Engaging Anglers and Managing Ponds with ArcGIS Hub and Operations Dashboard

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2021 ESRI USER CONFERENCE

Introduction

Cobb County PARKS

Cobb County PARKS



- Metro Atlanta
- Population (2019): 760, 141
- 90 Park Properties
- 6,000+ Acres



Cobb County, GA





Pond Management

Where we were... and where we are now

Pond Management – Where we were

- Paper-based maintenance reports
- Occasional restocking
- Electrofishing analyses for larger ponds
- PARKS Pond Goal: To create an efficient, data-driven maintenance resource for park ponds while engaging Cobb residents to participate in the conservation of a valuable natural resource.



Property: Thompson Park Service Technicians: Austin Service Date: May 5, 2021 Type of Visit: Contract Visit

General Lake/Pond Conditions

Water Level: Full Pool Water Clarity: 24" Aesthetic Appearance: Good Water Appearance: Dingy or Murky Weather Observations: Cloudy Temperature (*F): 65-69 Erosion/Sedimentation: present, recent changes observed Fish/Wildlife Observations: Geese -Current Activity Level of Manmade Trash/Litter Removed Low Primary Spillway: No Problems Emergency Spillway: No Problems Aquatic Vegetation Identified: n/a

Extent of Aquatic Vegetation: n/a Action Performed: No Treatment Necessary

Additional Services: n/a

Fountain Service: The fountain was serviced and was operating well at our departure

Comments: There is erosion along the dam. Some of the posts for the guard rail are exposed. See pictures.



Thank You

Visit us at www.aquascape.net for a comprehensive list of our services. Consulting • Restoration • Water Features • Stormwater • Fountains • Fisheries 605 Maudlin Drive, Suite B, Woodstock, GA 30188 • (678) 445-0077

Pond Maintenance Report

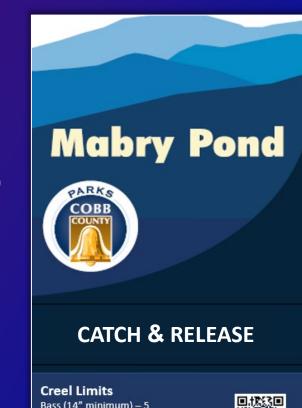
EBENEZER PARK POND Electrofishing

1.0.0

RUMRCRRFT

Pond Management – Where we are now

- New Pond Signage (QR code links to Hub Site)
- PARKS Pond Hub Site (Public Pond Informational Site)
- Fishing Survey
- Cartegraph-Ops Dashboard Integration



Bass (14" minimum) – 5 Catfish – 10 Bream/Bluegill – 20 Crappie - Unlimited



'Smart' Pond Signs

- Fishing status inserts
 - Catch & Keep
 - Catch & Release
 - Closed
- Creel Limits
- QR Code links to PARKS Ponds Hub Site

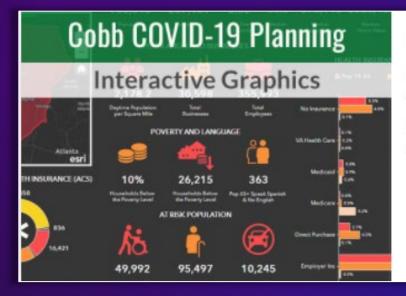


PARKS Pond ArcGIS Hub

Informational Resource for Cobb residents

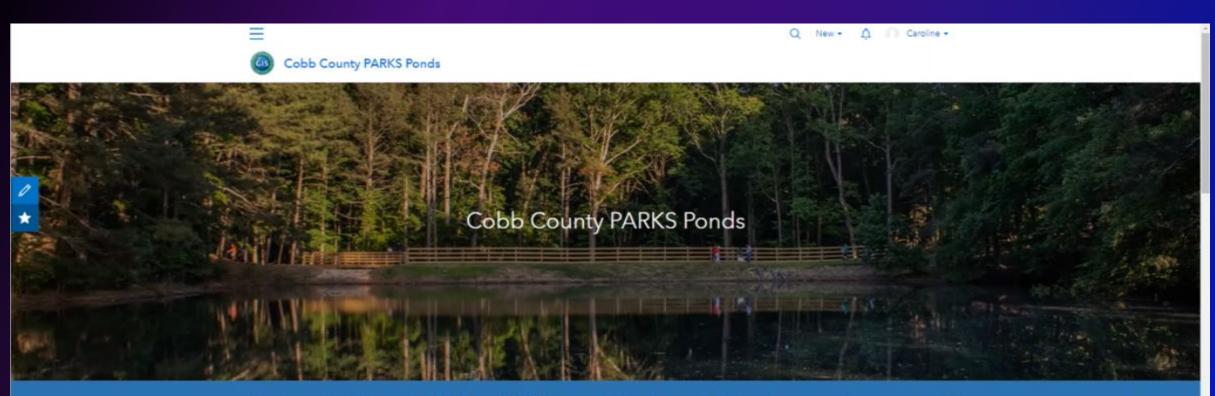
ArcGIS Hub

- Community engagement platform
- Aggregates spatial resources around a specific topic



COVID-19 Resource Hub

Our Focus: Providing Data and Resources. View information, statistics, local updates, and breaking news regarding COVID-19 in Cobb County.



Thank you for visiting the Cobb County PARKS Ponds website. Keep scrolling to find updates about current pond statuses, pond locations, the species of fish we stock, and more!

Current Pond Status

Cobb County manages and maintains 12 ponds within several of our park properties. Many of our ponds are fishable and open to the public. Occasionally, we must close ponds for maintenance and/or development. Check back for notices about future pond closures.

Click here to purchase a Georgia fishing license.

Georgia law requires anglers aged 16 and over to have a current Georgia fishing license in their possession while fishing in fresh or salt water in Georgia.

Catch and Keep

Catch and Release

Closed

Park: Ebenezer Downs Pond Status: Catch and Release	*				
1. Pond Status up ↓	odated in Carteg	raph OMS			
Feature Class Layer	Last Sync End 9/3/2020 12:38:15 AM			ArcGIS Hub	
2. Pond layer sync nightly	Reference.wkid	feature clas	S	Current Pond Status	
<pre>for row in rows: # Perform spatial query to get attr ptgeom = ('geometry': row.geometry' 'spatialRel': 'enriSpatia 'geometryType': 'esriGeom 'inSR': wkid sourcefeat = source.query(geometry_)</pre>	iFelIntersects', etryPoint',			eral of our park properties. Many of our ponds are fishable and o and/or development. Check back for notices about future pon Catch and Release	
<pre>try: # Only first feature is process source_val = sourcefeat.feature: row.attributes[settings['sarget except IndexTror:</pre>	<pre>s[0].attributes[settings['source']] ture found</pre>			te is update hing status	
3. Script copies St	tatus field from				

OMS Pond layer to Hub pond layer

Cobb County Parks Pond Fishing Survey

Answer the questions below to tell us about your recent visit to our ponds!

D

2 Marin

Date of Visit:

፼ m/d/yyyy

Time of Visit:

-Please Select-

Pond:

-Please Select-

Fishing Method:

Catch and Release

Number of adults in your party:

23

23

Number of children in your party (12 and under):

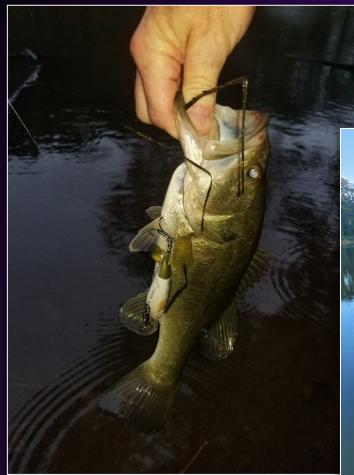
Fishing Survey (Survey123)

Cobb County Parks Pond Fishing Survey Answer the questions below to tell us about your recent visit to our ponds! Date of Visit: Date		
Date of Visit:		
E Date		
Time of Visit:		
		~
Pond:		
		~
Fishing Method:		
Catch and Release		
Catch and Keep		
Number of adults in your party:		
Number of children in your party (12 and under):		
\bigtriangledown Type of Fish Caught		
V type of this caught		
sitten alle		
(B) W. Terran and the second second		
Bass		
How many?		
	_	1

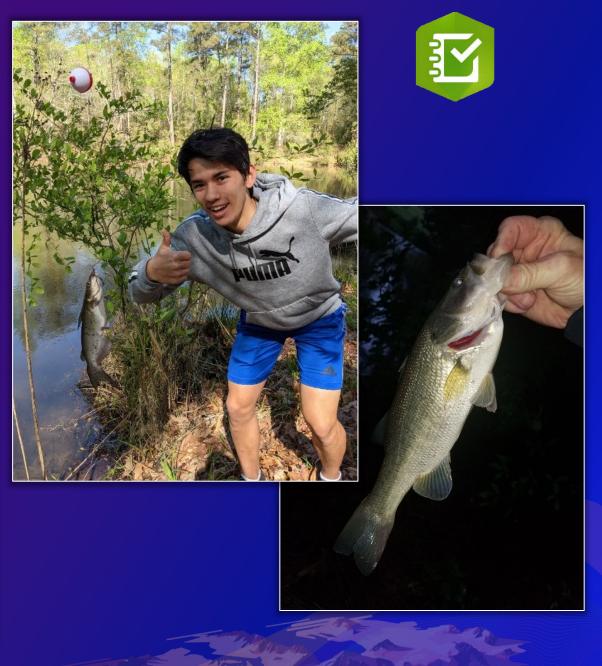
Ebenezer Downs Park - Nov 8, 2020 1. Clear more brushes/bushes so there are even more areas to bank fish. 2. Place a trash bin closer to dock so anglers are more inclined to dispose of fishing lines, lures, etc. instead of leaving them on dock or worse yet, into the water.

Lost Mountain Park - Sep 1, 2020 This pond badly needs restocking. Otherwise, I enjoy fishing here very much and appreciate how well maintained the grounds are at Lost Mountain Park. It would be nice to have some new benches at the pond, please. Thank you.

Fishing Survey (Survey123)



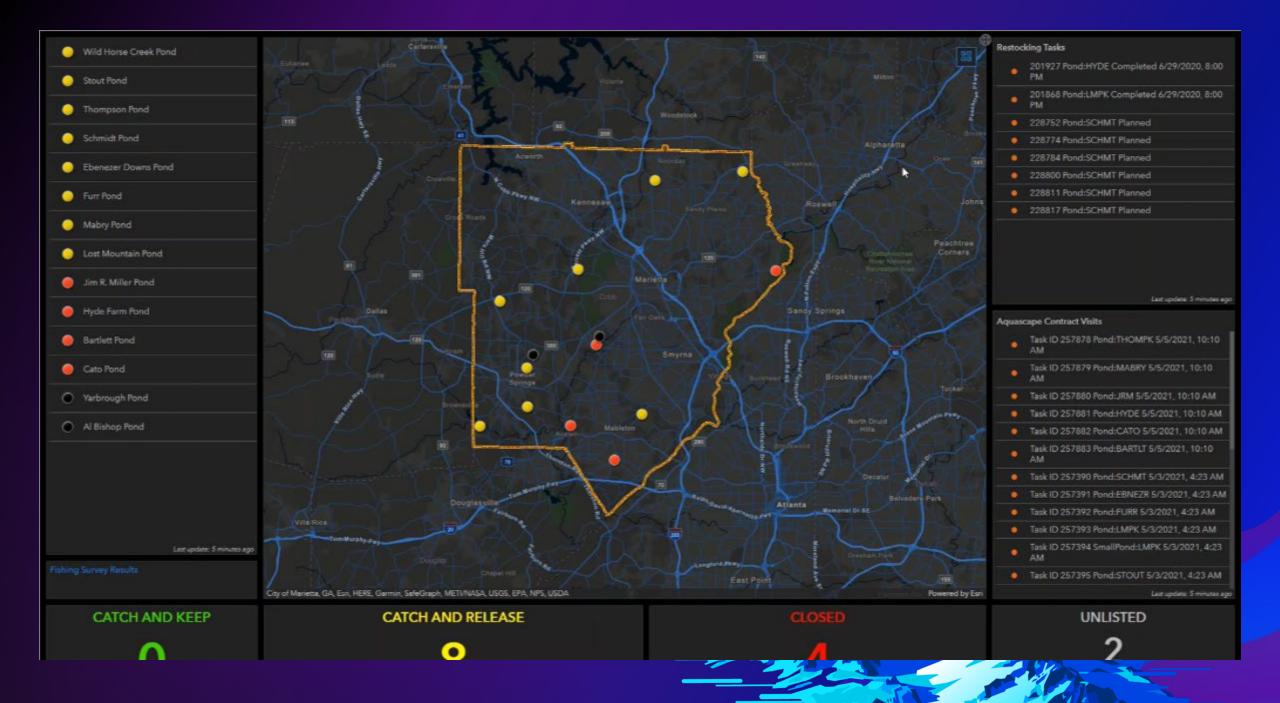


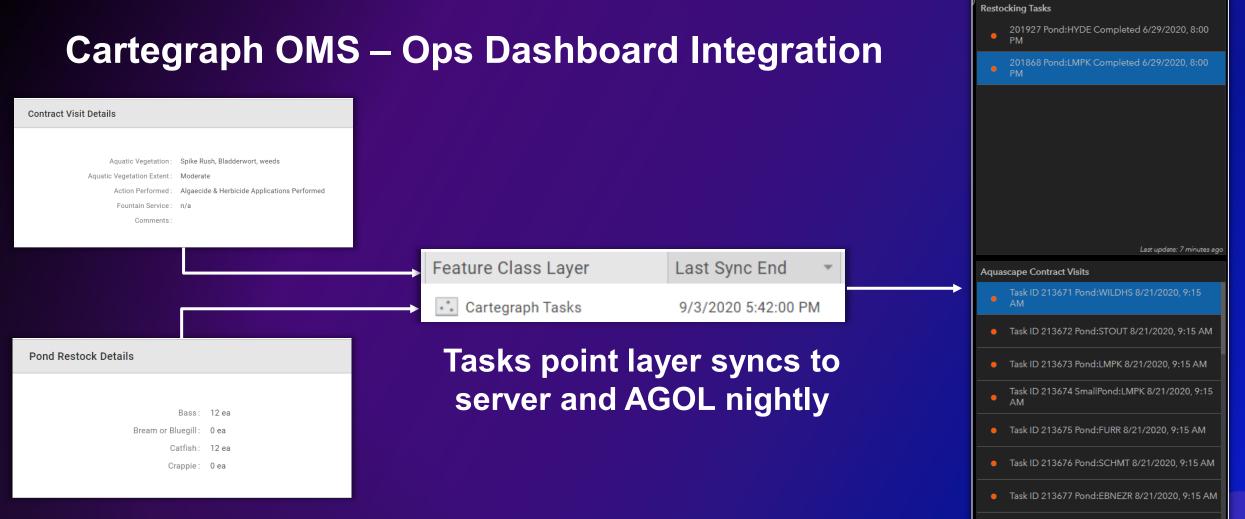


Operations Dashboard

Internal Resource for Pond Management







Task-Based layouts in OMS CG Fields connected to GIS Fields

Updates Operations Dashboard

Last update: 7 minutes ago

Summary

 PARKS Pond Goal: To create an efficient, data-driven maintenance resource for park ponds while engaging Cobb residents to participate in the conservation of a valuable natural resource.

- New Pond Signage
 - Links to informational PARKS Pond Hub Site
- ArcGIS Hub Site (Public Use)
 - Reaching residents in a novel way
- ArcGIS Operations Dashboard (Internal Use)
 - Enables PARKS to make data-driven decisions quickly



Thank you!

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