



Langdale and Riverview Dams FERC License Surrender and Decommissioning (FERC No. 2350 and 2341)

**Update for ACF Waters Conference
April 27, 2022**

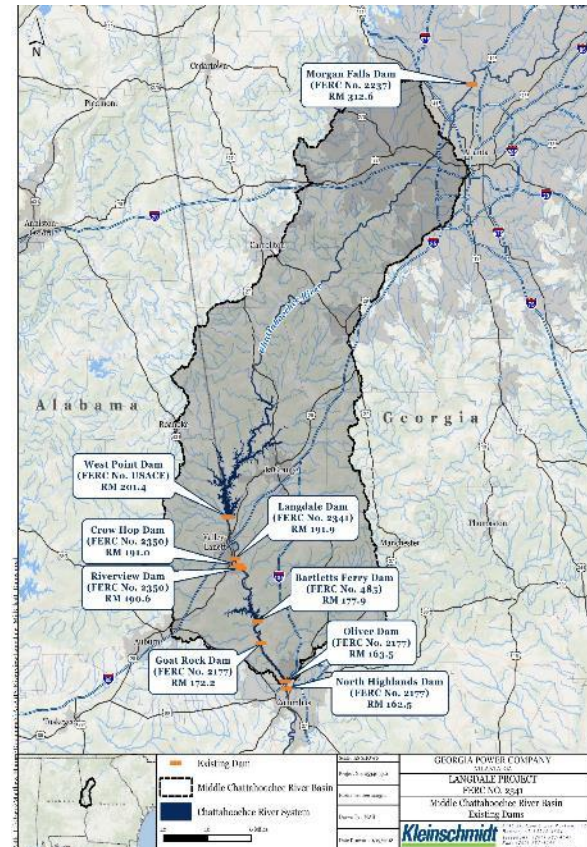
Courtenay O'Mara, P.E. and Patrick O'Rourke



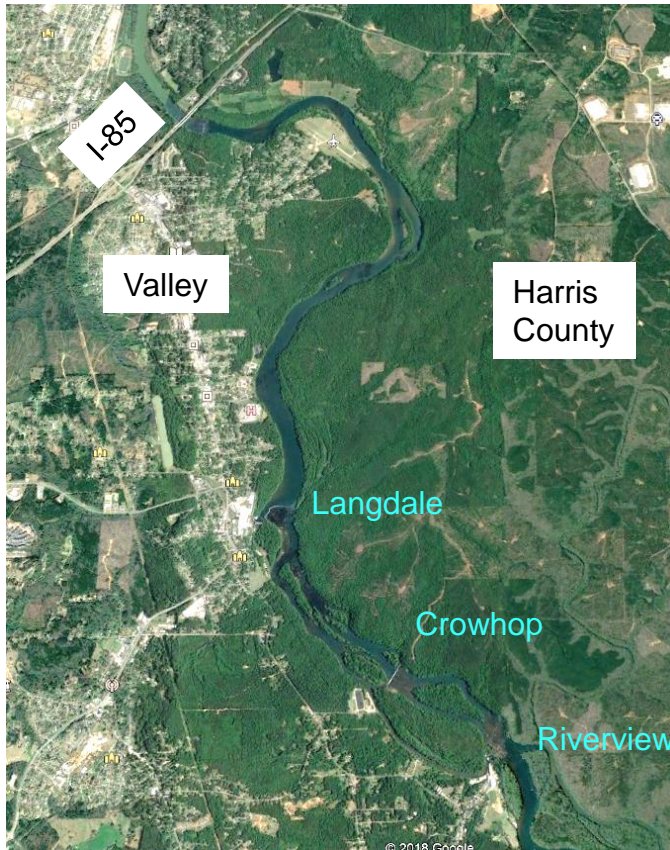


Proximity of Langdale and Riverview Projects in the Middle Chattahoochee Basin

- 9.5 miles from West Point Dam to Langdale Dam
- 1.5 miles from Langdale to Riverview
- 1 mile from Langdale to Crowhop
- Upper reaches of Lake Harding impounded to Crowhop Dam
- Bartletts Ferry Dam, Goat Rock Dam, Oliver Dam and North Highlands Dam between Riverview and City of Columbus, GA



Geographic Landmarks and Land Use



South of Interstate 85

South of West Point, Georgia and adjacent to City of Valley, Alabama in Chambers County, Alabama.

- Commercial/Industrial
- Residential

Adjacent to Harris County, Georgia

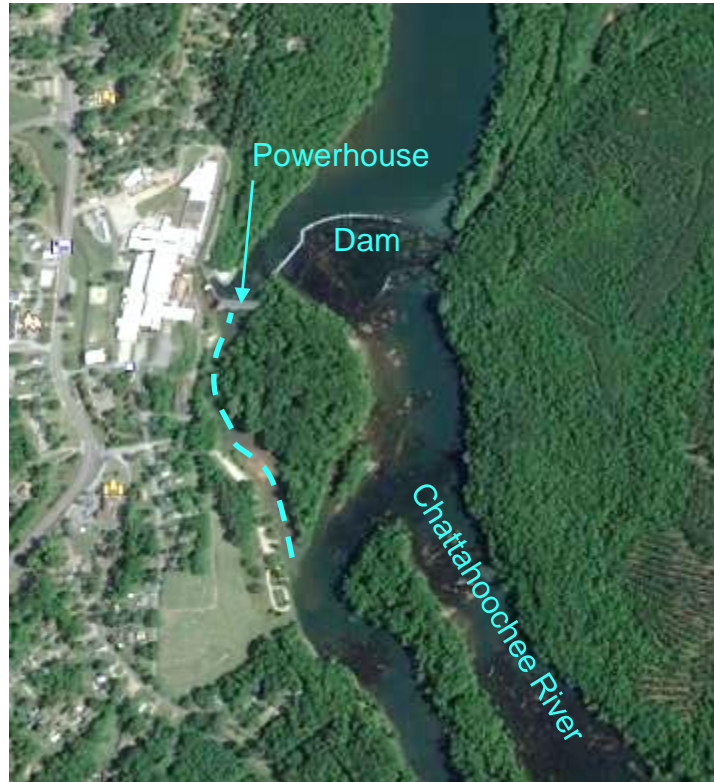
- Rural

Description of Langdale and Riverview Projects



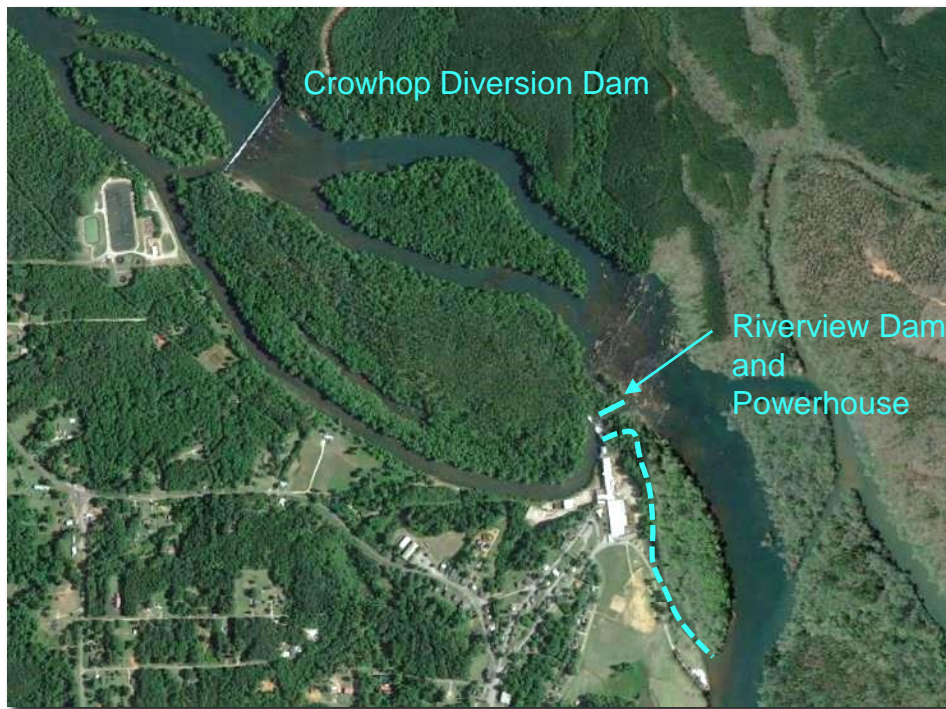
- Operating Mode: Run-of-River, flow regime dependent upon upstream Corps of Engineers' West Point Dam
- Dam Height: Range from 12 feet at Riverview and Crowhop to 15 feet at Langdale
- FERC Project Acreage:
 - Approximately 28 acres at Langdale
 - Approximately 11 acres at Riverview and Crowhop combined
- FERC Licenses Expire: December 31, 2023
- Application to Surrender Licenses Filed with FERC: December 18, 2018

Langdale Project Area



2018 Google Earth Imagery

Riverview Project Area



2018 Google Earth Imagery

Facilities and Generating Units



Langdale Powerhouse



Riverview Powerhouse



Langdale Dam



Crowhop Dam

Studies Completed or Ongoing



Field Studies

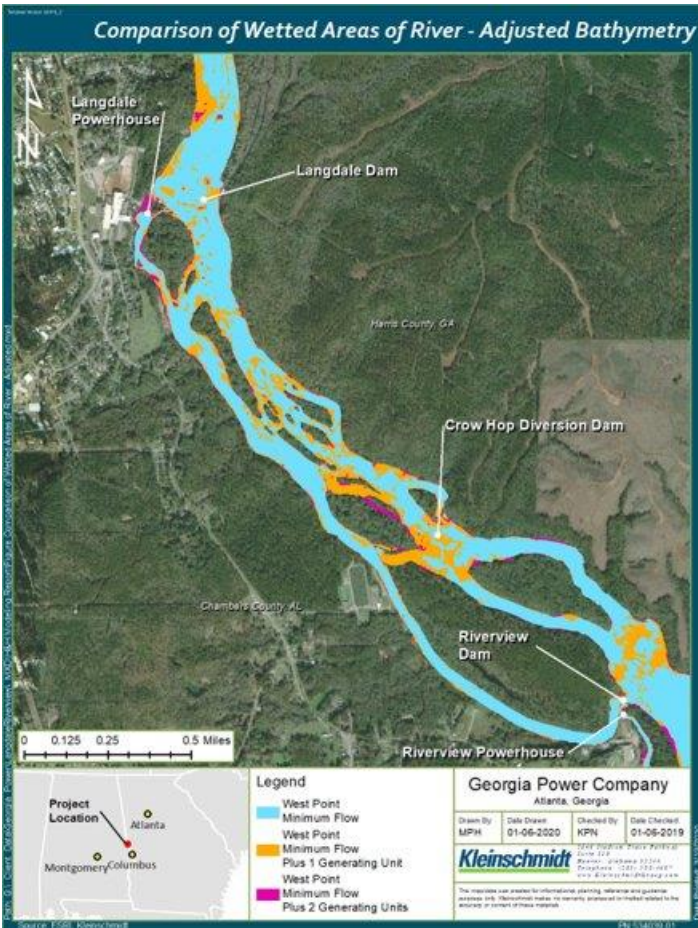
- H&H Model
- Cultural Resources
- Mussel Survey
- Sediment Quality - TBF
- Sediment Transport - TBF
- Shoal Bass Survey - TBF



Desktop Studies

- Water Quality
- Shoal Bass Life History

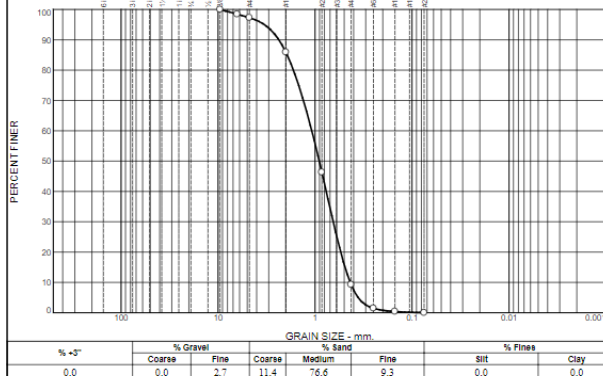




Sediment



Particle Size Distribution Report



SIEVE SIZE	PERCENT FINER	SPEC. PERCENT	PASS? (X=NO)	Material Description Atterberg Limits PL= LL= PI= Coefficients D ₅₀ = 2.3616 D ₈₅ = 1.9382 D ₉₀ = 1.0814 D ₆₀ = 0.9043 D ₇₅ = 0.6495 D ₁₀ = 0.4910 C _u = 2.40 C _c = 0.90 Classification USCS= SP AASHTO= Remarks
#3"	100.0			
#4"	98.5			
#4	97.3			
#10	85.9			
#20	46.3			
#40	9.3			
#60	1.5			
#100	0.4			
#200	0.0			

* (no specification provided)

Sample Number: Crow 2

Date: 9/3/19

GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

Client: Southern Company
Project: Langdale & Crownhop Dam
Project No: HP195750

Figure

Project: Southern Company Dams		Boring No: CROW-3											
Valley, AL		Project No: HP195750											
Location: See Figure 2		GS Elevation:											
Driller Equipment: Amdrill Vibrocore		Drilling Date: August 22, 2019											
Water Level: ---		Engineer/Geologist:											
Depth (ft)	Soil Symbol	Soil Description	Sample Type	Standard Penetration Test Data (blows/ft)					N Value				
		Water depth 2 feet.		0	10	20	30	40	50	60	70	80	
		ALLUVIUM tan-brown, silty, fine to coarse SAND (SP) Gradation sample taken (CROW 3)											
5		RESIDUUM gray, silty GRAVEL (GP), with sand Gradation sample taken (Crow 3, 4.5-8') This is sample with hydrometer											
		AUGER REFUSAL ENCOUNTERED AT 8.0ft											
10													
15													
		Boring and sampling performed in accordance with ASTM D 1586 Depths are measured from existing ground surface at time of drilling. Depths are shown to illustrate general arrangements of the strata encountered at the boring location. Do not use depths for determinations of quantities or distances.											
		NOTES:											

Mussel Surveys



Villosa vibex (southern rainbow)



Elliptio pullata (Gulf spike)

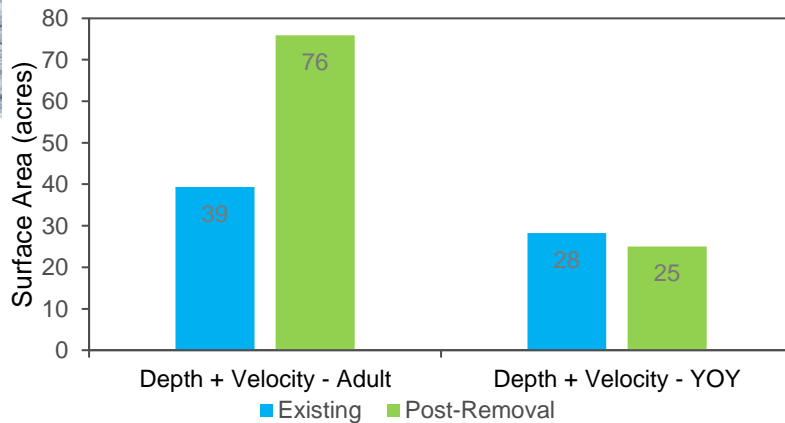


Corbicula fluminea
(Asian clam)

Shoal Bass



Areas with Optimal Depth and Velocity



FERC's Surrender Process and Schedule



Electronic Code of Federal Regulations

e-CFR data is current as of April 30, 2019

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Title 18: Conservation of Power and Water Resources

PART 5—INTEGRATED LICENSE APPLICATION PROCESS

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- 55.1 Applicability, definitions, and requirement to consult.
- 55.2 Document availability.
- 55.3 Process selection.
- 55.4 Acceleration of a license expiration date.
- 55.5 Notification of intent.
- 55.6 Pre-application document.
- 55.7 Tribal consultation.
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- 55.9 Comments and information or study requests.
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- 55.11 Potential Applicant's proposed study plan and study plan meetings.
- 55.12 Comments on proposed study plan.
- 55.13 Revised study plan and study plan determination.
- 55.14 Formal study dispute resolution process.
- 55.15 Conduct of studies.
- 55.16 Preliminary licensing proposal.
- 55.17 Filing of application.
- 55.18 Application content.
- 55.19 Tendering notice and schedule.
- 55.20 Deficient applications.
- 55.21 Additional information.
- 55.22 Notice of acceptance and ready for environmental analysis.
- 55.23 Response to notice.
- 55.24 Applications not requiring a draft NEPA document.
- 55.25 Applications requiring a draft NEPA document.
- 55.26 Section 10(j) process.
- 55.27 Amendment of application.
- 55.28 Competing applications.
- 55.29 Other provisions.
- 55.30 Critical energy infrastructure information.
- 55.31 Transition provision.

Timeline for surrender not known at the time of application.

Processed through FERC's Department of Hydro Compliance and Administration

Our proposal includes public input, studies, NEPA analysis and final FERC order



Electronic Code of Federal Regulations

e-CFR data is current as of April 30, 2019

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Title 18: Conservation of Power and Water Resources

PART 6—SURRENDER OR TERMINATION OF LICENSE

Contents

- 56.1 Application for surrender.
- 56.2 Surrender of license.
- 56.3 Termination of license.
- 56.4 Termination by implied surrender.
- 56.5 Annual charges.

Overall Langdale/Riverview Decommissioning Tasks:



Task	Estimated Date of Completion
File Surrender Application and Draft Outline for the Decommissioning Plan	December 2018
Conduct Decommissioning Studies	Winter 2019-May 2022
File Final Decommissioning Plan and Remaining Draft Studies	Early July 2022
Began Obtaining Corps permit	Begin July 2022
Implement FERC approved Dam Decommissioning Plan	Estimated Summer/Fall 2023