

WCUA Annual Stakeholder Workgroup Update

November 15, 2021

South Carolina Department of Health and Environmental Control Healthy People. Healthy Communities.



Option to Call In

If you are experiencing audio problems, join the virtual meeting by phone:

Or call in (audio only)

Conference phone number: <u>+1 864-558-7311</u>, United States, Greenville

AUDIO CONFERENCEING PIN: 147 336 483#



Exits the meeting. (If you accidentally exit the meeting, you can rejoin.)



Using MS Teams

Close all other applications running on your computer and turn off other streaming services or devices at your location.



Mute your mic to minimize background noise



Turn off your camera until your turn to speak



Opportunity for comments following presentation



Meeting Agenda

- Gathering Time
- Welcome & Overview of Virtual Meeting
- Permitting Update
- 2020 Reported Water Use Update
- Groundwater Conditions Update
- Statewide Water Update
- Q&A
- Adjourn



How to Participate

Unmute to indicate you would like to speak

Unmuted lines will be called on to speak

Click the Hand Raise icon to be called on to speak



Hand Raise (click this icon to indicate you would like to speak)



Muted (no one in the meeting can hear you)



Unmuted (everyone in the meeting can hear you)





Permitting Update

Courtney Kemmer



Current WCUA Permitting Numbers

-Designation November 2019

- 350 Permitted Facilities;
- 1,185 permitted wells
- 52 wells under construction

- 12 Registered Facilities; did not meet permitting threshold



County Breakdown Permits and Wells

County	# of Permits	# of Wells
Aiken	47	204
Allendale	21	70
Bamberg	37	92
Barnwell	36	93
Calhoun	60	196
Lexington	31	124
Orangeburg	118	406
Total	350	1,185



Type Use Breakdown Wells

Type Use	# of Wells	% of Total
Golf Course	10	0.84%
Industrial	67	5.65%
Irrigation	928	78.31%
Mining	11	0.93%
Power Thermal	7	0.59%
Water Supply	162	13.67%

Western Capacity Use Wells by Use Type





Total Permitted Use Per Year by Type

GC

IN

IR

MI

PT

WS

Type Use	MGY
GC	258.30
IN	3,358.52
IR	52,653.49
MI	1,058.49
PT	2,158.73
WS	11,463.91
TOTAL	70,951.44





Total Permitted Use Per Year by County

County	MGY
Aiken	12,223.77
Allendale	7,253.98
Bamberg	5,585.34
Barnwell	5,374.16
Calhoun	12,277.85
Lexington	7,249.10
Orangeburg	20,987.24
TOTAL	70,951.44





Western Capacity Use Wells by Use Type and Total Permitted Limit



Western Capacity Use Wells by Aquifer



Middle Floridan

0

- Crouch Branch-McQueen Branch 0

Crouch Branch-Bed Rock



2020 Groundwater Use Update

Courtney Kemmer



Western Total Reported Groundwater Use, 2010-2020





Reported Groundwater Use by Month, 2020





Reported Groundwater Use by County, 2020

Aiken

Allendale

Bamberg

Barnwell

Calhoun

Lexington

County	MGY
Aiken	8,103.40
Allendale	4,799.16
Bamberg	3,538.21
Barnwell	3,550.24
Calhoun	4,596.90
Lexington	4,280.44
Orangeburg	9,584.67
TOTAL	38,452.98

Reported Groundwater Use by County, 2020





Reported Groundwater Use by Type, 2020





Reported Groundwater Use by Type, 2020 (Agricultural Use Removed)





Reported Groundwater Use by Type, 2020

GC

IN

IR

MI

PT

WS

Type Use	MGY
GC	79.27
IN	2,075.34
IR	26,576.88
MI	495.72
PT	676.72
WS	8,548.67
TOTAL	38,452.98

Reported Groundwater Use by Type, 2020



Active Western Wells with 2020 Reported Use





2020 Surface Water Use Update

Courtney Kemmer



Western Total Reported Surface Water Use, 2010-2020, With and Without Power





Western Total Reported Surface Water Use, 2010-2020, With and Without Power





Reported Surface Water Use by Type, 2020





Reported Surface Water Use by Type, 2020, Without Power Use





Reported Surface Water Use by Month, 2020





Reported Surface Water by Month, 2020 (Without Power)





Reported Surface Water Use by County, 2020





Reported Surface Water Use by County, 2020, Without Power Use



Active Western Intakes with 2020 Reported Use





Groundwater Conditions Update

Andrea Hughes, PhD





ental Control



Modified from Gellici and Lautier, 2010



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240

224

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2016 Floridan/Gordon Potentiometric Surface

2018 Floridan Potentiometric Surface





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2016 McQueen Branch Potentiometric Surface 2019 McQueen Branch Potentiometric Surface





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Statewide Water Update

Leigh Anne Monroe



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USGS Model Update (In Development)





Figure B1. Location of the study area, major geological features, and the Atlantic Coastal Plain of North and South Carolina.



Surface Water Regulations

- Notice of Drafting in State Register August 27, 2021
- Workgroup Meetings In-Process
 - Meeting 1: September 23, 2021
 - Meeting 2: October 21, 2021
 - Meeting 3: December 9th, 2021
- Updates can be found at:
 - https://scdhec.gov/surface-water-stakeholder-workgroup



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State Water Planning

Edisto River Basin Council Meetings: http://hydrology.dnr.sc.gov/edisto-basin-planning.html Next meeting: November 17th, 2021 9am-2pm

Broad River Basin Council Meetings: <u>http://hydrology.dnr.sc.gov/broad-basin-planning.html</u> First two public meetings for Broad River Basin Council: November 8th and November 9th

Scott Harder: <u>harders@dnr.sc.gov</u>



Santee Lynches Capacity Use Area



- Approved by the DHEC Board July 15, 2021
- Groundwater Management Plan in development
 - Meeting #1 Oct. 6, 2021
 - Meeting #2 Nov. 3, 2021
 - Meeting #3 Dec. 1, 2021

https://scdhec.gov/BOW/groundwater -use-reporting/groundwatermanagement-planning/santeelynches-area-preliminary



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Questions, Comments and Discussion

Stay Connected











S.C. Department of Health and Environmental Control