

Building or Renovating a Pond in Georgia

A Pond Guide for Citizens

Introduction

This guide is for landowners who want to build a new pond or to renovate an existing pond. Part One provides a basic explanation of the steps needed during the planning and designing process. There are Federal, State, and local government agencies that can assist and help with the requirements. Part Two provides information, links, and explanations about why it is important to use this guide when constructing a pond in Georgia.



This document was prepared in cooperation with the United States Army Corps of Engineers (USACE), the United States Department of Agriculture, Natural Resources Conservation Service (NRCS), and the Georgia Department of Natural Resources, Environmental Protection Division (EPD). Revised April 2017.

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PART ONE

Ponds used for agricultural purposes (i.e., **Farm Ponds**) may qualify for certain exemptions. Farmers produce food for our nation and are given special exemptions if the pond water is used for food production (e.g., irrigating crops or watering livestock). A pond for aesthetic or recreational uses, such as for a subdivision or a fishing pond, or for an **aquaculture operation**, would be considered a **Recreational Pond** for the purposes of this guidance.

Existing Operation Farm Ponds

The United States Department of Agriculture, Natural Resources Conservation Service (NRCS) and the United States Army Corps of Engineers (USACE) have executed a Field Level Agreement (FLA) to clarify what ponds are exempt from obtaining a Clean Water Act Section 404 permit from the USACE for impacts to waters of the United States (including wetlands). This exemption is only applicable to Farm Ponds used for agricultural purposes when specific criteria are met.

Farm Ponds used for agricultural purposes may be exempt from USACE permitting if the Farm Ponds meet the requirements described in the “**Georgia Farm Pond Exemption Guide**.” This guide describes when a pond in Georgia would be exempt from the USACE permitting requirements. Activities exempt from the USACE permitting requirements do not require compensatory mitigation. The “Georgia Farm Pond Exemption Guide” is available on the NRCS website (Appendix A).

There are two types of Farm Ponds that may qualify for this exemption - ponds used for **existing** agricultural operations and ponds used for **proposed** agricultural operations. As per the FLA, the NRCS submits an annual log to the USACE of **Farm Pond Exemptions** approved for **Existing Operation Farm Ponds** (under 10 acres in pool area) as per the “Georgia Farm Pond Exemption Guide.”

Proposed Operation Farm Ponds must be reviewed by the USACE to determine if the Farm Pond Exemption is applicable. The USACE will provide a written concurrence or denial of the Farm Pond Exemption. If the USACE determines that the proposed pond is not a Proposed Operation Farm Pond, it is considered to be a Recreational Pond and the USACE permitting requirements would be applicable.

■ **Natural Resource Conservation Service (NRCS)**

The NRCS is a non-regulatory agency that provides technical assistance to farmers who want to construct a Farm Pond.

The NRCS is available to help farmers with planning and designing Farm Ponds. To determine if a pond qualifies for a Farm Pond Exemption, the NRCS will require that the following three documents be completed:

- Farm Pond Exemption Information Paper,
- Water Budget, and
- Site Map with Pond GPS Coordinates.

The **Farm Pond Exemption Information Paper (GA-ENG-378-EX1)** is available on the NRCS website (Appendix A) and must be completed and signed by both the farmer and the NRCS representative. The Farm Pond Exemption Information Paper requires basic information about the type of farming, your agricultural water needs and the pond size. On the bottom of this form, you will be asked to sign a statement agreeing that if the pond is converted to non-agricultural uses in the future, that you may be required to obtain a permit (which may include compensatory mitigation) from the USACE or that you may be required to restore the site to its original condition. In addition, you will be asked to sign the statements, “I understand that this exemption does **NOT** free me from obtaining any other federal, state or local permits for construction of the proposed pond.” and “A pond exempt from the need for a Department of the Army permit is not exempt from the Georgia Erosion and Sedimentation Act of 1975, as amended, or other State regulations.”

The **Water Budget** is a calculation of the baseline of water quantity required to sustain normal livestock or irrigation operations. To be eligible for the Farm Pond Exemption, a Water Budget must be developed and/or approved by the NRCS. The Water Budget must define the pond storage requirements in acre-feet at normal pool. The pond size shall not exceed the Water Budget calculation. For most operations in Georgia, Farm Pond Exemptions for livestock drinking water are difficult to defend. The pond size for livestock drinking water would likely be very small; therefore, the NRCS recommends a well or an alternative watering facility for livestock drinking water needs. While there is not a single approved form or worksheet for calculating the Water Budget, the “Georgia Farm Pond Exemption Guide” contains examples of water budget calculations. The “Georgia Farm Pond Exemption Guide” is available on the NRCS website (Appendix A). The NRCS and the USACE use the “Georgia Farm Pond Exemption Guide” when planning and designing Farm Ponds.

You will need to provide a **Site Map with Pond GPS Coordinates**. Map sources include the USGS topographic, county and DOT maps or other map sources as appropriate. The NRCS can provide maps and assist landowners with recording the pond GPS coordinates.

NOTE: Landowners should retain copies of all of the above documents to demonstrate compliance with the Farm Pond Exemption.

■ United States Army Corps of Engineers (USACE)

The USACE Regulatory Division is a Federal agency that regulates impacts to Waters of the United States (including wetlands), issues permits and enforces the Clean Water Act (CWA). Ponds may require authorization from the USACE if the land disturbing activities impact Waters of the United States, including jurisdictional wetlands and streams.

Waters of the United States includes essentially all surface waters such as all navigable waters and their tributaries, all interstate waters and their tributaries, all wetlands adjacent to these waters, and all impoundments of these waters. Wetlands are areas characterized by growth of wetland vegetation (e.g., bulrush, cattails, rushes, sedges, willows, pickleweed) where the soil is saturated during a portion of the growing season or the surface is flooded during some part of most years. Wetlands generally include swamps, marshes, bogs, and similar areas. The USACE is responsible for **jurisdictional determinations** and **wetland delineations**. Landowners may also use a qualified environmental consultant to determine the presence and boundaries of any Waters of the United States and to obtain any necessary authorizations from the USACE.

NOTE: Ponds not classified as Waters of the United States may still be classified as State Waters with all the applicable State and local permitting and buffer requirements.

Additional information about permitting, compensatory mitigation and jurisdictional determinations is available on the USACE website, <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx>. All ponds that impact Waters of the United States that do **not** qualify for a Farm Pond Exemption, must be permitted by the USACE as a Recreational Pond.

■ Environmental Protection Division (EPD)

The Georgia Department of Natural Resources, Environmental Protection Division (EPD) enforces State laws, rules and regulations, and policies to protect and restore Georgia's environment. The EPD is charged with the regulatory duties associated with the Georgia Erosion and Sedimentation Act, O.C.G.A. 12-7-1, et seq (GESA). The GESA establishes the rules and regulations for minimizing soil erosion and preventing sediment deposition onto lands and into waters of the State and the Georgia Water Quality Control Act sets forth a **NPDES General Permit for Storm Water Discharges Associated with Construction Activity**.

If you are constructing a pond for agricultural purposes with a Farm Pond Exemption, you are **exempt** from the NPDES General Permit and the State buffer requirements. In addition, the construction of a pond for **aquaculture operations** as defined in GESA (O.C.G.A. 12-7-17(5)), is **exempt** from the NPDES General Permit and the State buffer requirements.

You may **not** construct an Existing Operation Farm Pond on Primary Trout Waters **except** on streams with drainage basins (i.e., watersheds) less than 50 acres upstream of the

impoundment. Existing Operation Farm Ponds on Primary Trout Waters on streams with drainage basins less than 50 acres and all Existing Operation Farm Ponds on Secondary Trout Waters must be approved by EPD.

The EPD also implements the **Safe Dams Program** and the **Water Withdrawal Permitting Program** (Appendix A). The EPD Safe Dams Program inventories all existing and proposed dams over 25 feet tall or with a 100 acre-feet of storage at the top of the dam. Water withdrawals of significant volume (i.e., over 100,000 gallons per day), either from surface waters or from groundwater sources, require an **Agricultural Water Withdrawal Permit** from the EPD.

NOTE: In all instances, regardless of exemptions, you must provide adequate erosion control measures (i.e., Best Management Practices) to protect Georgia's soils and waters.

■ **Local Issuing Authority (LIA)**

A Local Issuing Authority (LIA) is the governing authority of any county or municipality, which is certified pursuant to the Georgia Erosion and Sedimentation Act (O.C.G.A. 12-7-8). Certified Local Issuing Authorities have enacted local Soil Erosion and Sedimentation Control Ordinances which meet or exceed the standards, requirements and provisions of GESA and the NPDES General Permit. A local Soil Erosion and Sedimentation Control Ordinance may also incorporate more stringent buffer requirements or other related ordinances (e.g., Storm Water Management, Stream Buffer Protection, Tree Protection) that may impact your pond.

If you are constructing a pond for agricultural purposes with a Farm Pond Exemption, you are **exempt** from local Land Disturbing Activity (LDA) permitting and buffer requirements. In addition, the construction of a pond for **aquaculture operations** as defined in GESA (O.C.G.A. 12-7-17(5)), is **exempt** from local LDA permitting and buffer requirements.

Contact your local government or the EPD to determine if your pond is located in an area with a certified Local Issuing Authority (Appendix A).

Proposed Operation Farm Ponds

If a landowner is seeking a Farm Pond Exemption but is **not** currently irrigating agricultural crops or using water to produce livestock, then the landowner would be constructing a **Proposed Operation Farm Pond**.

■ **Natural Resources Conservation Service (NRCS)**

The NRCS is available to assist farmers with determining the **Water Budget** and preparing a **Site Map and Pond GPS Coordinates**. The NRCS will sign the completed **Farm Pond Exemption Information Paper (GA-ENG-378-EX1)** for a Proposed Operations Farm Pond when they assist with the supporting data; however, the landowner will need to send the completed package to the USACE for evaluation and possible exemption of the USACE permitting regulations.

■ **United States Army Corps of Engineers (USACE)**

The USACE will evaluate the information provided by the landowner and the NRCS to determine if a Farm Pond Exemption is appropriate. Supporting evidence and documentation of an agricultural operation could include the USDA Highly Erodible Land Conservation and Wetland Conservation Certification forms (AD-1026 and AD-1026 Appendix).

After the appropriate paper work has been submitted to the USACE, the landowner will receive a letter from the USACE stating whether or not the Proposed Operation Farm Pond is exempted from the Section 404 permitting requirements. If the USACE determines that a CWA Section 404 permit will not be required, the landowner will receive a letter, restating the agricultural intent, reminding the landowner that if any revisions to the project or its intended use are made, the exempt status may be invalidated. You should **not** begin clearing or construction until you have received an approval letter from the USACE. Landowners should retain copies of all of the above documents to demonstrate compliance with the Farm Pond Exemption.

NOTE: All ponds that impact Waters of the United States that do not qualify for a Farm Pond Exemption, must be permitted by the USACE as a Recreational Pond. If it has been determined that your pond has been converted to non-agricultural use at any point, you may be required to comply with all permitting requirements (including compensatory mitigation), may be subject to penalties or may be required to restore the site to its original condition.

■ **Environmental Protection Division (EPD)**

If you are constructing a pond for agricultural purposes with a Farm Pond Exemption, you are **exempt** from the NPDES General Permit and the State buffer requirements. In addition, the construction of a pond for **aquaculture operations** as defined in GESA (O.C.G.A. 12-7-17(5)), is **exempt** from the NPDES General Permit and the State buffer requirements.

You may **not** construct a Proposed Operation Farm Pond on Primary Trout Waters **except** on streams with drainage basins (i.e., watersheds) less than 50 acres upstream of the impoundment. Proposed Operation Farm Ponds on Primary Trout Waters on streams with drainage basins less than 50 acres and all Proposed Operation Farm Ponds on Secondary Trout Waters must be approved by EPD.

The EPD also implements the **Safe Dams Program** and the **Water Withdrawal Permitting Program** (Appendix A). The EPD Safe Dams Program inventories all existing and proposed dams over 25 feet tall or with a 100 acre-feet of storage at the top of the dam. Water withdrawals of significant volume (i.e., over 100,000 gallons per day), either from surface waters or from groundwater sources, require an **Agricultural Water Withdrawal Permit** from the EPD.

■ **Local Issuing Authority (LIA)**

If you are constructing a pond for agricultural purposes with a Farm Pond Exemption, you are **exempt** from local Land Disturbing Activity (LDA) permitting and buffer requirements. In addition, the construction of a pond for **aquaculture operations** as defined in GESA (O.C.G.A. 12-7-17(5)), is **exempt** from local LDA permitting and buffer requirements.

Recreational Ponds

■ **United States Army Corps of Engineers (USACE)**

Recreational Ponds must be permitted by the USACE if jurisdictional wetlands or streams will be impacted. The landowner would need to retain a qualified environmental consultant to permit a Recreational Pond and to develop a Compensatory Mitigation Plan (if applicable).

Regional Permits: A **private single-family, non-commercial recreational pond**, less than 5 acres in size in non-tidal waters and impacting less than two acres of jurisdictional wetlands and/or 500 linear feet of jurisdictional streams may be eligible for authorization under Regional Permit (RP) 90. A copy of RP 90 is available on the USACE website, www.sas.usace.army.mil/Portals/61/docs/regulatory/RP90.pdf.

Nationwide Permits: Ponds for **residential, commercial** or other purposes that impact less than 0.5 acres of wetlands and/or 300 linear feet of streams may qualify for authorization under any one of a number of Nationwide Permits (NWP) such as NWP 29 or 39.

Individual Permits: A pond that is **not** eligible for a Regional Permit or a Nationwide Permit may require authorization through an Individual Permit. The Individual Permit process requires an **alternatives analysis** documenting that the preferred alternative is the least environmentally damaging and most practicable alternative that meets the applicant's purpose and need. An Individual Permit should be submitted to the USACE as early as possible to ensure that that you have all of the required approvals prior to your planned starting date.

Compensatory Mitigation: If impacts to and/or losses of exceed 0.1 acres of wetlands or 100 linear feet of streams, compensatory mitigation is required for all impacts and losses. Mitigation can be accomplished by (1) purchasing mitigation credits from an approved

commercial mitigation bank located within the same 8-digit Hydraulic Unit Code (HUC) as the pond; (2) participating in an in-lieu-fee mitigation program; or (3) developing a site-specific mitigation plan to create, restore, enhance or preserve wetlands and/or streams on or near the project site.

Documented base-line impairment data, Restrictive Covenant protection measures, and multi-year monitoring and contingency plans must be included in site-specific mitigation plans. Often, it is not practicable for landowners to develop site-specific mitigation plans. Therefore, it is preferred that landowners use an approved **commercial mitigation bank** or **in-lieu-fee banking** to compensate for all wetlands/streams impacts. The landowner may also use a qualified environmental consultant to develop an acceptable **Compensatory Mitigation Plan**. Mitigation is often the most expensive part of the USACE permitting requirements.

■ **Environmental Protection Division (EPD)**

Coverage under the **NPDES General Permit for Storm Water Discharges Associated with Construction Activity** is required for the construction of Recreational Ponds that result in land disturbances equal to or greater than one acre. For coverage under the NPDES General Permit, the following documents are required:

- Notice of Intent
- Erosion, Sedimentation and Pollution Control Plan

Notice of Intent (NOI)

The **Notice of Intent (NOI)** forms are available on the EPD website, <http://epd.georgia.gov/storm-water-forms>. Any person that needs coverage under the NPDES General Permit must submit a NOI to the appropriate EPD District Office at least 14 days prior to commencement of construction activities. In addition, a copy of the NOI must be submitted to the Local Issuing Authority in an area with a certified LIA. In an area with no certified Local Issuing Authority, a fee of \$80 per acres disturbed must be paid to EPD. In an area with a certified LIA, a fee of \$40 per acres disturbed must be paid to EPD and a fee of \$40 per acres disturbed must be paid to the LIA. The NPDES General Permit fees are in addition to any local Land Disturbing Activity (LDA) permit fees required by the Local Issuing Authority.

The **NPDES General Permit No. GAR100001** is applicable if the construction of a Recreational Pond is a **Stand Alone Construction Project**. However, if the Recreational Pond is located within a **Common Development** (e.g., subdivision), then the **NPDES General Permit No. GAR100003** may be applicable. Copies of the NPDES General Permits are available on the EPD website, <http://epd.georgia.gov/npdes-construction-storm-water-general-permits>.

Erosion, Sedimentation and Pollution Control Plan (Plan)

The Plan must be prepared by certified Design Professional (Level II) - as defined in the NPDES General Permit. The Plan must include, as a minimum, best management practices to prevent and minimize soil erosion and sedimentation and each Plan must include the applicable Erosion, Sedimentation and Pollution Control Plan Checklist (Appendix A). The Plan should clearly describe each major activity and the appropriate control measures and timing during the construction process.

In an area with a certified LIA, multiple copies of the Plan (as specified by the LIA) must be submitted to the LIA for review and approval or disapproval. In an area with no certified LIA regulating the construction of a Recreational Pond, a single copy of the Plan must be submitted to the EPD Watershed Protection Branch in Atlanta for review and a second copy of the Plan must be submitted to the appropriate EPD District Office prior to or concurrent to the NOI submittal. For Recreational Ponds with areas of land disturbances equal to or greater than 50 acres, regardless of the existence of a certified LIA in the area, a single copy of the Plan must be submitted to the appropriate EPD District Office.

Buffer Variance Application

In addition to the NPDES General Permit requirements, land disturbing activities conducted within the State buffer - **regardless of the acreage disturbed** - may require a **Buffer Variance**. The GESA establishes a 25-ft buffer along the banks of all perennial and intermittent State Waters classified as **warm water streams**, and a 50-ft buffer along the banks of all perennial, intermittent and ephemeral State waters classified as **trout streams**, as measured horizontally on each side from where vegetation has been “wrested” by normal stream flow or wave action, and a 25-ft buffer along coastal marshlands as measured from the Jurisdictional Determination (JD) line. A Buffer or Buffer Zone is the area of land immediately adjacent to the banks of State Waters in its natural state of vegetation, which facilitates, when properly vegetated, the protection of water quality and aquatic habitat.

In areas with a certified LIA, State Waters determinations are made by the Local Issuing Authority. In areas where there is not a certified LIA, the EPD will confirm State Water determinations and buffer delineations. The “**Field Guide for Determining the Presence of State Waters That Require a Buffer**” is available on the EPD website, <http://epd.georgia.gov/erosion-and-sedimentation>.

A Buffer must remain in its natural, undisturbed state of vegetation, unless the land disturbing activity is specifically exempt or a Buffer Variance has been approved by the EPD. Therefore, if a Recreational Pond will be constructed in State Waters that require a buffer, you must submit a **Buffer Variance Application** to the EPD Watershed Protection Branch for review and approval or disapproval (<http://epd.georgia.gov/erosion-and-sedimentation-forms>). Please note that a 30 day public advisory is required for the Buffer Variance Application review.

You may **not** construct a Recreational Pond on Primary Trout Waters **except** on streams with drainage basins (i.e., watersheds) less than 50 acres upstream of the impoundment. Recreational Ponds on Primary Trout Waters on streams with drainage basins less than 50 acres and all Recreational Ponds on Secondary Trout Waters must be approved by EPD.

The construction of a pond for **aquaculture operations** is **exempt** from the NPDES General Permit and the State buffer requirements.

The EPD also implements the **Safe Dams Program** and the **Water Withdrawal Permitting Program** (Appendix A). The EPD Safe Dams Program inventories all existing and proposed dams over 25 feet tall or with a 100 acre-feet of storage at the top of the dam. Water withdrawals of significant volume (i.e., over 100,000 gallons per day), either from surface waters or from groundwater sources, require a **Water Withdrawal Permit** from the EPD.

■ **Local Issuing Authority (LIA)**

In a area with a certified LIA, local Land Disturbing Activity (LDA) permits are required for the construction of Recreational Ponds that result in land disturbances equal to or greater than one acre OR for the construction of Recreational Ponds that result in land disturbances less than one acre and are located within 200 feet of any **perennial** State Waters. In addition to the NPDES General Permit Fees, the LIA may assess local permitting fees. A copy of the NOI and multiple copies of the Plan must be submitted to the LIA for review and **approval** or **disapproval**. A certified LIA may also incorporate more stringent buffer requirements in the local Soil Erosion and Sedimentation Control Ordinance or other related ordinances.

A Local Issuing Authority may also require a permit applicant to post a **bond** in the form of a government security, cash or an irrevocable letter of credit up to **\$3,000 per acre** of proposed land disturbing activity prior to issuing a LDA permit. If the permit applicant does not comply with the conditions of the local LDA permit, the LIA may call the bond to hire a contractor to stabilize the site of the land disturbing activity and bring it into compliance.

The construction of a pond for **aquaculture operations** as defined in GESA (O.C.G.A. 12-7-17(5)), is exempt from local Land-Disturbing Activity (LDA) permitting and buffer requirements.

■ Natural Resources Conservation Service (NRCS)

If the landowner meets all of the required regulations, the NRCS may be able to provide assistance with the design and construction details for a Recreational Pond. However, resources are limited; therefore, the NRCS will evaluate requests for assistance when received. The construction of a pond that is technically supervised by NRCS is **exempt** from LIA permitting. It is also **exempt** from state buffer requirements if the project disturbs less than one acre. Coverage under the **NPDES General Permit for Storm Water Discharges Associated with Construction Activity** is required for the construction of Ponds that result in land disturbances equal to or greater than one acre.

Pond Maintenance

Most established ponds in Georgia are classified **State Waters** - unless there is neither an inlet nor an outlet and the pond is totally confined and retained completely on the property of single individual, partnership or corporation. Landowners should be aware that some or all of the regulations applicable to pond construction may be applicable to **pond maintenance** (e.g., weed removal). Weed control is a concern to many landowners when their ponds receive more nutrients than appropriate.

The repair and/or maintenance of an **agricultural pond** with a Farm Pond Exemption is **exempt** from the NPDES General Permit, local LDA permits and the State and local buffer requirements. In addition, the repair and/or maintenance of a pond for **aquaculture operations** as defined in GESA (O.C.G.A. 12-7-17(5)), is **exempt** from the NPDES General Permit, local LDA permits and the State and local buffer requirements.

The repair and/or maintenance of a **Recreational Pond** - **regardless of the acreage disturbed** - may require a **Buffer Variance** from EPD. It is recommended that the Buffer Variance Application be submitted as soon as possible, as it will take at least three months to complete the review process. Coverage under the **NPDES General Permit for Storm Water Discharges Associated with Construction Activity** is also required for the repair and/or maintenance of Recreational Ponds that result in land disturbances equal to or greater than one acre. In an area with a certified LIA, local Land Disturbing Activity (LDA) permits are required for the repair and/or maintenance of Recreational Ponds that result in land disturbances equal to or greater than one acre OR for the repair and/or maintenance of Recreational Ponds that result in land disturbances less than one acres and are located within 200 feet of any **perennial** State Waters.

The maintenance (excluding dredging), repair and/or upgrade of Soil and Water Conservation District watershed dams when under the technical supervision of the USDA Natural Resources Conservation Service (NRCS) is **exempt** from local LDA permits and the State and local buffer requirements. Coverage under the **NPDES General Permit for Storm Water Discharges Associated with Construction Activity** is required for the

maintenance, repair and/or upgrade of Recreational Ponds that result in land disturbances equal to or greater than one acre.

The maintenance of any manmade storm-water detention basin, golf course pond, or impoundment that is located entirely within the property of a single individual, partnership, or corporation is **exempt** from the 25-foot coastal marshlands buffer.

NOTE: Landowners wishing to increase the size of their existing ponds would be required to procure all the necessary permits, exemptions, buffer variances, bonds and mitigation credits from the NRCS, USACE, EPD and Local Issuing Authorities, as applicable.

Under CWA Section 404(f)(1), it maybe possible to get an exemption from the USACE permitting requirements for **dam maintenance** activities provided that certain conditions are met. It is recommended that you contact the USACE, EPD and the Local Issuing Authorities for copies of their rules and regulations (*Part Two – Additional Pond Information*). The USACE will evaluate your pond individually to determine if you need a permit for the proposed pond maintenance. When discharging sediment from or through a dam or breaching a dam, reasonable measures should be implemented to reduce potential harm to downstream waters. Reasonable measures include, but are not limited to, prior dewatering by pumping or by releasing water from the upper control structures on a reservoir; mechanical dredging or excavation of sediments and appropriate disposal; timing releases to coincide with high water periods for better dilution; more frequent flushing to keep the discharges small; releasing a sediment amount that is dependent on the amount of water flow; and installing temporary barriers to prevent exposed sediments from being transported by runoff from subsequent storm events.

Trout Streams

Trout Streams means all streams or portion of streams within the watershed designated by the EPD under the provisions of the Georgia Water Quality Control Act, O.C.G.A. 12-5-20, et seq. Trout Streams are granted special protections above and beyond the normal protections granted to non-trout State Waters (i.e., warm water streams). GESA establishes a 50-ft buffer along the banks of all perennial, intermittent and ephemeral State waters classified as Trout Streams, as measured horizontally on each side from where vegetation has been “wrested” by normal stream flow or wave action. A certified LIA may also incorporate more stringent buffer requirements in the local Soil Erosion and Sedimentation Control Ordinance or other related ordinances.

Streams designated as **Primary Trout Waters** are defined as water supporting a self-sustaining population of rainbow, brown or brook trout. You may **not** construct an impoundment on Primary Trout Waters **except** on streams with drainage basins (i.e., watersheds) less than 50 acres upstream of the impoundment. Impoundments of Primary

Trout Waters on streams with drainage basins less than 50 acres must be approved by EPD.

Streams designated as **Secondary Trout Waters** are those in which there is no evidence of natural trout production, but the streams are capable of supporting trout throughout the year. Impoundment of Secondary Trout Waters must be approved by EPD. There shall be no elevation of natural stream temperatures for Primary Trout Waters and only as much as a 2°F or less elevation of temperature for Secondary Trout Waters.

A brief outline of the approval process procedures for impoundments in trout waters is as follows:

- Decide what type of pond that you will be constructing (i.e., Existing Operation Farm Pond, Proposed Operation Farm Pond or Recreational Pond) and follow all the requirements for such.
- In addition, you must contact the Georgia Department of Natural Resources, Wildlife Resources Division (WRD), Fisheries Management Section to request a field site investigation (Appendix A). The **WRD Fisheries Management Section** conducts field site investigations and completes pond evaluations for the **approval** or **disapproval** of proposed impoundments of Trout Streams.

Check List for Pond Construction Existing Operation Farm Pond

- Contact your NRCS representative for assistance with planning and designing an **Existing Operation Farm Pond**.
- Submit the completed **Farm Pond Exemption Information Paper (GA-ENG-378-EX1)** with the **Water Budget** and a **Site Map with Pond GPS Coordinates** to NRCS to determine if the **Farm Pond Exemption** is applicable. These documents must also be submitted to the USACE for a written concurrence.
- Contact the EPD Watershed Protection Program if you're constructing a pond on a **Trout Stream**. Impoundments of Trout Streams in Georgia require the written approval of the EPD.
- Provide adequate erosion control measures (i.e., Best Management Practices) to protect the State's soils and waters. The "**Manual for Erosion and Sediment Control in Georgia**" is available on the GSWCC website, gaswcc.georgia.gov.
- Contact the EPD Safe Dams Program if your dam is over 25 feet tall or your pond has 100 acre-feet storage at the top of the dam.
- Contact the EPD Water Withdrawal Permitting Program for an **Agricultural Water Withdrawal Permit**, if applicable.
- Contact the Local Issuing Authority, if applicable. Local ordinances may impact the construction of your Farm Pond.

Check List for Pond Construction Proposed Operation Farm Pond

- Contact your NRCS representative for assistance with planning and designing a **Proposed Operation Farm Pond**.
- Submit the completed **Farm Pond Exemption Information Paper (GA-ENG-378-EX1)** with the **Water Budget** and a **Site Map with Pond GPS Coordinates** to NRCS to determine if the **Farm Pond Exemption** is applicable. These documents must also be submitted to the USACE for a written concurrence or denial of the Farm Pond Exemption.
- Do **not** begin clearing or construction until you have received an approval letter from the USACE.
- Contact the EPD Watershed Protection Program if you're constructing a pond on a **Trout Stream**. Impoundments of Trout Streams in Georgia require the written approval of the EPD.
- Provide adequate erosion control measures (i.e., Best Management Practices) to protect the State's soils and waters. The "**Manual for Erosion and Sediment Control in Georgia**" is available on the GSWCC website, gaswcc.georgia.gov.
- Contact the EPD Safe Dams Program if your dam is over 25 feet tall or your pond has 100 acre-feet storage at the top of the dam.
- Contact the EPD Water Withdrawal Permitting Program for an **Agricultural Water Withdrawal Permit**, if applicable.
- Contact the Local Issuing Authority, if applicable. Local ordinances may impact the construction of your Farm Pond.

Check List for Pond Construction Recreational Pond

- Submit the appropriate permit application (i.e., Regional, Nationwide or Individual) to the USACE with an acceptable **Compensatory Mitigation Plan** (if applicable). NOTE: **Recreational Ponds** greater than 5 acres in size require an Individual Permit.
- Submit the completed **Notice of Intent (NOI)** and the **Erosion, Sedimentation and Pollution Control Plan** to the appropriate EPD office and/or Local Issuing Authority (as applicable).
- Submit the **Buffer Variance Application** to the EPD Watershed Protection Branch for review and approval or disapproval.
- Contact the EPD Watershed Protection Program if you're constructing a pond on a **Trout Stream**. Impoundments of Trout Streams in Georgia require the written approval of the EPD.
- Contact the EPD Safe Dams Program if your dam is over 25 feet tall or your pond has 100 acre-feet storage at the top of the dam.
- Contact the EPD Water Withdrawal Permitting Program for a **Water Withdrawal Permit**, if applicable.
- Contact the Local Issuing Authority, if applicable. Local ordinances may impact the construction of your Recreational Pond (e.g., more stringent buffer requirements, bonding).
- Submit the local Land Disturbing Activity (LDA) permit application with the appropriate fees to the LIA, if applicable.

PART TWO

Additional Pond Information

The soils in Georgia are subject to erosion. Bare soils are moved by water (rainfall) and less importantly by wind. The soils on top of the ground's surface are the first to erode; it is this "top soil" that is essential for food production and natural habitat maintenance. Unprotected soils under cotton production have been known to erode at a rate as high as 31 tons per acre per year. Water has the ability to transport surprising amounts of soil because it buoys up or in fact lightens the particles. Particles of soil weigh less in the water and even if they are under the water and not technically floating, they are lighter and are more easily transported. Think of floating soil particles moving downhill in and on the rainwater flow.

When soils enter our creeks and streams they reduce the amount of light available to aquatic vegetation, fill in lakes, ponds and reservoirs, capture excessive heat energy from the sun, damage or destroy both plant and animal aquatic habitats, make water treatment more difficult and expensive for downstream users, clog the gills of, and ruin the spawning areas for fish, and allows for unnatural pesticide and nutrient transport, further affecting the ecology of the stream.

Clean water is essential to human health and the health of a sustainable natural ecosystem. The cleaner the water, the less it will cost to process for human use either as drinking water or for industries and cooling towers. Cloudy water or silt-laden water is turbid. Erosion results in turbid water as the soil particles are buoyed up. Turbid water absorbs more sunlight and heat, which then affects the oxygen content of the water. The hotter the water the less oxygen can be dissolved in it and less oxygen is available to animals like fish. Certain fish like Carp and Bowfin can survive in low oxygenated waters but if a diversity of fish and insect species are desired, and for good environmental stream health, oxygen levels need to remain high.

Wetlands have a very high natural ecological value, and have proven to be a great value to people as well. Wetlands are productive and diverse ecosystems supporting a large variety of plant and animal species. When located along streams and rivers they act like a sponge absorbing then slowly re-releasing potentially damaging floodwaters. Wetlands provide important habitat for wildlife including rare plants and animals on the endangered species list. Wetlands filter runoff from the land and purify water that courses through it. They provide spawning grounds for fish and support recreation in the form of bird watching, outdoor photography, hunting and fishing. There is a nationwide rule that regulates the transformation of wetland areas to other uses. The USACE is the agency, which sees to it that there is "no net loss" of wetlands. Wetlands may not always be wet and the determination of wetlands is decided after looking at three different parameters: soils, plant species and hydrology.

Buffer Zones are the area of land immediately adjacent to the stream itself, and in Georgia this means the land 25 feet from the wretched vegetation of the warm water stream outwards on both sides or the land 25 feet from the Coastal Marshlands Jurisdictional Determination Line. In Georgia's cold water trout streams, this buffer zone is 50 feet measured horizontally from the edge of the wretched vegetation. Buffer Zones provide shade, wildlife habitat and wildlife corridors, flood control, filtering capacity, erosion control and manages these tasks best when in undisturbed natural vegetation.

It is possible but rare to have a Recreational Pond that does not require a **Buffer Variance**. For example if you dug a hole in the middle of a dry field (i.e., no wetlands or streams), and if you filled it with water from a well, or an outside source, and if the pond had no inlet or outlet, you may not be required to get a Buffer Variance. Ponds made by damming up a stream will almost assuredly require a Buffer Variance. Streams and rivers in Georgia are designated either warm water or cold water (i.e., Trout Stream). A warm water ephemeral stream does not require buffer protections, however if it truly is an ephemeral stream it would not likely be able to supply the necessary water to keep a pond full. A "**Field Guide for Determining the Presence of State Waters That Require a Buffer**" has been developed to help you determine what type of stream occurs on your site (Appendix A).

It is important to note that the repair and/or maintenance of a detention, retention and other water quality/water quantity ponds may require a Buffer Variance from EPD. If a water quality/water quantity pond has inflow and/or outflow and is not contained upon the property of a single individual, partnership or corporation, it is a State Water.

Pond maintenance when done improperly can cause environmental damage. Streams normally carry sediments during high flow times like during spring storm events. The pattern of deposition is more or less seasonal and predictable. When a pond is introduced into a stream system this natural movement of sediments is stopped at the pond. When the water slows down as it enters the pond the sediments settle out, sink to the bottom, and build up over time. When a dam is suddenly breached or the lower dam gates removed the sediments are reintroduced into the stream in an unnatural and often damaging rush. This discharge of water and sediment load can have detrimental downstream effects. Aquatic habitat degradation, filling in fish spawning beds and invertebrate niches, fish die offs due to the impairment of their oxygen processing ability, and disruption of the stream channel geomorphology are some of the possible results of the rapid release of impounded waters.

APPENDIX A

Contacts and Links



**US Army Corps
of Engineers**
Savannah District

The USACE has several offices in Georgia. For further contact information, please contact one of the offices below:

Piedmont Branch

U.S Army Corps of Engineers
The Plaza Suite 200
1590 Adamson Pkwy
Morrow, GA 30260
(678) 422-2735

Coastal Branch

U.S. Army Corps of Engineers
ATTN CESAS-RD
Post Office Box 889
100 West Oglethorpe Ave
Savannah, GA 31402
(800) 448-2402

Albany Field Office

1104 N. Westover Blvd, Unit 9
Albany, GA 31707
(229) 430-8566

Additional information about permitting, compensatory mitigation and jurisdictional determinations is available on the USACE website:
<http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx>.



To contact your NRCS field agent, go to <http://offices.sc.egov.usda.gov/locator/app>, where you will find a map of the United States. Click on either “North Georgia” or “South Georgia,” and then click on your county to locate your NRCS district office.

The “Georgia Farm Pond Exemption Guide” is available on the NRCS website, http://www.nrcs.usda.gov/wps/portal/nrcs/detail/ga/technical/engineering/?cid=nrcs144p2_021863.



ENVIRONMENTAL PROTECTION DIVISION

Notice of Intent (NOI)

Go to epd.georgia.gov >> Forms and Publications >> Under “Forms” >> – Watershed Protection Branch Forms >> Storm Water >> Construction, Notice of Intent for Primary Permittees:

<http://epd.georgia.gov/storm-water-forms>

NPDES General Permit No. GAR100001 (33 pgs)

<http://epd.georgia.gov/npdes-construction-storm-water-general-permits>

NPDES General Permit No. GAR100003 (40 pgs)

<http://epd.georgia.gov/npdes-construction-storm-water-general-permits>

NPDES General Permits - Fee Form

The Notice of Intent for Primary Permittees (Jun 2015) has been revised to include land disturbance fee calculations and submission instructions. A separate fee form is not required.

Buffer Variance Application

Go to epd.georgia.gov >> Forms and Publications >> Forms >> Under Watershed Protection Branch Forms >> Erosion and Sedimentation Forms>> Variance Application for 25-foot Vegetative Buffer Encroachment, Variance Application for 25-foot Coastal Marshland Buffer Encroachment or Variance Application for 50-foot Vegetative Buffer Encroachment.

<http://epd.georgia.gov/erosion-and-sedimentation-forms>

Erosion, Sedimentation and Pollution Control Plan Checklist

Stand Alone Construction Project: <https://gaswcc.georgia.gov/technical-guidance-0>

Common Development: <https://gaswcc.georgia.gov/technical-guidance-0>

Identification of Trout Streams

To determine which streams which have been designated as Trout Streams, go to epd.georgia.gov >> Rules and Laws >> Existing Rules and Corresponding Laws >> Water Quality Control (391-3-6) >> Water Use Classifications and Water Quality Standards >> Water Use Classifications and Water Quality Standards (391-3-6-.03). Scroll down to Section (15) "Trout Streams" for trout stream designations by county. Or access Rules from http://sos.ga.gov/index.php/General/rules_and_regulations

Field Guide for Determining The Presence of State Waters That Require a Buffer

Go to epd.georgia.gov >> Technical Guidance >> Under "Watershed Protection Branch – Erosion and Sedimentation >> Field Guide for Determining the Presence of State Waters That Require a Buffer: <http://epd.georgia.gov/erosion-and-sedimentation>



ENVIRONMENTAL PROTECTION DIVISION

The EPD Safe Dams Program inventories all existing and proposed dams over 25 feet tall or with a 100 acre-feet of storage at the top of the dam.

Safe Dams Unit

EPD Watershed Protection Branch
2 Martin Luther King Jr. Drive
Suite 1152 East
Atlanta, GA 30334
(404) -651-8488.

Water withdrawals of significant volume (i.e., over 100,000 gallons per day), either from surface waters or from groundwater sources, require a **Water Withdrawal Permit**. To see if you will be required to have this permit, go to the EPD website, epd.georgia.gov, under Browse click on “Documents, Publications, and Forms,” under “Regulatory Forms” click on “Watershed Protection Branch,” then click “Water Withdrawal Permitting.” Here you will find the relevant forms and information.

Agricultural Permitting Unit

Water Withdrawal Permitting Program
EPD Watershed Protection Branch 531 Main Street, Suite D
Tifton, GA 31794-4898
(229) 391-2400

Surface Water Withdrawal Unit

Water Withdrawal Permitting Program
2 Martin Luther King Jr. Drive
Suite 1362 East
Atlanta, GA 30334
(404) 656-2750.

To contact your local EPD District Office, go to epd.georgia.gov and then to “About EPD” and click on “District Offices” for the map that shows the counties covered by each of the following EPD district offices:

Coastal District (Brunswick)	(912) 264-7284
East Central District (Augusta)	(706) 667-4343
Mountain District (Atlanta)	(404) 362-2671
Mountain District (Cartersville)	(770) 387-4900
Northeast District (Athens)	(706) 369-6376
Southwest District (Albany)	(229) 430-4144
West Central District (Macon)	(478) 751-6612

If applicable, you must submit the **Buffer Variance Application** to the EPD Watershed Protection Branch for review and approval or disapproval. Note that buffer variances require a 30-day public comment period.

NonPoint Source Program

EPD Watershed Protection Branch
2 Martin Luther King Jr. Drive, Suite 1152
Atlanta, GA 30334
(404)463-1511



The WRD Fisheries Management Section conducts field site investigations and completes pond evaluations for proposed impoundments of Trout Streams.

WRD Region 1(North Georgia)

Fisheries Management Section
2150 Dawsonville Highway
Gainesville, GA 30501
(770) 535-5498

WRD District Office (North Georgia)

Burton Trout Hatchery
3695 Highway 197 N
Clarksville, GA 30523
(706) 947-3112

For additional information about **fishing stocking**, go to the Fisheries Management Sections of the WRD websites, www.georgiawildlife.com or www.gofishgeorgia.com.

Local Issuing Authorities

Contact your local EPD District Office or the EPD Watershed Protection Branch, NonPoint Source Program to determine if your project is located in an area with a certified Local Issuing Authority.



Go the GSWCC website, gaswcc.georgia.gov, and follow the “Regional Offices” link and click on your county to visit the corresponding GSWCC Regional Office’s website. In addition, the “Manual for Erosion and Sediment Control in Georgia” is available on the GSWCC website.

GLOSSARY

Acre-Foot (ac-ft)

An acre-foot is a unit to measure volumes of water, typically for use in irrigation. One acre-foot is the volume of water sufficient to cover an acre of land to a depth of one foot (i.e., 43,560 cubic feet or 325,851 gallons).

Agricultural Pond

An Agricultural Pond is also referred to as a **Farm Pond** in this guidance document. Farm ponds for agricultural purposes are ponds that are utilized for food production such as irrigating crops or watering livestock. These farm ponds may be exempt from the USACE permitting requirements, the EPD NPDES General Permit and buffer requirements, and the local LDA permit and buffer requirements.

Buffer Variance

A buffer variance is permission to conduct land disturbing activities within the protected **Buffer Zone**. A Buffer Variance Application must be submitted the EPD Watershed Protection Branch for review and approval or disapproval.

Buffer (Buffer Zone)

A Buffer or Buffer Zone is the area of land immediately adjacent to the banks of State Waters in its natural state of vegetation, which facilitates, when properly vegetated, the protection of water quality and aquatic habitat. The GESA establishes a 25-ft buffer along the banks of all perennial and intermittent State Waters classified as **warm water streams**, a 50-ft buffer along the banks of all perennial, intermittent and ephemeral State waters classified as **trout streams**, as measured horizontally on each side from where vegetation has been “wrested” by normal stream flow or wave action and a 25-ft buffer along **coastal marshlands** as measured from the Jurisdictional Determination (JD) line.

Clean Water Act (CWA)

The Clean Water Act, commonly abbreviated as the CWA, is the primary Federal law in the United States governing water pollution.

Coastal Marshlands

Coastal marshlands or marshlands means any marshland intertidal area, mud flat, tidal water bottom, or salt marsh in the State of Georgia within the estuarine area of the state, whether or not the tidewaters reach the littoral areas through natural or artificial watercourses. "Vegetated marshlands" shall include those areas upon which grow one, but not necessarily all, of the following: salt marsh grass (*Spartina alterniflora*), black needlerush (*Juncus roemerianus*), saltmeadow cordgrass (*Spartina patens*), big cordgrass (*Spartina cynosuroides*), saltgrass (*Distichlis spicata*), coast dropseed (*Sporobolus virginicus*), bigelow glasswort (*Salicornia bigelovii*), woody glasswort (*Salicornia virginica*), saltwort (*Batis maritima*), sea lavender (*Limonium nashii*), sea oxeye (*Borrichia frutescens*), silverling (*Baccharis halimifolia*), false willow (*Baccharis angustifolia*), and high-tide bush (*Iva frutescens*). The occurrence and extent of salt marsh peat at the undisturbed surface shall be deemed to be conclusive evidence of the extent of a salt marsh or a part thereof.

EPD

Georgia Department of Natural Resources, Environmental Protection Division

Ephemeral Stream

An ephemeral stream typically has no well-defined channel, and flows only in direct response to precipitation with runoff.

Exiting Operation Farm Pond

Existing Operation Farm Ponds for agricultural purposes are ponds that are utilized for food production such as irrigating crops or watering livestock, which are in-place and on-site. These farm ponds may be exempt from the USACE permitting requirements, the EPD NPDES General Permit and buffer requirements, and the local LDA permit and buffer requirements.

Field Level Agreement (FLA)

An agreement between the USACE and the NRCS that identifies what Farm Ponds are exempt from obtaining a Clean Water Act Section 404 permit from the USACE for impacts to waters of the United States (including wetlands).

GSWCC

Georgia Soil and Water Conservation Commission

Global Positioning System (GPS)

The latitude and longitude coordinates or position of your pond site. Sources include USGS topographic, county and DOT maps or other map sources, websites such as *Google Earth*, or from a GPS unit.

Intermittent Stream

An intermittent stream flows in a well-defined channel during wet seasons of the year but not for the entire year.

Jurisdictional Determinations

Jurisdictional Determinations made by the NRCS or the USACE identify the areas and/or activities subject to jurisdiction under the provisions of FSA or CWA, respectively. Landowners may also use a qualified environmental consultant to determine the presence and boundaries of any Waters of the United States and to obtain any necessary authorizations from the USACE.

Local Issuing Authority (LIA)

Certified governing authority of any county or municipality that has enacted a local Soil Erosion and Sedimentation Control Ordinance which meets or exceeds the standards, requirements and provisions of GESA and NPDES General Permit. A certified LIA is responsible for inspection of land disturbing activities and the issuance, compliance and enforcement of a local LDA permit. In addition, a certified LIA is responsible for the determinations of State Waters and compliance with stream buffer variances.

Mitigation

Mitigation is the action that replaces the function and values of wetland and stream impacts through the purchases of mitigation credits from a commercial mitigation bank or in-lieu banking, or on-site restoration, enhancement or preservation activities resulting in a “no net loss” of wetlands or other Waters of the United States.

Notice of Intent (NOI)

The EPD requires that a NOI be submitted for coverage under the NPDES General Permit – unless exempt - for construction activities resulting in land disturbances equal to or greater than one acre. The NOI and permit fees must be submitted to the EPD and, if applicable, to the certified LIA.

NPDES

National Pollution Discharge Elimination System

Natural Resource Conservation Service (NRCS)

The NRCS is a non-regulatory agency that provides technical assistance with planning and designing Farm Ponds.

Perennial Stream

A perennial stream flows in a well-defined channel throughout most of the year under normal climatic conditions.

Plan

Erosion, Sedimentation and Pollution Control Plan

Proposed Operation Farm Pond

If a landowner is seeking a **Farm Pond Exemption** but is **not** currently irrigating agricultural crops or using water to produce livestock, then the landowner would be constructing a Proposed Operation Farm Pond. You should **not** begin clearing or construction until you have received an approval letter from the USACE. Landowners should retain copies of all documents to demonstrate compliance with the Farm Pond Exemption

State Waters

State Waters include any and all rivers, streams, creeks, branches, lakes, reservoirs, **ponds**, drainage systems, springs, wells, and other bodies of surface or subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State which are not entirely confined and retained completely on the property of a single individual, partnership, or corporation, except as may be defined in O.C.G.A. 12-7-17(8).

Trout Streams

All streams or portion of streams within the watershed designated by the EPD under the provisions of the Georgia Water Quality Control Act, O.C.G.A.12-5-20, et seq. Streams designated as **Primary Trout Waters** are defined as water supporting a self-sustaining population of rainbow, brown or brook trout. Streams designated as **Secondary Trout Waters** are those in which there is no evidence of natural trout production, but the streams are capable of supporting trout throughout the year. **First Order Trout Waters** are streams into which no other streams flow except springs.

United States Army Corps of Engineers (USACE)

The USACE Regulatory Division is a Federal agency that regulates impacts to Waters of the United States (including wetlands), issues permits and enforces the Clean Water Act (CWA). Impacts to Waters of the United States, including jurisdictional wetlands and streams, typically require authorization from the USACE Regulatory Division.

Verified Wetland Delineations

Verified Wetland Delineations depicts the boundaries of Waters of the United States, such as wetlands and streams, and have been determined as accurate in writing from the NRCS or the USACE for FSA or CWA purposes, respectively.

Wetland Delineations

Wetland Delineations depict the boundaries of Waters of the United States, such as wetlands and streams.

WRD

Georgia Department of Natural Resources, Wildlife Resources Division

Wrested Vegetation

Wrested vegetation means the movement of water that removes soil, debris and vegetation, creating a clear demarcation (i.e., separation) between water flow and vegetative growth. The buffer along the banks of State Waters is measured horizontally from the point where vegetation has been wrested by normal stream flow or wave action. The GESA establishes a 25-ft buffer along the banks of all perennial and intermittent State Waters classified as **warm water streams** and a 50-ft buffer along the banks of all perennial, intermittent and ephemeral State waters classified as **trout streams**.

Although this document is meant as a guide there may be gaps of information, regulations, or accuracy when addressing all instances and situations. Rules and laws can change and it is up to the landowner to keep abreast of these changes. It is the responsibility of the landowner to thoroughly research, keep current with, and comply with all regulations. Multiple agencies have an interest in pond development and environmental protection. It is the responsibility of the landowner to know and respond to the requirements of these agencies including those agencies not listed in this guidance document.

Pond Information			
Acres of Pond	Water Depth at Dam	Storage Factor	AcFt of Water
		0.4	0

Irrigation Needs			
Crop	Acres	Crop Water Needs (Ac-Ft/ac)	AcFt
		#N/A	0.00
		#N/A	0.00
		#N/A	0.00
		#N/A	0.00
		#N/A	0.00
Total Acre Feet			0

Livestock Needs			
Livestock Type	Number of Head	Water Needs (gal/hd/dy)	Ac-Ft
		#N/A	0.00
		#N/A	0.00
		#N/A	0.00
		#N/A	0.00
		#N/A	0.00
Total Acre Feet			0.00

Total Ac-Ft in Pond	0
Total Irrigation Needs	0.00
Total Livestock Needs	0.00
<i>Is Water Budget Met?</i>	YES

Georgia Department of Natural Resources
Wildlife Resources Division – Fisheries
Pond Evaluation Form

Dam/Lake

Stream: _____
 USGS Quad: _____
 County: _____
 Watershed (ac.): _____ *(Must be less than 50 ac. on Primary Trout Streams)*
 Purpose of Pond: _____

Owner

Name: _____
 Address: _____
 Phone: _____ email: _____

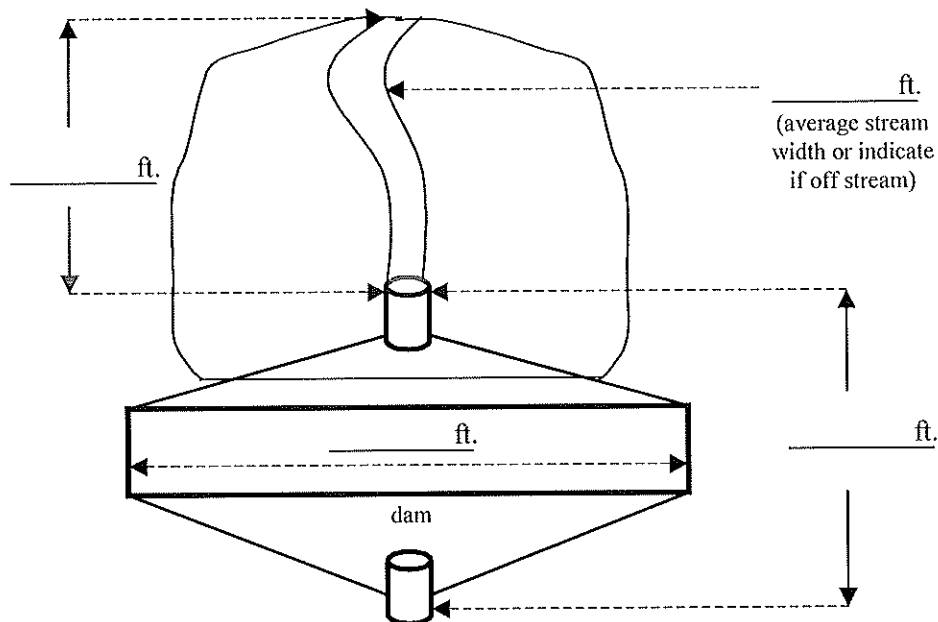
Agent

Name: _____
 Address: _____
 Phone: _____ email: _____

Directions to Site: _____

Note: Please enclose a copy of the appropriate 7.5' USGS quadrangle map indicating exact site location.

I am keeping the impact on the streambed to the minimum by: _____



Surface Area

At normal Pool: +/- _____ ac.
 At top of Dam: +/- _____ ac.

Pool Depth

Maximum: +/- _____ ft.
 Average: +/- _____ ft.

Landowner Signature: _____ Date: _____

Return To: *DNR - Wildlife Resources Division*
Fisheries Management
 2150 Dawsonville Hwy
 Gainesville, Ga. 30501



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT
1104 NORTH WESTOVER BOULEVARD, UNIT 9
ALBANY, GEORGIA 31707

August 13, 2019

Regulatory Division

PUBLIC NOTICE
Issuance of Savannah District Farm Pond Guide

The US Army Corps of Engineers, Savannah District, by means of this notice announces the issuance of guidance to assist producers, agencies, and the public with determining possible exemption from permitting requirements for activities regulated by the U.S. Army Corps of Engineers related to the construction and/or maintenance of a farm pond located in a stream, wetland, or other water of the United States.

If you have any further questions concerning this matter, please contact Mr. Terry C. Kobs, Project Manager, Coastal Branch at 229-430-8567.

Enclosure

1. Savannah District, Regulatory Division Farm Pond Guide



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
100 W. OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3604

August 5, 2019

FARM POND GUIDE

1. Purpose. This guidance is provided to assist producers, Agencies, and the public with determining possible exemption from permitting requirements for activities regulated by the U.S Army Corps of Engineers (Corps) related to the construction and/or maintenance of a farm pond located in a stream, wetland, or other water of the United States (waters). Although, the Clean Water Act (CWA) gives the Corps responsibility for regulating the placement (discharge) of dredged or fill material in waters, there are, however, exemptions from CWA permit requirements, as discussed further below.

2. Farm Pond Exemption Verification Request. The CWA specifically states that construction or maintenance of farm or stock ponds is not prohibited (i.e., does not require a permit from the Corps). Therefore, a producer is not required, under the law, to request confirmation of an exemption from the Corps. However, a producer may voluntarily request verification from the Corps that maintenance or construction of a farm pond in waters of the U.S. is exempt from the CWA (i.e., no permit required). Such requests must be complete, and include all information outlined in Appendix A.

3. Farm Pond Size. A farm pond shall not be larger than required to provide the calculated volume of water (water budget) needed by a producer for a farm or ranch operation involving agricultural or livestock production. See Appendix B for the approved method for calculating an annual water budget. See Appendix C for the approved method for calculating the annual volume of water (reliable yield) that a farm pond would provide. Larger farm Ponds (e.g., over 20 acres) may be referred to the U.S. Environmental Protection Agency for a determination of exemption from CWA permit requirements.

4. Exempt and Non-Exempt Activities. The placement of fill material in streams, wetlands or other waters of the U.S. associated with the construction or maintenance of an exempt farm pond is limited to the area required for dam or berm construction. Mechanized land clearing (i.e., tree and stump removal), in waters associated with the construction or maintenance of an exempt farm pond, is limited to the area required for dam or berm construction, auxiliary spillway entry and exit sections, and the area of the normal pool of the farm pond. The placement of fill material into waters of the U.S. that are located adjacent to a farm pond, for any purpose other than the construction or maintenance of a farm pond, is not considered exempt from CWA permit requirements.

5. For the purposes of this guidance the following terms are defined:

- Farm Pond - A water source created by constructing a dam or excavating a pit in a stream, wetland or other water of the U.S., which is to be used by a producer for agricultural or livestock production.

- Producer - For the purpose of this guidance, a producer is defined as an entity involved with an ongoing farming, ranching, and/or silvicultural operation (e.g., an individual or company that grows agricultural crops or breeds livestock for the purpose of selling food or fiber).
- Agricultural Production - A farm or ranch operation involving the production of crops including but not limited to the following: grains; row crops; vegetables; fruits; hay, forage, or pasture; field-grown ornamentals (not containerized); flowers; bulbs; naval stores; orchards; vineyards; seed crops; plant materials; tobacco; trees; and turf farms.
- Livestock Production - A farm or ranch operation involving the production, growing, raising, or reproducing of livestock or livestock products, including but not limited to the following: beef cattle; dairy cattle; buffalo; horses; ostriches; emu; poultry; turkeys; sheep; goats; and swine.
- Water Budget - The volume of water that a producer requires for agricultural or livestock production on a farm or ranch operation.
- Reliable Yield - The volume of water that a farm pond would provide for agricultural or livestock production on a farm or ranch operation.
- Recreational and Commercial Ponds - Ponds constructed in streams, wetlands, or other waters, for purposes other than a water source for agricultural or livestock production. [NOTE: Information concerning pond permits (e.g., Regional Permit 90) is available on the Savannah District webpage at <https://www.sas.usace.army.mil/Missions/Regulatory.aspx>.

6. Frequently Asked Questions and Answers. For answers to frequently asked questions concerning exempt farm ponds, see Appendix D.

7. General Questions. For general questions concerning farm pond exemptions in the State of Georgia please contact the appropriate Corps' Office that services the county where the pond will be located via telephone number provided in Appendix E.

8. Requesting a Farm Pond Exemption Verification. In the event a written verification is requested, or needed, digital submittals are preferred. Information on how to submit a request for verification of exemption is available at <https://www.sas.usace.army.mil/Missions/Regulatory/Electronic-Submittal-of-Applications/>. Requests for farm pond exemption verifications can also be mailed to the appropriate Corps' office. See Appendix E for a list of mailing addresses, phone numbers, electronic mailboxes, and the office location that services your County.

FARM POND EXEMPTION VERIFICATION REQUEST CHECKLIST

1. ___ A completed and signed Farm Pond Exemption Verification Request.
2. ___ Property owner's full name, mailing address and daytime telephone number. Include the name of a contact person if the owner is a company or other organization.
3. ___ If the property owner is not the producer, the producer's full name, mailing address, day time telephone number and relationship to the owner.
4. ___ The latitude/longitude coordinates for the pond location in decimal degrees.
5. ___ Vicinity and location maps showing the pond site and the property boundary where water from the pond will be used for agricultural or livestock production. Excerpts of U.S. Geological Survey topographical quadrangle maps, county road maps, or other similar maps may be used. Vicinity maps must be scaled appropriately to locate the site by nearby landmarks and geo-referenced to include north arrow.
6. ___ For crop irrigation, state the method of irrigation, and provide an aerial photograph identifying areas to be irrigated.
7. ___ For livestock water, state the number of and type of livestock, and provide an aerial photograph identifying areas where livestock will be located.
8. ___ A written statement which documents all other water sources considered and provides justification as to why those sources are inadequate.
9. ___ Completed Appendix B, with the calculated water budget for agriculture or livestock production area(s).
10. ___ Completed Appendix C, with the calculated reliable yield for the farm pond.
11. ___ The estimated date to begin pond construction and the date of completion.

**US ARMY CORPS OF ENGINEERS, SAVANNAH DISTRICT
FARM POND EXEMPTION VERIFICATION REQUEST INFORMATION**

PROCUCER INFORMATION:

Name: _____ Company: _____

Phone Number _____ E-Mail _____

Address _____ City _____ State _____ Zip Code _____

AGENT/CONSULTANT INFORMAION:

Name: _____ Company: _____

Phone Number _____ E-Mail _____

Address _____ City _____ State _____ Zip Code _____

FARM INFORMATION:

Address _____ City _____ State _____ Zip Code _____

County: _____ Pond Latitude/Longitude (Degree) _____

Description of Farming Operation (e.g., new or existing farm, etc.):

FARM POND INFORMATION:

Pond Size (acres at normal pool): _____ Dam Height: _____ Water Depth at Dam: _____

Corp Type(s): _____ Acres: _____

Livestock Type(s) _____ Herd Size: _____

Calculated Appendix B Water Budget (acre feet): _____

Calculated Appendix C Reliable Yield (acre feet): _____

PRODUCER CERTIFICATION: I certify that the above information is accurate. I understand that this exemption does **NOT** free me from obtaining any other federal, state, or local permits for construction of the proposed pond. I understand that if any revisions are made to the project or its intended use, this exemption verification may be invalidated. Should it be determined that the pond has been converted to a non-agricultural use at any point, I may be required to obtain a Department of the Army (DOA) permit in order to maintain the pond. Any DOA permit application must include an alternatives analysis and mitigation, and should a permit not be issued, restoration of the site may be required.

Type or Print Name

Signature

Date

ESTIMATED WATER BUDGET OR NEED

CROP OR USE	PER ACRE ANNUAL ACRE/FEET WATER NEED
Row Crops	1.5
Tobacco	1.0
Hay, Forage, Pasture	1.25
Vegetables	1.25
Orchards	1.5

LIVESTOCK PRODUCTION	WATER NEEDS Gallon/head/day
Dairy Cattle	25
Beef Cattle	12
Sheep and Goats	1
Horses	10

Example: A producer irrigates 500 acres of cotton. What pond storage volume is defensible?

Crop Acreage	500 acres
Water Needs	1.5 ac-ft/ac

Total Water Needs	750 ac-ft
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FARM POND RELIABLE YIELD CALCULATIONS

For farm ponds the volume of reliable irrigation water is calculated by multiplying the surface area of the proposed pond by the depth of the pond at the dam. This volume is then multiplied by a factor of 0.4 to arrive at the approximate reliable yield of the pond.

Pond Surface Area x Maximum Depth of Pond at Dam x 0.4 = Reliable Yield

Frequently Asked Farm Pond Questions & Answers

1. Can an exempt farm pond be constructed for the purpose of watering livestock (cows, horses, goats, etc.)?

Answer. Yes. However, 50 head of beef cattle would only need a $\frac{3}{4}$ acre pond for a reliable source of drinking water.

2. Can an exempt farm pond, either existing or proposed, be used for commercial fish production?

Answer. No. The purpose of a farm pond is to provide a reliable source of water to be used by a producer for agricultural or livestock production. Since fish production is not considered agricultural or livestock commodity crop, an exempt farm pond cannot be used for commercial fish production.

4. Can a farm pond be used for recreational fishing?

Answer. Yes. A farm pond can be used for recreational fishing, but neither recreational nor commercial fishing can be a purpose for the construction of an exempt farm pond.

5. For new farming operations, can a farm pond be built to provide irrigation water for land that has not yet been cleared of trees and other vegetation, but where agricultural or livestock production will occur in the future?

Answer. Yes. A farm pond can be built in advance of clearing land for agricultural or livestock production.

6. If a farm pond is constructed in advance of clearing farm land, is there a time-frame for when the land must be cleared and be available for agricultural or livestock production?

Answer. Yes. Within 18 months of completing construction of an exempt farm pond, the land must be cleared and available for agricultural or livestock production. The Corps routinely inspects exempted farm ponds. Inspections are performed to confirm that farm ponds are being used for irrigation or livestock water, which requires land to be cleared and available agricultural or livestock production. If an exempt farm pond is not being used for irrigation, such activity could be considered a violation of the Clean Water Act (CWA). The Corps may request the farmer remove the pond and restore the affected area, or submit an application for an after-the-fact permit. However, an after-the-fact permit application does not guarantee Corps authorization for the activities, especially if such activities are determined to cause significant degradation of on-site or downstream aquatic resources.

7. Once an exempt farm pond has been constructed for agricultural production, is there a time frame for when irrigation equipment must be on-site and available?

Answer. Yes. Within 18 months of completing construction of a farm pond, the irrigation equipment needed to apply water from the farm pond must be available for use. The Corps routinely inspects exempt farm ponds. Inspections are performed to confirm that exempt farm ponds are being used for irrigation, which requires the availability of irrigation equipment. If an exempt farm pond is not being used for irrigation, such activity could be considered a violation of the Clean Water Act (CWA). The Corps may request the farmer remove the pond and restore the affected area, or submit an application for an after-the-fact permit. However, an after-the-fact permit application does not guarantee Corps authorization for the activities, especially if such activities are determined to cause significant degradation of on-site or downstream aquatic resources.

8. Can two or more producers build a farm pond to provide irrigation water for crop lands located on adjoining or nearby farms?

Answer. It depends. Proposals for construction of multiple user farm ponds will be reviewed by the Corps on a case-by-case basis. For multi-farm pond proposals, all agricultural lands that would be irrigated from the pond must be identified. A proposal for a multi-farm pond must include information to document water needs (water budget), the volume of water that the proposed pond would provide (reliable yield), all other available water sources, and the availability of irrigation equipment that would be required to pump water from the pond to all identified fields.

9. Can a non-producer (neighboring) property owner create a pond in waters, as long as the neighbor agrees to sell or otherwise provide the water to a neighboring producer for agricultural purposes?

Answer. It depends. In cases where the neighboring property owner may be considered a commercial vendor of water, with no assurance that such water would be used for agricultural purposes in perpetuity, the pond would not be considered exempt. However, an agreement between the neighboring property owner and the producer for such arrangement may be sufficient to provide assurance of the 'agricultural' purpose of the pond. Such agreements will be reviewed on a case by case basis, and must be provided with any request for exemption verification and approved prior to verification of exemption. Such agreements must be supported by receiving any and all local, State, and Federal permits. Any change in, or removal of, the agreement for agricultural use of the pond, may constitute a change in use, and subject the pond to permitting requirements.

10. Does the Natural Resources Conservation Service (NRCS) participate in the farm pond exemption verification process?

Answer. No, the NRCS does not provide information, guidance or other information to producers concerning agricultural exemptions. A producer must contact the Corps for answers to all questions concerning agricultural exemptions, or Corps' verifications of agricultural exemptions.

11. Can houses be constructed in the vicinity of an exempt farm pond?

Answer. It depends. A farmer could build a house in the vicinity of a farm pond; however, if a farmer subdivides the property surrounding an exempt farm pond into residential lots, this would be considered a change in the use of the pond under the CWA. Therefore, the pond would no longer be exempt from requirements of the CWA and would be subject to the Corps' jurisdiction. The Corps may request the farmer remove the pond and restore the affected area, or submit an application for an after-the-fact permit. However, an after-the-fact permit application does not guarantee Corps authorization for the activities, especially if such activities are determined to cause significant degradation of on-site or downstream aquatic resources. Farm ponds constructed prior to implementation of the CWA are grandfathered and authorized under the CWA.

12. What about a farm, with an existing farm pond, which is sold to a developer for the purpose of constructing a residential or commercial subdivision; would this be considered a change in use of the exempt farm pond?

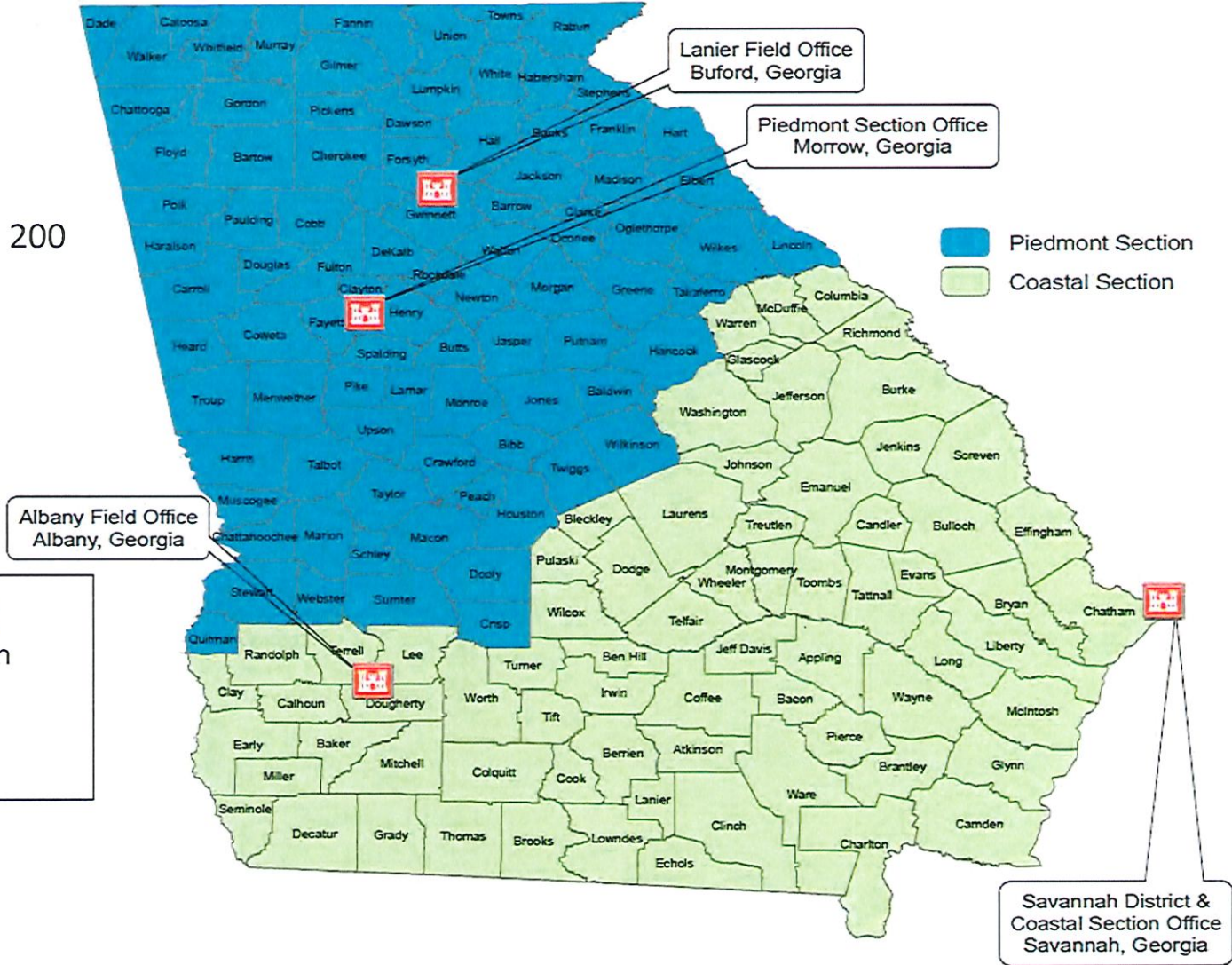
Answer. Yes. The conversion of a farm to a residential or commercial subdivision would be a change in use. Any farm ponds constructed after implementation of the CWA are subject to Corps jurisdiction. The Corps may require the developer to remove the pond and restore aquatic areas to their original condition, or to submit an application for an after-the-fact permit. However, an after-the-fact permit application does not ensure that a CWA permit will be automatically issued if regulated activities in waters of the U.S. are determined to have caused significant degradation of on-site or downstream aquatic resources.

US ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT, REGULATORY BRANCH OFFICE LOCATIONS

Submit Requests to:

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1590 Adamson Parkway, Suite 200
Morrow, Georgia 30260

Coastal Section
100 W. Oglethorpe Ave
Savannah, Georgia 31401



General Questions

Piedmont – Mr. Philip Shannin
678-422-2729
Coastal – Mr. Terry Kobs
229-430-8567