



March 24, 2017

Mr. George Buchholz
McAdams Company
2905 Meridian Parkway
Durham, NC 27713

Project Name: Publix
Location: 97 Polks Landing Road, Chatham County
Subject Feature(s): One (1) perennial stream
Date of Determination: March 24, 2017

Explanation: The site visit was completed on March 24, 2017 by Drew Blake with Chatham County Environmental Quality and George Buchholz of McAdams Co., on Parcel numbers 2508, 60612, 2719, 2720, 69884, and 2721 totaling ~26-acres that are located within the Jordan Lake watershed. McAdams personnel completed a previous site visit which resulted in the identification of an isolated man-made irrigation pond on Parcel# 2508. A perennial stream was found on the western adjoining properties (Parcel #'s 207, 209, and 211) and was not found within the boundaries of the parcels reviewed. Based on the current scope of this project the Chatham County Riparian Buffer rules will not apply to the perennial stream identified by McAdams staff. However, the stream is subject to the Jordan Lake buffer rules due to its depiction on both the USGS and NRCS maps. A 50-ft buffer is required on both sides of the identified stream which will include a small portion of Parcel #2508. No (0) streams scoring at least intermittent (19+ points) were found entering or discharging from the man-made irrigation pond and the water source for the pond is apparently overland flow through the former pastures surrounding the pond. Therefore, as no streams were found entering or discharging from the pond, the pond is not subject to riparian buffers as defined in Section 304 of the Chatham County Watershed Protection Ordinance. If impacts (dredging, filling, etc.) are anticipated, consultation with the US Army Corps of Engineers (USACE) may be required. Should a USACE review result in revisions to any features reviewed by Chatham County staff on March 24, 2017, additional reviews and consultation may be required. Please provide all revised maps, sketches, and documentation to Drew Blake following the USACE site visit for inclusion in our records.

This on-site determination shall expire five (5) years from the date of this letter. Landowners or affected parties that dispute a determination made by Chatham County, on parcels outside of the Jordan Lake watershed, may submit a request for appeal in writing to the Watershed Review Board. A request for a determination by the Watershed Review Board shall be made in accordance with Section 304 of the Chatham County Watershed Protection Ordinance. Landowners or affected parties that dispute a determination made by Chatham County, on parcels inside the Jordan Lake watershed, shall submit a request for appeal in writing to NC DWR, 401 & Buffer Permitting Unit, 1650 Mail Service Center, Raleigh, NC 27669-1650 attention of the Director of the NC Division of Water Quality.



WATERSHED PROTECTION DIVISION
Environmental Quality Department

P.O. Box 548
Pittsboro, NC 27312
PHONE: (919) 545-8394

Fax: (919) 542-2698 • E-mail: drew.blake@chathamnc.org • Website: www.chathamnc.org

Should this project result in any direct impacts to surface water features (i.e., crossing and/or filling streams or wetlands) additional reviews may be necessary. Additionally, a Section 404/401 Permit may be required. Any inquiries regarding Section 404/401 permitting should be directed to the Division of Water Resources (Central Office) at (919)-807-6364 and the US Army Corp of Engineers (Raleigh Regulatory Field Office) at (919)-554-4884.

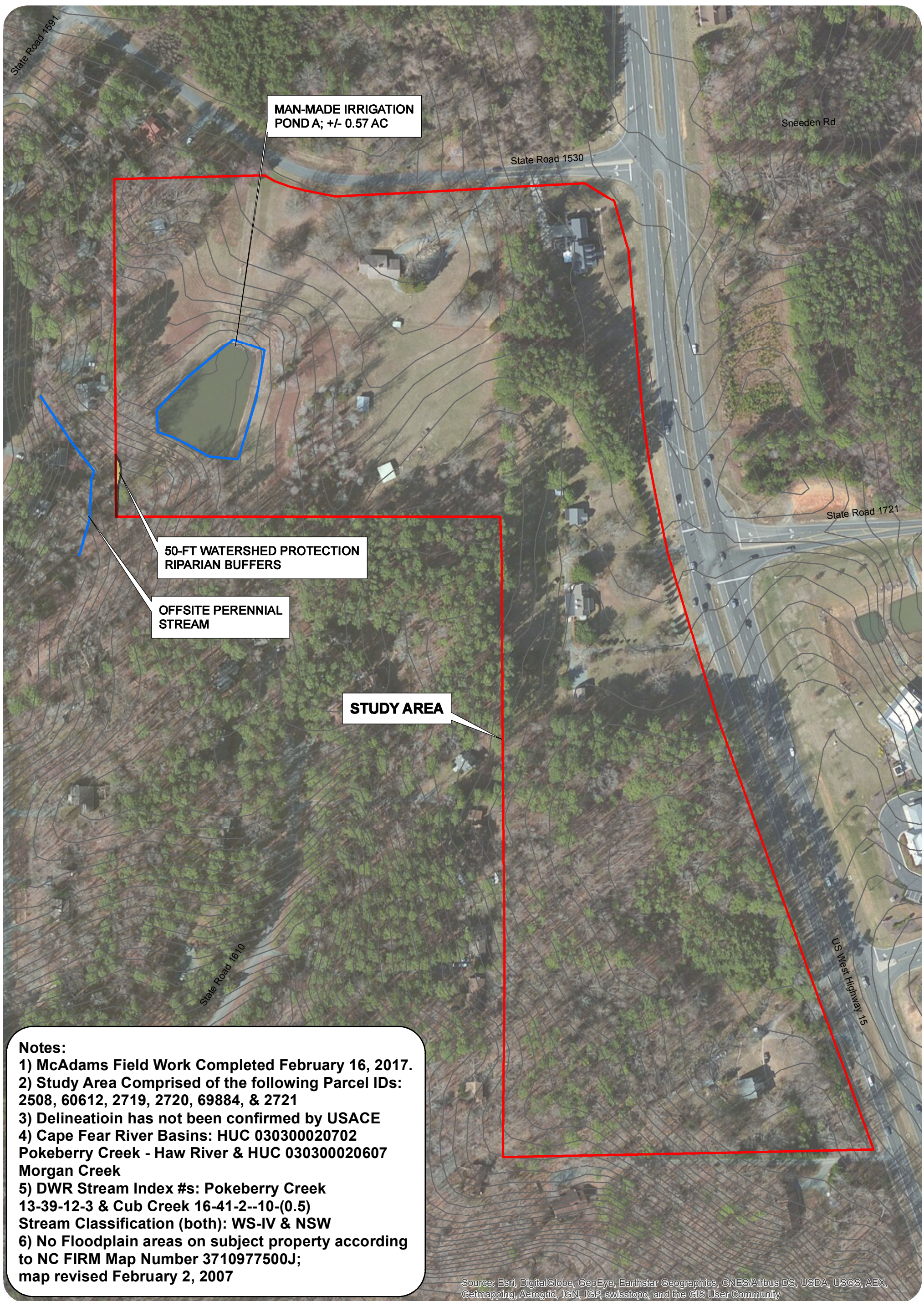
Respectfully,

Drew Blake

Drew Blake
Watershed Specialist

Enclosures: Stream/Wetland Delineation & Buffer Exhibit provided by McAdams Co.
Field Photos, March 24, 2017, provided by McAdams Co.

cc: Rachael Thorn, Chatham County Land and Water Resources Supervisor
Brian Burkhart, Chatham County Director of Environmental Quality
Jason Sullivan, Chatham County Director of Planning
Angela Birchett, Chatham County Zoning Administrator



MAN-MADE IRRIGATION POND A; +/- 0.57 AC

50-FT WATERSHED PROTECTION RIPARIAN BUFFERS

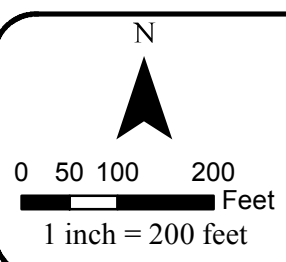
OFFSITE PERENNIAL STREAM

STUDY AREA

Notes:
 1) McAdams Field Work Completed February 16, 2017.
 2) Study Area Comprised of the following Parcel IDs: 2508, 60612, 2719, 2720, 69884, & 2721
 3) Delineation has not been confirmed by USACE
 4) Cape Fear River Basins: HUC 030300020702
 Pokeberry Creek - Haw River & HUC 030300020607
 Morgan Creek
 5) DWR Stream Index #s: Pokeberry Creek 13-39-12-3 & Cub Creek 16-41-2--10-(0.5)
 Stream Classification (both): WS-IV & NSW
 6) No Floodplain areas on subject property according to NC FIRM Map Number 3710977500J; map revised February 2, 2007

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

LAT: 35.833451 N, LONG: -79.090962 W



**CHATHAM COUNTY PUBLIX
 STREAM/WETLAND DELINEATION & BUFFER EXHIBIT
 FIGURE 3. EXISTING CONDITIONS
 PROJECT #: SPEC-16998**

**Date:
 02/24/2017**



CHATHAM COUNTY, NORTH CAROLINA

March 24, 2017

**Re: Field Photos: March 24, 2017
Chatham County Publix
Chatham County, North Carolina
SPEC-16998**



Photo 1: Man-made irrigation isolated pond located within study area.



Photo 2: Side view.

**The John R. McAdams
Company, Inc.**

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McAdamsCo.com

Field Photos: March 24, 2017
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Photo 3: Up gradient view.



Photo 4: Emergency spillway. Down gradient view.

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Photo 5: Emergency spillway. Up gradient view.



Photo 6: Below the dam of the man-made irrigation isolated pond. Up gradient view.

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Photo 7: Below the dam of the man-made irrigation isolated pond. Side view.

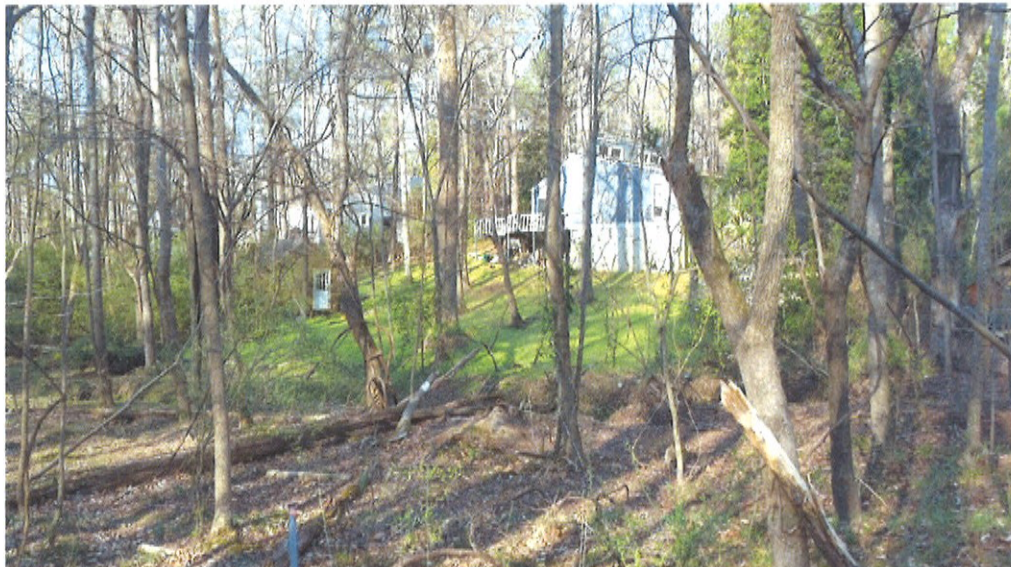
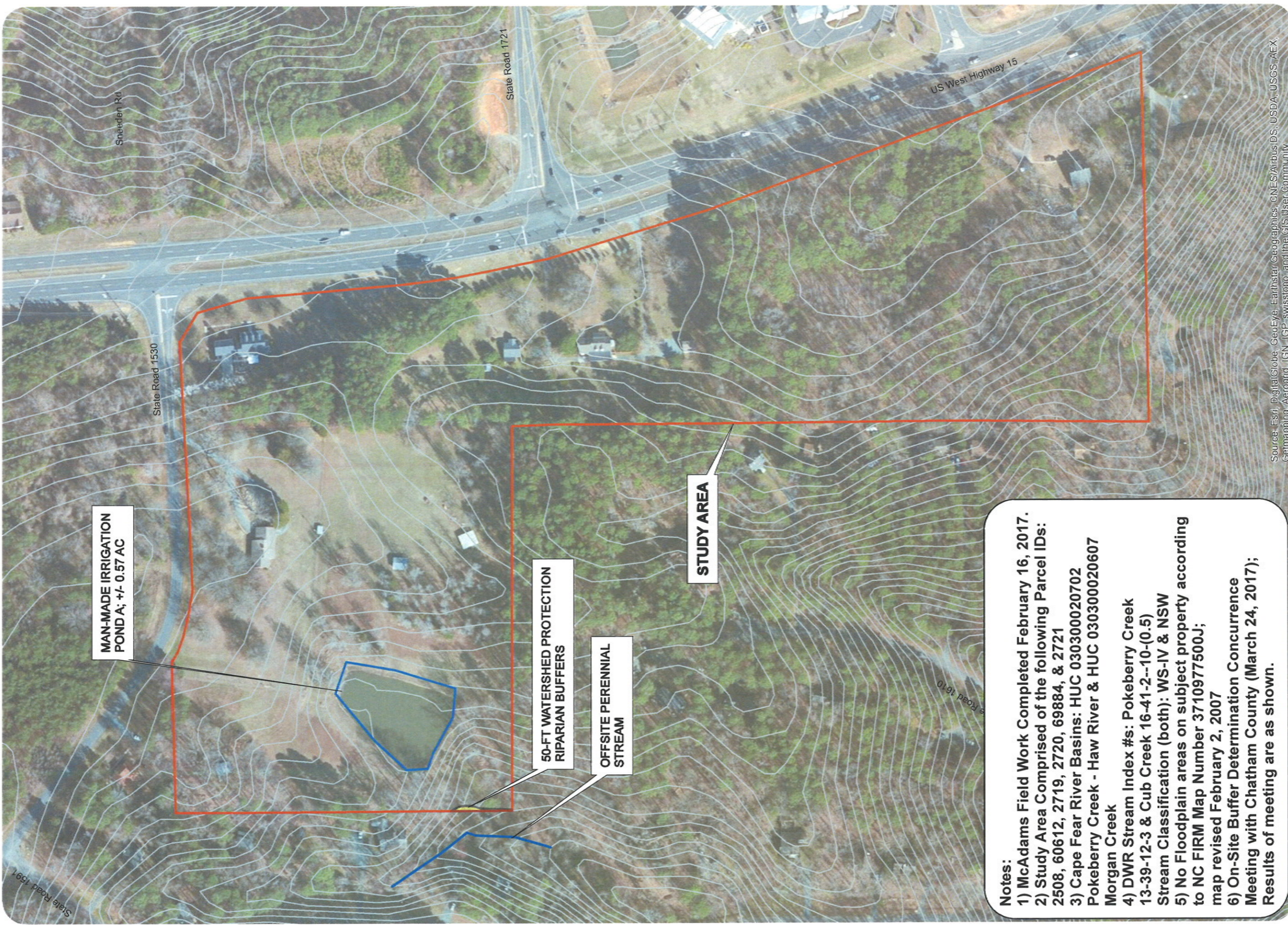


Photo 8: Offsite perennial stream feature located on adjacent properties to the west and south of study area.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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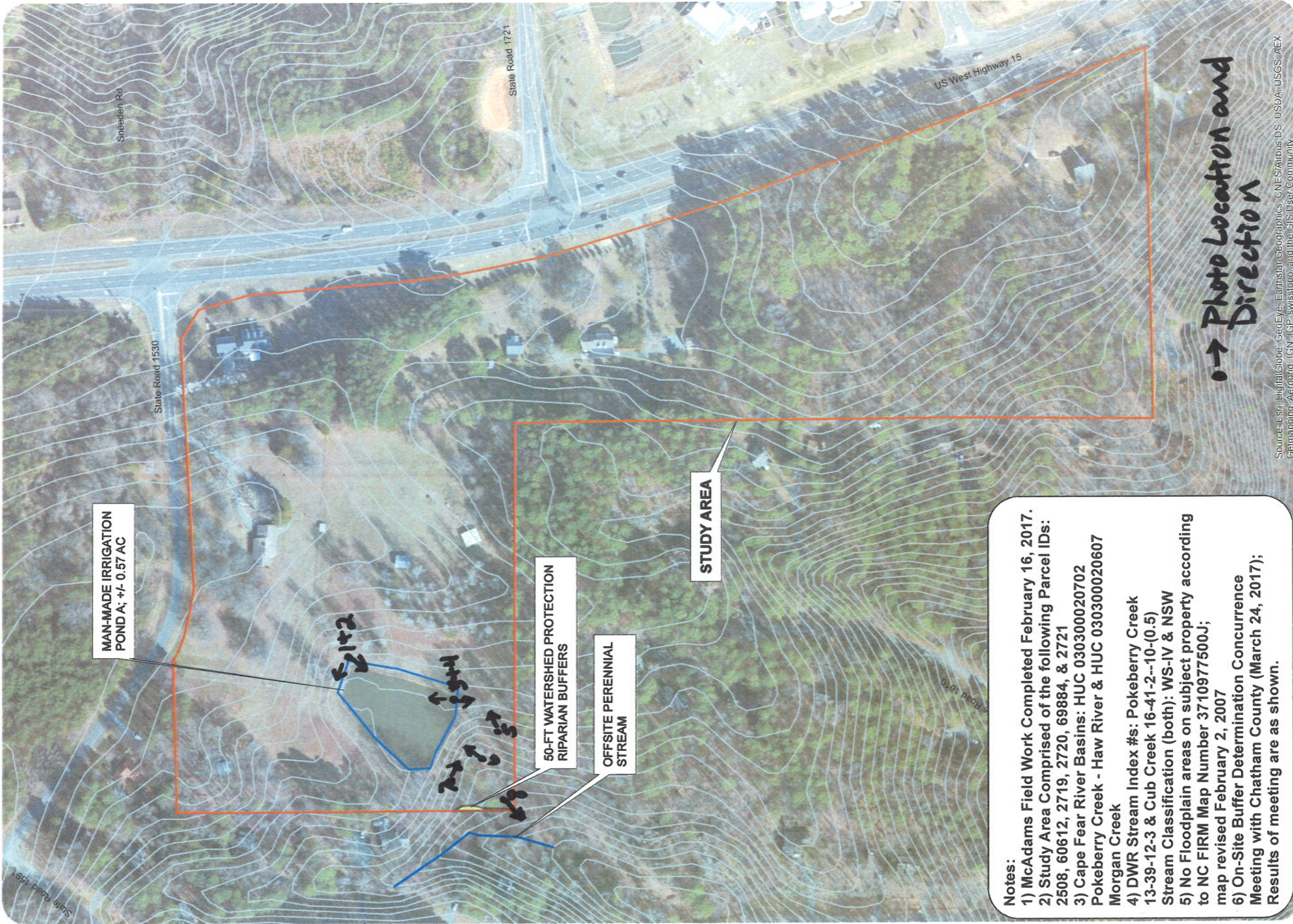
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 6) On-Site Buffer Determination Concurrence Meeting with Chatham County (March 24, 2017);
Results of meeting are as shown.



**CHATHAM COUNTY PUBLIX
 STREAM/WETLAND DELINEATION & BUFFER EXHIBIT
 EXHIBIT H. EXISTING CONDITIONS
 PROJECT #: SPEC-16998
 CHATHAM COUNTY, NORTH CAROLINA**

**Date:
 03/24/2017**





MAN-MADE IRRIGATION POND A; +/- 0.57 AC

50-FT WATERSHED PROTECTION RIPARIAN BUFFERS

OFFSITE PERENNIAL STREAM

STUDY AREA

o → Photo Location and Direction

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