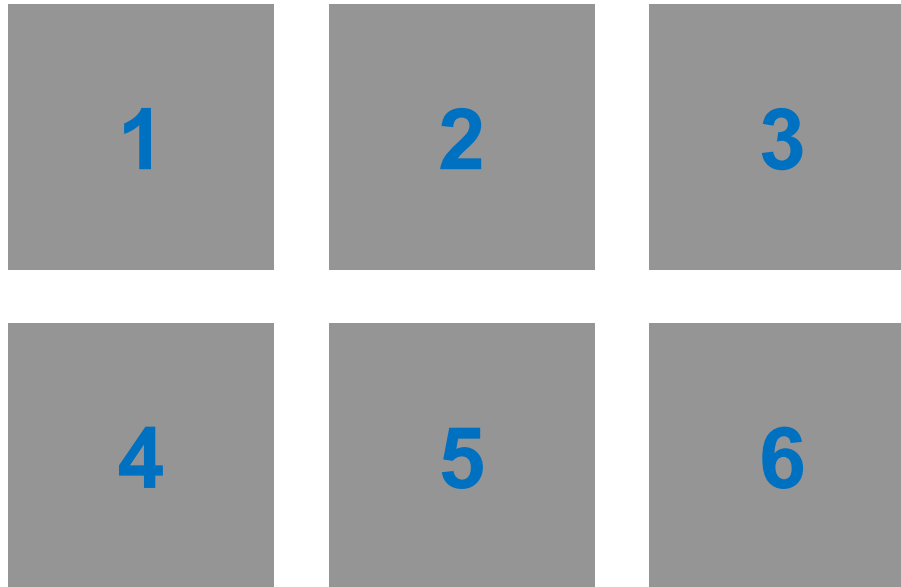
Let's play a game of "chance." Pick a number. One card has a dollar sign under it. What are your chances of picking the right one?





What if we turned the cards back over and shuffled the dollar sign to randomly land on any card and then I, once again, ask you to pick a number?

How many would pick the 4-Card again? Why or Why not?



How many would pick a different card because you think that 1, 2, 3, 5, and 6 will have the \$ before it can come back around to the 4-Card?

Very Common Misconception



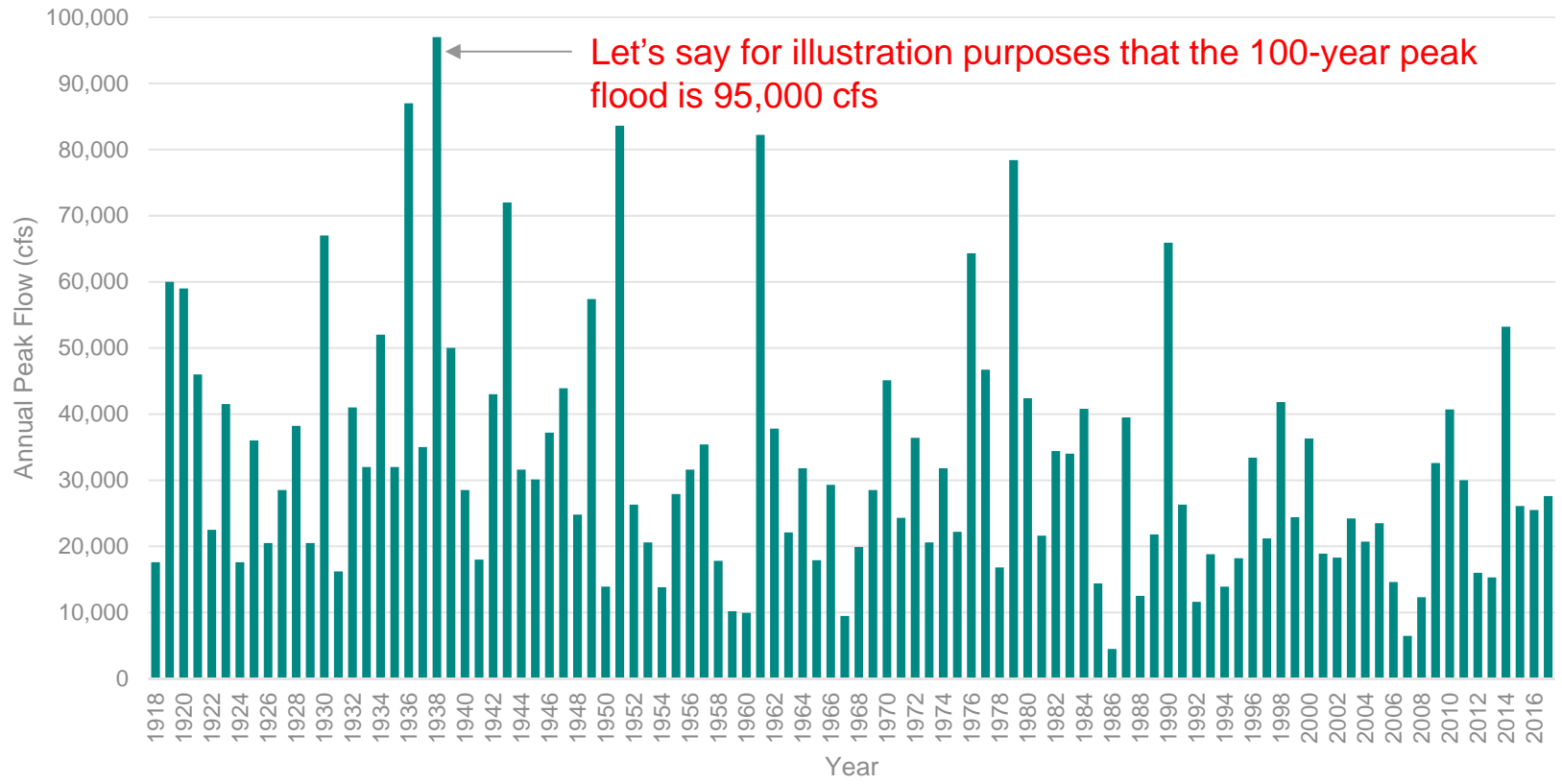
“If the 100-year flood just occurred, then we don’t have to worry about another flood like that for the next 99 years.”

WRONG!!!



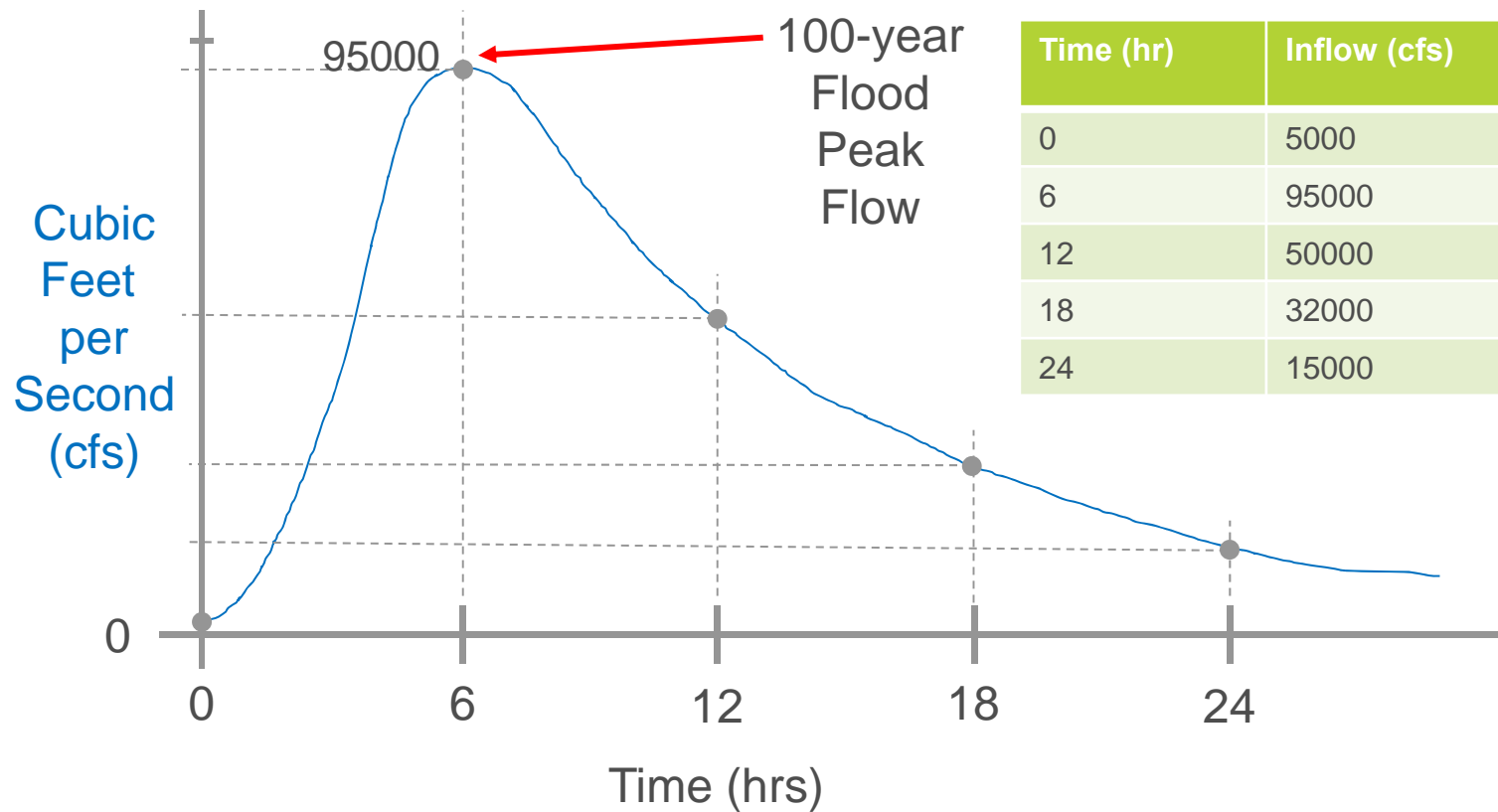
(For Illustration Purposes Only)

Nearby Stream, AL (100 years of record)

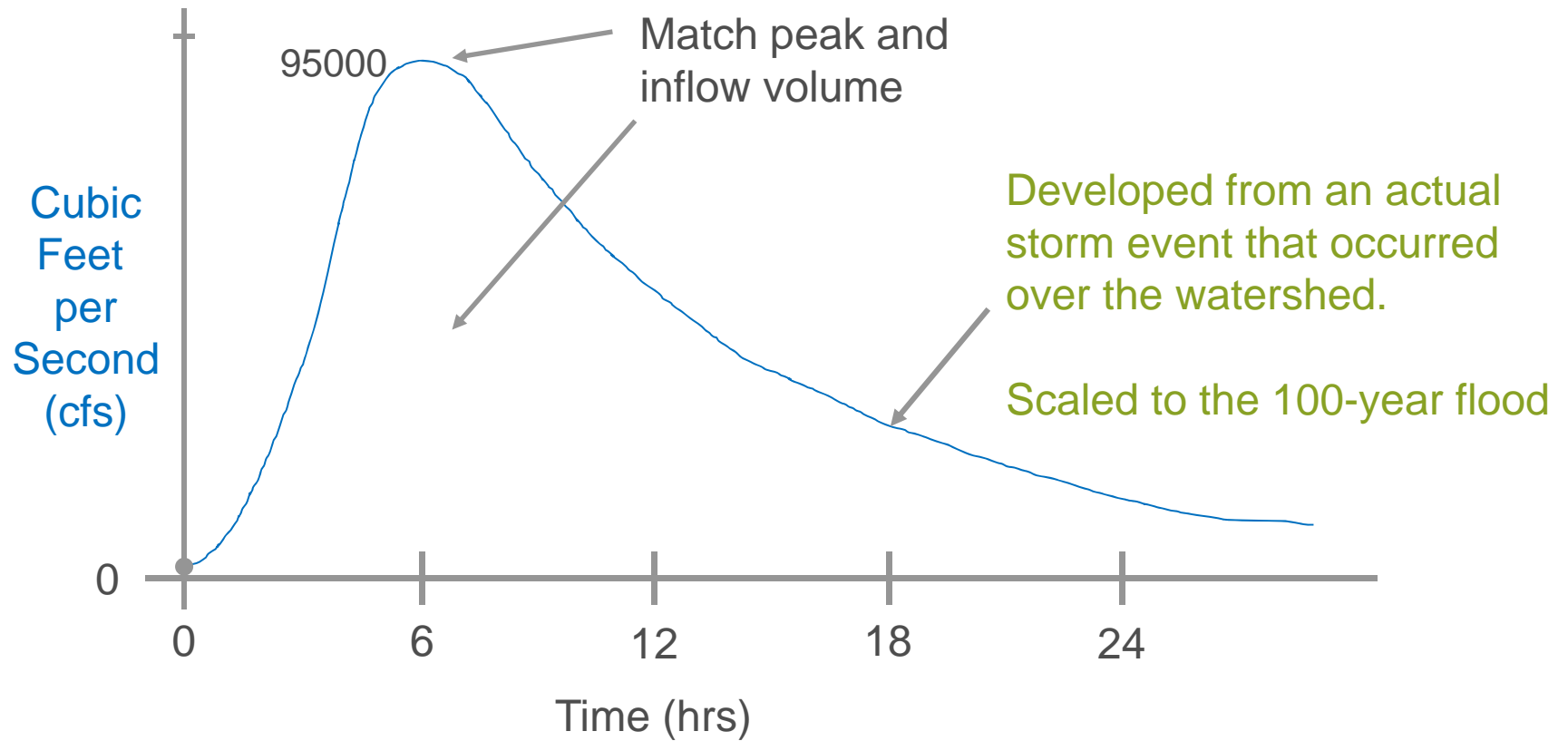




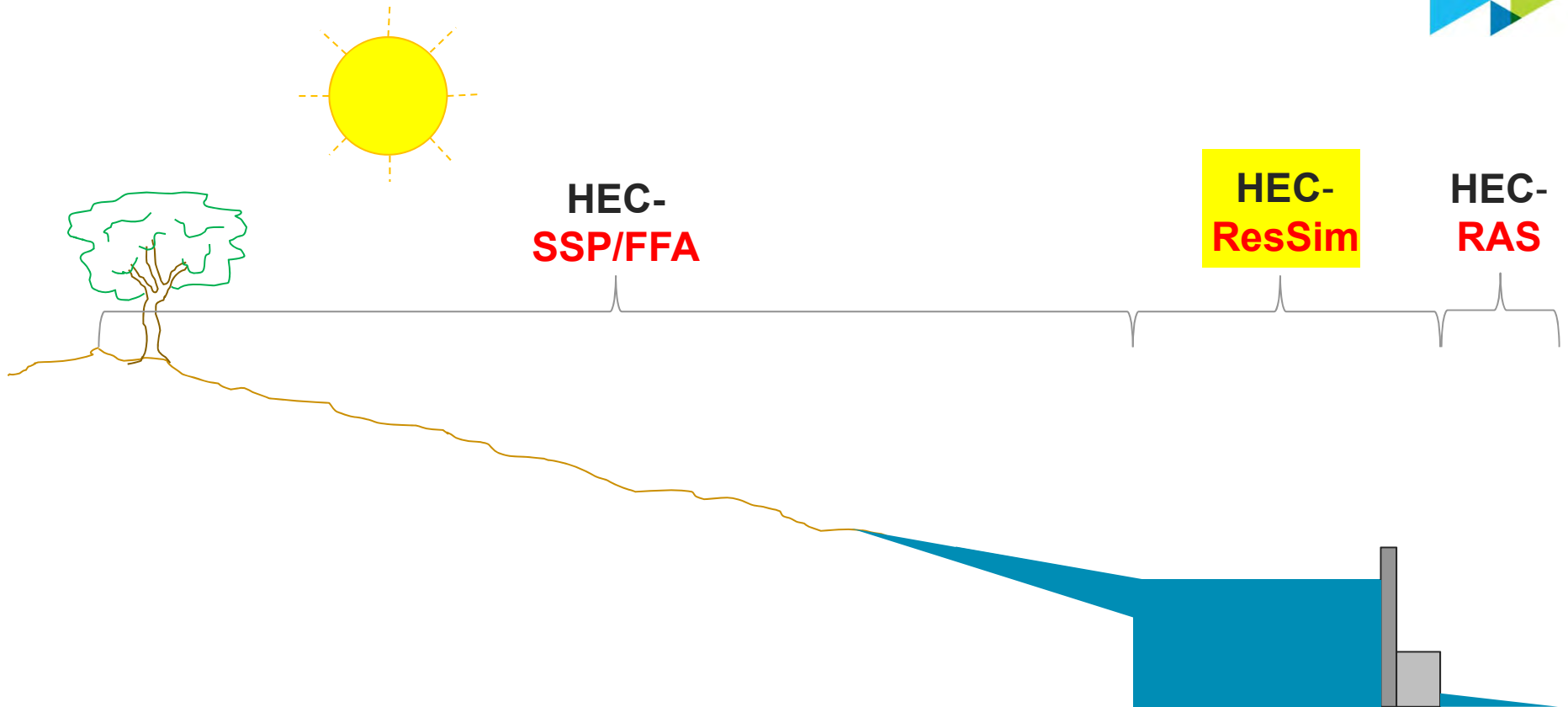
Inflow Hydrograph for Nearby Stream, AL (For Illustration Purposes Only)



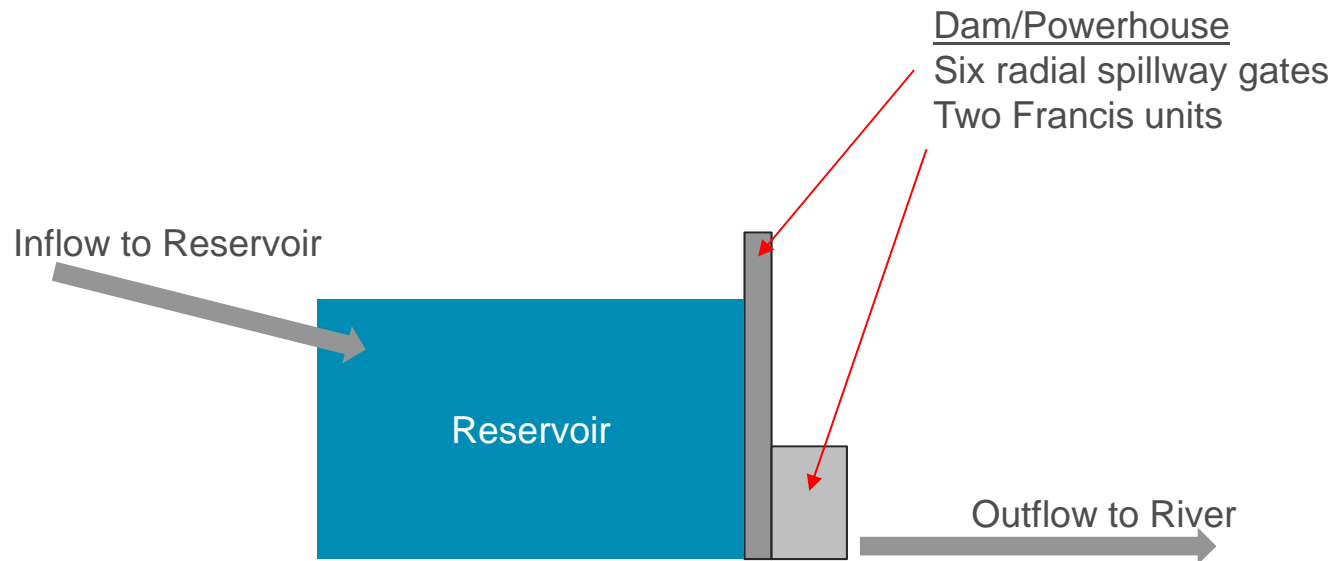
Inflow Hydrograph for Nearby Stream, AL (For Illustration Purposes Only)



Where the models are used...



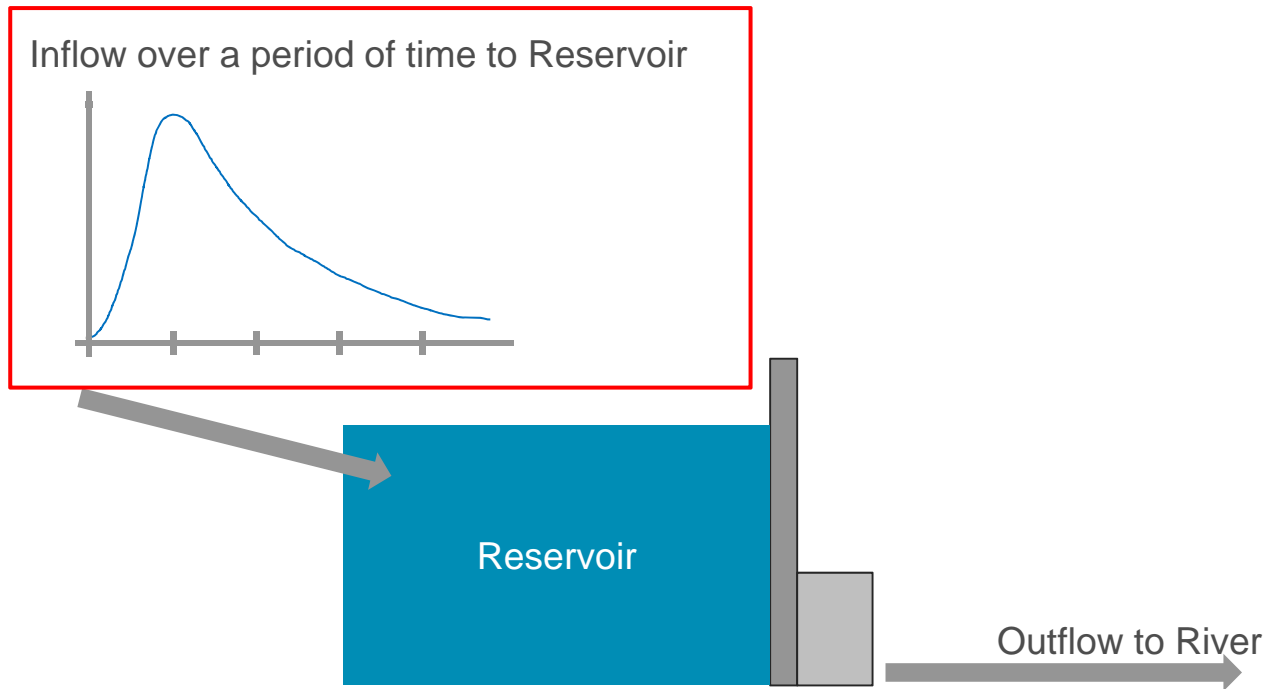
Schematic used to discuss HEC-ResSim



How HEC-ResSim sees the Reservoir



1. FFA and "scaled" actual event

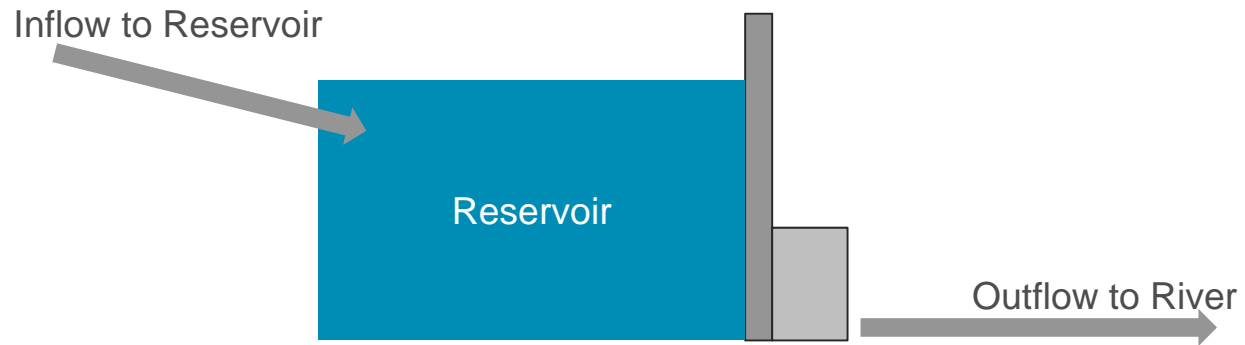


HEC-ResSim



2.

Res. Elevation	Volume (ac-ft)
790	394724
791	404840
792	415170
793	425721
794	436495



HEC-ResSim



2.

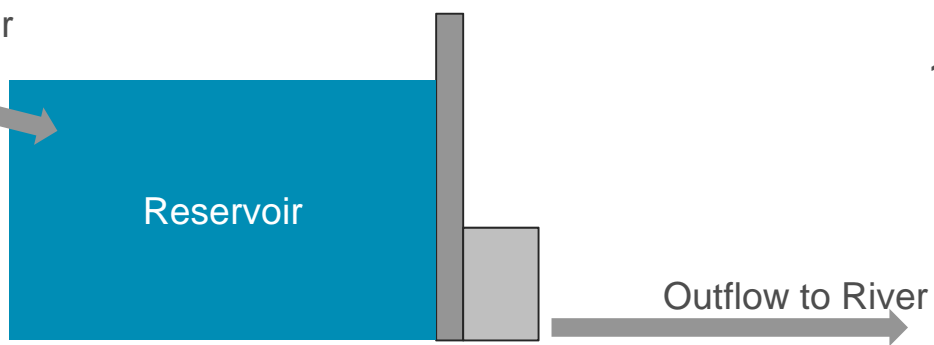
Res. Elevation	Volume (ac-ft)
790	394724
791	404840
792	415170
793	425721
794	436495

What is an ac-ft (or acre-foot)?

It is a measure of volume where one acre-foot is an area of one acre covered with one foot of water



Inflow to Reservoir



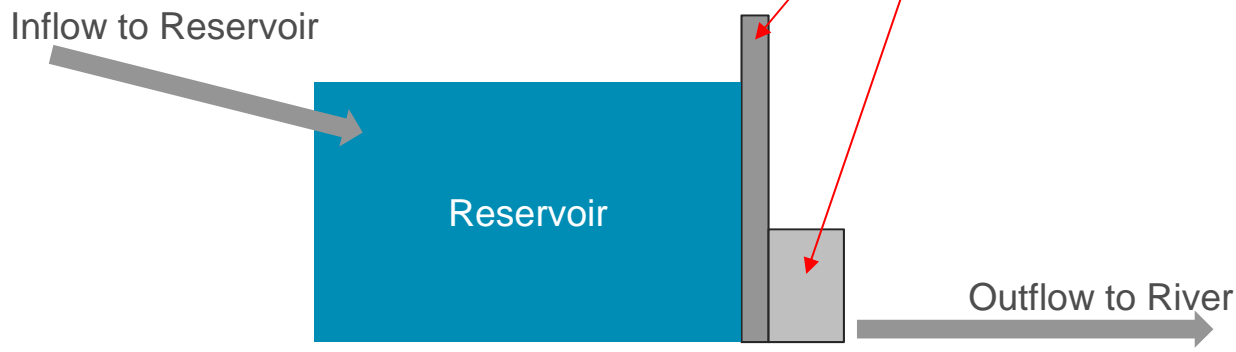
HEC-ResSim



3.

Information about how much water can be passed through the turbines and the spillway gates at different water surface elevations

Dam/Powerhouse
Six radial spillway gates
Two Francis units





HEC-ResSim

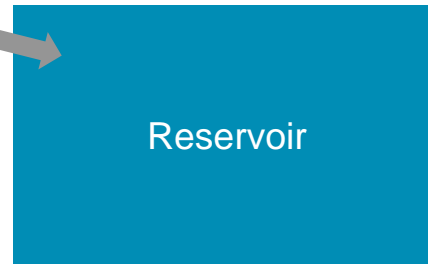
4.

Reservoir Regulation Manual

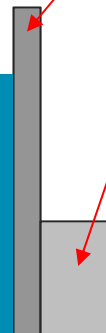
This tells us how the reservoir must be operated.

For high flows, the manual mandates how we must operate the turbines and spillway gates in accordance with approved U.S. Army Corps of Engineers rules called Flood Control Regulation Schedule

Inflow to Reservoir



Reservoir



Dam/Powerhouse
Six radial spillway gates
Two Francis units



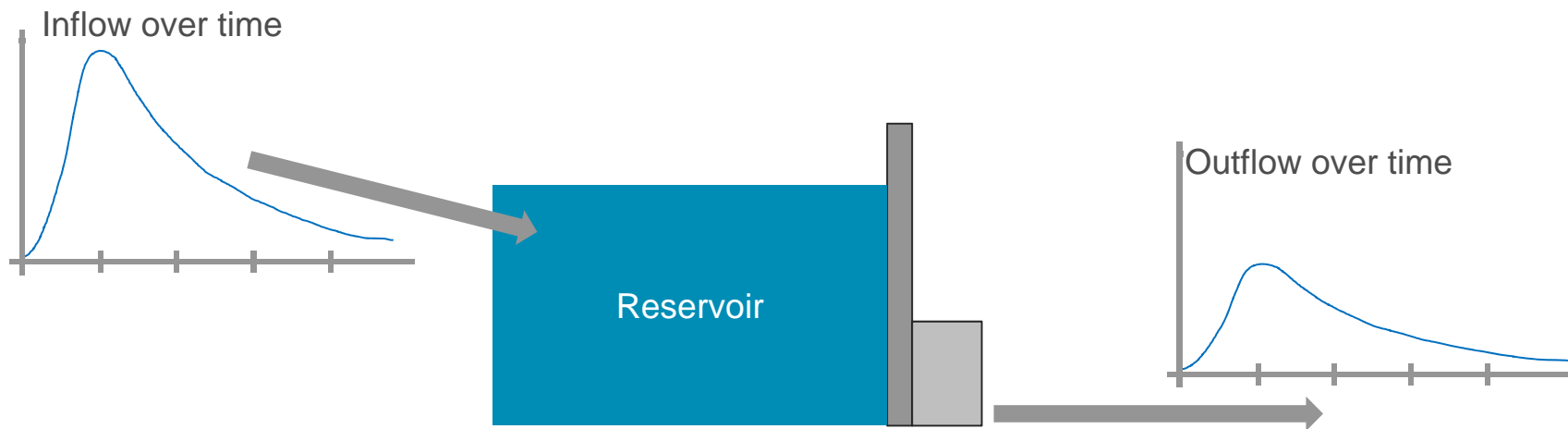
Outflow to River

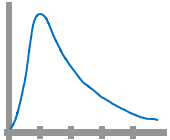


If **INFLOW** is higher than **OUTFLOW**: **ELEVATION** ↑

If **INFLOW** is less than **OUTFLOW**: **ELEVATION** ↓

If **INFLOW** is equal to **OUTFLOW**: No Change in **ELEVATION**





Inflow

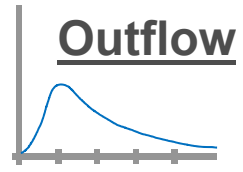


NO control of this valve

Reservoir



Turbines and spillway gates operated according to Flood Control Regulation Schedule



Outflow

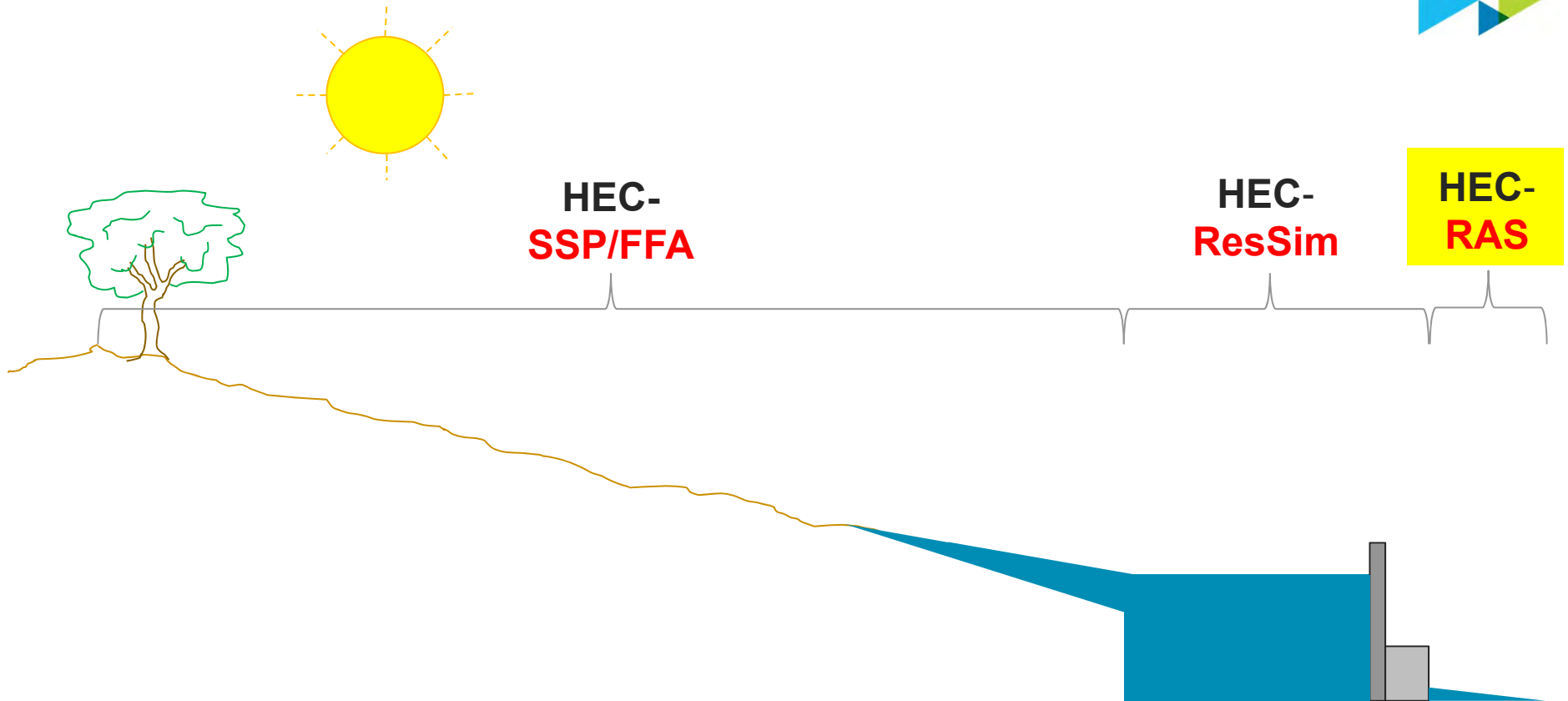
Outputs from HEC-ResSim



- How the reservoir elevation changes over time during a flood event
- The outflow hydrograph (turbines + spillway) to be used in **HEC-RAS**

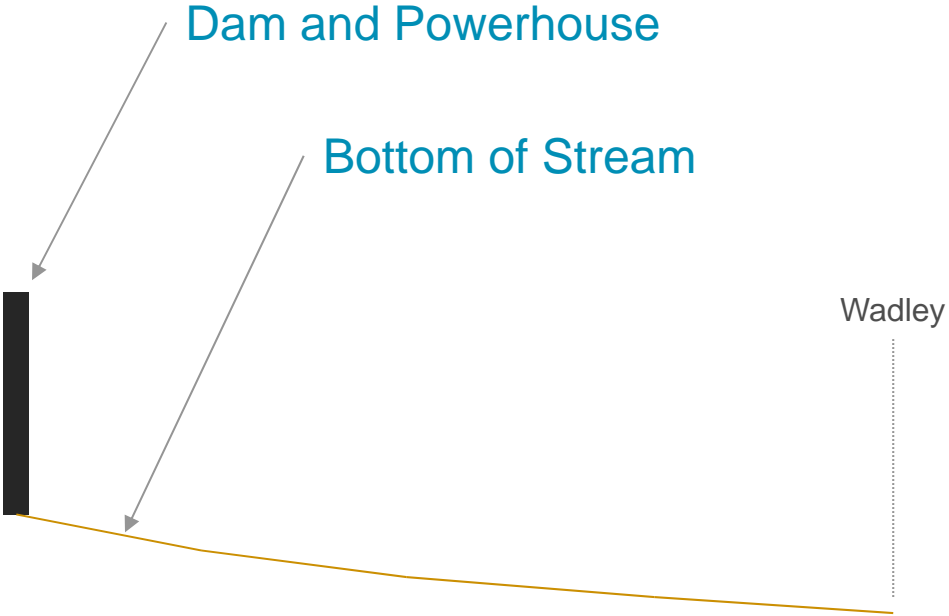
***Both controlled by the Flood Control Regulation Schedule**

Where the models are used...



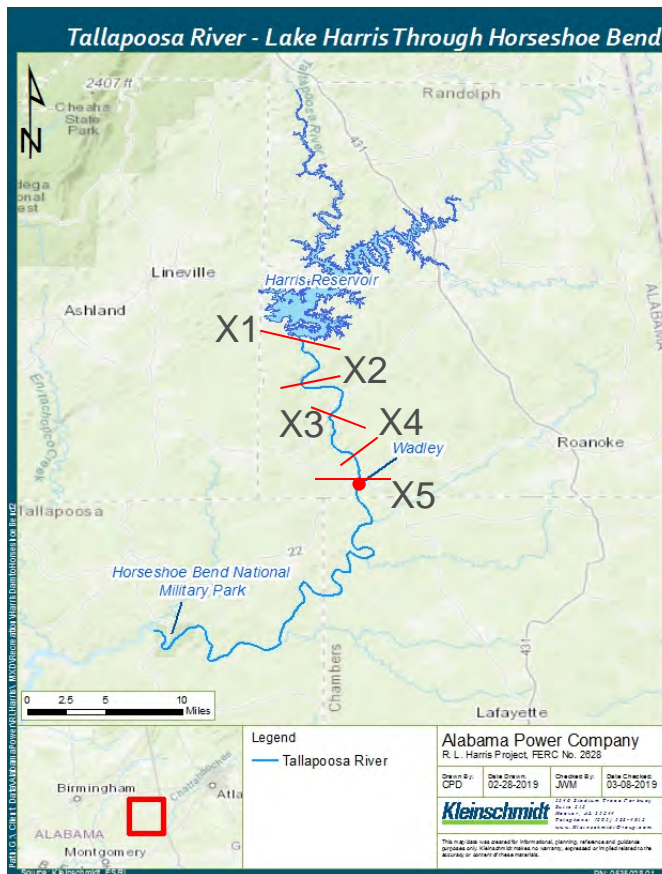
Schematic used to discuss HEC-RAS

(For Illustrations Purpose Only)

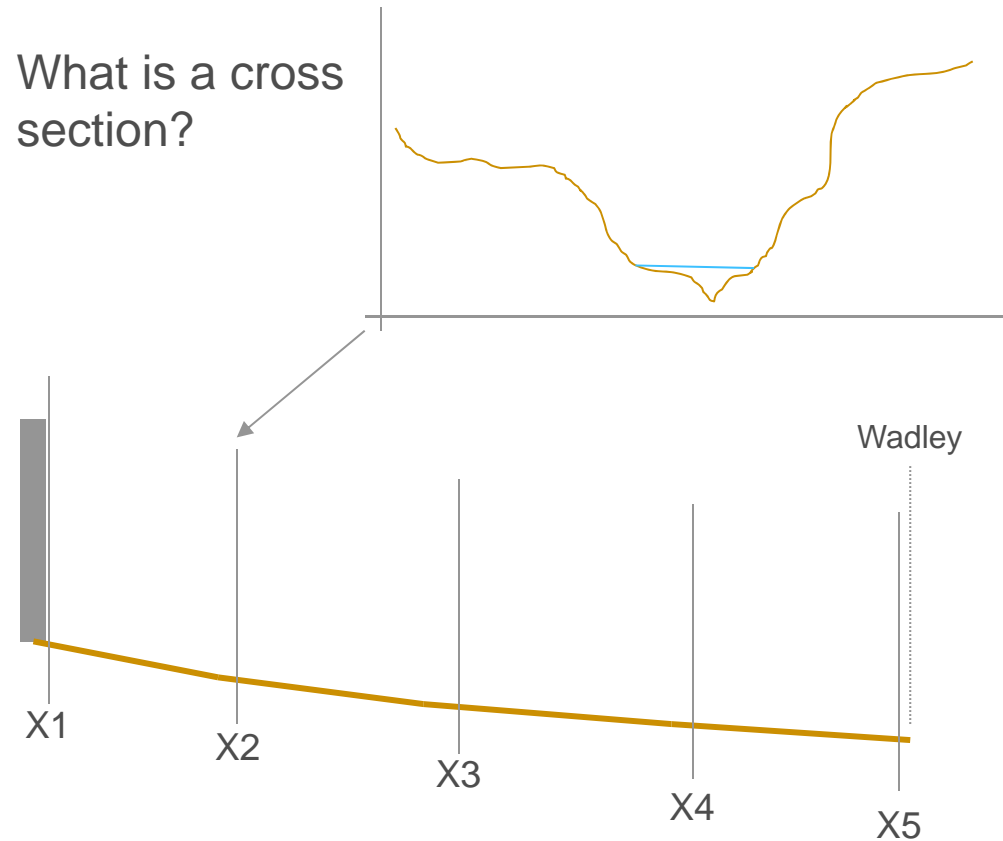


HEC-RAS Stream Cross Sections

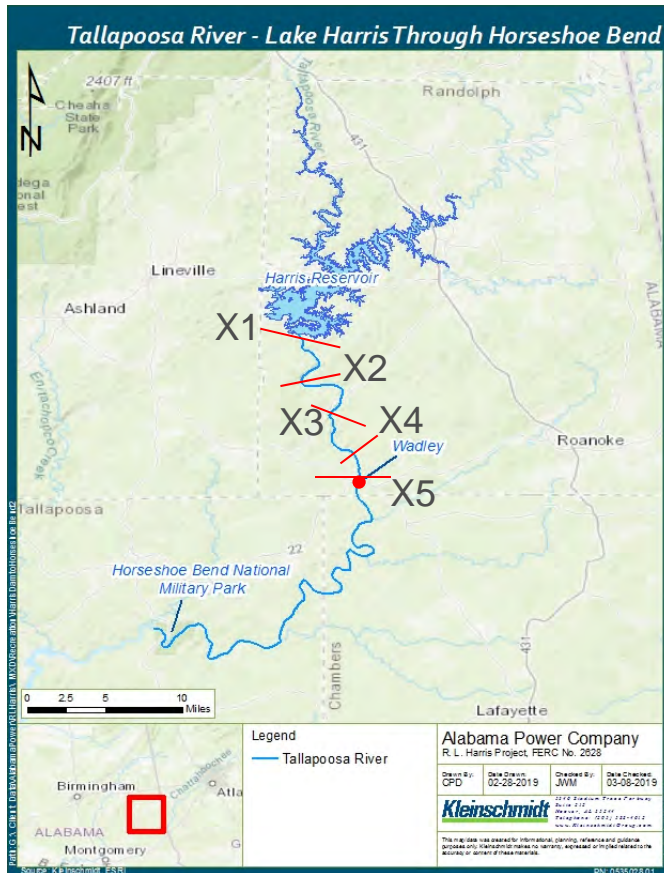
(For Illustration Purposes Only)



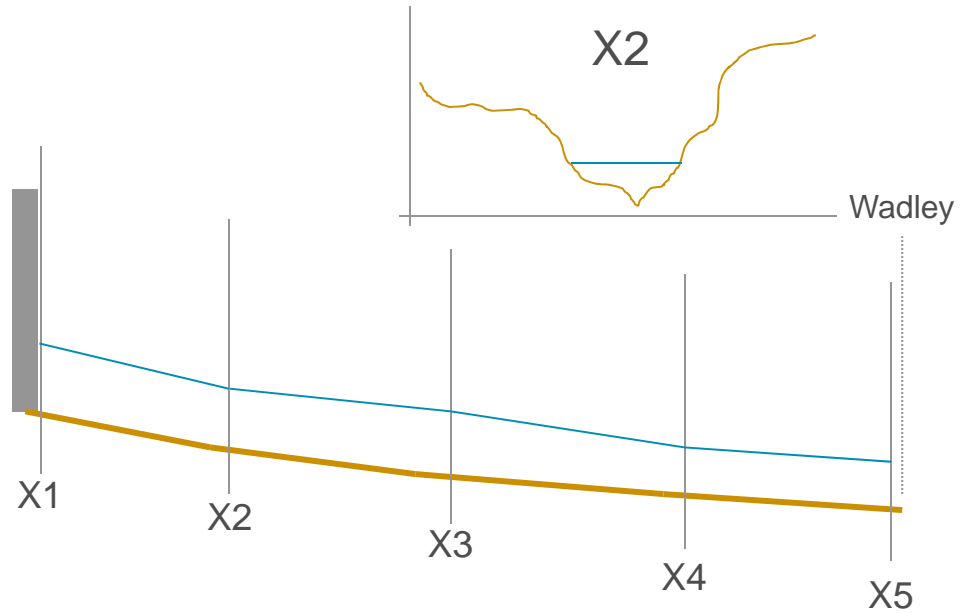
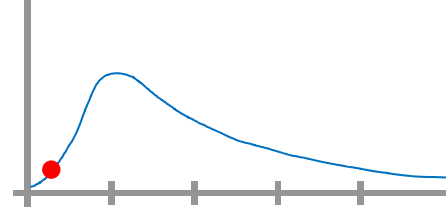
What is a cross section?



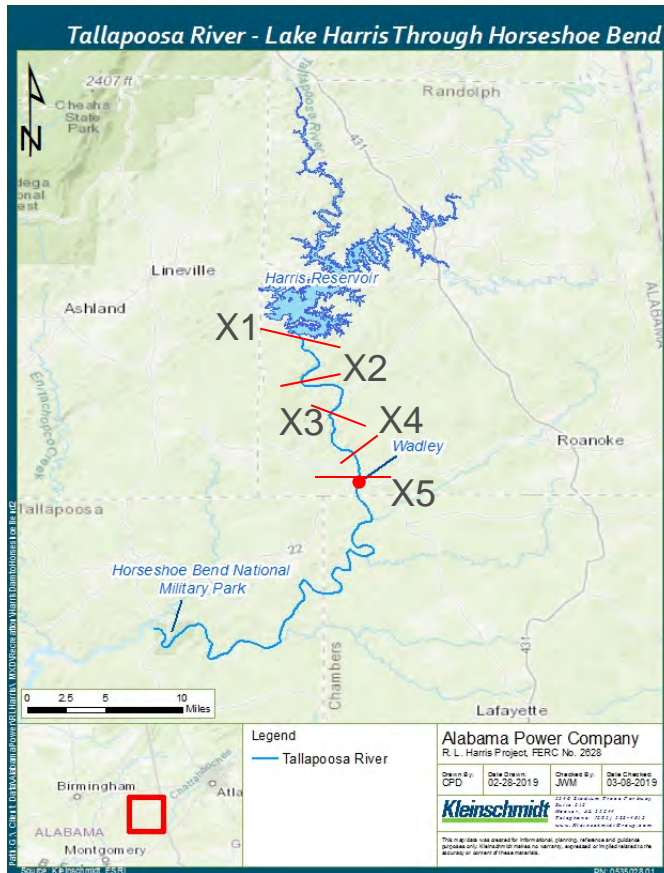
HEC-RAS (For Illustration Purposes Only)



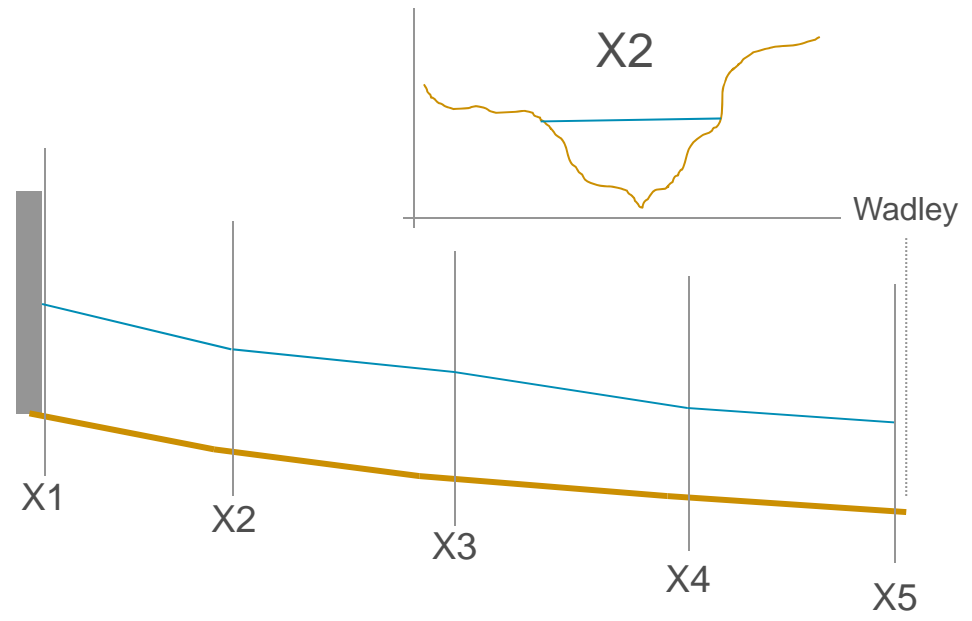
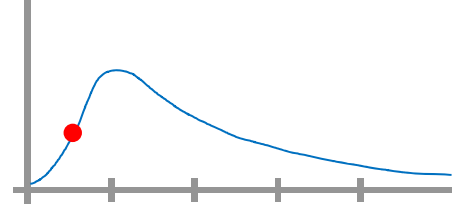
Outflow from plant



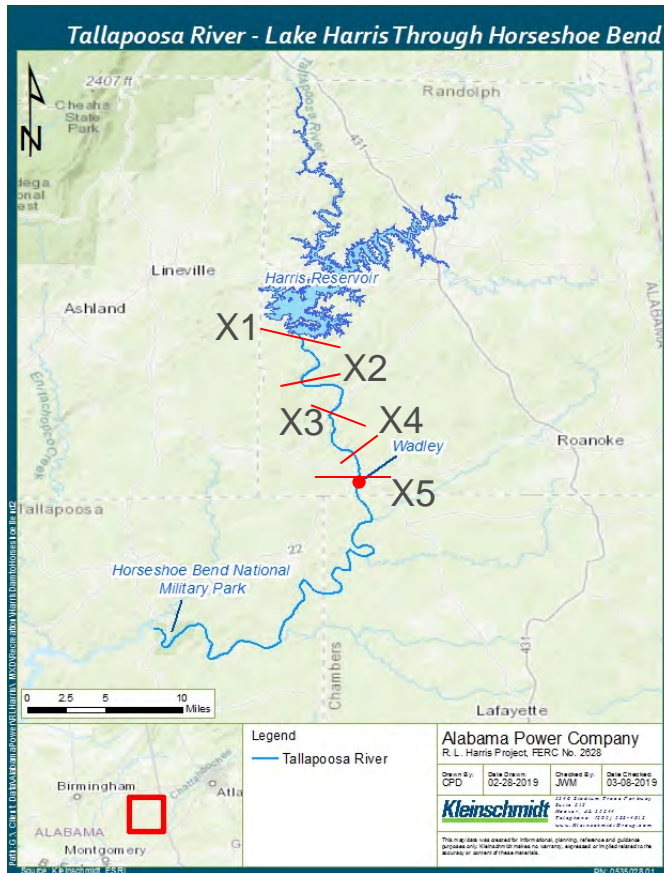
HEC-RAS (For Illustration Purposes Only)



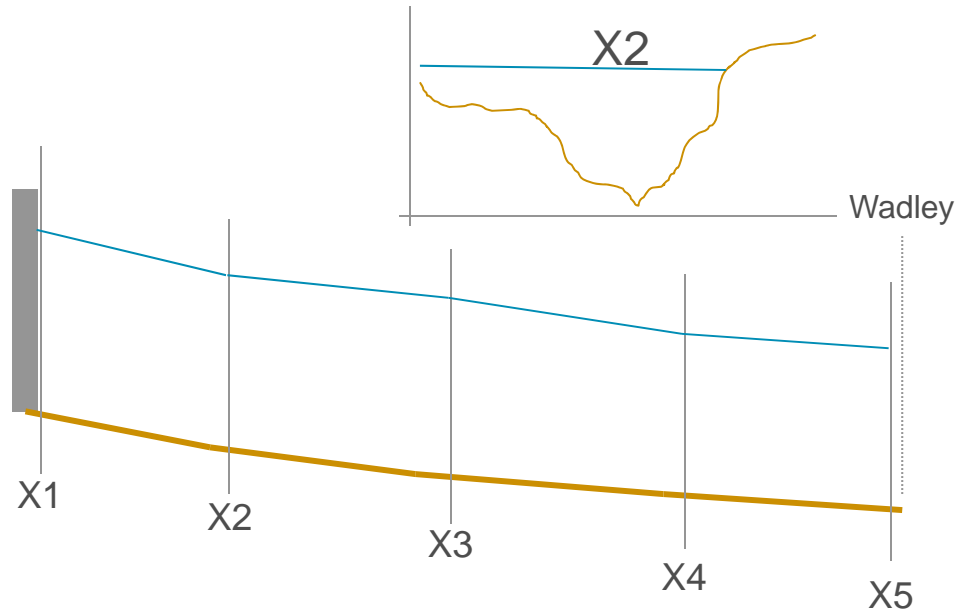
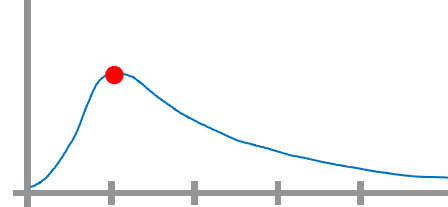
Outflow from plant



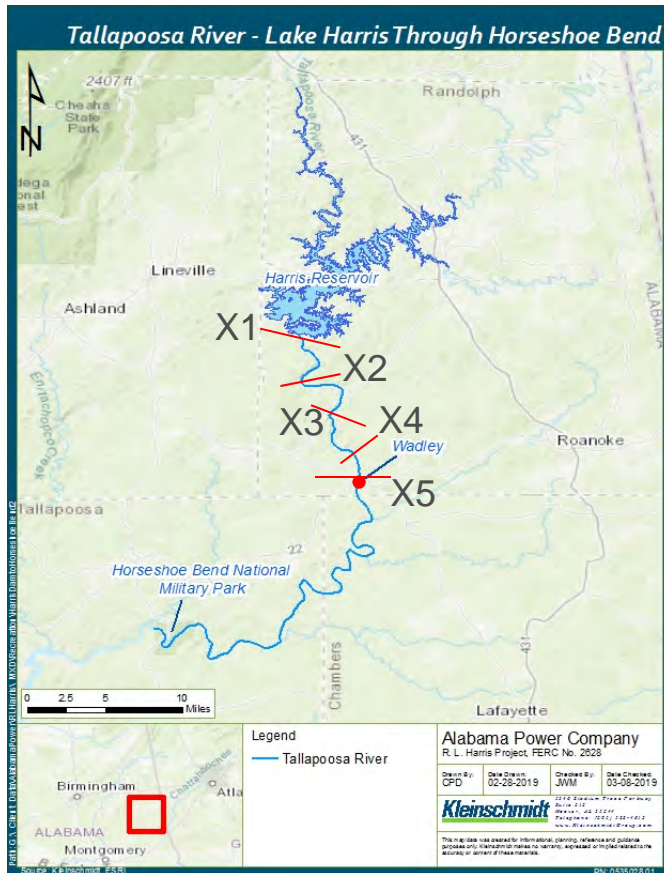
HEC-RAS (For Illustration Purposes Only)



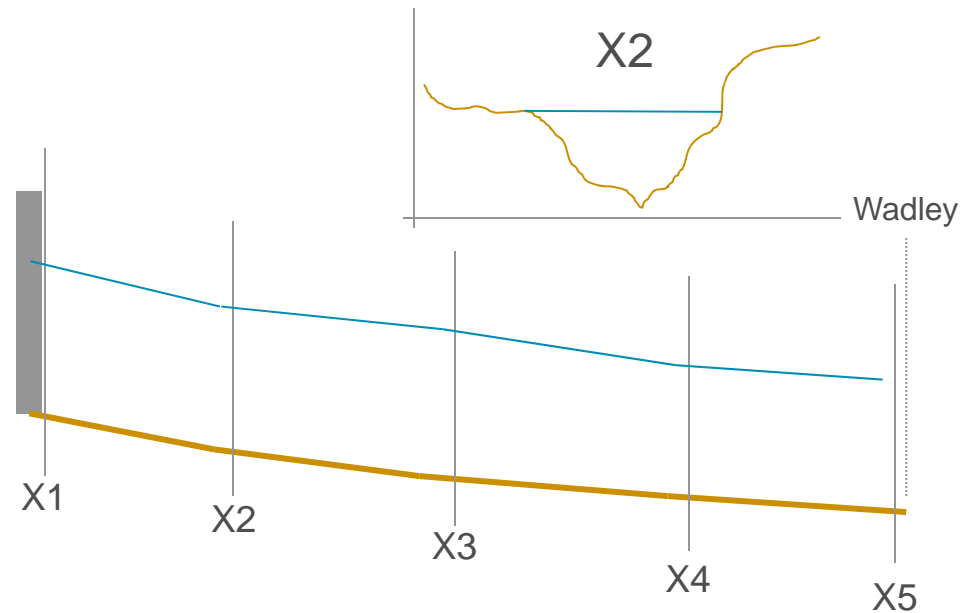
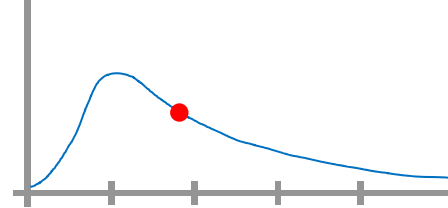
Outflow from plant



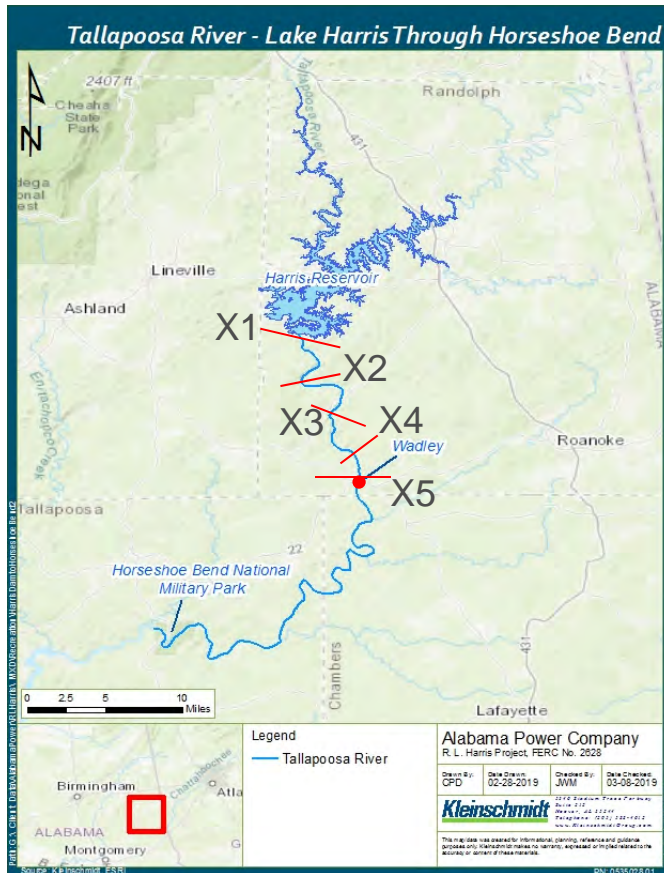
HEC-RAS (For Illustration Purposes Only)



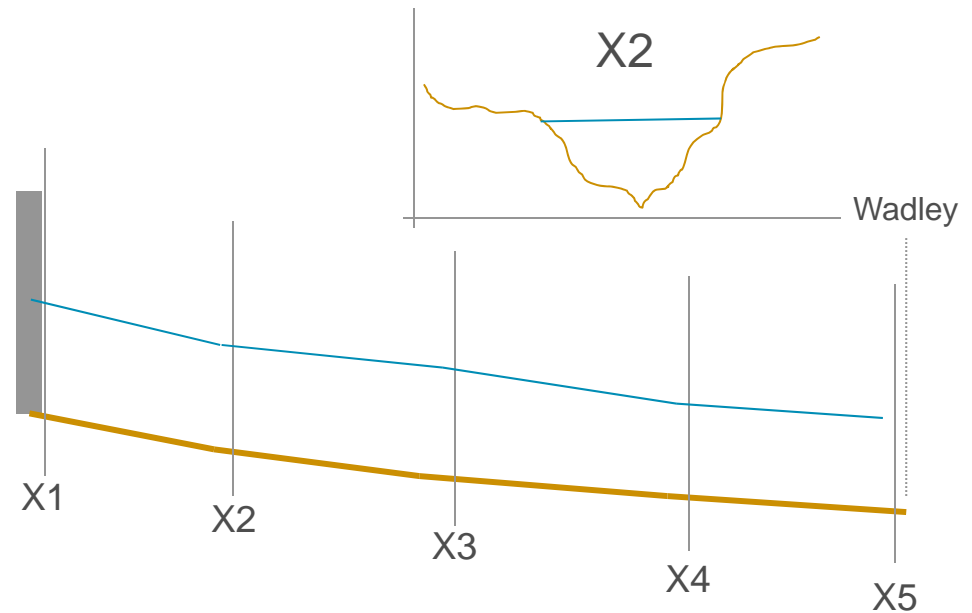
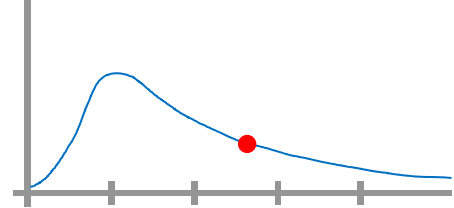
Outflow from plant



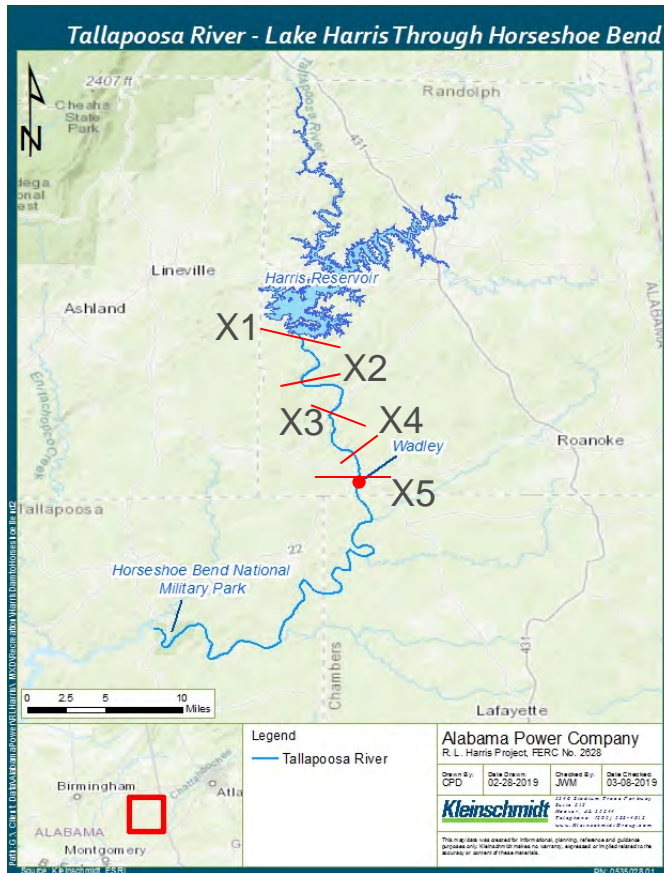
HEC-RAS (For Illustration Purposes Only)



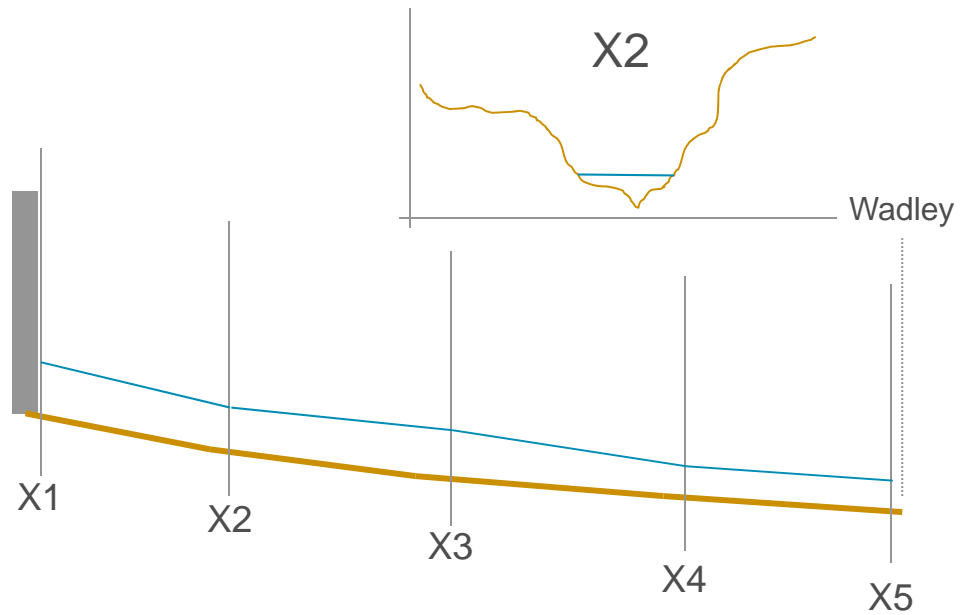
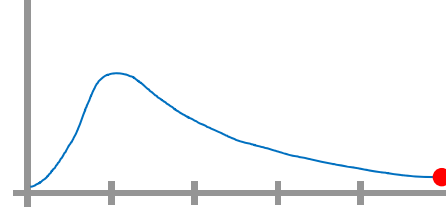
Outflow from plant



HEC-RAS (For Illustration Purposes Only)

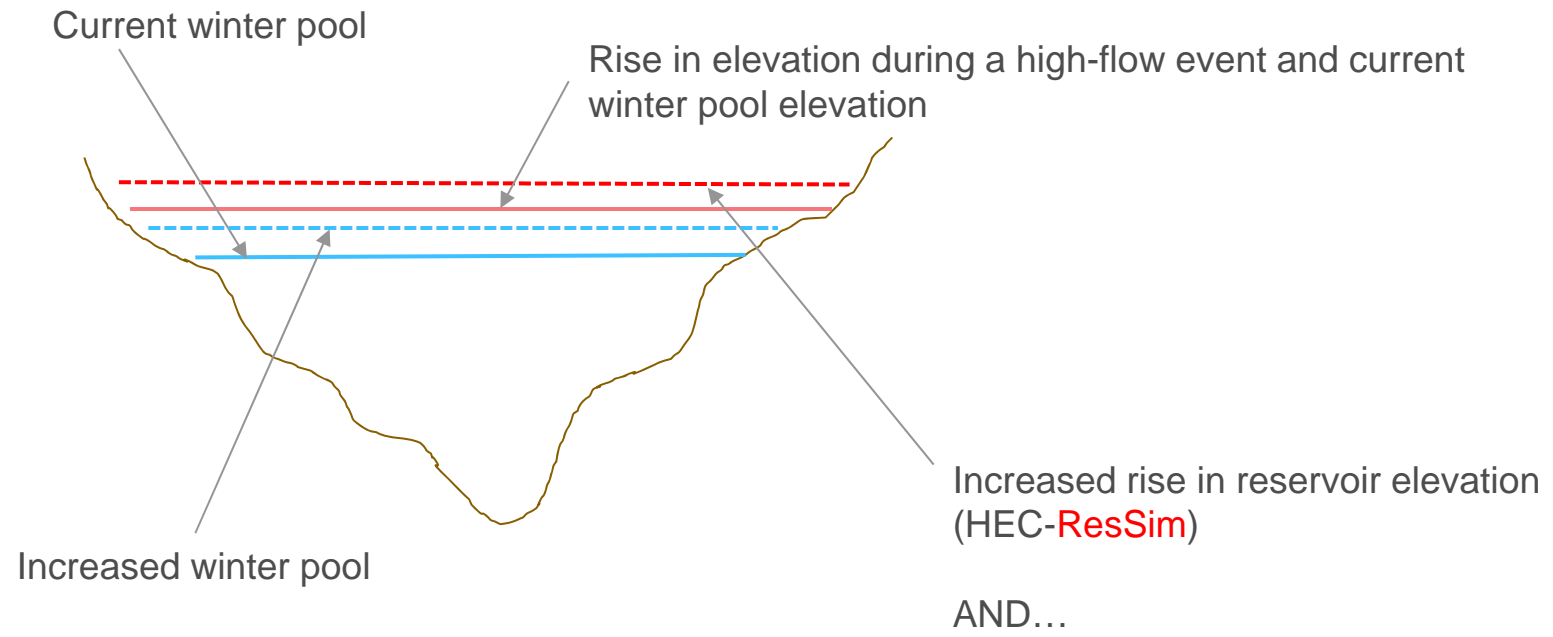


Outflow from plant

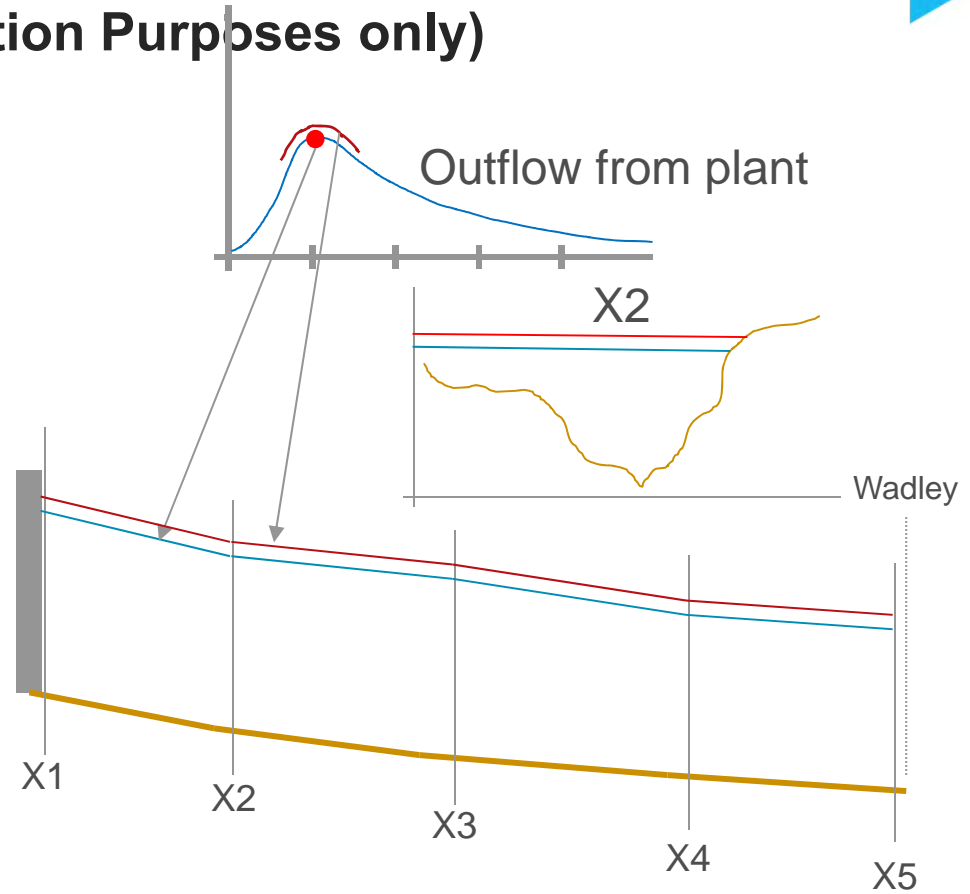
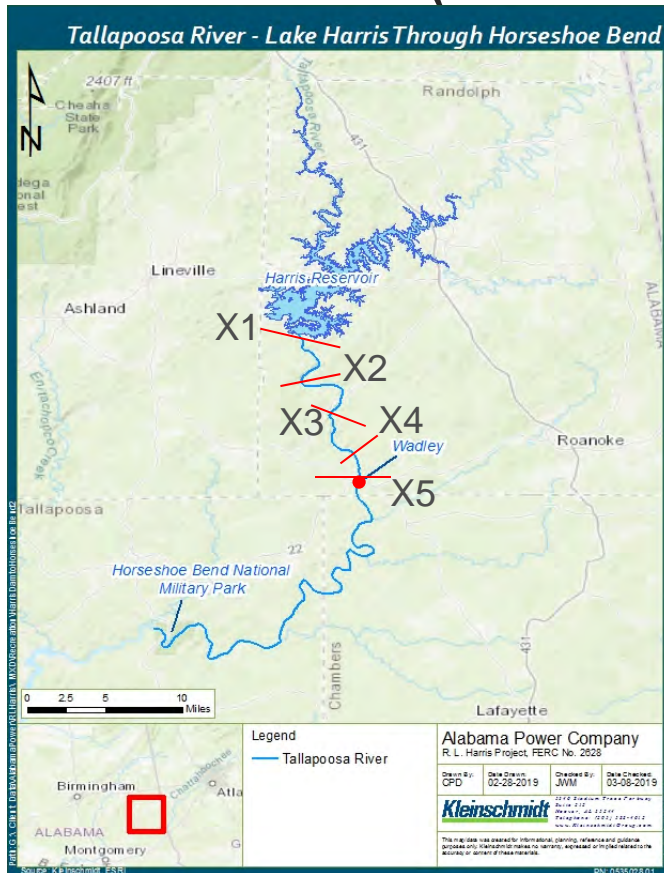




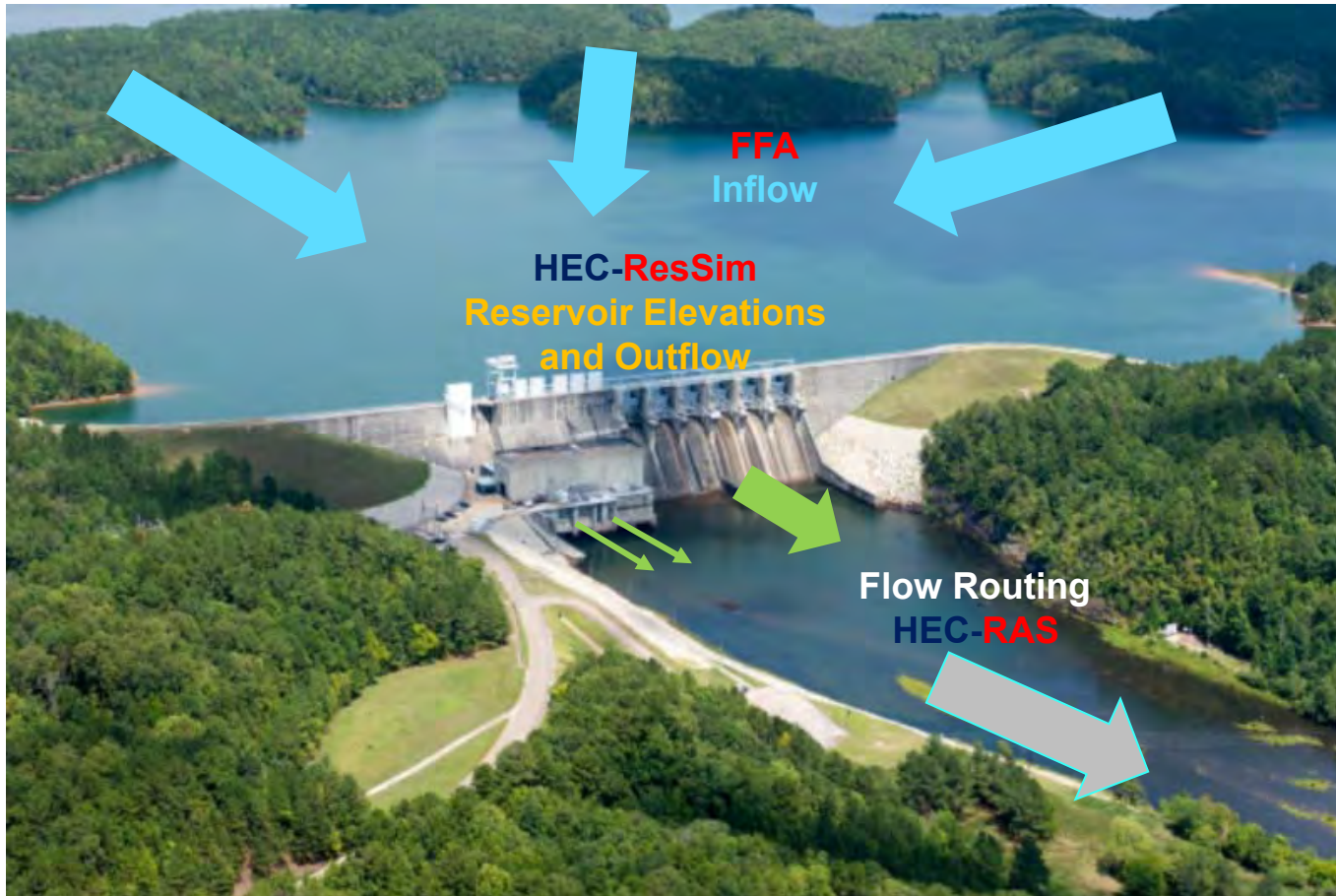
If the winter pool is increased, what happens during a high-flow event?

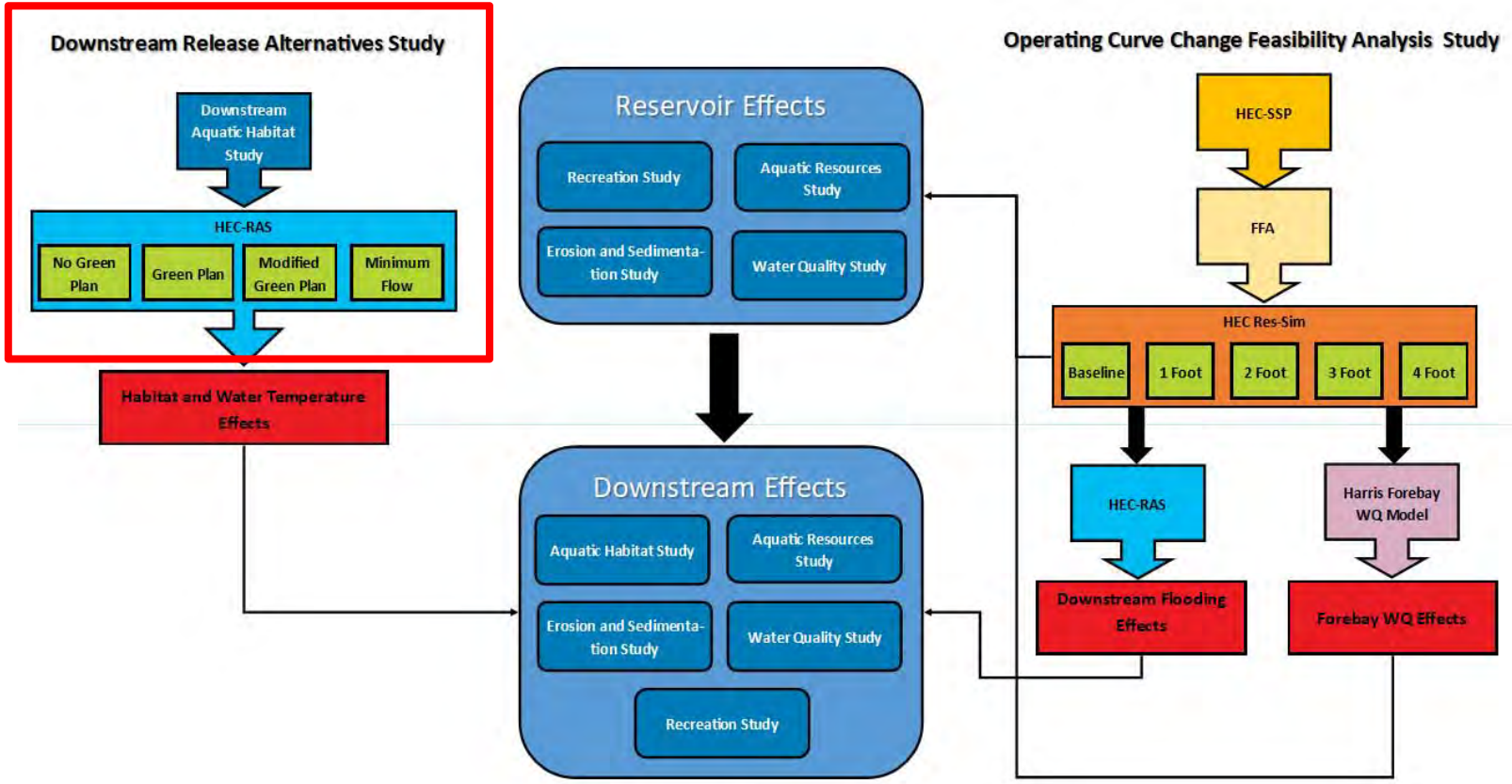


What happens when more water is released? (For Illustration Purposes only)



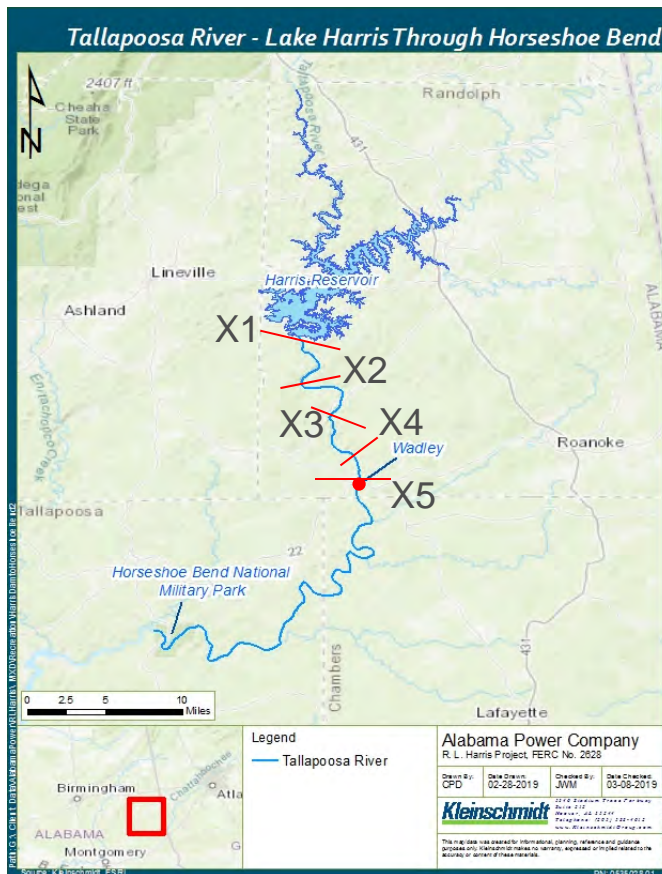
To summarize with a picture...





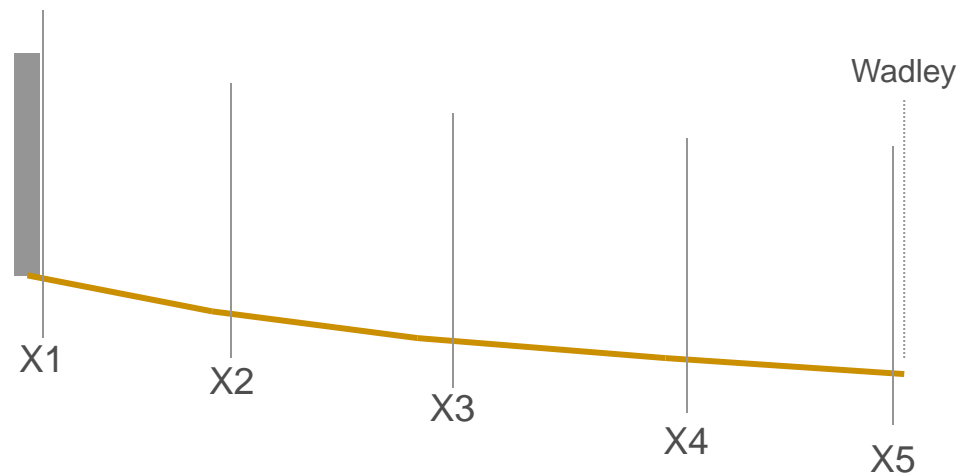
Downstream Release Alternatives Study

HEC-RAS model



Alternatives Studied

- Green Plan
- No Green Plan
- Modified Green Plan
- 150 cfs continuous minimum flow



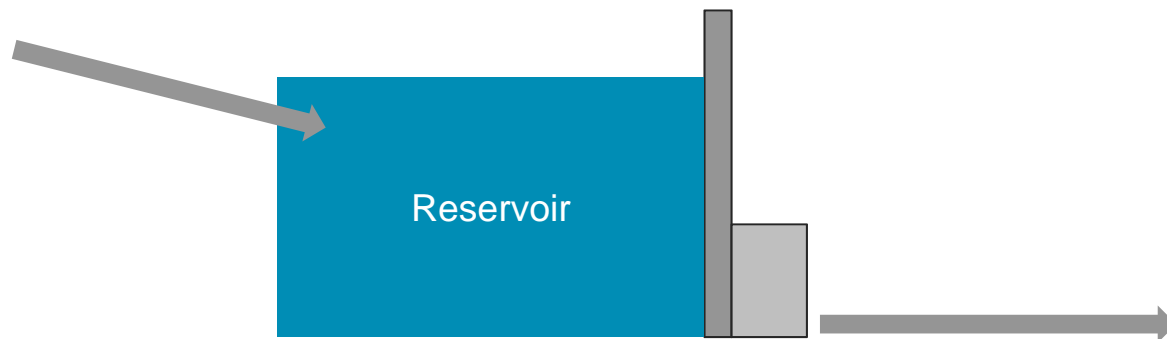
Downstream Release Alternatives Study

HEC-ResSim model



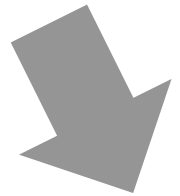
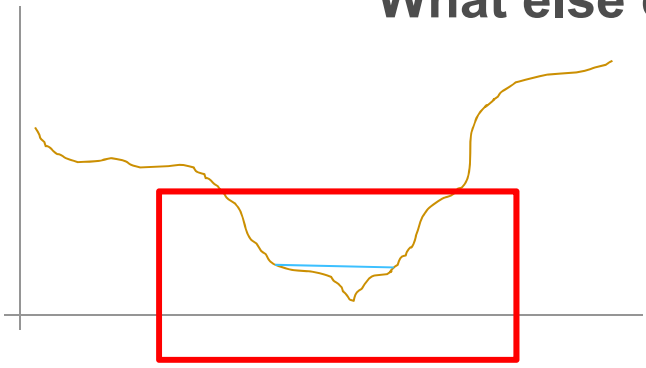
Alternatives Studied

- Green Plan
- No Green Plan
- Modified Green Plan
- 150 cfs continuous minimum flow

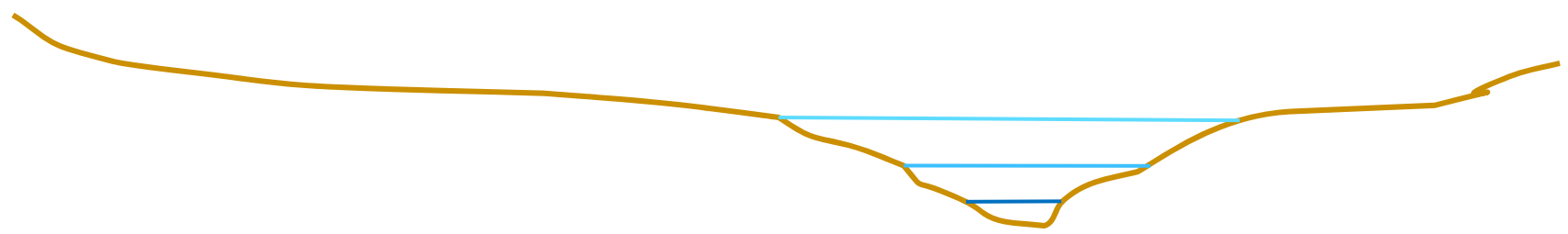




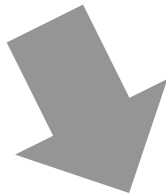
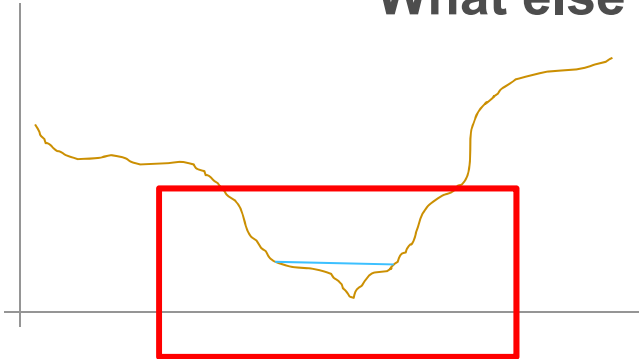
What else can HEC-RAS be used for?



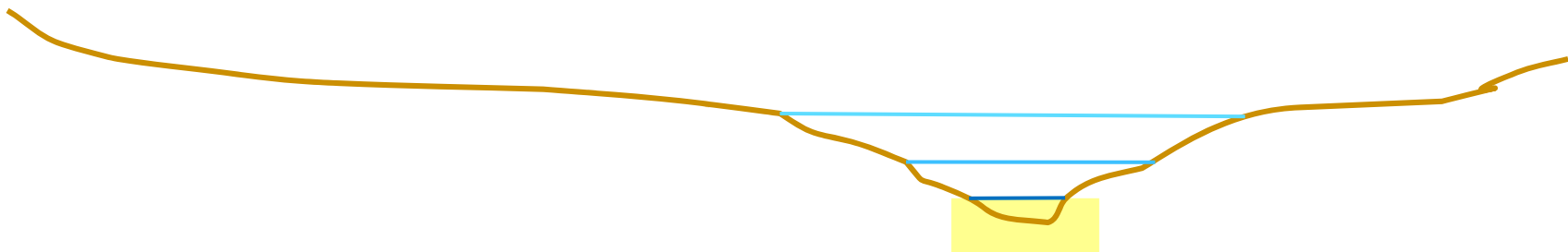
- Downstream release alternatives
- Water quality
- Water Use
- Erosion
- Aquatic Resources
- Wildlife and Terrestrial Resources
- Recreation Resources
- Cultural Resources



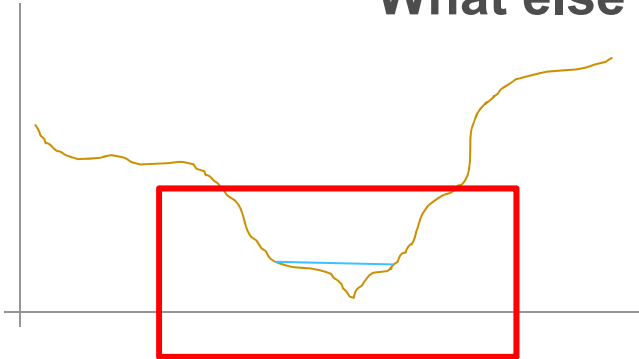
What else can HEC-RAS be used for?



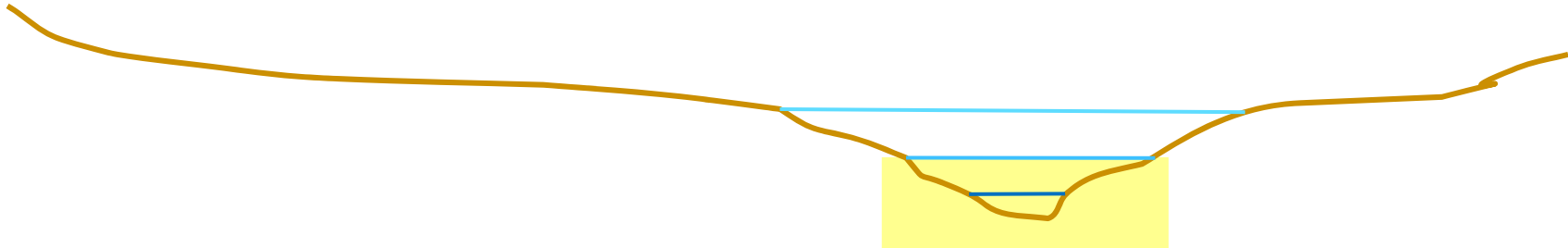
Measure wetted perimeter during low flow scenarios



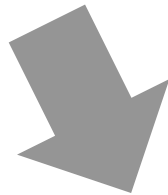
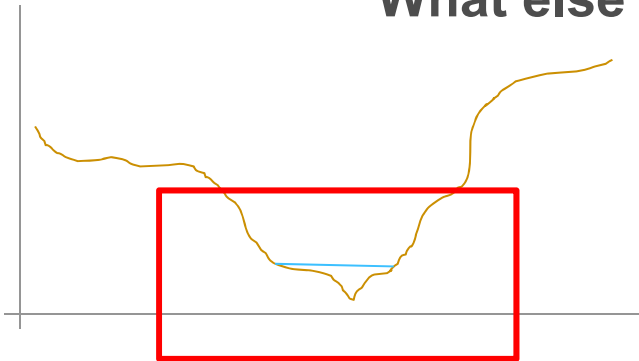
What else can HEC-RAS be used for?



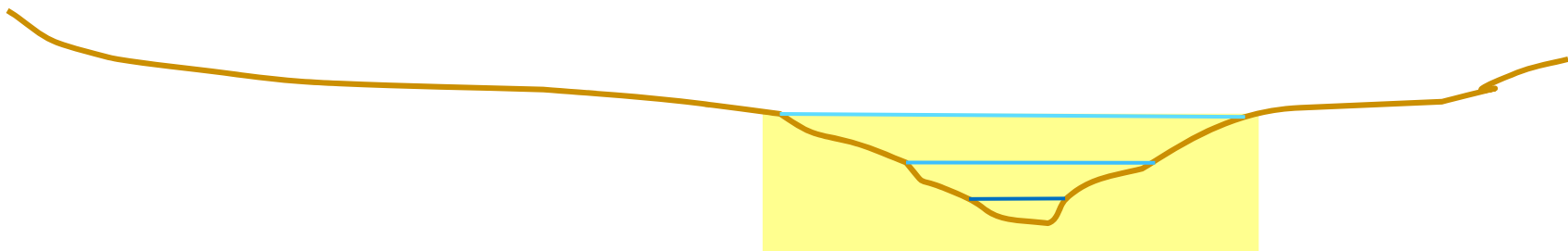
Measure wetted perimeter during low flow scenarios



What else can HEC-RAS be used for?

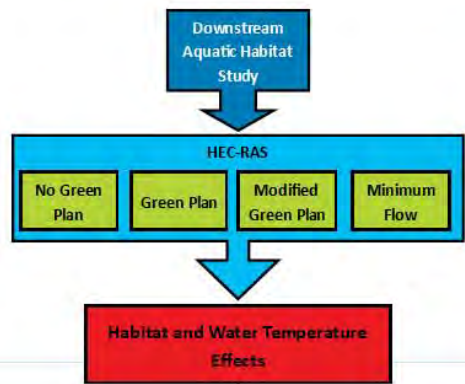


Measure wetted perimeter during low flow scenarios

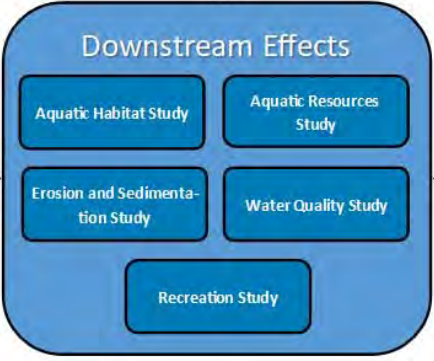
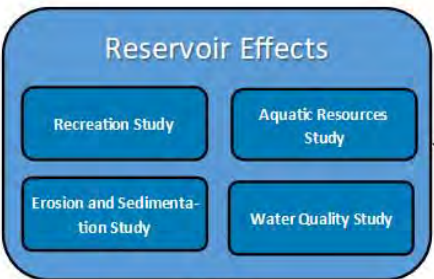
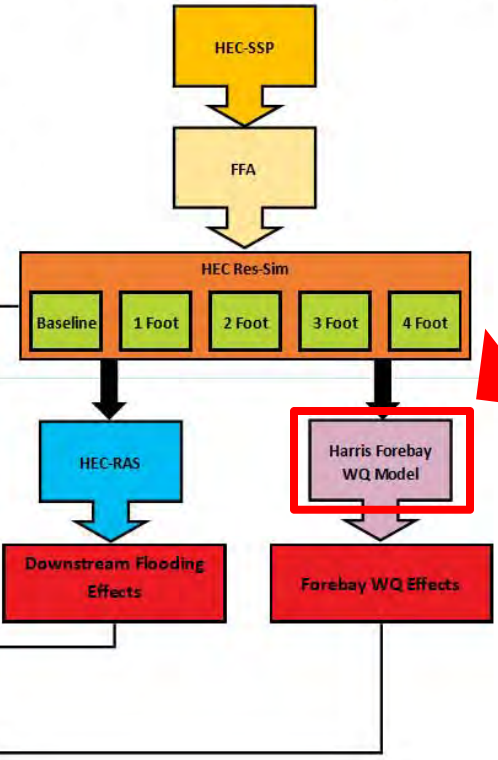




Downstream Release Alternatives Study



Operating Curve Change Feasibility Analysis Study



Harris Forebay WQ Model



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- [Abstract](#)
- [Applications and Possible Uses](#)
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- [Technical Support and Training](#)
- [Quality Assurance and Quality Control](#)
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- [EFDC Model Download](#)



R. L. Harris Hydroelectric Project

FERC No. 2628

HAT 2 (Water Quality & Erosion/Sedimentation) Stakeholder Meeting Summary September 11, 2019 11:00 am to 11:45 am Oxford Civic Center, Oxford, AL

Participants:

See Attachment A

Participants by Phone:

Maria Clark – Environmental Protection Agency (EPA), Atlanta

Chuck Denman – Downstream Property Owner

Sarah Salazar – Federal Energy Regulatory Commission (FERC)

Action Items:

- Alabama Power will post the HAT 2 meeting summary and all meeting materials to the Harris Relicensing website (www.harrisrelicensing.com)
- Alabama Power will make a link to the Google Earth files of identified erosion and sedimentation sites, as well as identified water quality hotspots, available on Harris Relicensing website

Summary

The Harris Action Team (HAT) 2 (Water Quality & Erosion/Sedimentation) met on September 11, 2019. The meeting presentation is included in Attachment B; therefore, this meeting summary focuses on the overall meeting purpose, highlights of the presentation, and stakeholders' questions/comments and Alabama Power's responses.

Introduction – Angie Anderegg (Alabama Power)

Angie reviewed the HAT 2 meeting purpose, safety procedures, and introduced the participants in the meeting room and on the phone via Skype. The purpose of the HAT 2 meeting was to finalize the erosion and sedimentation sites and to provide an update on the water quality data collection.

Erosion and Sedimentation Study – Jason Moak (Kleinschmidt)

Jason reviewed the study plan goal and scope and reminded HAT 2 stakeholders that Alabama Power, on May 1, 2019, distributed a map (see Attachment C) and request for input to the erosion and sedimentation sites. Jason noted that Alabama Power didn't receive any additional erosion and sedimentation sites other than those sites previously identified by stakeholders, Alabama Power surveillance contractors, and agencies. Jason stated that Alabama Power's next step is to assess each site with certified erosion specialists and record the assessment results on the survey form (attached to the May 2019 Final Study Plan). Alabama Power will complete the Lake Harris erosion and sedimentation assessment once Lake Harris reaches winter pool in fall/winter 2019.

Jason explained that Trutta Environmental Solutions completed the downstream soils and erosion survey from Harris Dam to Jaybird Landing and that Trutta's report will be available in first quarter (Q1) 2020. Barry Morris (Lake Wedowee Property Owners Association -LWPOA) noted there were no sites on the Big Tallapoosa and asked if stakeholders could provide

additional erosion/sedimentation sites for Alabama Power to consider. Jason responded yes but that stakeholders should do so in today's meeting or very soon after, because Alabama Power is gearing up for the field work on Lake Harris in October. During the discussion, Barry realized the site he was going to request be added was already in the sedimentation and erosion site list. Harry Merrill (LWPOA) indicated that there is a lot of sedimentation at Fosters Bridge. Jason noted that Fosters Bridge is part of the erosion and sedimentation evaluation. Jason provided a Google Earth "tour" of all the erosion and sedimentation sites that are part of this study. Angie Anderegg told the group that the Google Earth "tour" would be available on the Harris Relicensing website (Note: Rather than place the Google Earth file on the website, the data can be viewed in a web browser here:

<https://drive.google.com/open?id=1mv1mUDi6CSUbFV5K38fCZmWuOxJDwLcW&usp=sharing>. The data can also be downloaded from this link for use in Google Earth).

Albert Eiland (Downstream property owner) explained that the pulsing – river going up and down "like a washboard" - is causing a lot of erosion downstream. Jason noted there are many causes of erosion and that the erosion/sedimentation assessment form has an area for the assessor to indicate possible causes of the erosion. Angie noted that this study serves to collect baseline information that will inform the other operations studies, for example, to determine if a change in the winter pool would affect the frequency or magnitude of downstream flooding, which may cause additional erosion. Albert prefers continuous flows where what is coming into the reservoir is going out. Jason explained that the Harris Project was not designed to be "run-of-river" but that he recognizes the desire for a steady flow.

Barry Morris asked Jason what Alabama Power will do with the assessment when completed. In other words, what types of mitigation/enhancement measures will Alabama Power implement? Jason noted that Alabama Power will determine if the erosion/sedimentation site has reached equilibrium, is worsening, is vegetated, or needs additional monitoring before determining next steps. Sarah Salazar (FERC) stated that the current assessment form doesn't have anywhere to note the width of the vegetative/riparian zone. She asked if Alabama Power could include this on the assessment form. Alabama Power agreed to add the riparian/vegetative zone width to the assessment form to ensure that all assessors consistently report this feature. Angie and Jason also noted that Alabama Power will upload the map (and associated Google Earth files) to the Harris Relicensing website. Barry also asked Jason to explain #7 on the assessment form ("Description of Exposed Soils including Types and Depths"). Jason responded that sometimes you can see a layer of sand, silt, and/or rock, and the assessors would include this description on the form. Jason also noted that aerial and water observations will inform Alabama Power of the adjacent land activities.

Water Quality Study – Jason Moak (Kleinschmidt)

Jason reviewed the study goal, geographic scope, and the components of this study. He noted that ADEM agreed to a generation monitoring site about 800 feet downstream of Harris Dam. Alabama Power has also installed a continuous monitor about ½ mile downstream of Harris Dam. Jason reviewed some of the existing data and other monitoring locations (i.e., Malone gage). Jason Carlee (Alabama Power) noted that Alabama Power maintains the monitors about every 10 days. On May 1, 2019, Alabama Power asked HAT 2 stakeholders to send in any areas of water quality concern; Alabama Power did not receive additional areas of water quality concern. Jason noted that Fosters Bridge is the one area that had been previously identified as having potential water quality concerns. Barry Morris asked that if the chicken processing plant was reopened in the future, would that activity be under the Alabama Department of

Environmental Management's (ADEM) regulatory authority. Jason responded yes, and there would likely be a public comment period. Harry Merrill noted that a big cattle operation was creating a lot of pollution on the Big Tallapoosa where it crosses the 431 Bridge (below Hollis Crossroads). Sheila Smith (Alabama Power) noted this area is near the existing canoe put in site. Harry believes that fish are not in this area. He also noted that the chicken litter on the pastures combined with the cows entering the water at this location has resulted in a very polluted site. Jason noted that this site is one that was identified for further water quality evaluation.

Barry Morris asked if temperature is going to be addressed in a different HAT. Jason responded that Alabama Power is collecting temperature data at all 20 level logger sites on the Tallapoosa River below Harris Dam. Auburn University and ADEM are also collecting temperature data. Sarah Salazar noted that there are a couple of freshwater mussels on the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) list and advised Alabama Power to check area water quality if any of these species were found within the Harris Project Boundary. Jason commented that there is at least one threatened and endangered (T&E) that occurs upstream of the Harris Project Boundary. The HAT 3 (T&E) is aware of the presence of this mussel upstream of the Harris Project and is planning accordingly.

Maria Clark (EPA) noted that the EPA recommends year-round monitoring for at least one full year and also noted that one year of monitoring water quality may not be enough data. She indicated that EPA will send an official request on the monitoring. Maria added that EPA had previously made this comment, and it had not been incorporated into the Harris Water Quality Study Plan. Jason responded that the comment period for the Harris study plans was extensive and that FERC approved the study plans in April 2019. Alabama Power is not planning to monitor year-round. Jason indicated that based on years of experience, studies from other projects, and water quality experts, it is atypical for dissolved oxygen to be adversely affected during the winter months in the southeast, USA. Maria indicated that EPA would send their comments to Angie on the need for long-term, year-round water quality monitoring during the Harris relicensing process.

Donna Matthews asked how far north Alabama Power would look to see if the endangered mussel exists around the Highway 431 Bridge and the Harris Project Boundary. Jason noted that Alabama Power does not control the water quality or quantity coming into Lake Harris. If there are non-point source water quality issues above the Harris Project, the regulating entities would be responsible for addressing effects on mussel populations outside of the Harris Project Boundary.

Albert Eiland noted that his cousin, Chuck Denman, has commented that, if you have an open wound (i.e., cut), you should not get into the Tallapoosa River. He stated it is likely to get infected.

The meeting concluded at 11:50 am.

ATTACHMENT A
HARRIS ACTION TEAM 2 MEETING ATTENDEES



HARRIS PROJECT RELICENSING

HAT 2 SIGN-IN SHEET

September 11, 2019 9:00 AM

Name/ Affiliation or Organization	Email
1 John Smith/ Stakeholder	jsmith@email.com
2 Thomas St. John / APC	twstjohn@southernco.com
3 Fred Leslie	fal@adem.alabama.gov
4 Jennifer Raspberry	
5 Jason Carlee	
6 Jennifer Haslbauer	jhaslbauer@adem.alabama.gov
7 David Moore	
8 Nathan Aycock	
9 Mike Holley	
10 David Smith	
11 Glenell Smith	
12 Kristie Coffman	



HARRIS PROJECT RELICENSING

HAT 2 SIGN-IN SHEET

September 11, 2019 9:00 AM

	Name/ Affiliation or Organization	Email
13	Josh Verby APC	
14	Tacoma Goar ADCMR	
15	Mich Red TNC	
16	Kelly Yates, Env. Affairs	kyates@southernco.com
17	Tom GARLAND	
18	Donna Matthews	
19	ALBERT EILAND	
20	Stan Nelson, Nelson & Co	s nelson
21	Joel Stevens	
22	Tray Stevens	
23	Tina Freeman	
24	Sheila Smith	



HARRIS PROJECT RELICENSING

HAT 2 SIGN-IN SHEET

September 11, 2019 9:00 AM

Name/ Affiliation or Organization	Email
25 Stacy Thompson APC	
26 Barry Morris	
27 Stacey Graham	
28	
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ATTACHMENT B
SEPTEMBER 11, 2019 HAT 2 PRESENTATION

R.L. Harris Project Relicensing

HAT 2 Meeting

September 11, 2019



Erosion and Sedimentation Study



Goal

Identify any problematic erosion sites and sedimentation areas and determine the likely causes

Geographic Scope

Little Coon Creek and Crow Creek Watersheds at Skyline, Lake Harris, and the Tallapoosa River from Harris Dam downstream through Horseshoe Bend.

Study Components

- Identify erosion and sedimentation sites
- Assess sites using a qualified Erosion and Sediment Control Professional
- Assess bank erosion susceptibility in Tallapoosa River from Harris Dam through Horseshoe Bend
- Assess sedimentation sites by examining available lake photography and data (LIDAR) and analyzing with Geographic Information System (GIS)

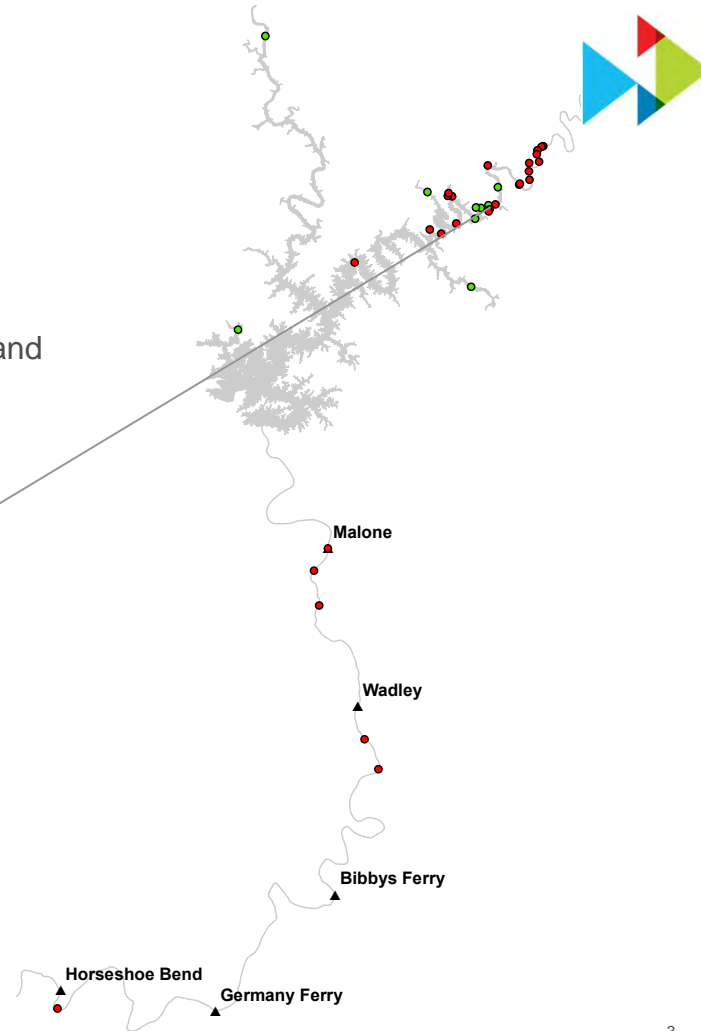
Study Sites

Erosion (red dots)

- 21 sites on Lake Harris
 - All on Little Tallapoosa arm of lake
 - 17 sites upstream of 431
- 6 sites on Tallapoosa between Harris Dam and Horseshoe Bend

Sedimentation (green dots)

- 9 sites on Lake Harris



Water Quality Study



Goal

Supplement the 2018 Baseline Water Quality Report; identify and assess potential areas of water quality concern.

Geographic Scope

Lake Harris and its tributaries; Tallapoosa River from Harris Dam through Horseshoe Bend; Little Coon Creek and Crow Creek watersheds at Skyline.

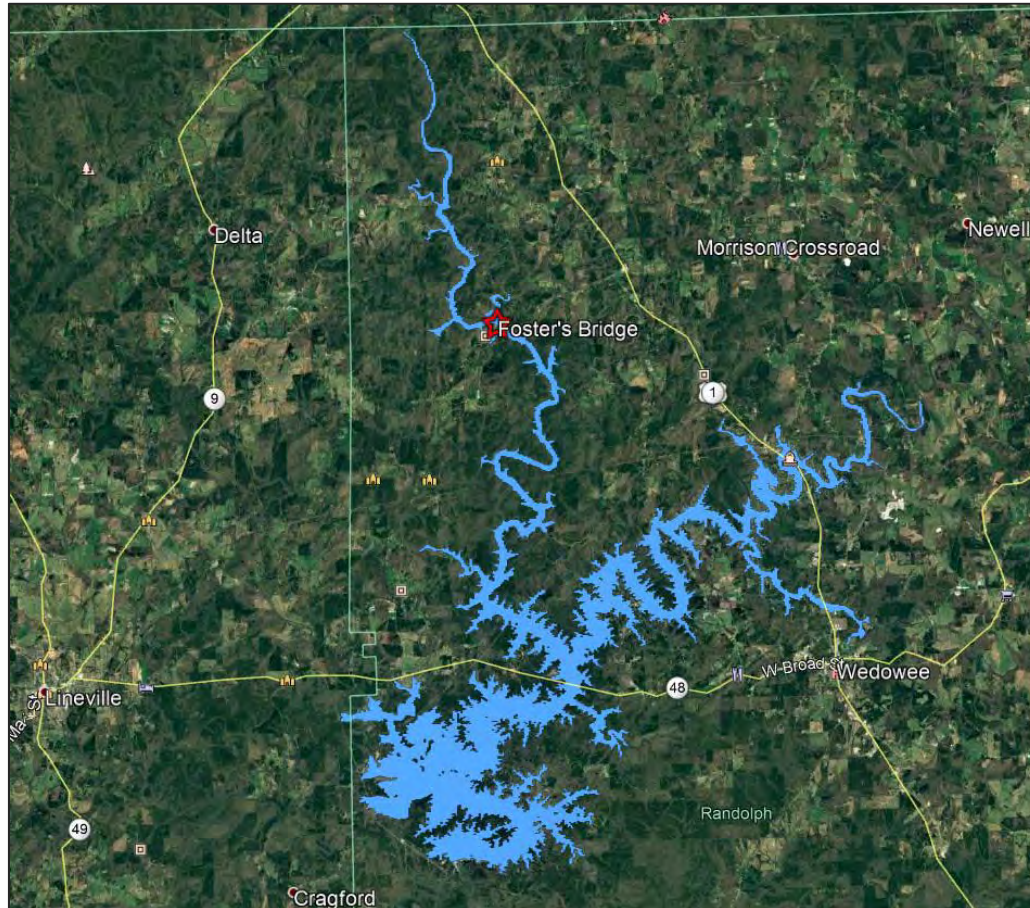
Study Components

- Monitor dissolved oxygen and temperature during generation at the existing site 800 ft downstream of Harris Dam (June 1 – October 31)
- Monitor dissolved oxygen and temperature continuously at new location 0.5 miles downstream of Dam (March 1 – October 31)
- Collect monthly vertical profiles of dissolved oxygen and temperature in reservoir forebay (March – October)
- Identify and assess areas in reservoir where water quality may be degraded
- Compile new data from other credible sources (e.g., USGS, ADEM, AWW)

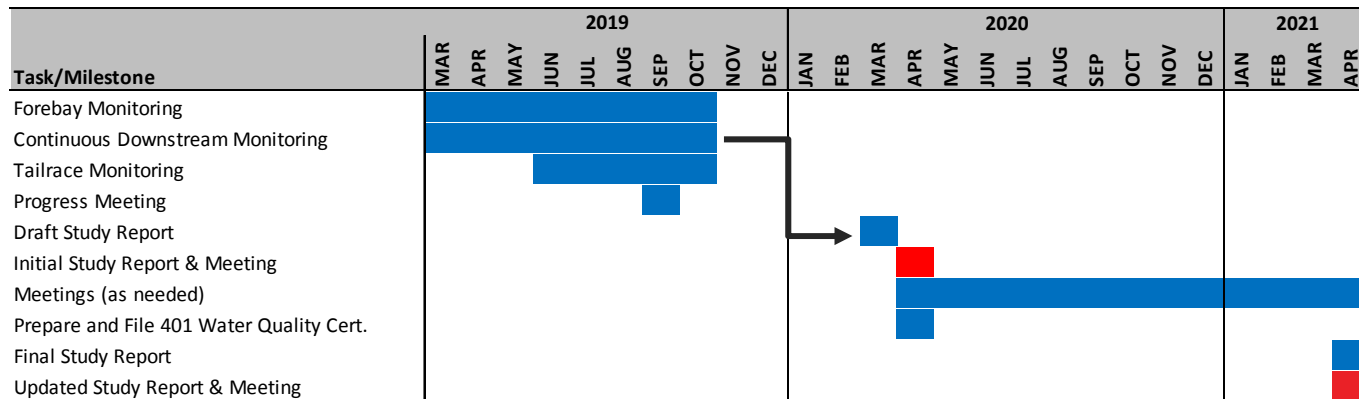
Monitoring Locations



Areas of Concern

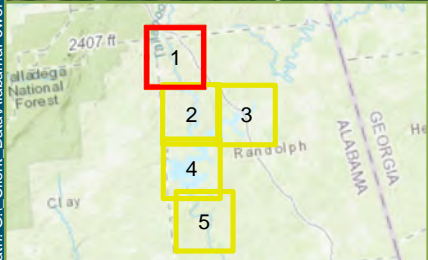
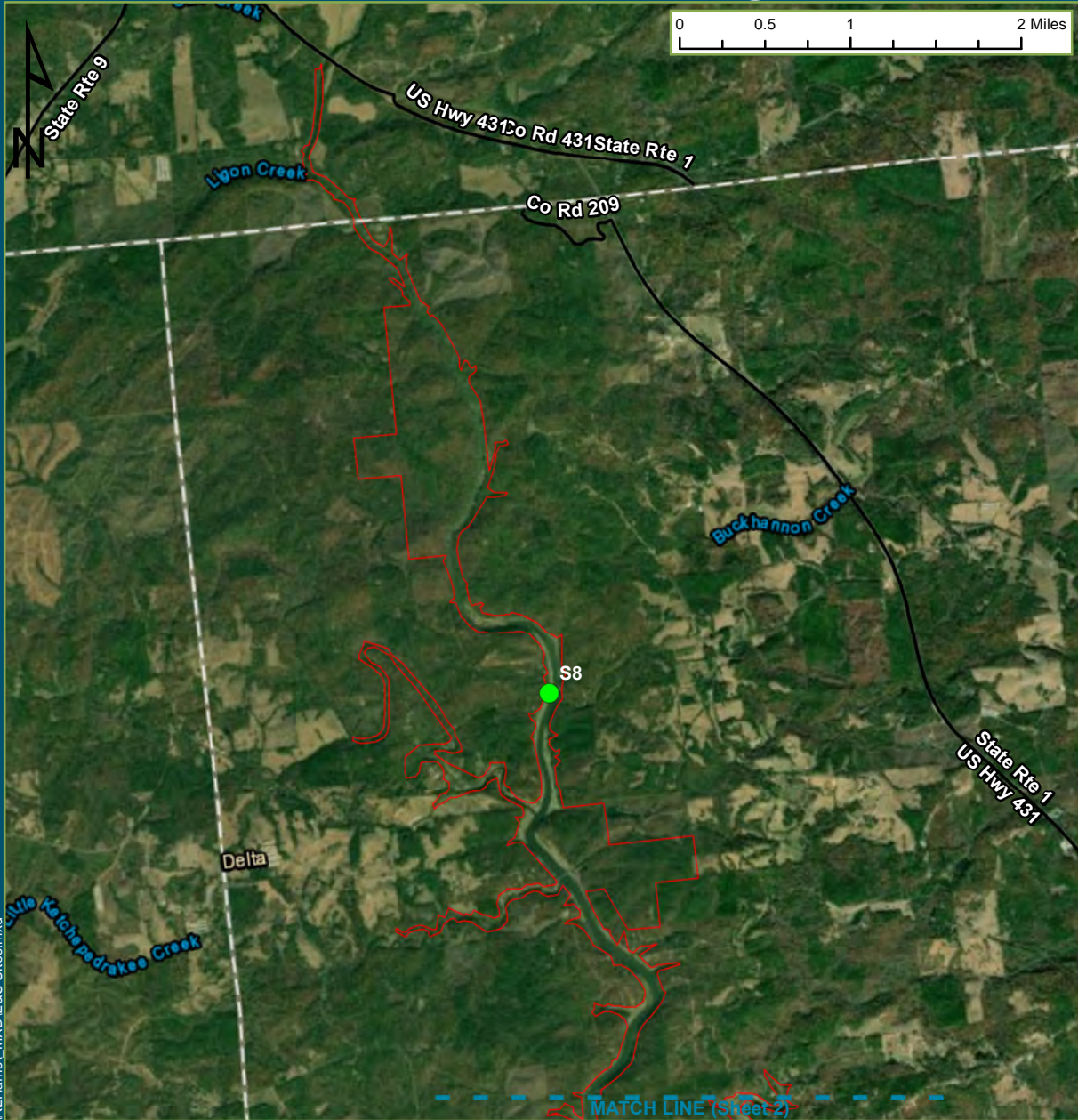


Study Schedule



ATTACHMENT C
HAT 2 MAP OF EROSION/SEDIMENTATION STUDY SITES

Monitoring Location Map



Legend

- Sedimentation
- Erosion
- — — Match Line
- Road
- Project Boundary

Alabama Power Company
Birmingham, AL

R.L. Harris Project
FERC Project No. 2628

Drawn By: JJJ	Date Drawn: 4/24/19	Checked By: XXX	Date Checked: 4/24/2019
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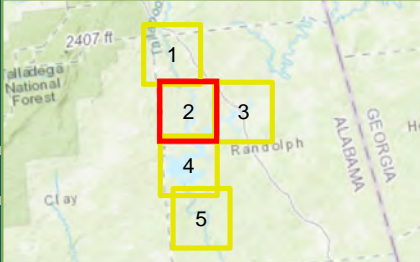
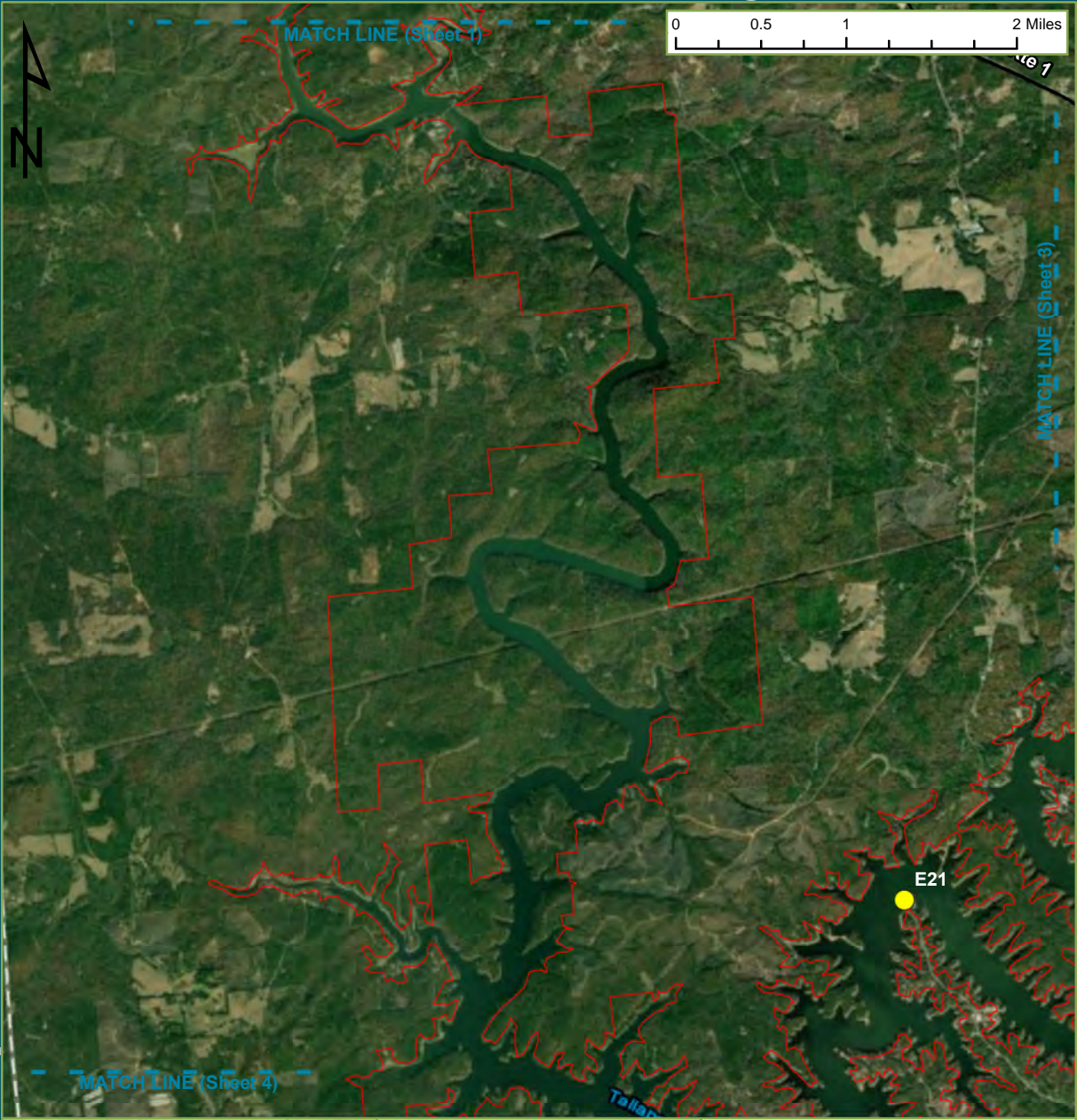
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Pittsfield, Maine 04967
Telephone: (207) 487-3328
Fax: (207) 487-3124
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Path: G:_Client_Data\AlabamaPower\RLHarris\MXD\IE&S Sites.mxd

Date Printed: 4/25/2019

Monitoring Location Map



Legend

- Sedimentation
- Erosion
- Match Line
- Road
- Project Boundary

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Birmingham, AL

R.L. Harris Project
FERC Project No. 2628

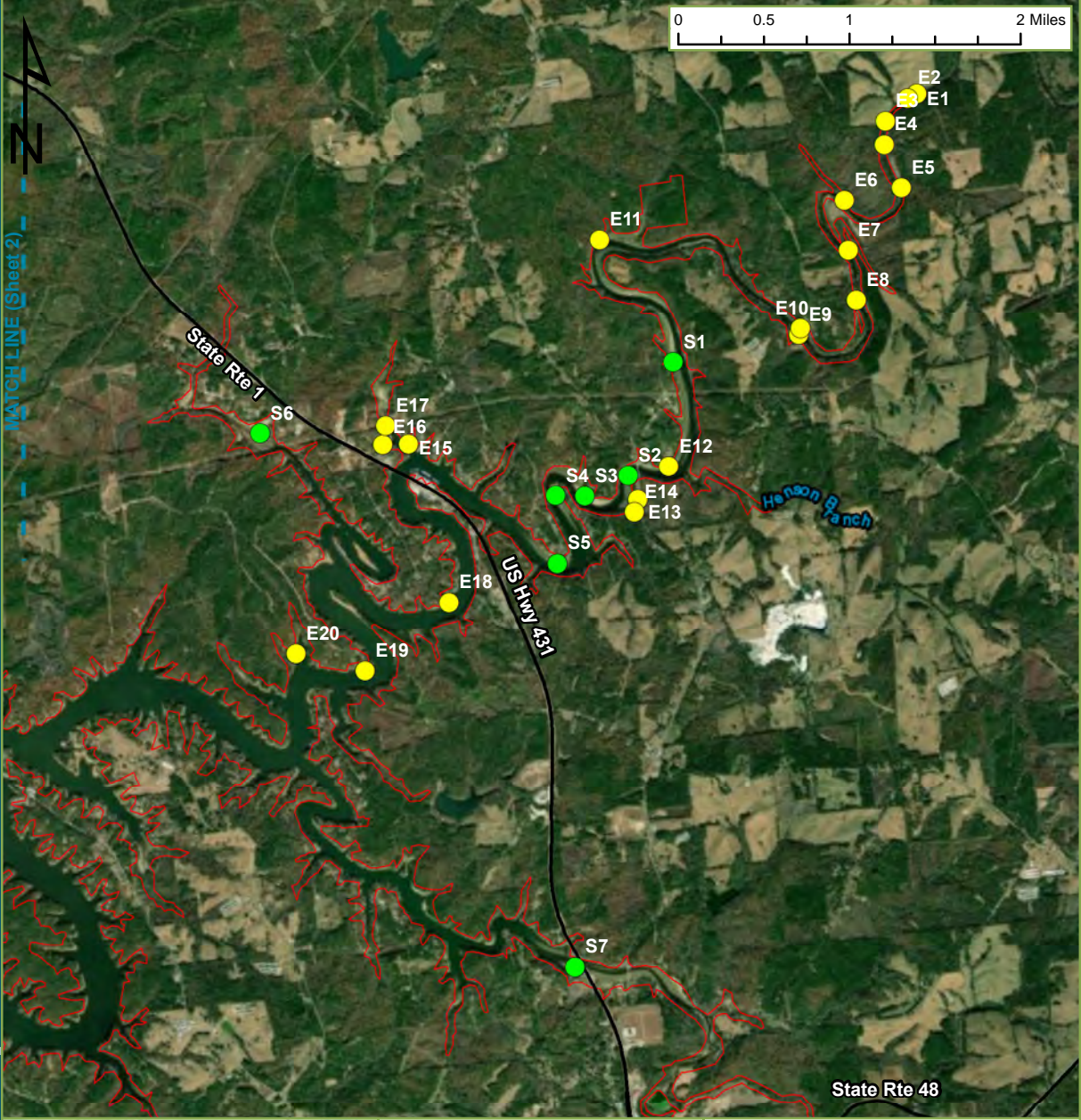
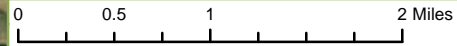
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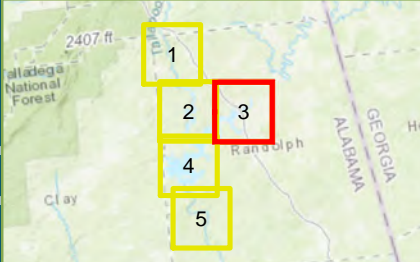
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Monitoring Location Map



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Legend

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- Project Boundary

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Birmingham, AL

R.L. Harris Project
FERC Project No. 2628

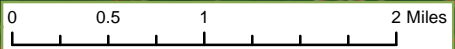
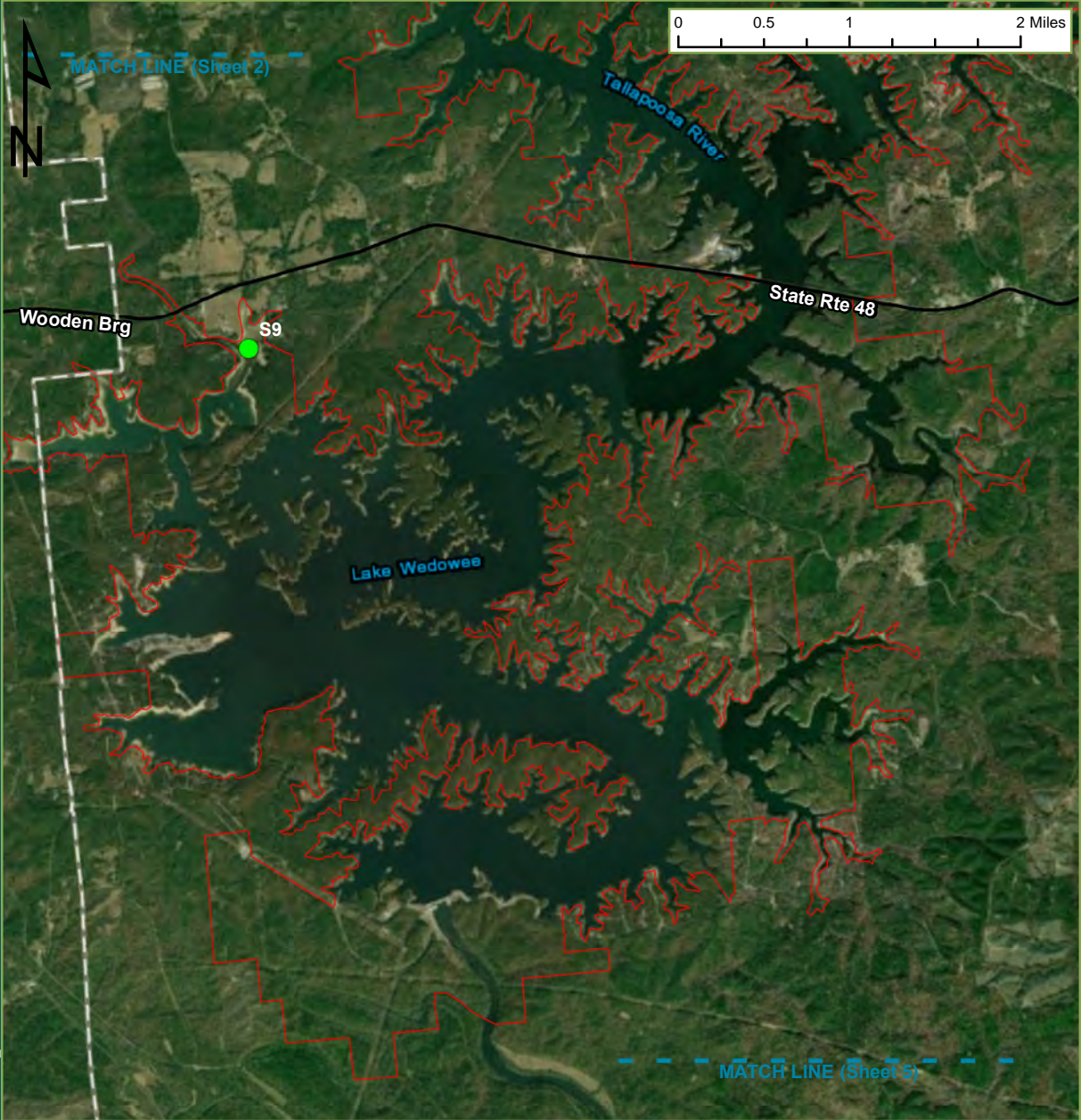
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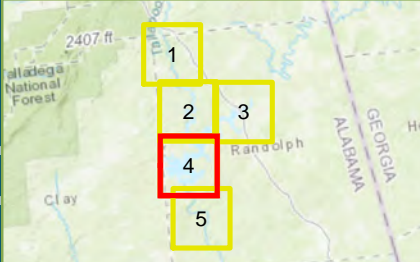
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Legend

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- Road
- Project Boundary

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FERC Project No. 2628

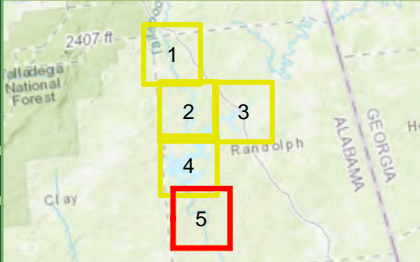
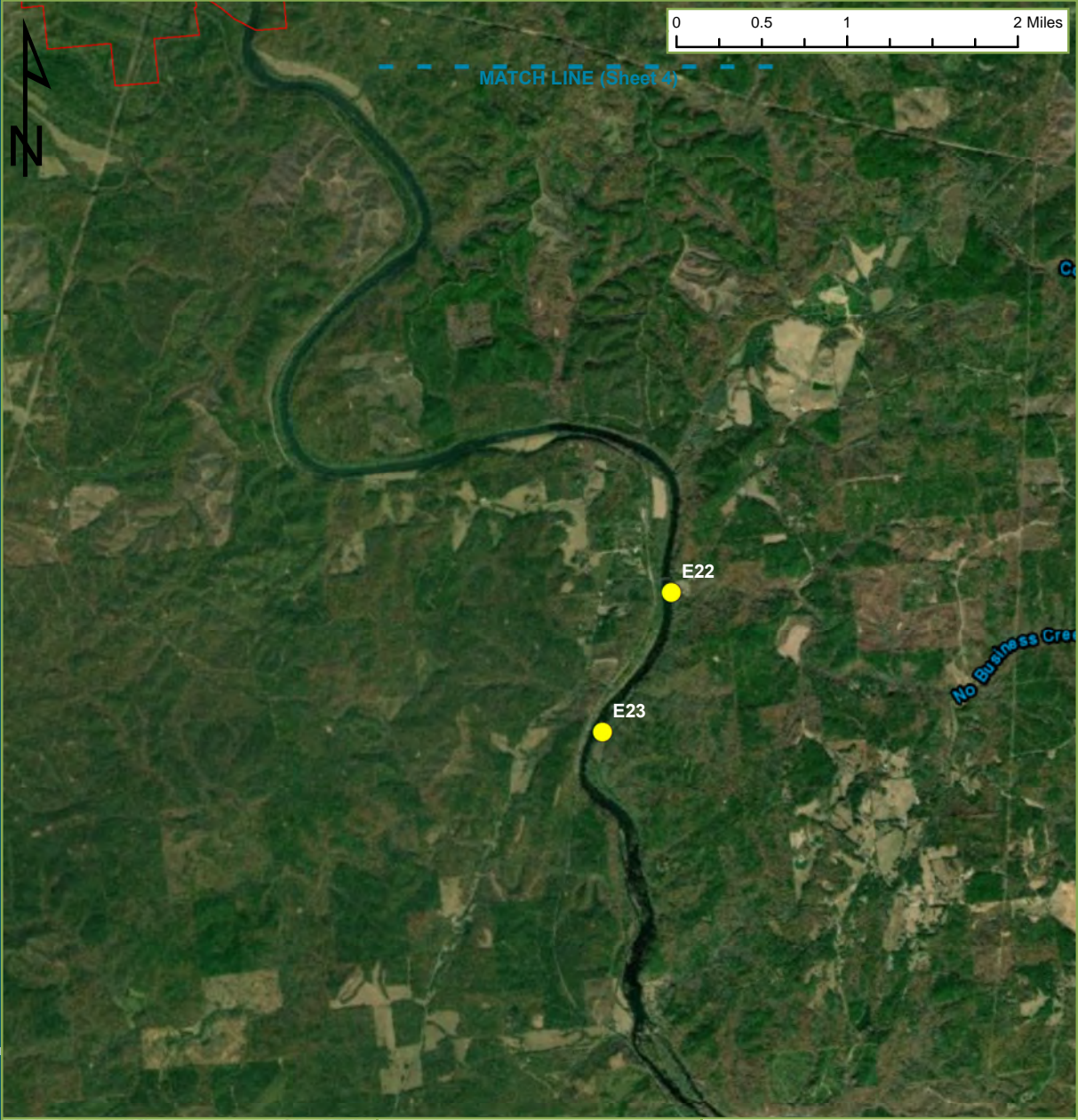
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Monitoring Location Map



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R.L. Harris Project
FERC Project No. 2628

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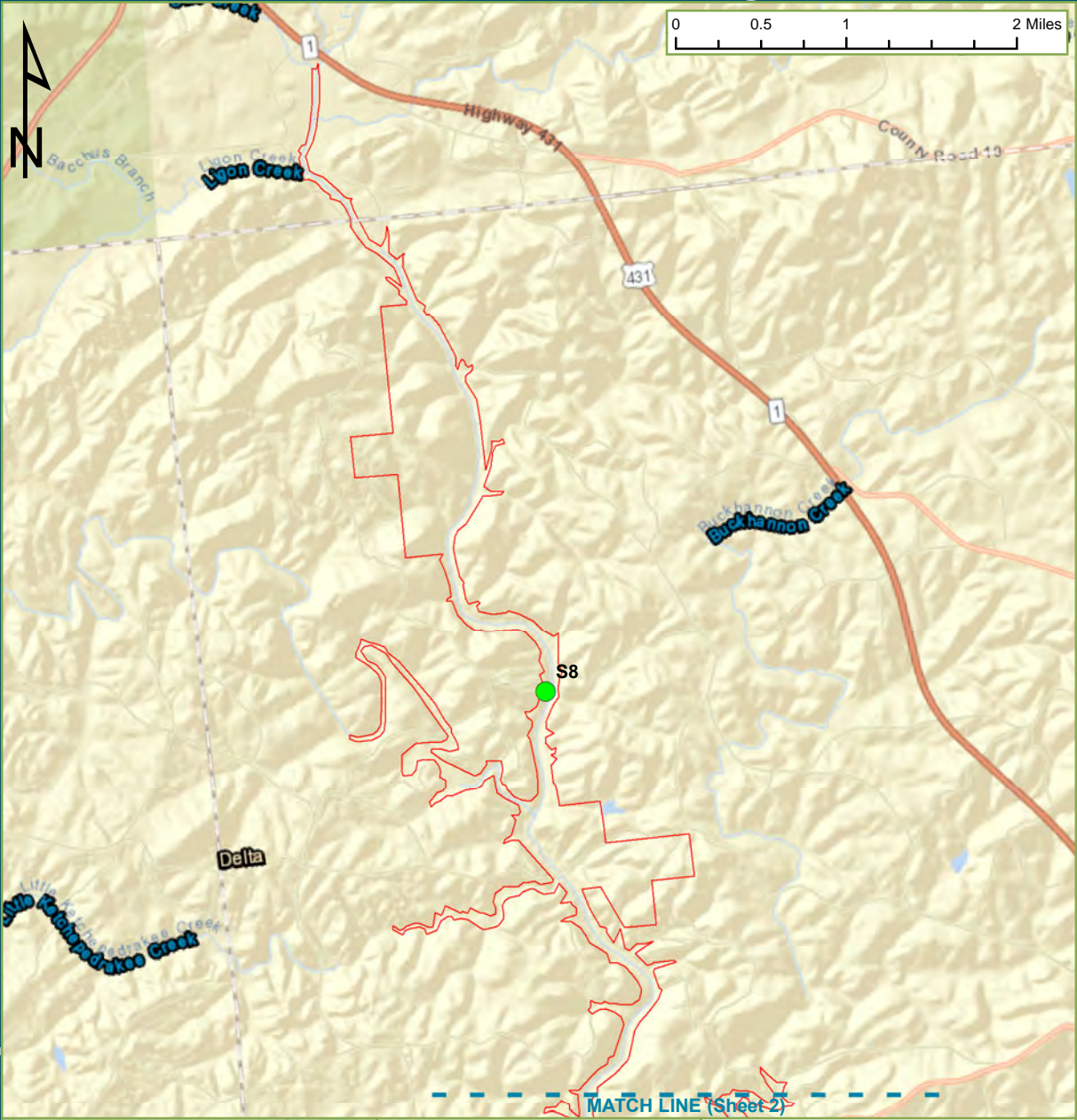
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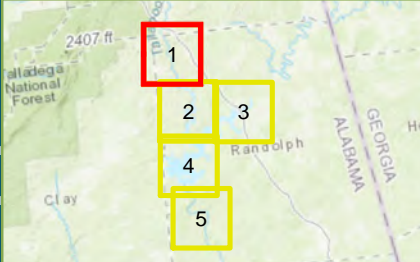
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Monitoring Location Map



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- Erosion
- Match Line
- Project Boundary

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Birmingham, AL

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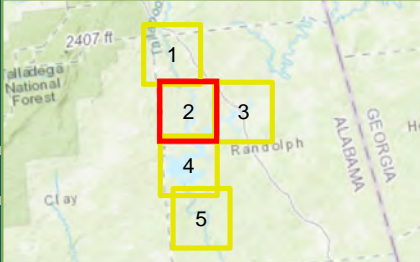
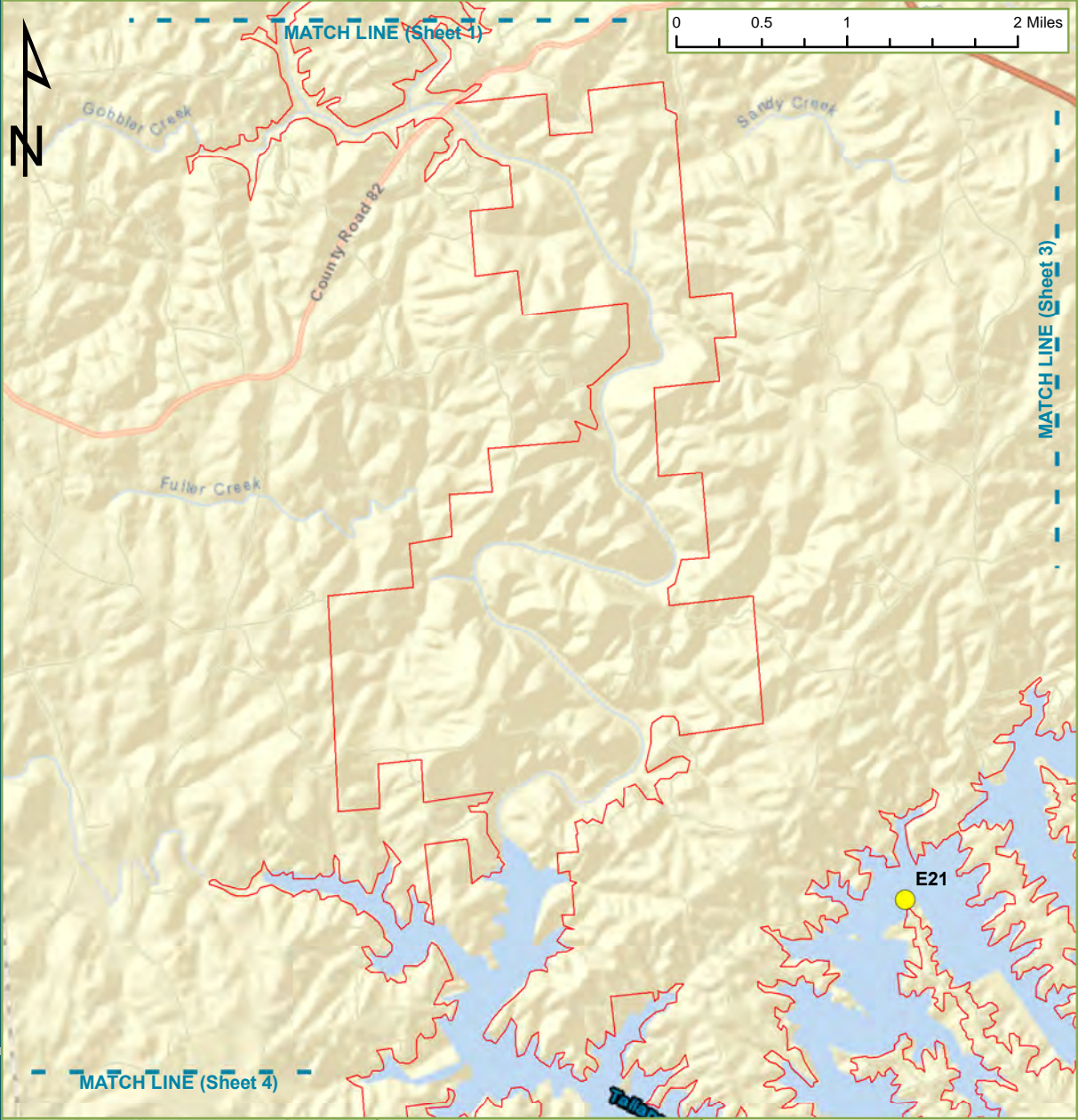
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Monitoring Location Map



Legend

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- Project Boundary

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Birmingham, AL

R.L. Harris Project
FERC Project No. 2628

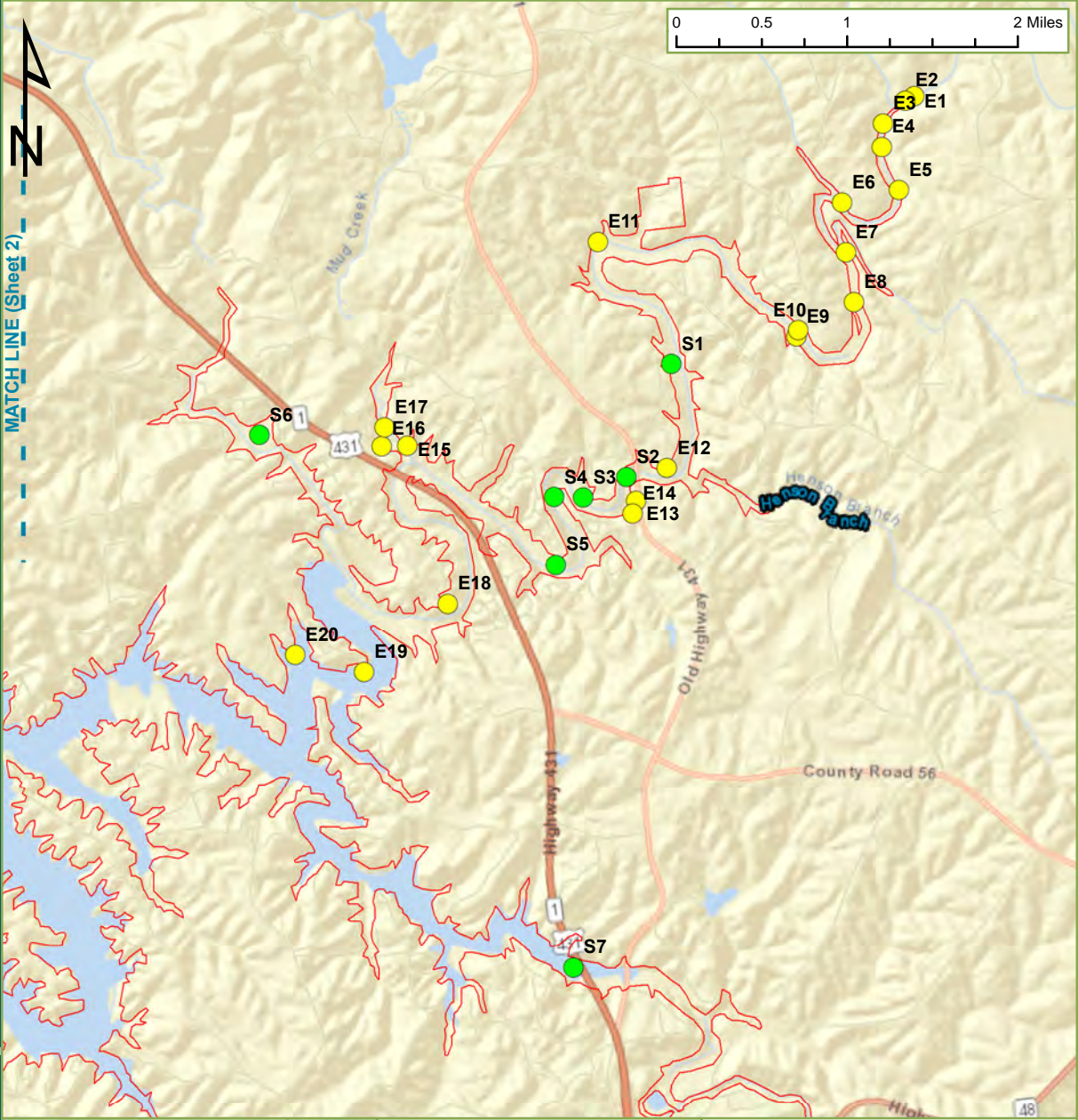
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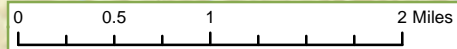
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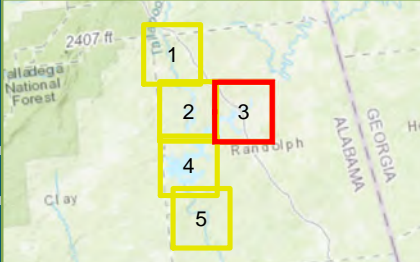
Monitoring Location Map



MATCH LINE (Sheet 2)



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- Erosion
- Match Line
- Project Boundary

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FERC Project No. 2628

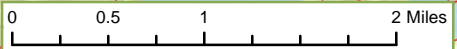
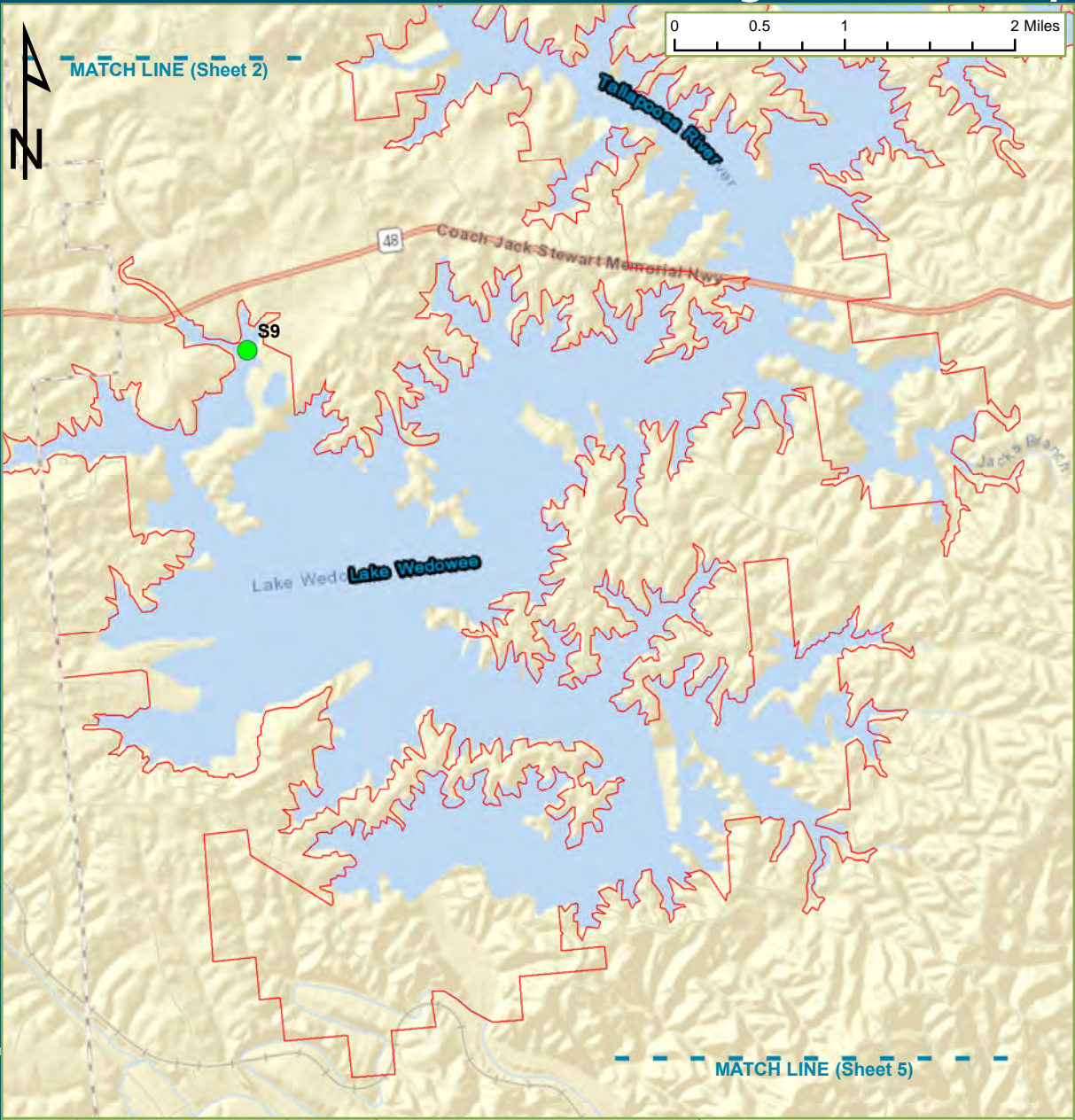
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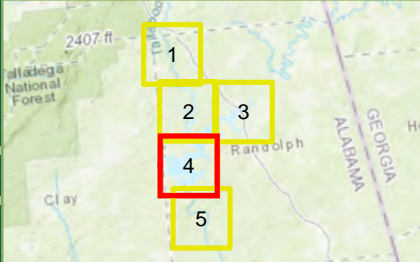
Monitoring Location Map



MATCH LINE (Sheet 2)

MATCH LINE (Sheet 5)

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Legend

- Sedimentation
- Erosion
- Match Line
- Project Boundary

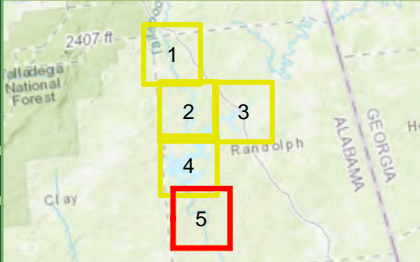
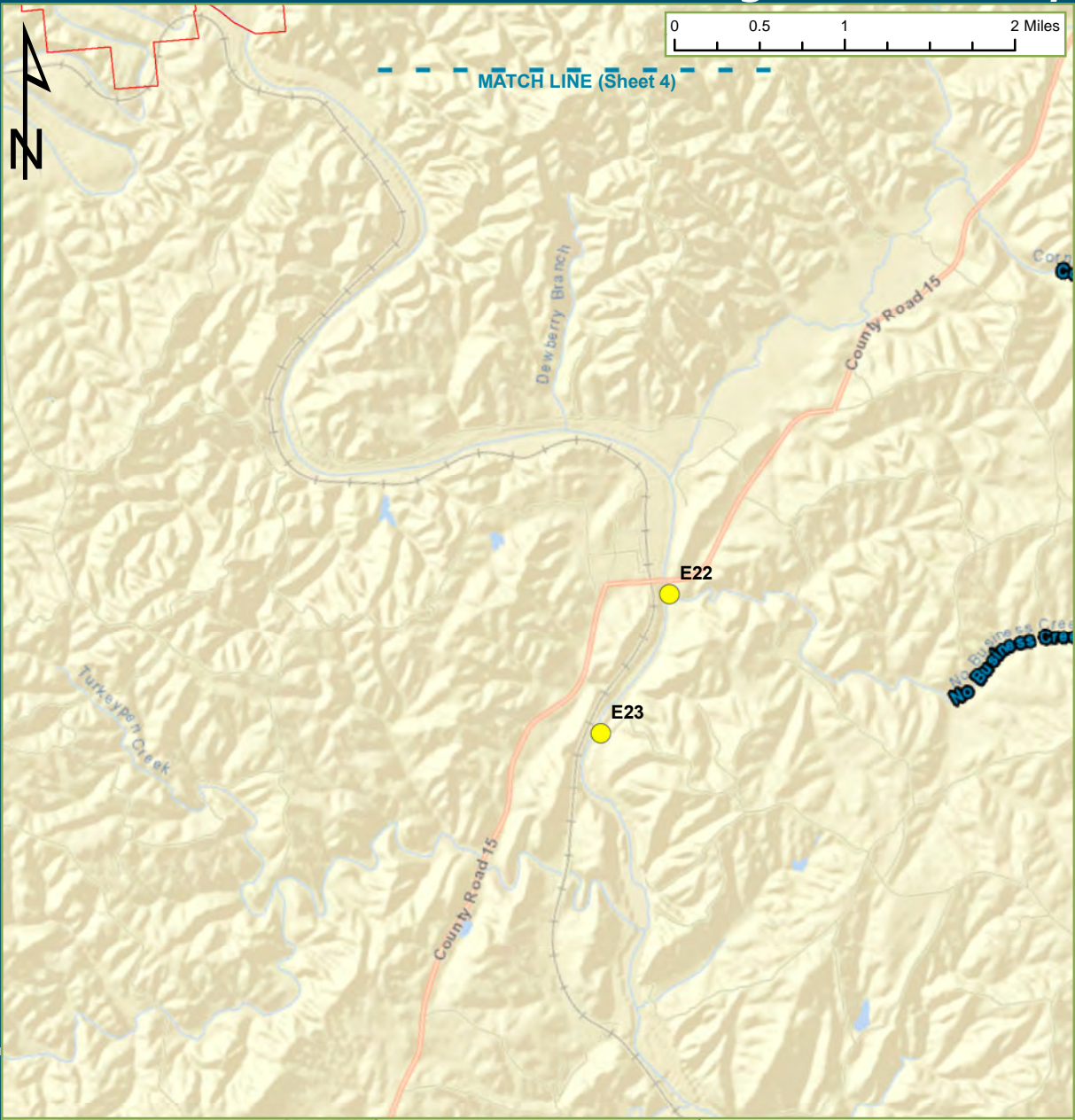
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Monitoring Location Map



Legend

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**R.L. Harris Project
Erosion Sedimentation Study
Draft Site List
May 1, 2019**

Name	Type	Latitude	Longitude
S1	Sedimentation	33.37624948	-85.47166235
S2	Sedimentation	33.36719999	-85.47747307
S3	Sedimentation	33.36590337	-85.48206374
S4	Sedimentation	33.36621704	-85.48497203
S5	Sedimentation	33.36051157	-85.48560019
S6	Sedimentation	33.37431997	-85.5138457
S7	Sedimentation	33.3264078	-85.4885445
S8	Sedimentation	33.45383479	-85.60980855
S9	Sedimentation	33.30647091	-85.62855097
E1	Erosion	33.39648716	-85.44412236
E2	Erosion	33.39618116	-85.44512448
E3	Erosion	33.39447905	-85.44762594
E4	Erosion	33.39252729	-85.44796667
E5	Erosion	33.38869558	-85.44676742
E6	Erosion	33.38816557	-85.4526412
E7	Erosion	33.38399233	-85.45284646
E8	Erosion	33.3797199	-85.45259528
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R. L. Harris Hydroelectric Project

FERC No. 2628

HAT 4 (Project Lands) Stakeholder Meeting Summary **September 11, 2019** **12:30 pm to 1:30 pm** **Oxford Civic Center, Oxford, AL**

Participants:

See Attachment A

Participants by Phone:

Maria Clark – Environmental Protection Agency (EPA)

Keith Gauldin – Alabama Department of Conservation and Natural Resources-Division of Wildlife and Freshwater Fisheries (ADCNR)

Rachel McNamara – Federal Energy Regulatory Commission (FERC)

Sarah Salazar – FERC

Erwin Thompson – Economic Development Council

Kyrstin Wallach – FERC

Action Items:

- Alabama Power will post the HAT 4 meeting summary and all meeting materials to the Harris Relicensing website (www.harrisrelicensing.com)
- Stakeholders should submit their comments to Angie Anderegg at harrisrelicensing@southernco.com on the proposed land use changes on or before October 31, 2019.

Notes:

The following summarizes the September 11, 2019 Harris Action Team (HAT) 4 (Project Lands) meeting. The meeting presentation and maps are included in Attachment B; therefore, this meeting summary focuses on the overall meeting purpose, highlights of the presentation, and stakeholders' questions/comments and Alabama Power's responses.

Introduction – Angie Anderegg (Alabama Power)

Angie introduced the HAT 4 meeting purpose and introduced the participants on the phone. The purpose of the HAT 4 meeting is to present Alabama Power's proposed land use changes at the Harris Project, including lands that Alabama Power may propose to be removed or included in the project boundary, or those lands proposed to change land use classification.

Project Lands – Tina Mills (Alabama Power)

Tina Mills reviewed the FERC approved study plan including the four existing land use classifications and stated that Alabama Power is proposing to add a "commercial recreation" classification to the Harris Project land classifications. Tina reviewed Alabama Power's proposal for Project lands: reclassifications; lands added to the Harris Project Boundary; and lands removed from the Harris Project Boundary. Tina explained that reclassifications do not require a change in the Harris Project Boundary; it may be as simple as reclassifying a parcel of land from "recreation" to "natural/undeveloped". Lands that Alabama Power proposes to add to the Harris Project Boundary require a change in the Harris Project Boundary and would add property above elevation 800 feet mean sea level (msl). Lands proposed for removal would also require a change

in the Harris Project Boundary and would remove property above elevation 800' msl. Property within the 800' msl contour would remain in the Project. Tina reviewed each parcel of property included in Alabama Power's proposal. Maps and the presentation are available on the Harris Relicensing website. Keith Gauldin (ADCNR) asked if a parcel currently classified as "hunting" is leased by a private hunting club. Shelia Smith (Alabama Power) indicated that there is no hunting lease on the particular parcel in question.

Rachel McNamara (FERC) asked how Alabama Power would incorporate the results of other studies, such as the recreation study, into this proposal. She asked if the Project lands proposal reflects any results of ongoing studies. Angie and Tina explained that this is Alabama Power's draft proposal based on previous license compliance, FERC Form 80 data collection, and internal expertise but that the proposal may be modified following the results of other studies, particularly the recreation study.

Barry Morris (Lake Wedowee Property Owners Association-LWPOA) asked that if a parcel is reclassified as part of this relicensing process, how difficult would it be to have the parcel return to its original classification (e.g., a parcel that is currently "recreation" to be reclassified as "natural undeveloped"). Tina noted that Alabama Power would have to get FERC approval to change the land use classification. Sarah Salazar (FERC) reminded stakeholders to review the existing definitions of the land use classifications, because "natural/undeveloped" allows for some recreation activities.

Tina explained Alabama Power's proposal to add "commercial recreation" classification to the Harris Project land classifications. This classification would apply to the property where the Wedowee Marine South is located as well as Alabama Power's shoreline office. Donna Matthews (LWPOA) asked if Alabama Power would develop commercial recreation sites. Tina replied that facilities on those lands would be leased for commercial recreation use and that the areas could remain open to the public for recreation use. Rachel asked if Alabama Power uses the commercial recreation land use classification on any of their other FERC regulated lakes; Tina replied yes.

Stan Nelson (Nelson and Company) asked about the current land use classification for a parcel near the Highway 48 bridge. Tina explained that the parcel in question is currently classified as recreation. Stan explained to HAT 4 that Randolph County Water Authority is interested in locating a proposed raw water intake on a portion of this parcel and that he feels it is compatible with the existing uses of that parcel.

Harry Merrill (LWPOA) asked what it means to "remove" lands from the Project. Tina explained that lands "removed" are those lands no longer within the FERC-regulated Harris Project Boundary. Ken Wills (Alabama Glade Conservation Coalition-AGCC) asked if the lands removed from the Project would be sold. Tina stated that land sales are one option, but Alabama Power could retain lands for other non-project uses.

Tina explained Alabama Power is conducting a study on a 20-acre parcel adjacent to Flat Rock to support the AGCC's request to reclassify that parcel as "natural/undeveloped". Ken asked if Alabama Power wants the botanists surveying that area to also include the portion of property across from the powerlines. Angie noted that Alabama Power will work with the AGCC to determine if that area should be included in the fall 2019 inventory. FERC staff agreed that it would be advantageous to conduct the inventory on all lands proposed for reclassification.

Maria Clark (EPA) asked if Alabama Power was planning to have buffers to avoid potential erosion areas. Tina responded that all Project lands are managed using Best Management Practices (BMPs) to address erosion. Angie also stated that any lands classified as “natural/undeveloped” serve as a “buffer” due to the limited activities and development on these lands and that Alabama Power already has a scenic buffer around Lake Harris.

Rachel McNamara explained that all FERC licensees are required to include only those lands within their Project Boundary that are necessary for project purposes. Barry Morris asked if land removed from the Harris Project Boundary would be available for purchase. Tina responded yes, that those lands would no longer be subject to FERC jurisdiction (i.e., no longer Project lands) but reiterated that land sales are one option. Rachel asked if Alabama Power is conducting terrestrial and cultural surveys on lands that are proposed to be removed from the Harris Project Boundary; Tina confirmed that those lands are being surveyed.

Ken Wills asked if FERC provided licensees with guidance on maintaining green space, or percentages of recreation areas, in a project license. Angie noted that FERC has shoreline management guidelines, but there are no specific percentages of land in any given land use classification—it is very project specific.

Stan Nelson reiterated his request that Alabama Power move forward with the water treatment site proposed on land currently classified as “recreation”. He noted that the intake would be located on 0.72 acres and that the raw water lines would parallel the existing electric lines. He noted that the facility must be in deep water that would not be affected by droughts and that the intake could be built to resemble a boat dock or courtesy pier. Angie responded that Alabama Power would add this request to the ongoing list of requests for land use changes. Stan asked what it means for something to be “tied up in relicensing”. Angie noted that for sites that are part of a study or other stakeholder request for a land use classification change (reclassify, remove, or add), Alabama Power will need to review all the requests and determine if any conflicts exist and, if so, would seek to resolve any conflicts with the relicensing stakeholders. Any final decision would be made by FERC at the time it issues its licensing decision for the Harris Project.

Taconya Goar (ADCNR) asked if Alabama Power was looking at areas downstream of the Harris Dam for canoe/kayak put in and take out locations, particularly at Wadley. Angie Anderegg indicated that Alabama Power is studying the demand for additional access points and is reviewing potential areas for public access on the Tallapoosa River.

The meeting adjourned at 1:30 pm.

ATTACHMENT A
HARRIS ACTION TEAM 4 MEETING ATTENDEES



HARRIS PROJECT RELICENSING

HAT 4 SIGN-IN SHEET

September 11, 2019 9:00 AM

Name/ Affiliation or Organization	Email
1 John Smith/ Stakeholder	jsmith@email.com
2 Brad Mitchell/ stakeholder	
3 David Smith	
4 Glenell Smith	
5 Kristie Coffman	
6 Taconya George ADCOR	
7 Capital Road INC	
8 Kelly Yates, Env. Affairs	kyates@southernco.com
9 Ken Wills - AGCC	ken.wills@jcdh.org
10 Tom Garland	
11 Mark Prestridge / Randolph County Water	mprandolphwater@gmail.com
12 ALBERT EILAND	



HARRIS PROJECT RELICENSING

HAT 4 SIGN-IN SHEET

September 11, 2019 9:00 AM

	Name/ Affiliation or Organization	Email
13	Dome Matthews	
14	Jennifer Rasbury	
15	Stam Nelson	Stelson@nelsonandco.com
16	Joel Stevens	
17	Trey Stevens	
18	Mike Holley	
19	Nathan Atcock	
20	Stacy Thompson APC	
21	Tina Freeman	
22	Sheila Smith	
23	HARRY E. MERRILL	HARRY.MERRILL47@gmail.com
24	Bobby Morris, LWPOA	



HARRIS PROJECT RELICENSING

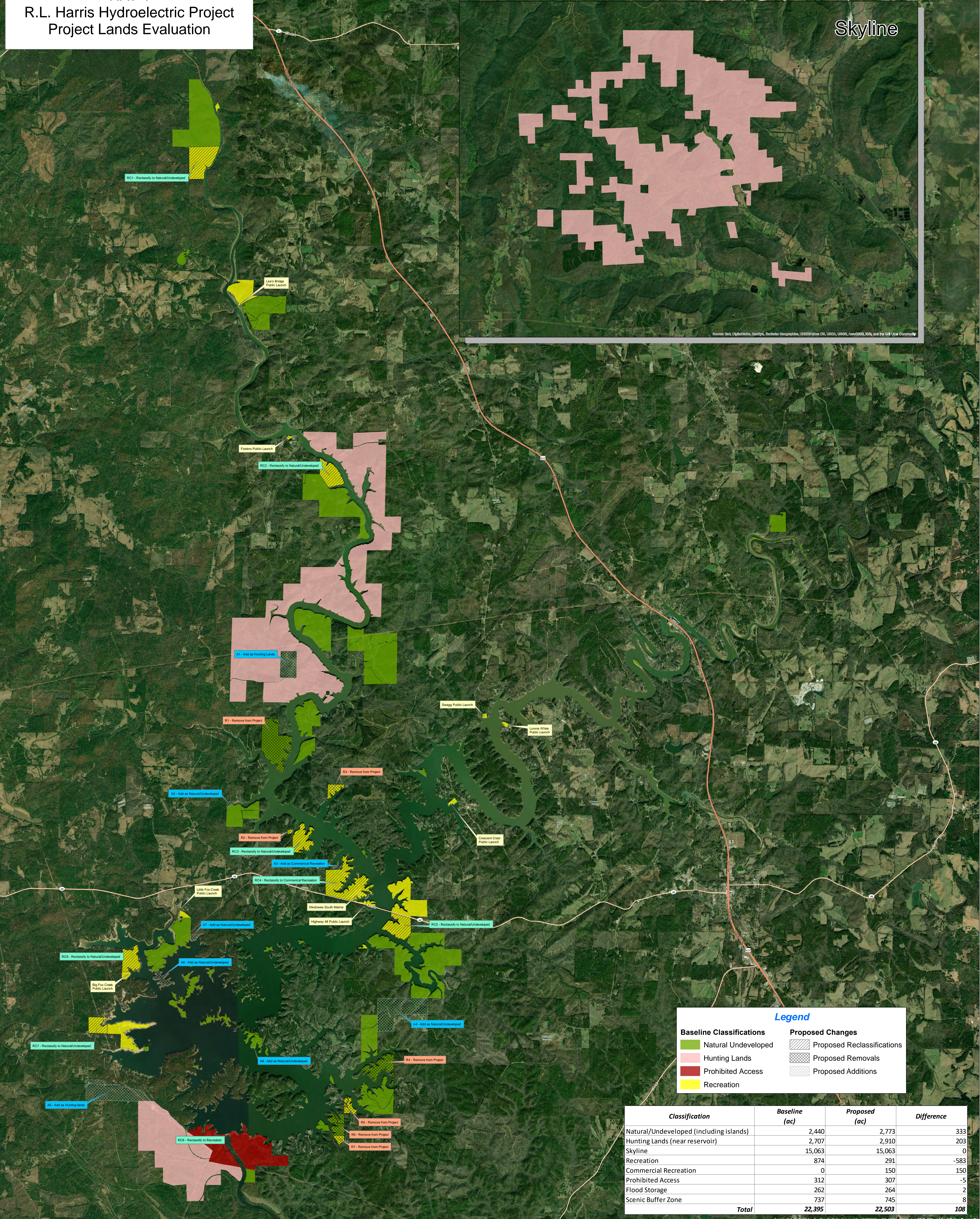
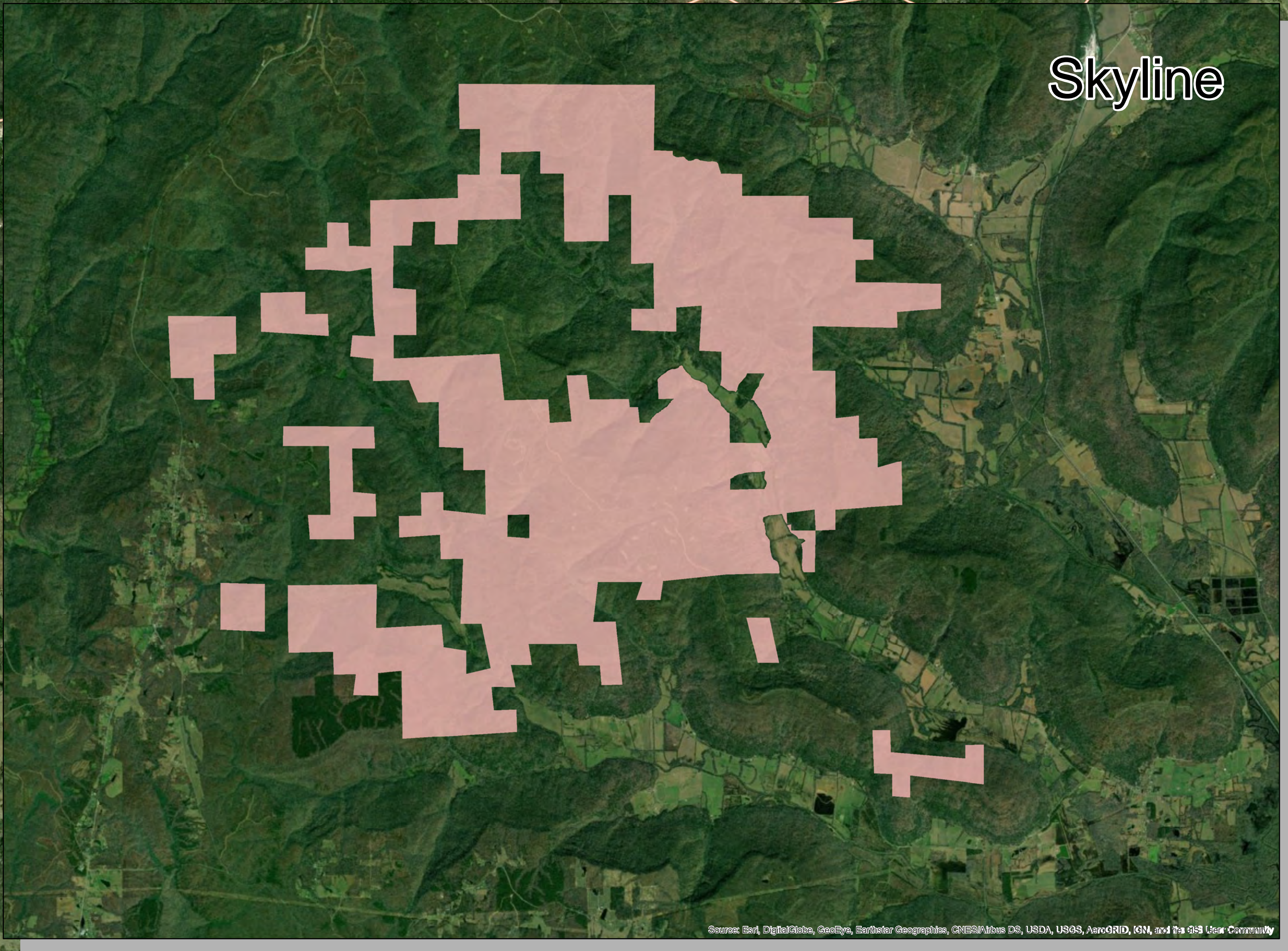
HAT 4 SIGN-IN SHEET

September 11, 2019 9:00 AM

Name/ Affiliation or Organization	Email
25 Josh Verby APC	
26 Jason Cartee APC	
27 Stacey Graham	
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ATTACHMENT B
SEPTEMBER 11, 2019 HAT 4 PRESENTATION

HAT 4 R.L. Harris Hydroelectric Project Project Lands Evaluation



Legend

Baseline Classifications	Proposed Changes
 Natural Undeveloped	 Proposed Reclassifications
 Hunting Lands	 Proposed Removals
 Prohibited Access	 Proposed Additions
 Recreation	

Classification	Baseline (ac)	Proposed (ac)	Difference
Natural/Undeveloped (including islands)	2,440	2,773	333
Hunting Lands (near reservoir)	2,707	2,910	203
Skyline	15,063	15,063	0
Recreation	874	291	-583
Commercial Recreation	0	150	150
Prohibited Access	312	307	-5
Flood Storage	262	264	2
Scenic Buffer Zone	737	745	8
Total	22,395	22,503	108



HAT 4

Project Lands



PROJECT LANDS EVALUATION



Goal

Identify lands around Lake Harris and at Skyline that are needed for Harris Project purposes and to classify these lands. Alabama Power will also evaluate the land use classifications for Harris and determine if any changes are needed to conform to Alabama Power's current land classification system and other Alabama Power FERC-approved Shoreline Management Plans. The study will identify lands to be added to, or removed from, the current Harris Project Boundary and/or be reclassified. Alabama Power proposes to use the project lands evaluation information to develop a Wildlife Management Plan (WMP) and a Shoreline Management Plan (SMP).

Geographic Scope

Harris Project Boundary and the associated Project Area.

Methods

Phase 1: Alabama Power will develop a draft map using GIS to show all proposed changes to Harris Project Lands. A botanical inventory of a 20-acre parcel at Flat Rock Park will be conducted and results will be used in the development of the SMP during Phase 2.

Phase 2: Using results of Phase 1, develop a SMP (Phase 2A) and a WMP (Phase 2B).



CURRENT LAND USE CLASSIFICATIONS



- Prohibited Access
- Hunting Lands
- Recreation
- Natural Undeveloped Lands

PROPOSED LAND USE CLASSIFICATIONS

Commercial Recreation



TYPES OF PROPOSED CHANGES



Reclassifications

- Do not change the Project Boundary
- Only changes the land classification for existing Project Lands

Removals

- Changes the Project Boundary
- Removes property above the 800' msl contour
- Property within the 800' msl contour remains in project; reclassified as
 - Flood Storage
 - Scenic Buffer Zone

Additions

- Changes the Project Boundary
- Adds property above the 800' msl contour
- Property within the 800' msl contour is reclassified to match addition



RECLASSIFICATIONS

RC2 – Reclassify to Natural Undeveloped + /- 63 acres



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RECLASSIFICATIONS

RC3 – Reclassify to Natural Undeveloped +/- 61 acres



RECLASSIFICATIONS

RC4 – Reclassify to Commercial Recreation + /- 148 acres



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

RECLASSIFICATIONS

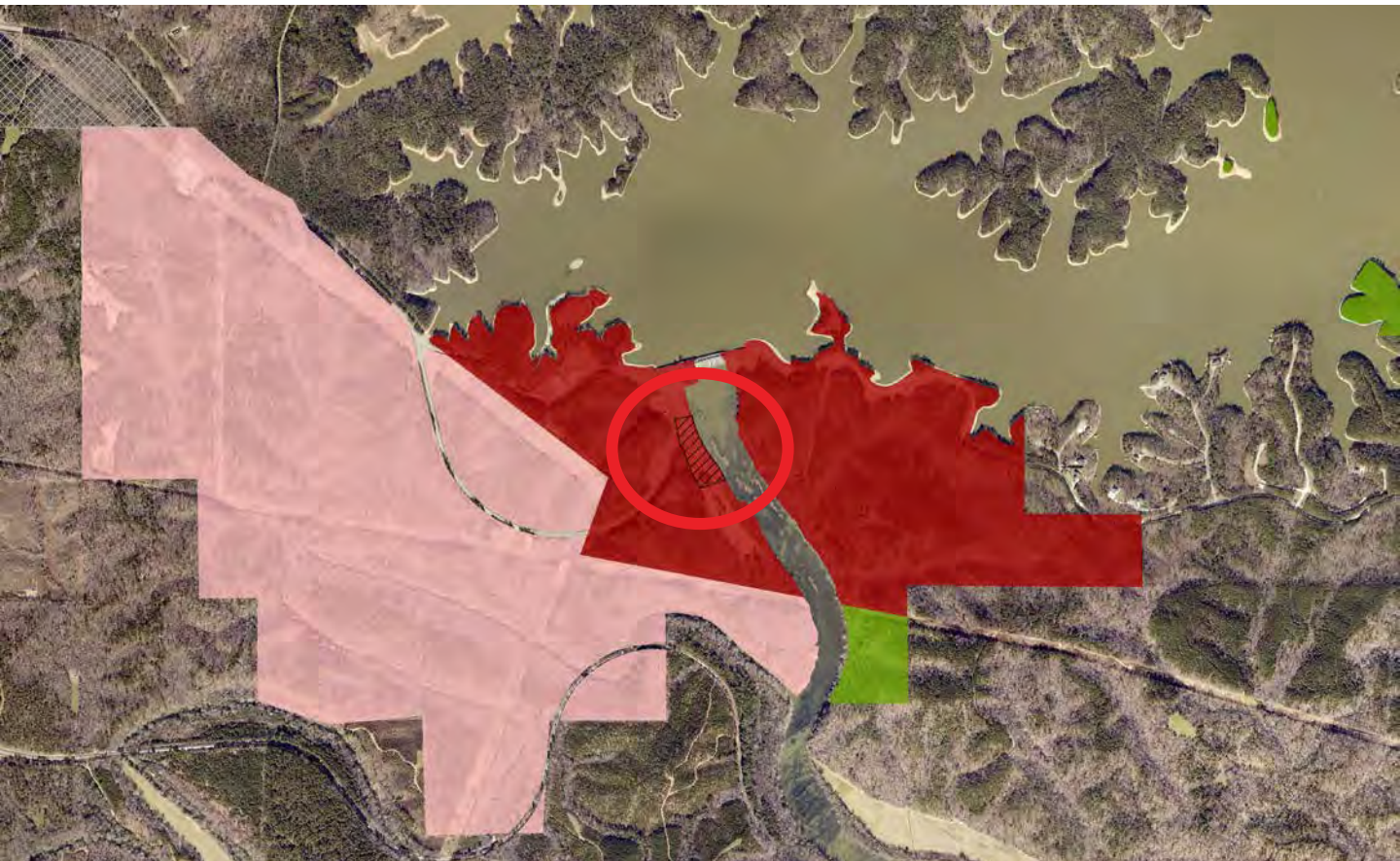
RC5 – Reclassify to Natural Undeveloped +/- 69 acres



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, AeroGRID, IGN, and the GIS User Community

RECLASSIFICATIONS

RC6 – Reclassify to Recreation + /- 5 acres



RECLASSIFICATIONS

RC7 – Reclassify to Natural Undeveloped + /- 40 acres



RECLASSIFICATIONS

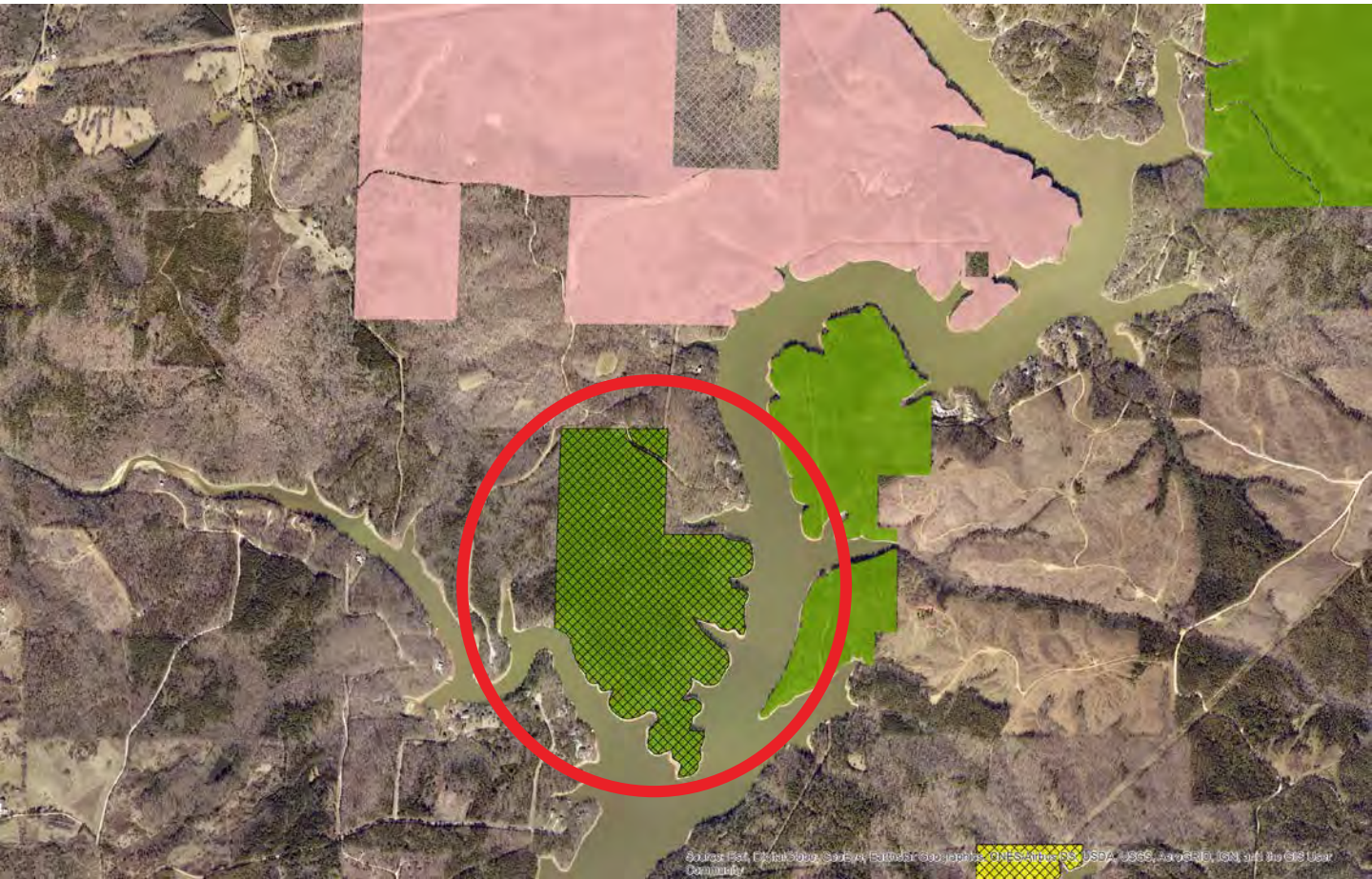
RC8 – Reclassify to Natural Undeveloped + /- 50 acres



REMOVALS



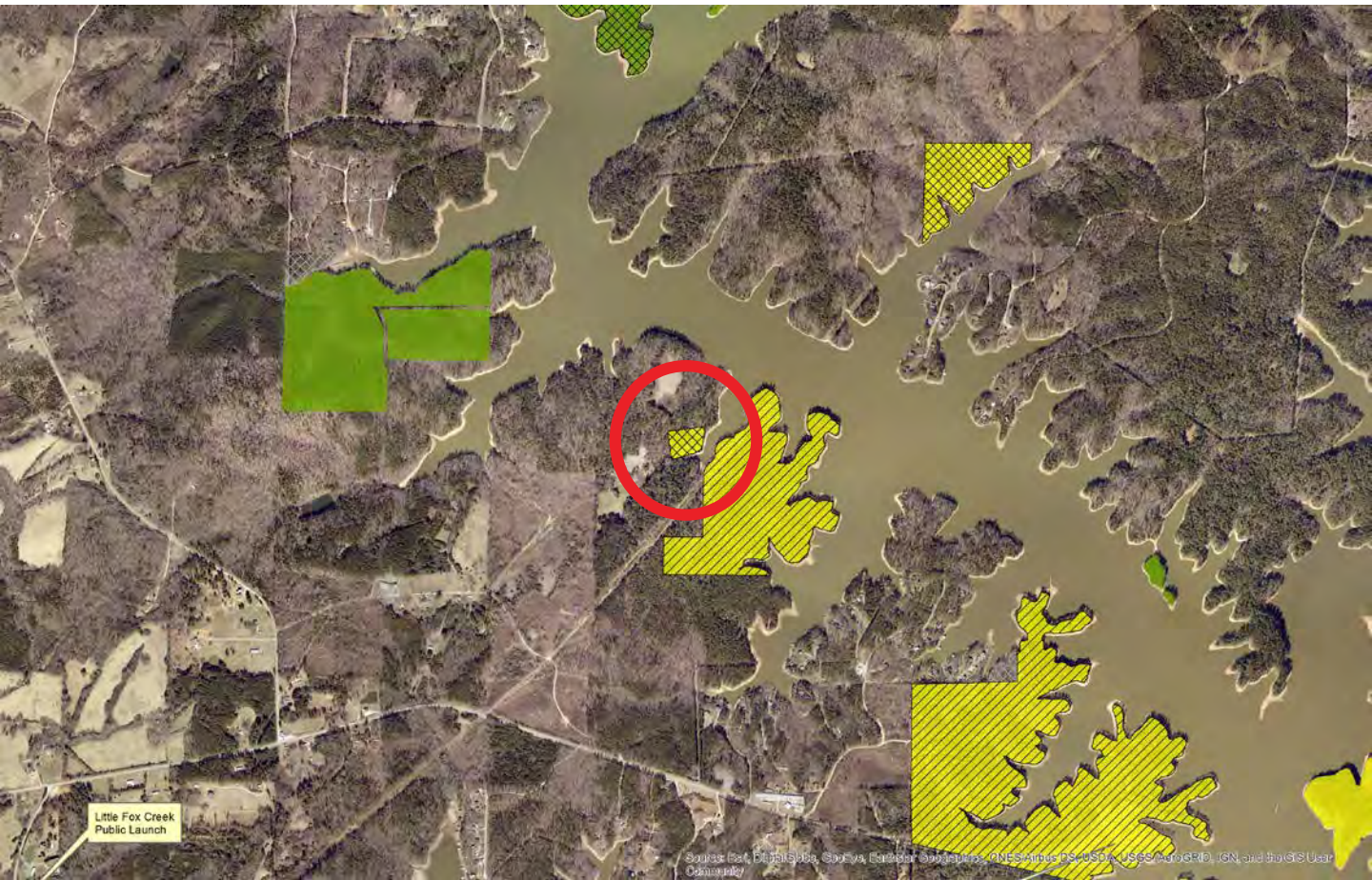
R1 +/- 149 acres of Natural Undeveloped



REMOVALS



R2 +/- 3 acres of Recreation



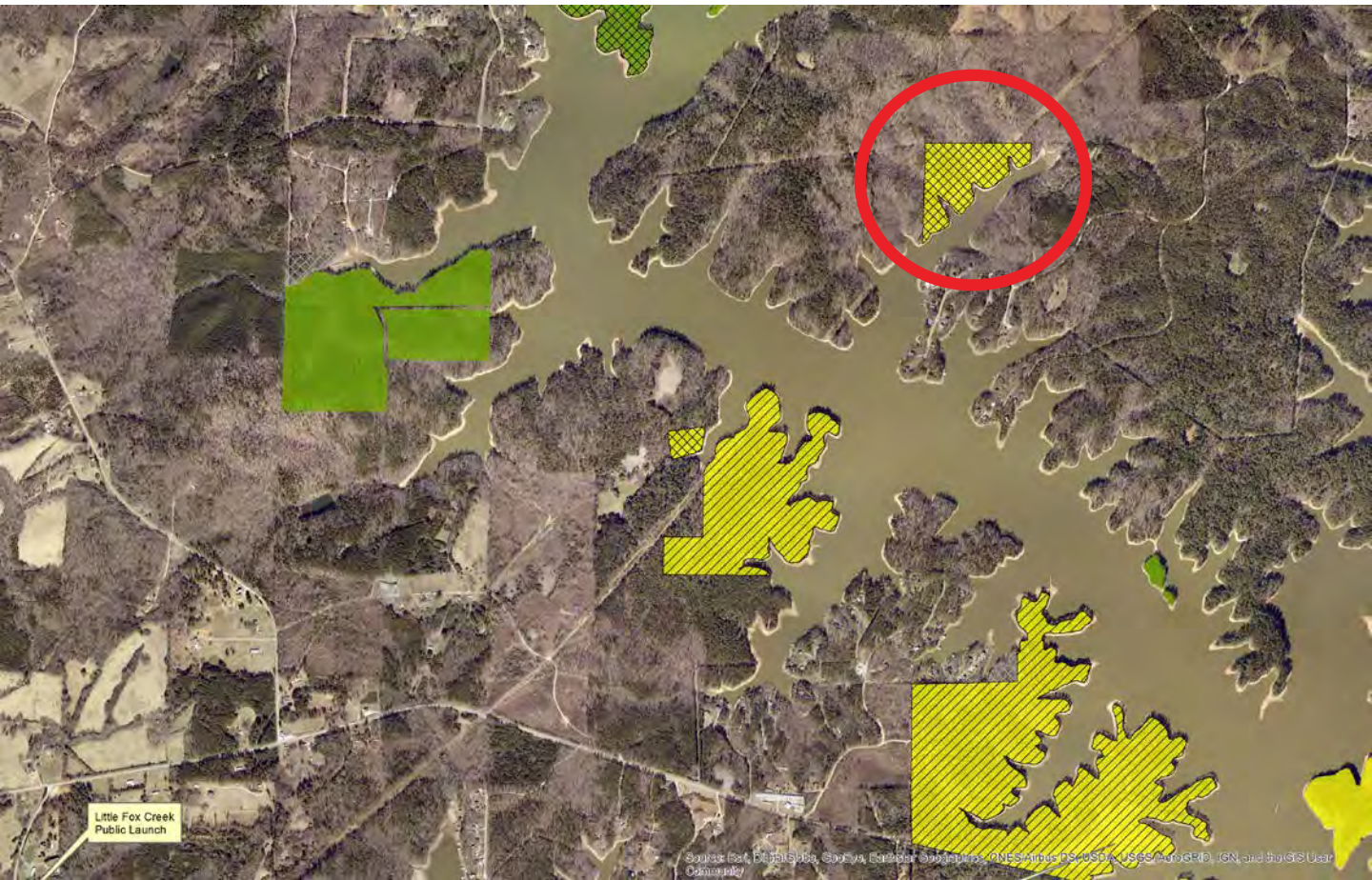
Little Fox Creek
Public Launch

Source: Esri, DigitalGlobe, GeoEye, Earthstar (Earthstar), CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

REMOVALS



R3 +/- 20 acres of Recreation



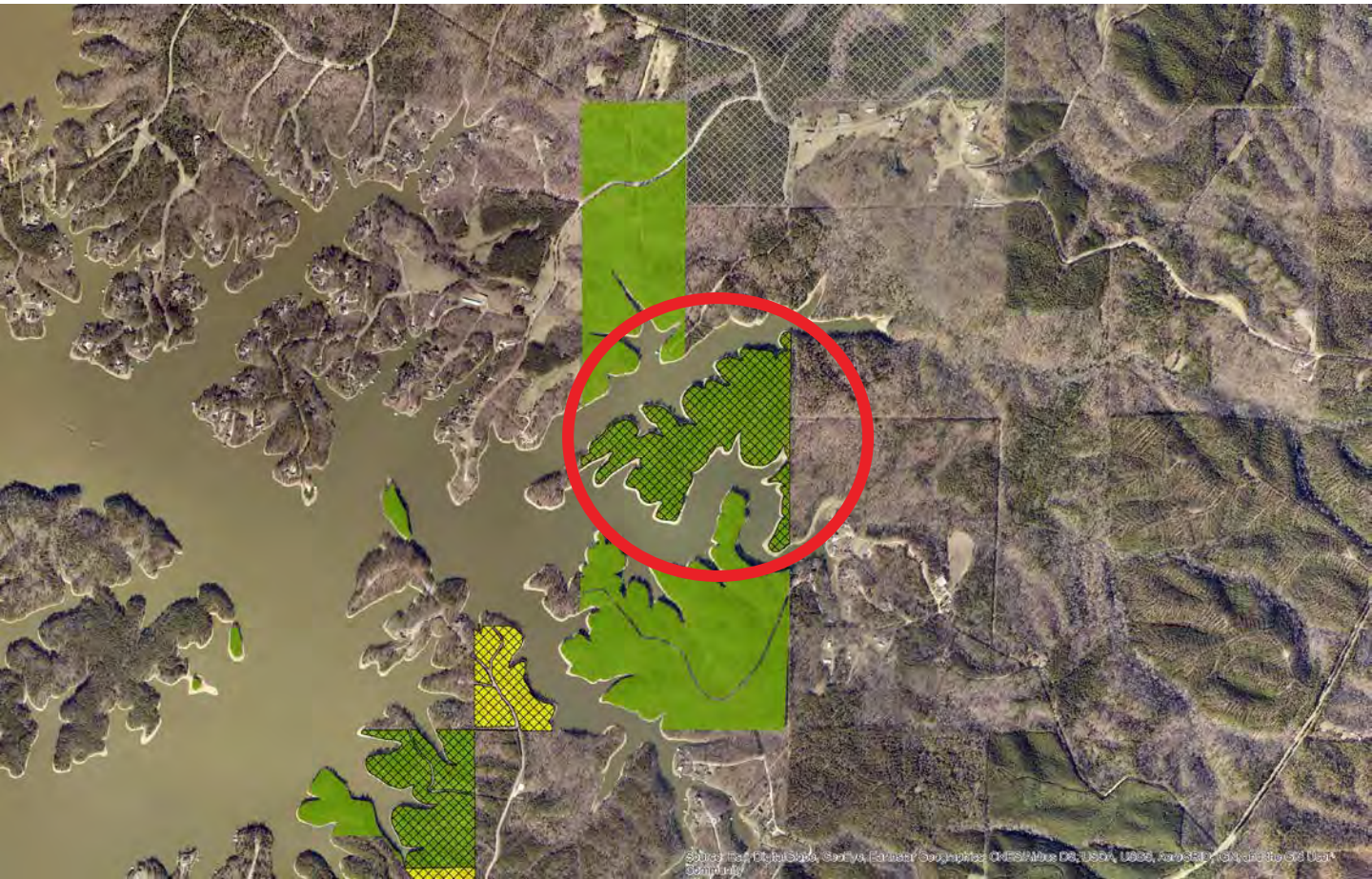
Little Fox Creek
Public Launch

Source: Esri, DigitalGlobe, GeoEye, Earthstar (Earthstar), CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

REMOVALS



R4 +/- 61 acres of Natural Undeveloped



REMOVALS

R5 +/- 19 acres of Recreation



REMOVALS

R6 +/- 37 acres of Natural Undeveloped



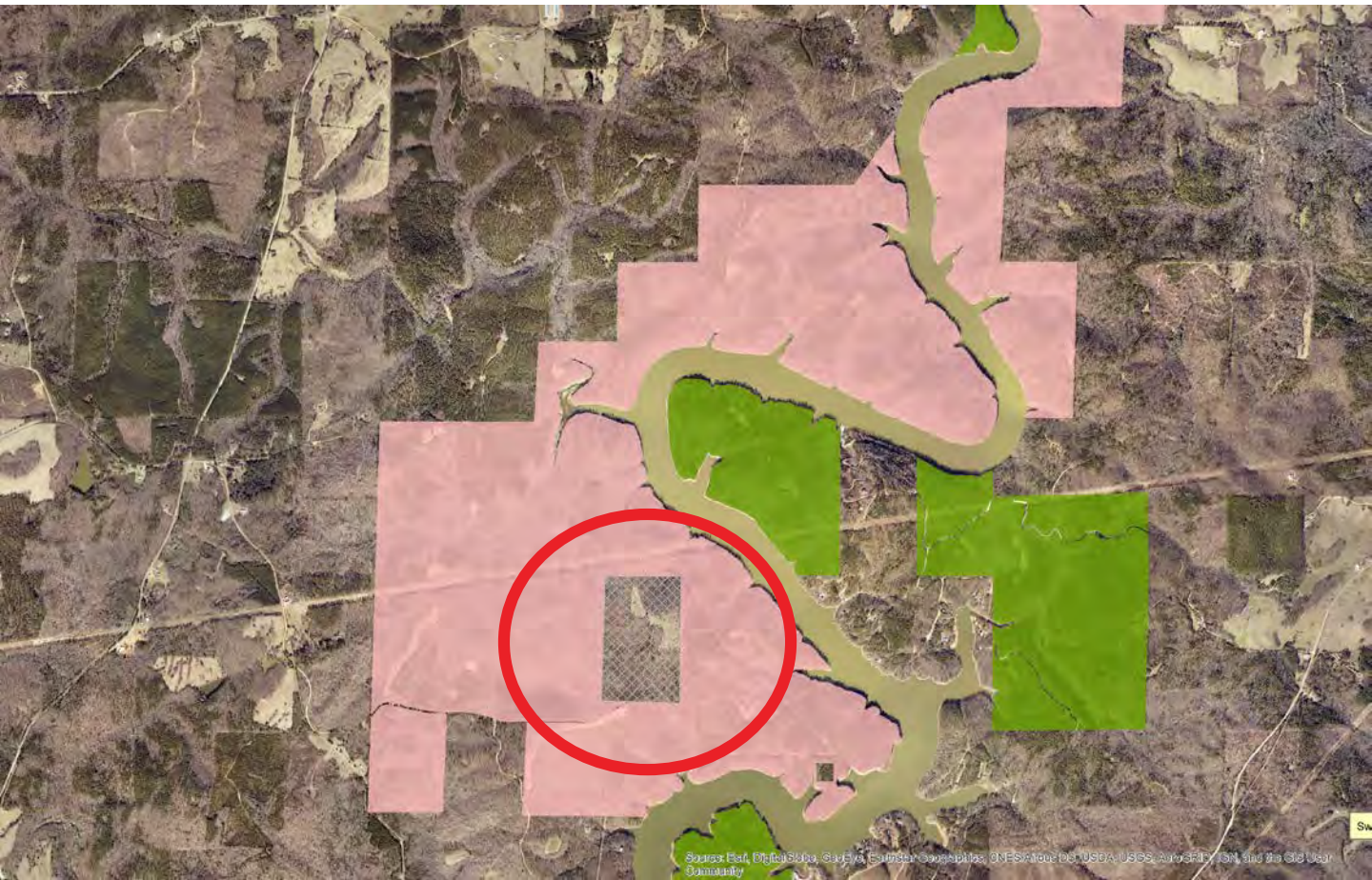
REMOVALS

R7 +/- 9 acres of Recreation



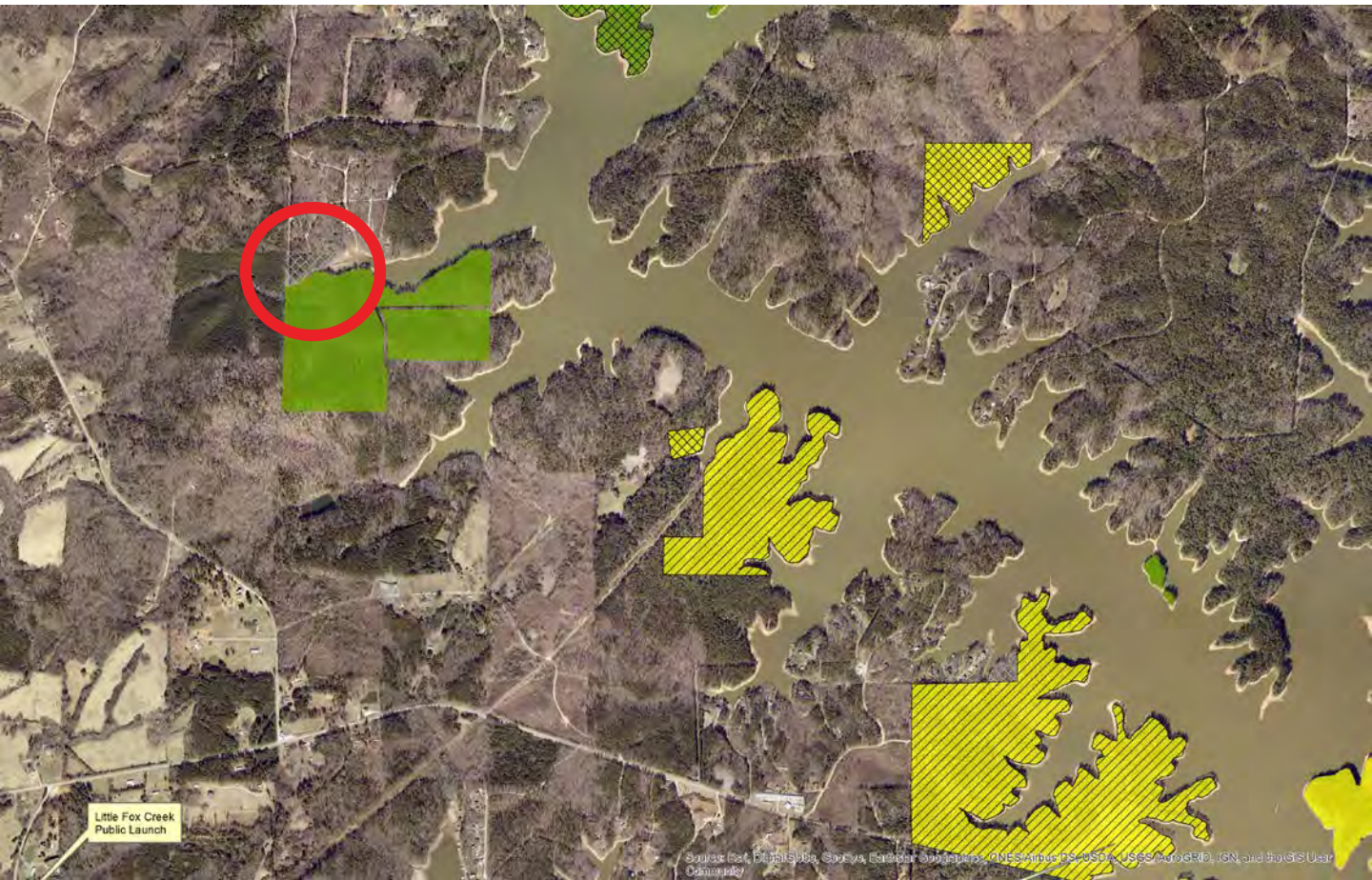
ADDITIONS

A1 +/- 64 acres as Hunting Lands



ADDITIONS

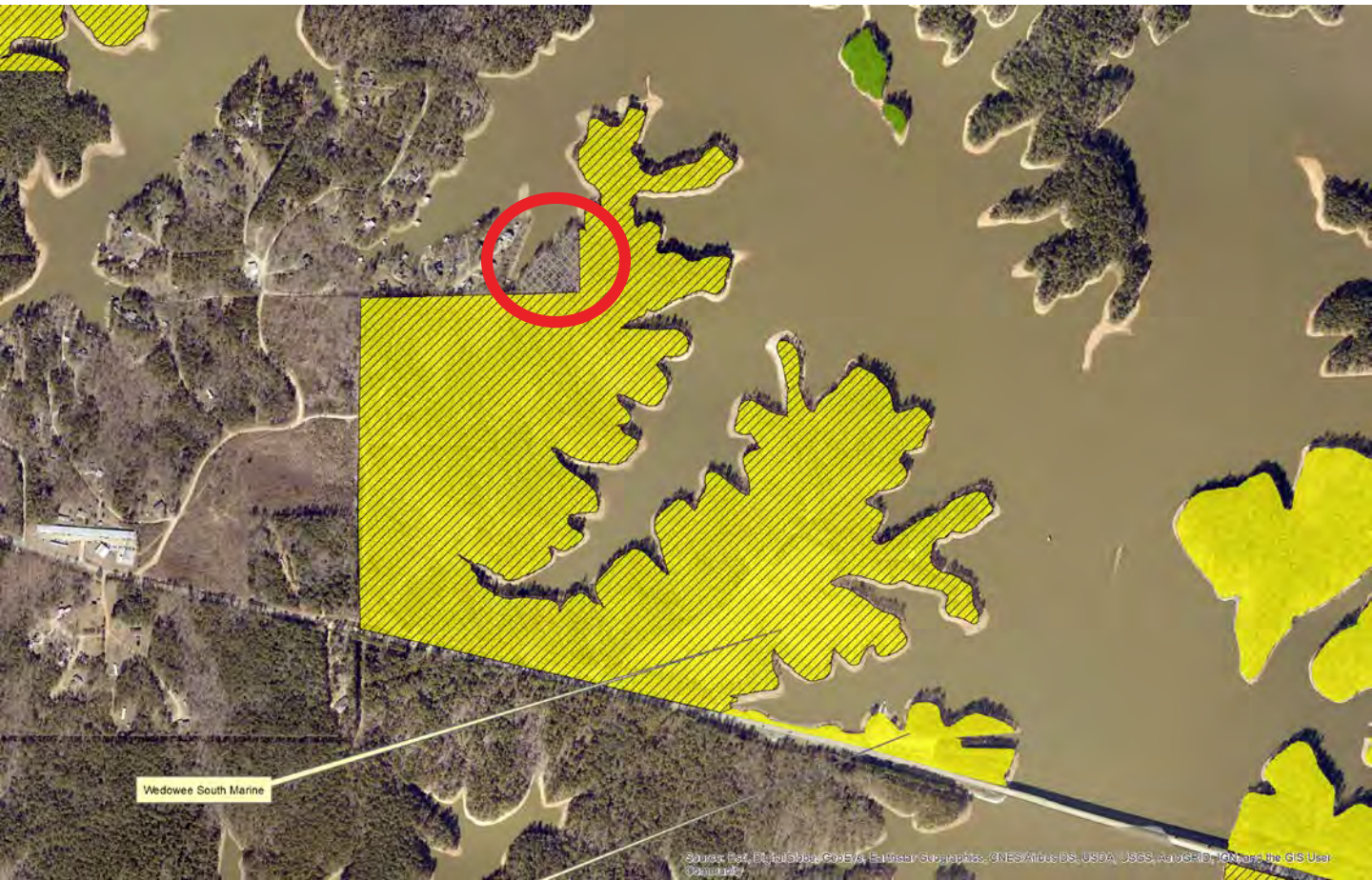
A2 + /- 4 acres as Natural Undeveloped



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

ADDITIONS

A3 +/- 2 acres as Commercial Recreation



Wedowee South Marine

ADDITIONS

A4 +/- 160 acres as Natural Undeveloped



ADDITIONS

A5 +/- 157 acres as Hunting Lands



ADDITIONS

A6 +/- 14 acres as Natural Undeveloped



ADDITIONS

A7 +/- 6 acres as Natural Undeveloped



ADDITIONS

A8 + /- 0.25 acres as Natural Undeveloped



APC Harris Relicensing

From: Stan Nelson <snelson@nelsonandco.com>
Sent: Wednesday, September 11, 2019 4:48 PM
To: aanderegg@southernco.com
Cc: Anderegg, Angela Segars; Bearden, Justin; Mark Carter; Caton, Ross E; Ciamarra, Michael (Shelby); Edge, William; ferc.adr@ferc.gov; Robert Fletcher; Graham, Stacey A.; Jon Hamilton; Haslbauer, Jennifer; Mike Henson; Jeremy Jessup; David Moore; Barbara Nelson; Ryan Nelson; snelson@nelsonandco.com; O'Neil, Robert; Peebles, Alan L.; Mark Prestridge; Smith, Sheila C.; Streett, Emily; John Tinney; Walker, Shannon; White, Aimee B; Vester Whitmore; gene@wedoweelakehomes.com; Marilyn Lott; JJ Wendling; Irving Thompson; Roy Adamson; Terry Buttler; Mayor Donna McKay; Doyle Allen; Brent Wheeler; Tim Coe; John Harmon; Jerrell Hodges; alenmcdaniel@yahoo.com; Tony Segrest
Subject: 9-11-19 HAT-4 Meeting and Raw Water Intake

EXTERNAL MAIL: Caution Opening Links or Files

Ms. Anderegg:

I enjoyed today's meeting and hopefully we can work something out that will benefit the proposed day use park and the Authority. We look forward to sitting down with your staff next week.

The raw water intake can take many shapes and have a dual use as a high public viewing platform over the Lake in connection with the day use park.

The raw water line will be buried and no one will know its there. It will be more compatible with the day use park than the existing power lines.

The raw water structure can be designed to be very attractive as shown in the attached photo. Our design will be different with the gate operators on the inside of the building away from public access and the bridge to the structure will be shorter, wider and provide truck accessibility to the building during rare times of heavy maintenance.



Thanks again for inviting us to the HAT-4 meeting and look forward to meeting with you next week.

Stan Nelson, PE
NELSON & COMPANY, PC - Consulting Engineers
400 Emery Drive, Suite 300
Birmingham, AL 35244-4548
Work (205) 989-5690
Fax (205) 989-5672
Cell (205) 585-4600
snelson@nelsonandco.com

APC Harris Relicensing

From: Wills, Ken <Ken.Wills@jcdh.org>
Sent: Thursday, September 12, 2019 11:26 AM
To: Anderegg, Angela Segars; Kenneth Wills
Cc: APC Harris Relicensing
Subject: RE: Found major error on new Flat Rock Map

Hello Angie,

Thanks for addressing this so quickly. I look forward to seeing the next version of the map.

I will let you know if we find anything interesting on the other proposed Natural Undeveloped acreage to the west of the original botanical area.

I will also send you some personal comments on the overall land use plan. I thought the overall map looked good, but you might want to consider some factors before removing some tracts from the project. My comments outside the proposed botanical area at Flat Rock will just be given simply for your consideration with no strong recommendations.

Thanks again for addressing the Flat Rock map issue so quickly,
Ken Wills

From: Anderegg, Angela Segars [mailto:ARSEGARS@southernco.com]
Sent: Thursday, September 12, 2019 11:13 AM
To: Kenneth Wills <memontei@aol.com>; Wills, Ken <Ken.Wills@jcdh.org>
Cc: APC Harris Relicensing <g2apchr@southernco.com>
Subject: RE: Found major error on new Flat Rock Map

Hi Ken,

Thanks for taking a close look. You are correct that the original 20 acres was left out of what we presented yesterday. It was an inadvertent mapping error on our part and I assure you it will be corrected in the next version of this map.

In the next week or so, I will be soliciting comments from HAT 4. To avoid confusion, I'll be sending the map that was shown yesterday. However, we will definitely make sure that we incorporate your note and that the error is corrected once we have everyone's comments. So, the next version you'll see will have the correction.

Thanks again for taking a close look and letting us know!

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Kenneth Wills <memontei@aol.com>
Sent: Wednesday, September 11, 2019 9:43 PM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>; ken.wills@jcdh.org
Subject: Found major error on new Flat Rock Map

Hello Angie,

I was looking at the proposed land use map for Harris in detail tonight and noticed the boundaries for the reclassification of 40 acres to Natural Undeveloped at Flat Rock Park excluded most of the original proposed 20 acre botanical area including most of the remaining pristine granite outcrop plant habitats. I am sure that is just a mapping mistake, but I hope that can be corrected as soon as possible. Otherwise the whole botanical survey and granite outcrop conservation project is basically for naught.

I don't have access to a scanner tonight, so I had to take photos to show you all what needs to be changed. The first photo is of the original proposed 20 acre botanical conservation area as shown in the botanical inventory proposal. The botanical area's eastern boundary is defined by the west side of the park entrance road and the edge of the woods to the west of the main granite outcrop of the developed park. This boundary includes all the remaining pristine granite outcrops as well as the critical wooded buffer surrounding them. That wooded buffer filters out overuse by general park users, and it protects the hydrology of the seepage habitats on the granite outcrops. The park road and edge of the woods are easily definable boundaries on maps and on the ground as well. These boundaries do not interfere with existing park uses or facilities in the developed portion of the park. As I understand it, any recreation expansion would happen along the water to the south of the existing park facilities. Therefore, the boundaries of the original 20 acre botanical area should present no conflicts with present and future recreation in Flat Rock Park.

The second photo shows the changes that need to happen to the proposed land use map to include all of the the originally proposed 20 acre botanical area in a Natural Undeveloped classification. I included the rough location of the major pristine granite outcrops to show why the original boundaries need to be included in Natural Undeveloped. As you know, I was pleased to see lands west of the power-line included in the Natural Undeveloped classification, but reclassifying all of the originally proposed 20 acre botanical area to Natural Undeveloped is critical.

Please let me know that you received this message, and let me know if and when the map can be changed to include the whole original 20 acre botanical area in the proposed reclassification to Natural Undeveloped. If you can send me an updated snippet of that section of the land-use map showing the change, that will help ensure we are all on the same page as the FERC and botanical area process continues.

Thanks for all you are doing to coordinate this process,
Ken Wills
Acting Coordinator Alabama Glade Conservation Coalition



FIGURE 1 PROPOSED CONSERVATION/INVENTORY AREA FOR RARE PLANT COMMUNITIES OF GRANITE OUTCROPS, APPROXIMATELY 20-ACRES.

1.2 PROJECT TEAM

Photo



- - Original 20 Acre Botanical Conservation Area Proposed
- X - Remaining Pristine Granite Outcrop Flat Habitats

Sent from my iPhone

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Thursday, September 12, 2019 4:13 PM
To: Kelly Schaeffer
Cc: APC Harris Relicensing
Subject: FW: FERC participants on call

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Sarah Salazar <Sarah.Salazar@ferc.gov>
Sent: Thursday, September 12, 2019 2:29 PM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Subject: RE: FERC participants on call

EXTERNAL MAIL: Caution Opening Links or Files

Hi Angie,

Sure! For the first mtg., Monte TeHarr (engineer) and I were present for the whole mtg. and I think Kyrstin Wallach (attorney) was present for about half of it and then had to run to another mtg. For the second mtg., I was the only one present (Allan Creamer was on leave but I will fill him in and let him know about the documents and GIS reference points that will be available on your website). For the last mtg. of the day, Rachel McNamara, Kyrstin Wallach, and I were present.

By the way, I thought the slides for the first presentation especially were really nice in terms of helping to explain/visualize the general concepts of, and the process that goes into the hydraulic modeling of project operations/downstream flows. I hope the slides will be available on your website too—I think the presenter said they would be uploaded there for reference.

Thanks,

Sarah L. Salazar ✦ *Environmental Biologist* ✦ *Federal Energy Regulatory Commission* ✦ 888 First St, NE, Washington, DC 20426 ✦ (202) 502-6863
🌱 *Please consider the environment before printing this email.*

From: Anderegg, Angela Segars [<mailto:ARSEGARS@southernco.com>]
Sent: Thursday, September 12, 2019 2:36 PM
To: Sarah Salazar <Sarah.Salazar@ferc.gov>
Subject: FERC participants on call

Hi Sarah,

Could you send me a list of the FERC staff who joined us for yesterday's HAT meetings? I want to make sure we have an accurate attendee list.

Thanks!

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com

APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Monday, September 23, 2019 10:58 AM
To: Barry Morris
Subject: Re: Erosion study map

Hi Barry,

We're working on getting the meeting notes put together for the September 11 meeting. Once they're ready (should be this week), we'll put those and all the meeting materials including the erosion/sedimentation map on the website and let all of the HAT know they are available.

When you take a look at the map, let me know if you need to discuss anything.

Thanks!

Angie

From: Barry Morris <rbmorris333@gmail.com>
Sent: Monday, September 23, 2019 9:27 AM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>
Subject: Erosion study map

EXTERNAL MAIL: Caution Opening Links or Files

Good morning Angie. At the HAT meetings on 11 September a map of the erosion/sedimentation study sites was shown. One of our LWPOA members has a question about the sites and I can't find it on the relicensing website. Could you or a member of the relicensing team please send me the link or an email with the map attached.

In our case the question involves the point on the west side of the Little Tallapoosa channel opposite where Wedowee creek enters the river.

Thanks in advance for your help. Barry

Barry Morris
404 449 3452 (c)

HAT 3 - 8/27 meeting notes

Anderegg, Angela Segars

Wed 9/25/2019 7:43 PM

To: 'harrisrelicensing@southernco.com' <harrisrelicensing@southernco.com>
 Bcc amy.silvano@dcnr.alabama.gov <amy.silvano@dcnr.alabama.gov>; chris.greene@dcnr.alabama.gov <chris.greene@dcnr.alabama.gov>; damon.abernethy@dcnr.alabama.gov <damon.abernethy@dcnr.alabama.gov>; evan.lawrence@dcnr.alabama.gov <evan.lawrence@dcnr.alabama.gov>; keith.henderson@dcnr.alabama.gov <keith.henderson@dcnr.alabama.gov>; mike.holley@dcnr.alabama.gov <mike.holley@dcnr.alabama.gov>; stan.cook@dcnr.alabama.gov <stan.cook@dcnr.alabama.gov>; steve.bryant@dcnr.alabama.gov <steve.bryant@dcnr.alabama.gov>; taconya.goar@dcnr.alabama.gov <taconya.goar@dcnr.alabama.gov>; ken.wills@jcdh.org <ken.wills@jcdh.org>; arsegars@southernco.com <arsegars@southernco.com>; ammcvica@southernco.com <ammcvica@southernco.com>; dkanders@southernco.com <dkanders@southernco.com>; jcarlee@southernco.com <jcarlee@southernco.com>; jefbaker@southernco.com <jefbaker@southernco.com>; kechandl@southernco.com <kechandl@southernco.com>; tlmills@southernco.com <tlmills@southernco.com>; cggoodma@southernco.com <cggoodma@southernco.com>; clowry@alabamarivers.org <clowry@alabamarivers.org>; cchaffin@alabamarivers.org <cchaffin@alabamarivers.org>; gjobsis@americanrivers.org <gjobsis@americanrivers.org>; devridr@auburn.edu <devridr@auburn.edu>; irwiner@auburn.edu <irwiner@auburn.edu>; kmo0025@auburn.edu <kmo0025@auburn.edu>; wrighr2@aces.edu <wrighr2@aces.edu>; jhancock@balch.com <jhancock@balch.com>; lgallen@balch.com <lgallen@balch.com>; chrisoberholster@birminghamaudubon.org <chrisoberholster@birminghamaudubon.org>; sarah.salazar@ferc.gov <sarah.salazar@ferc.gov>; allan.creamer@ferc.gov <allan.creamer@ferc.gov>; rachel.mcnamara@ferc.gov <rachel.mcnamara@ferc.gov>; monte.terhaar@ferc.gov <monte.terhaar@ferc.gov>; amanda.fleming@kleinschmidtgroup.com <amanda.fleming@kleinschmidtgroup.com>; colin.dinken@kleinschmidtgroup.com <colin.dinken@kleinschmidtgroup.com>; henry.mealing@kleinschmidtgroup.com <henry.mealing@kleinschmidtgroup.com>; jason.moak@kleinschmidtgroup.com <jason.moak@kleinschmidtgroup.com>; kate.cosnahan@kleinschmidtgroup.com <kate.cosnahan@kleinschmidtgroup.com>; kelly.schaeffer@kleinschmidtgroup.com <kelly.schaeffer@kleinschmidtgroup.com>; sforehand@russelllands.com <sforehand@russelllands.com>; lgarland68@aol.com <lgarland68@aol.com>; pace.wilber@noaa.gov <pace.wilber@noaa.gov>; mitchell.reid@tnc.org <mitchell.reid@tnc.org>; donnamat@aol.com <donnamat@aol.com>; trayjim@bellsouth.net <trayjim@bellsouth.net>; mhpwedowee@gmail.com <mhpwedowee@gmail.com>; straylor426@bellsouth.net <straylor426@bellsouth.net>; triciastearns@gmail.com <triciastearns@gmail.com>; wmcampbell218@gmail.com <wmcampbell218@gmail.com>; holliman.daniel@epa.gov <holliman.daniel@epa.gov>; decker.chris@epa.gov <decker.chris@epa.gov>; bill_pearson@fws.gov <bill_pearson@fws.gov>; evan_collins@fws.gov <evan_collins@fws.gov>; jeff_powell@fws.gov <jeff_powell@fws.gov>; jennifer_grunewald@fws.gov <jennifer_grunewald@fws.gov>; jeff_duncan@nps.gov <jeff_duncan@nps.gov>

Good afternoon HAT 3,

The meeting notes and presentation for the August 27 HAT 3 meeting can be found on the Harris relicensing website:

[2019-8-27 HAT 3 meeting notes.](#)

Thanks,

Angie Anderegg

Hydro Services

(205)257-2251

arsegars@southernco.com



R. L. Harris Hydroelectric Project

FERC No. 2628

Meeting Summary

HAT 3 Meeting

August 27, 2019

10:00 am to 12:00 pm

Wendell Mitchell Conference Center, Greenville, AL

Participants:

Angie Anderegg - Alabama Power

Jeff Baker - Alabama Power

Jason Carlee - Alabama Power

Curt Chaffin - Alabama Rivers Alliance (ARA)

Kristie Coffman - Alabama Cooperative Fish and Wildlife Research Unit

Evan Collins - United States Fish and Wildlife Service (USFWS)

Colin Dinken - Kleinschmidt

Taconya Goar - Alabama Department of Conservation of Natural Resources (ADCNR)

Elise Irwin - USGS Alabama Cooperative Fish and Wildlife Research Unit (ACFWRU)

Jason Moak - Kleinschmidt

By Phone:

Dave Anderson - Alabama Power

Chris Goodman - Stakeholder

Donna Matthews - Stakeholder

Ashley McVicar - Alabama Power

Sarah Salazar - Federal Energy Regulatory Commission (FERC)

Action Items:

- Prepare draft meeting notes and distribute to HAT 3 members (will also be available on the Harris Relicensing website – Alabama Power)
- Determine the need, extent, and timing of surveys for finelined pocketbook in Tallapoosa River near HWY 431 - Alabama Power and USFWS
- Review existing information on southern pigtoe and Morefield's leather flower to determine if further analysis is warranted - USFWS
- Determine if there is existing data for fish/mussel communities at Little Coon Creek – Alabama Power
- Determine the need, extent, and timing of surveys to assess aquatic habitat in Little Coon Creek – Alabama Power and USFWS

Meeting Summary:

Angie Anderegg (Alabama Power) opened the meeting by explaining where we are in the R.L. Harris Project (Harris Project) relicensing process. Alabama Power filed a revised Study Plan on March 13, 2019, and FERC issued its study plan determination on April 12, 2019. Since the study plan approval, Alabama Power started several studies and will host additional Harris Action Team (HAT) meetings to provide progress updates on the various resource studies.

Jason M. (Kleinschmidt) reviewed the goal, geographic scope, and methods of the Threatened and Endangered (T&E) Species Study Plan. Jason M. then reviewed the study schedule and upcoming October Progress Update. Alabama Power plans to distribute a draft T&E Study Report in February 2020 and file the Initial Study Report with FERC in April 2020. Harris Action Team meetings will be held subsequently as needed, and Alabama Power will file with FERC, an additional Progress Update in October 2020, and an Updated Study Report in April 2021.

At present, there are no listed species known to occur within the Harris Project Boundary. Jason M. reviewed the list of federally threatened and endangered species potentially occurring in Alabama counties within the Harris Project, beginning with the Red-cockaded woodpecker (RCW). Jeff Baker (Alabama Power) reported no RCW habitat has been observed in the Harris Project Boundary during bald eagle surveys and no RCWs have been observed to date.

Curt Chaffin (Alabama Rivers Alliance) mentioned the June 2019 removal of the Howle and Turner Dam on the Tallapoosa River upstream of Lake Harris and asked if there was any chance the removal could affect critical habitat for the finelined pocketbook. Evan Collins (USFWS) replied that given the proximity of the finelined pocketbook's critical habitat to the Project Boundary, some investigation could be warranted. Jason asked where in the mainstem the species occurred, and Evan said he could send Alabama Power a map and that he would not be surprised if finelined pocketbook occurred near the Harris Project Boundary (around HWY 431). Sarah Salazar (FERC) suggested that any mussel assessments should also consider fish species that serve as hosts for mussel larvae.

Jason M. noted that the Southern Pigtoe is endemic to the Coosa River and may have never existed in the Tallapoosa basin, which may warrant removal from further consideration. Sarah noted that Alabama Power should document USFWS concurrence with any decision to remove from consideration any species on the official list.

Jason M. reviewed the Indiana Bat, Northern Long-eared Bat and Gray Bat. He noted that the Alabama Natural Heritage Program did not report any occurrences of these bat species in the Harris Project Boundary. Evan stated it is likely that all three bat species occur at Skyline. Jason Carlee (Alabama Power) confirmed that timber harvest activities follow appropriate Best Management Practices (BMPs), including leaving snag tree and preferred habitat trees and delaying timber harvest during sensitive time periods. Some forestry BMPs have been expanded but have not been incorporated into the existing license. Sarah noted that it appears that all project counties occur within the White Nose Syndrome Zone.

Jason M. reviewed threatened and endangered plants, beginning with Little Amphianthus (Pool Sprite). One occurrence was reported within the Harris Project Boundary in Flat Rock Park in March 17, 1995. The group discussed the possibility of changing the land use classification of some lands from Recreation to Natural/Undeveloped and noted that surveys at Flat Rock Park occurred in Fall 2018 and Spring 2019. An additional survey is scheduled for Fall 2019. Taconya Goar (ADCNR) asked Alabama Power to clarify what it means to reclassify land as Natural/Undeveloped. Angie commented that the 20-acre parcel of land where the botanical inventory is taking place is currently classified as Recreation. The American Glade Conservation Coalition (AGCC) has recommended that Alabama Power reclassify the 20-acres to provide additional protection for the rare habitat types present there. Jeff Baker (Alabama Power) mentioned the BioBlitz held at that site in Fall 2018. Evan asked if the AGCC were looking for

suitable habitat in addition to the species themselves. Jason Carlee noted that the ongoing survey efforts will document both the species and habitats currently present on the parcel.

Jason M. reviewed the White Fringeless Orchid and stated that Alabama Power may use Geographic Information System (GIS) data to determine if habitat requirements align with potential habitat available within the Project Boundary. Jason M. reviewed the Price's Potato-bean and stated that Alabama Power may further investigate this species since it is known to be present within the Skyline Wildlife Management Area. Jason M. also reviewed the Morefield's Leather Flower. Sarah asked if there would be a complete set of maps for the Project Update and stated that Morefield's Leather Flower is not in the Information for Planning and Consultation (IPaC) species list. Angie asked why this species wasn't in the IPaC or Natural Heritage Program list but is in the Study Plan. Evan commented that the IPaC data is on a finer scale than a county and that he would look through USFWS data.

Evan commented on some of the different requirements of certain mussel species and fish: the *Notropis* species (Palezone Shiner) may be present in some of the lower reaches of Tennessee River tributaries. Jeff offered to make an inquiry with ADEM to determine if/where they have performed fish surveys on Little Coon Creek at Skyline. Evan suggested that Little Coon Creek would need to be investigated further to determine the type and extent of available habitat and whether it is suitable for aquatic species listed in the study plan.

Jason M. reiterated the need to investigate the likelihood of some of the study plan species occurring within the Harris Project. Jason C. pointed out that most of the field verification work could be performed fairly quickly. Evan will take a closer look at the distributions of some plant species such as Morefield's Leather Flower to see if they should remain in the Study Plan. Evan asked how the habitat assessment was going to be performed. Jason M. replied that Alabama Power is consulting with subject matter experts that are familiar with these areas and looking at the possibility of field surveys for confirmation. Jason C. discussed existing protection and enhancement measures performed by Alabama Power, including BMPs, animal boxes, and future discussion items such as the Wildlife Management Plan.

Jason M. noted Kleinschmidt will prepare the T&E Species report, which will focus on life history requirements and distributions of study plan species within the geographic scope. Alabama Power will host a HAT 3 meeting in the Spring of 2020, but a phone meeting may be scheduled earlier if needed.

R.L. Harris Project Relicensing

HAT 3 – Threatened & Endangered Species Study

August 27, 2019



Safety Moment



In case of an emergency.....

- Designee will contact 911
- Exit locations
- Designated meeting area
- Location of AED



Meeting Agenda



- Introductions and Process Overview
- Review Study Plan & Species List
- Timeline for Desktop Assessment
- Discuss need for Field Surveys
- Discuss Existing Protection and Enhancement Programs
- Review Action Items
- Adjourn



Process Update



March 13 - Revised Study Plans Filed

April 12 - FERC Study Plan Determination

Summer/Fall 2019 – Various HAT meetings

T & E Species Study



Goal

Determine if listed species occur in the Project Area and identify potential project impacts

Geographic Scope

Harris Project Boundary (Lake Harris and Skyline), and Tallapoosa River from Harris Dam through Horseshoe Bend

Study Components

- Compile a list of T&E species and critical habitats documented.
- Review literature of agreed upon species to gather habitat requirement data and describe historical range.
- Identify factors affecting the status of each species.
- Use GIS to map habitat information to determine possible areas in the geographic scope that T&E species may utilize.
- Summarize collected data of areas within the geographic scope that provide habitat requirements for T&E species.
- Determine if these areas are potentially impacted by Harris Project operations.
- Perform field surveys, as appropriate

T & E Species Study Schedule



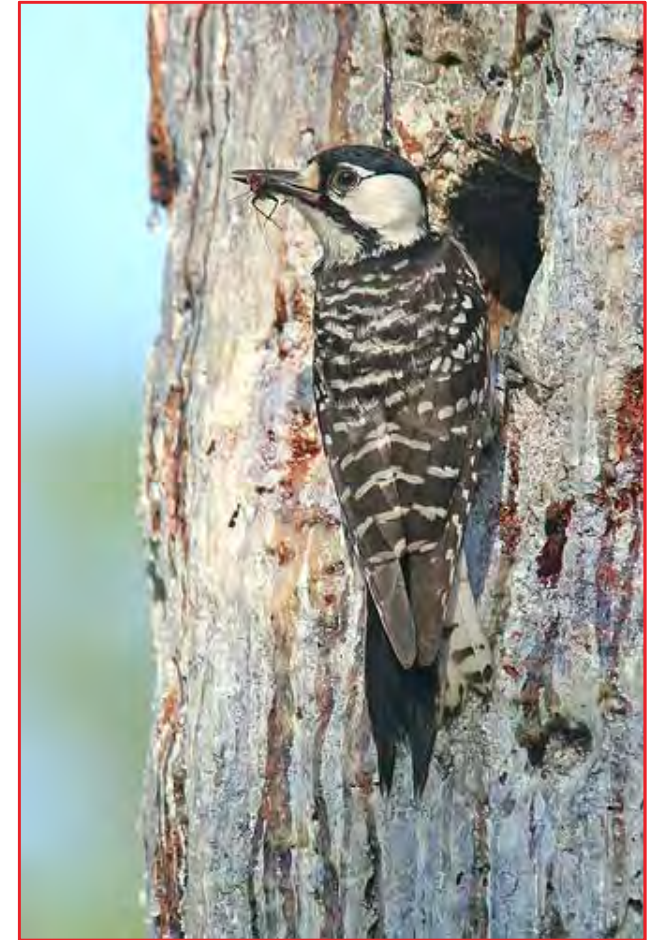
Task/Milestone	2019										2020												2021			
	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	
Develop GIS Overlays and Maps	█																									
Discuss GIS and need for field verification					█																					
Progress Update							█																			
Field Verification, if required							█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	
Draft T&E study report to HAT 3											█															
Initial Study Report													█	█												
Initial Study Report Meeting													█	█												
HAT 3 Meeting(s), as needed, Progress Update													█	█	█	█	█	█	█	█	█	█	█	█	█	
Final T&E study report to HAT 3																							█			
Updated Study Report																									█	
Updated Study Report Meeting																									█	

SCIENTIFIC NAME	COMMON NAME	FEDERAL STATUS	STATE PROTECTED	COUNTY(IES) OF OCCURRENCE	OCCURRENCE	DOCUMENTED HISTORIC RANGE IN AL
<i>Picoides borealis</i>	Red-Cockaded Woodpecker	E	Yes	Clay & Randolph		Statewide in appropriate habitat
<i>Notropis albizonatus</i>	Palezone Shiner	E	Yes	Jackson		Tennessee River system
<i>Erimonax monachus</i>	Spotfin Chub	T	Yes	Jackson		Tennessee River system
<i>Hamiota altilis</i>	Fine-lined Pocketbook mussel	T		Cleburne	Yes	Coosa, Tallapoosa, Cahaba River systems
<i>Lampsilis virescens</i>	Alabama Lampmussel	E		Jackson		Tennessee River system
<i>Villosa trabilis</i>	Cumberland Bean	E		Jackson		Tennessee River system
<i>Fusconaia cuneolus</i>	Finerayed Pigtoe	E		Jackson		Tennessee River system
<i>Toxolasma cylindrellus</i>	Pale Lilliput	E		Jackson		Tennessee River system
<i>Quadrula cylindrica</i>	Rabbitsfoot	T		Jackson		Tennessee River system
<i>Fusconaia cuneolus</i>	Shiny Pigtoe	E		Jackson		Tennessee River system
<i>Epioblasma triquetra</i>	Snuffbox	E		Jackson		Tennessee River system
<i>Pleurobema georgianum</i>	Southern Pigtoe	E		Clay		Coosa River system
<i>Pleuronaia dolabelloides</i>	Slabside Pearlymussel	E		Jackson		Tennessee River system
<i>Myotis sodalis</i>	Indiana Bat	E	Yes	Clay, Cleburne, Randolph, Chambers, Tallapoosa, & Jackson	Yes	Statewide in appropriate habitat
<i>Myotis septentrionalis</i>	Northern Long-eared Bat	T	Yes	Clay, Cleburne, Randolph, Chambers, Tallapoosa, & Jackson	Yes	Piedmont and Cumberland regions
<i>Myotis grisescens</i>	Gray Bat	E	Yes	Jackson	Yes	Statewide in appropriate habitat
<i>Amphianthus pusillus</i>	Little Amphianthus	T		Randolph, Chambers, & Tallapoosa	Yes	Piedmont region (Bridges 1988)
<i>Platanthera integrilabia</i>	White Fringeless Orchid	T		Clay, Cleburne, Jackson, Chambers, & Tallapoosa		Talladega National Forest
<i>Apios priceana</i>	Price's Potato-bean	T		Jackson	Yes	Statewide in appropriate habitat
<i>Clematis morefieldii</i>	Morefield's Leather Flower	E		Jackson		Northern regions of state (USFWS 2007)

Red-Cockaded Woodpecker



Federal Status	Endangered
Habitat	Open pine woodlands and savannas with large, old pines (preferably longleaf) and abundant native bunchgrass and groundcovers. Little or not mid or over-story hardwoods.
Potential Occurrence	Clay and Randolph counties



Palezone Shiner



Federal Status	Endangered
Habitat	Runs and pools of large creeks and small rivers with clean bedrock, cobble, gravel, and sand
Potential Occurrence	Jackson County
Known Populations	Paint Rock River



Spotfin Chub



Federal Status	Threatened
Habitat	Clear, large creeks and medium-sized rivers with moderate current over bedrock and gravel substrates
Potential Occurrence	Jackson County
Known Populations	Presumed extirpated in AL



Finelined Pocketbook



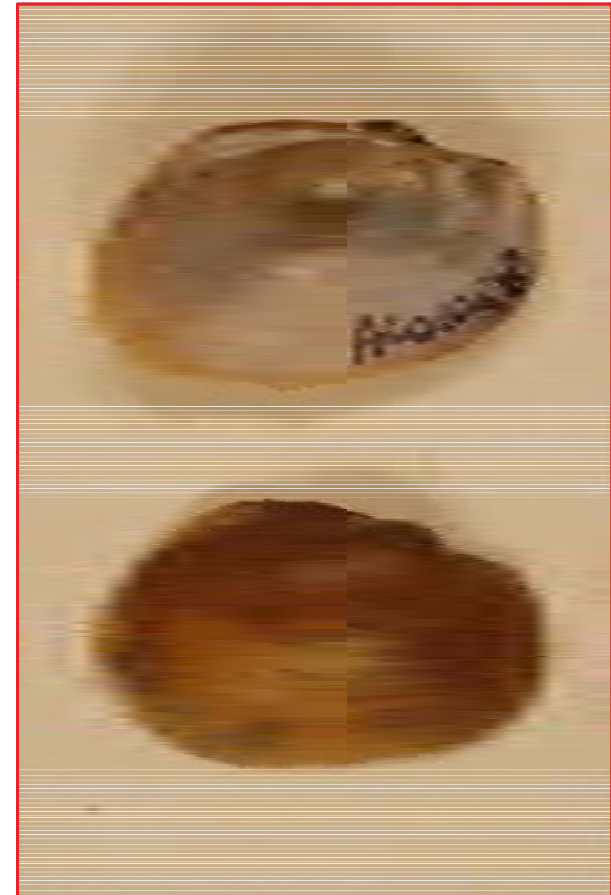
Federal Status	Threatened
Habitat	Small to large streams above Fall Line having stable sand, gravel, and cobble substrates and moderate to swift current
Potential Occurrence	Cleburne County
Known Populations	Little Cane Creek, Cane Creek and Muscadine Creek (Tallapoosa River tributaries upstream of Lake Harris in Cleburne County)
Critical Habitat	100-mile reach of Tallapoosa River extending upstream from US HWY 431



Alabama Lampmussel



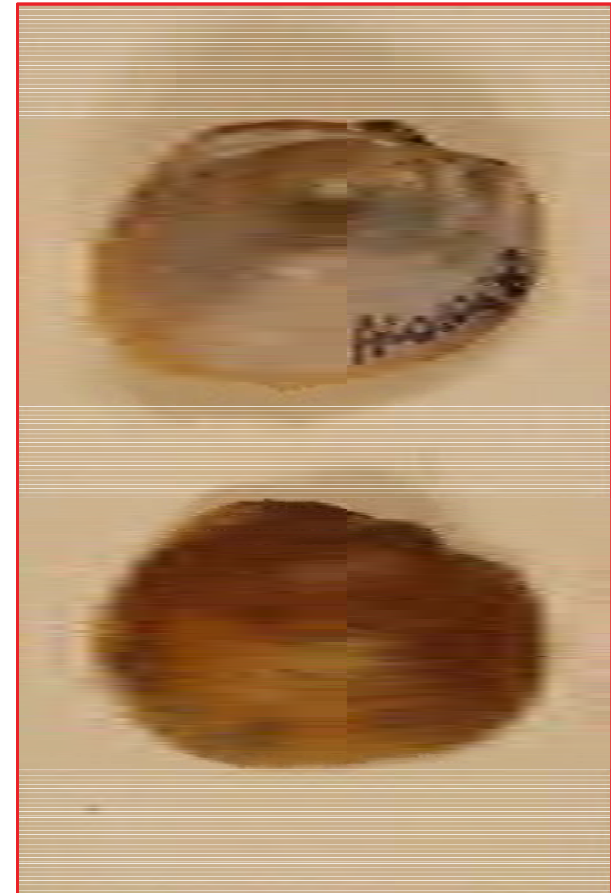
Federal Status	Endangered
Habitat	Shoals of small and medium rivers
Potential Occurrence	Jackson County
Known Populations	Paint Rock River



Cumberland Bean



Federal Status	Endangered
Habitat	Swift riffles of small rivers and streams with gravel/sand
Potential Occurrence	Jackson County
Known Populations	None reported in Alabama since impoundment of the Tennessee River



Finerayed pigtoe



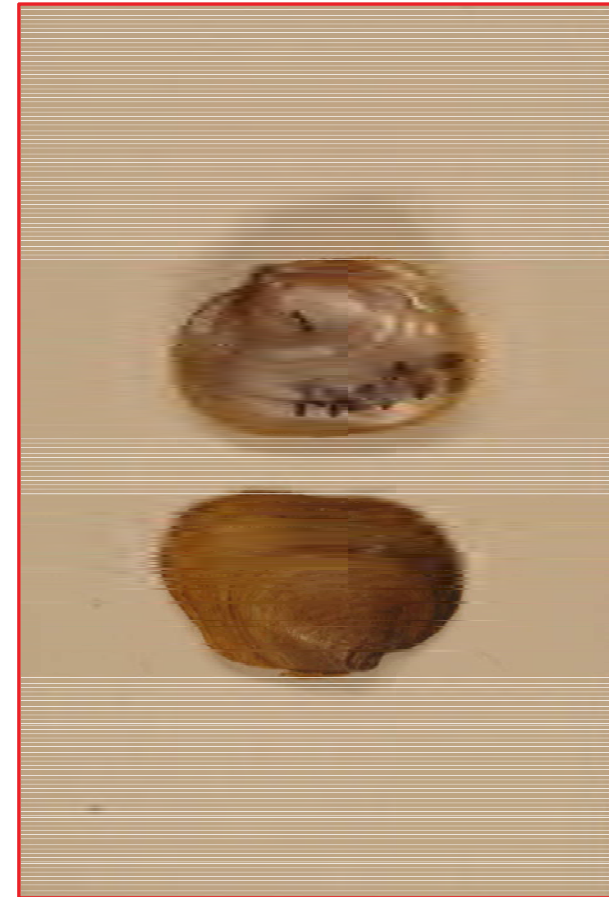
Federal Status	Endangered
Habitat	Shoals of medium to large rivers with sand to cobble substrates
Potential Occurrence	Jackson County
Known Populations	Paint Rock River



Pale lilliput



Federal Status	Endangered
Habitat	Large creeks and small rivers with moderate current over gravel
Potential Occurrence	Jackson County
Known Populations	Paint Rock River



Rabbitsfoot



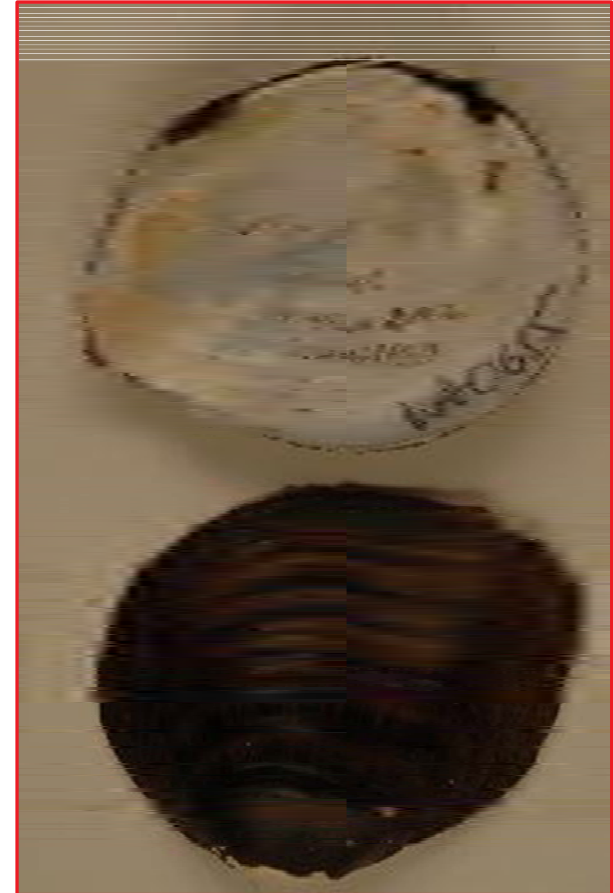
Federal Status	Threatened
Habitat	Creeks and small rivers along margins of riffles and runs; sometimes lotic reaches of large rivers
Potential Occurrence	Jackson County
Known Populations	Paint Rock River



Shiny pigtoe



Federal Status	Endangered
Habitat	Shoals and riffles of medium to large rivers
Potential Occurrence	Jackson County
Known Populations	Paint Rock River



Southern pigtoe



Federal Status	Endangered
Habitat	Sand/gravel/cobble shoals and runs in small rivers and large streams
Potential Occurrence	Cleburne County
Known Populations	Shoal Creek
Notes	Species is endemic to Coosa River basin; no records indicate it has ever occurred in the Tallapoosa River basin



Slabside pearly mussel



Federal Status	Endangered
Habitat	Large creeks and rivers in shallow riffles with sand, gravel, and cobble substrates and moderate current
Potential Occurrence	Jackson County
Known Populations	Larkin Fork, Estill Fork, Hurricane Creek, and Paint Rock River
Critical Habitat	Larkin Fork (7 mi), Estill Fork (8 mi), Hurricane Creek (10 mi), Paint Rock River (53 mi)



Indiana Bat



Federal Status	Endangered
Habitat	Hibernates in caves; maternal colonies roost in tree hollows and behind loose bark
Potential Occurrence	Jackson, Clay, Cleburne, Randolph, Chambers, and Tallapoosa counties



Northern Long-eared Bat



Federal Status	Threatened
Habitat	Hibernates in caves or cave-like structures; roosts in cavities, under bark, or in hollows of live or dead trees
Potential Occurrence	Jackson, Clay, Cleburne, Randolph, Chambers, and Tallapoosa counties



Gray Bat



Federal Status	Endangered
Habitat	Uses caves for both summer roosting and winter hibernation
Potential Occurrence	Jackson County



Little Amphianthus



Federal Status	Threatened
Habitat	Vernal pools on granite outcrops in the southeastern Piedmont
Potential Occurrence	Randolph, Chambers, and Tallapoosa counties
Know Populations	Randolph (two sites), Chambers (one site)



Last observed on
3/17/1995

White Fringeless Orchid



Federal Status	Threatened
Habitat	Wet, flat, or boggy areas with acidic muck or sand in partially shaded areas at the head of streams or seepage slopes
Potential Occurrence	Clay, Cleburne, Chambers, Tallapoosa, and Jackson counties
Known Populations	Talladega National Forest (Clay County)



Price's Potato-bean



Federal Status	Threatened
Habitat	Open bottom areas near or along the banks of streams and rivers, sometimes near the base of limestone bluffs
Potential Occurrence	Jackson County
Known Populations	Sauta Cave NWR, Little Coon Creek in Skyline WMA



Morefield's Leather Flower



Federal Status	Endangered
Habitat	Near seeps and springs in rocky limestone woods on south and southwest facing slopes of mountains
Potential Occurrence	Jackson County
Known Populations	Jackson County



APC Harris Relicensing

From: Anderegg, Angela Segars
Sent: Monday, September 30, 2019 2:45 PM
To: Ken Wills
Subject: RE: Comments on overall proposed Lake Harris Land Use Plan

Hi Ken,

Thank you for your feedback. We will incorporate your comments into our consultation record.

Thanks,

Angie Anderegg

Hydro Services
(205)257-2251
arsegars@southernco.com

From: Ken Wills <memontei@aol.com>
Sent: Thursday, September 26, 2019 10:47 PM
To: Anderegg, Angela Segars <ARSEGARS@southernco.com>; ken.wills@jcdh.org
Subject: Comments on overall proposed Lake Harris Land Use Plan

EXTERNAL MAIL: Caution Opening Links or Files

Hello Angie,

While I became involved in the FERC re-licensing process for Lake Harris as a representative of a coalition to protect the back country granite outcrops at Flat Rock, since I have been participating in the FERC meetings for the overall Lake Harris project, I would like to provide comments on that overall plan as an individual.

Overall, the proposed land use plan for Lake Harris Project is well planned from a conservation standpoint. The overall acreage proposed to be managed under the Natural Undeveloped and Hunting Lands classification will be increased from the previous land use land. Additional lands have been added that connect existing project conservation lands or fill in holes within conservation tracts. The proposed reclassifications to Natural Undeveloped in the back country at Flat Rock and around the Fox Creek Birding Trail will help ensure those habitats remain intact for various plants and animals including rare granite outcrop plant species.

However, I recommend the removal of some tracts from the Harris be reconsidered. Some tracts such as R2 and R3 make sense to remove from the project because they are very isolated from other company lands on the lake, but the wild/scenic and habitat values of other tracts should be reconsidered before they are removed from the project. While R1, R 4 and R6 do not touch other conservation tracts they are in close proximity to other significant blocks of project conservation lands and they help protect wild/scenic view sheds on large sections of sloughs around the lake. There is a value for visitors in seeing undeveloped scenery on both sides of a slough or section of the lake. As the lake becomes more developed over the years those remaining sections of the lake with wild/scenic view sheds will become more appreciated by visitors and residents alike. While those sections do not touch other conservation tracts they add to the overall block of contiguous habitat for more mobile species including birds and even some mammals and reptiles/amphibians that regularly swim between habitat blocks. Loss of those tracts to development would reduce the overall habitat for some species of birds and reptiles that need a larger matrix of habitat to survive such as the declining neotropical migrant birds. If access for other landowners across some of those tracts is an issue, it would seem potential

road corridors could be granted across those tracts without withdrawing the whole tracts from the project. I would encourage you all to consider the wild/scenic and habitat value of the above specified tracts before removing them from the project. All that being said, I realize Alabama Power/Southern Company is a multi faceted business with many factors to balance including overall profits, real estate development, and conservation/environmental protection, so I respect any decision you make on those tracts proposed to be withdrawn from the Harris Project.

Thanks for the opportunity to provide input on the overall plan,
Ken Wills
2253 Rockcreek Trail
Hoover, AL 35226