ORANGE WATER AND SEWER AUTHORITY

A public, non-profit agency providing water, sewer and reclaimed water services to the Carrboro-Chapel Hill community.

MEMORANDUM

TO: Natural Resources and Technical Systems Committee
Alan Rimer (Chair)
Mac Clarke
Joy Preslar
William Stott
Randy Kabrick (*ex officio*)

THROUGH: Ed Kerwin

FROM: Mason Crum

DATE: May 17, 2010

SUBJECT: May 20, 2010 NRTS Committee Meeting

The NRTS Committee will meet this Thursday, May 20, 2010, at 8:00 am in the OWASA Boardroom. Main topics will be:

1. **OWASA-Owned Land**. A memorandum, map, and other attachments are provided in support of staff's recommendation that certain properties not essential to OWASA's core mission be declared as surplus and offered for sale or otherwise disposed of.

Committee Action Requested: Authorization to present this information to the full Board of Directors and to seek the Board's approval to (1) declare the "low hanging fruit" properties as surplus, and (2) to consider other appropriate actions on portions of other OWASA-owned properties.

2. **Water Supply Plan Implementation**. Staff believes that the actions necessary to implement – or to put our ourselves in position to implement – the primary recommendations of the recently approved Water Supply Plan to fall into three main areas: (1) a 20-year timeline or "to-do list" of steps needed to implement the Expanded Quarry Reservoir option; (2) trigger tables to guide the future purchases of water when available from Durham/Cary; and (3) maintenance/retention of our current Jordan Lake allocation and the need to assure our access to that allocation through secure and permanent agreements with nearby utilities (such agreements will likely require modifications to the Water and Sewer Management, Planning and Boundary Agreement to which OWASA is a party along with the Towns of Carrboro, Chapel Hill, Hillsborough, and Orange County). A brief staff report is attached.

Committee Action Requested: Information only, no action is requested.

4. **Other Business**

5. **Next Meeting?**

We look forward to seeing you at 8:00 Thursday morning.

Mason Crum, P.E.
Director of Engineering and Planning

Attachments
cc: Board of Directors

OWASA-Owned Land
Natural Resources and Technical Systems Committee Meeting
May 20, 2010

Purpose

The purpose of this memorandum is to (1) provide information about the 3,800 acres of OWASA-owned real estate; (2) recommend that certain parcels be declared as surplus in the near future, and that additional actions be taken on other parcels so that they can be declared surplus at a future date; (3) to begin discussions about additional actions that may be prudent for other OWASA-owned properties where fee simple ownership is not essential to our core mission of providing water, sewer, and reclaimed water services.

Attachments

The following support materials are attached:

- Map of OWASA-Owned Real Estate
- Summary and Criteria for Estimating Resale Potential
- Detailed Listing by Category
- Detailed Listing by Resale Potential
- *Resolution Establishing A Policy to Resell Watershed Land Under Certain Conditions (1997)*
- September 25, 2009 letter to Carrboro regarding Ray Heirs property

Discussion

OWASA owns approximately 3,800 acres of land in fee simple. Except for 125 acres located near Jordan Lake, all properties are located in Orange County and can be characterized as follows:

1. **Properties where fee simple ownership is essential to OWASA's mission of providing water, sewer, and reclaimed water services.** These properties comprise approximately 2,500 acres, or 65% of our total land holdings, and include the locations of treatment and pumping facilities, biosolids storage and land application, water storage tanks, water and wastewater pumping stations, the Cane Creek and Stone Quarry Reservoirs. (University Lake and surrounding land is owned by UNC.) This also includes sites where essential facilities may be needed in the future; e.g., expanded Quarry Reservoir, elevated storage tank north of Carrboro to support the 740-foot pressure zone, booster pump station near the Orange-Chatham County line, potential treatment plant site at Jordan Lake, etc. Staff recommends that OWASA retain these properties in fee simple.

2. **Cane Creek watershed protection properties**. Pursuant to a 1996 Cane Creek watershed study, the OWASA Board of Directors established the goal of protecting 1,265 acres in addition to land already owned by OWASA in the Cane Creek watershed. Since that time, we have acquired in fee simple or protected through restrictive conservation easements 1,011

additional acres, and Orange County has placed conservation easements on three additional parcels in the Cane Creek watershed, effectively protecting another 198 acres – for a total of 1,209 (or 96%) of OWASA's original 1,265-acre goal. Thirteen OWASA properties in the watershed are currently protected by permanent conservation easements dedicated to the State of North Carolina per terms of Clean Water Management Trust Fund (CWMTF) grant agreements. Staff recommends that certain Cane Creek watershed properties be declared as surplus and then sold, provided that appropriate source water protection requirements (stream and shoreline buffers, plus use restrictions) remain attached to those properties in perpetuity. ***In no case shall such transactions result in the net diminution or "back-sliding" of protective measures already achieved in the Cane Creek watershed.***

3. **University Lake watershed protection properties**. A study completed in 2003 indicated that a land acquisition effort similar to that undertaken in the Cane Creek watershed would not likely produce significant water quality benefits to University Lake, primarily due to differences in reservoir storage volumes and retention times. However, the study did suggest that OWASA consider acquiring critical riparian buffer lands, especially those closest to University Lake, on a case-by-case basis. The only OWASA-owned properties in the University Lake watershed are the Stone Quarry site, a small parcel containing the Rangewood Subdivision sewer pump station, and the 74-acre "Ray Heirs" tract, which is protected by stringent buffer and development restrictions through a conservation easement.

   From the September 24, 2009 Board Minutes: *The Board concurred with the Ray Property Task Force's recommendation that a letter be sent to the Town of Carrboro to ask whether the Town is interested in this property and, if not, staff will pursue the sale of the property though an open, competitive process.*

   No response was received from Carrboro's Mayor to a September 25, 2009 letter from the OWASA Board Chair. Staff recommends that we request a written response and then proceed accordingly.

4. **Cane Creek Mitigation Property (Buckhorn Game Land)**. This 490-acre tract in the Cane Creek watershed was acquired pursuant to OWASA's Section 404 Permit from the U.S. Army Corps of Engineers to construct the Cane Creek Dam and Reservoir. The property was intended to mitigate the loss of land due to the reservoir's impoundment that would have otherwise been available for hunting and other wildlife related activities. Through an agreement between OWASA and the North Carolina Wildlife Resources Commission (NCWRC), OWASA retains control of activities on the land, except for a limited archery hunting program, which is managed by the NCWRC. Staff believes that (1) OWASA has already derived all necessary benefit from this land; (2) management of the property (marking the boundaries, responding to property owner complaints, etc.) is an unnecessary drain on limited OWASA resources; and (3) the management of a State Game Land is best handled by agencies with expertise in game land management. Staff recommends that this land be permanently protected through appropriate deed restrictions that will ensure its value for source water protection deed restrictions and offer ownership to another entity, subject to the deed restrictions and 404 Permit requirements, which would remain in effect.

5. **Other properties**. In the mid-1980's OWASA acquired a five-acre tract for possible use as a future elevated storage tank site near NC 15-501 in the Starpoint area of southern Orange County, in the event a southern tank was needed. The expected need at that time was based on inadequate water pressure in the extreme southern portion of the service area and the possibility that water service might be extended further into Chatham County. In 2001, the Town of Chapel Hill contracted the southern boundary of its Urban Services Area, which was then incorporated into the Water and Sewer Management, Planning and Boundary Agreement, to which OWASA is signatory. In February 2006, the most severe pressure problems were resolved when the small number of Booth Road customers in Chatham County were switched over from the OWASA system to Chatham County's. It was then determined that there is no need for a future elevated storage in this area and the project was deleted from the 15-year Capital Improvements Plan in 2006. We expect that determination to be confirmed by the water distribution system model update project now underway. Pending that confirmation, staff recommends that the five-acre Starpoint parcel be declared as surplus and sold.

Policy Considerations

No backsliding on source water protection. As noted above, it is staff's strong recommendation that any resale of Cane Creek or University Lake watershed property results in no net diminution of source water protection already achieved in the watersheds. Any water quality impacts from new residential development enabled by the resale of OWASA property would be mitigated by stringent stream and/or reservoir shoreline buffer requirements, as well as use restrictions, that would run in perpetuity with the property, as specified in appropriate deed restrictions. Existing conservation easements in the watersheds typically require 300-foot undisturbed buffers along tributary streams and the reservoir shoreline. These are significantly more stringent than the requirements of local development regulations. It is staff's expectation that similar restrictions will be attached to any watershed properties that OWASA may offer for sale.

Existing 1997 Policy to Resell Watershed Land Under Certain Conditions (please see attached). A Board resolution adopted in 1997 requires that *"no lands shall be sold by the Authority from those acquired for watershed protection, except after the Board of Directors has satisfied itself and expressly found and determined:*

a) That the parcel proposed for sale was originally acquired by OWASA through voluntary negotiation with a willing seller, rather than through eminent domain; and

b) That continued OWASA ownership of the specific parcel being considered is not necessary to provide for appropriate protection of the water supply; and

c) That adequate and appropriate restrictions are placed in the deed of conveyance and will run with the land in perpetuity in order to assure that no use deleterious to the water supply may be made of the land sold.

The resolution also states that *"All revenues from the resale of property acquired for the purpose of watershed protection shall be reserved for future water supply protection efforts."*

Based on the above, any revenues from the sale of the watershed protection properties would be reserved for the future acquisition of additional source water protection properties (either in fee simple or through conservation easements) on an opportunistic basis.

Other Issues

The OWASA Board sent a letter to the Orange County Board of Commissioners on December 10, 2009 expressing support for the Mountains-to-Sea Trail initiative and allowing the use of OWASA property for portions of the trail, consistent with our mission to provide safe and reliable drinking water. The eventual location of the trail route would need to consider the potential sale of any properties in the vicinity of the Cane Creek Reservoir.

Additionally, any initiative to declare as surplus and sell watershed properties would require appropriate public outreach to ensure that nearby property owners understand the basis and rationale of such a proposal.

Recommendations

Proceed as follows with the six properties identified as "low hanging fruit," which staff believe are not essential to OWASA's long-term utility or land management objectives:

- Ray Heirs tract (PIN 9768 94 5089): Seek a written response to OWASA's September 25, 2009 letter to the Town of Carrboro inquiring about their potential interest this property, and then proceed accordingly.
- Future storage tank site at Starpoint (PIN 9776 79 5817): Declare as surplus and proceed with sale*.
- Perry tract (PIN 9831 64 2850: Declare as surplus and proceed with sale*.
- Meadowcrest subdivision lot (PIN 9830810781: Declare as surplus and proceed with sale.
- Residential lot on north side of Teer Road (PIN 9830 93 8695): Declare as surplus and proceed with sale*.
- Cane Creek Mitigation Tract (PIN 9832 36 7089): Attach appropriate deed restrictions that will ensure continued value for source water protection, and offer ownership to another entity, subject to the deed restrictions and 404 Permit requirements, which would remain in effect.

***** It is assumed that no properties would be offered for sale until currently depressed real estate market conditions have improved.

Next Steps

Conditional upon the Committee's approval, staff would present this information to the full Board of Directors with the recommendations listed above.

OWASA-Owned Real Estate Summary and Criteria

By Category/Use

	Acres
Biosolids	710
Cane Creek Reservoir & Watershed	2,544
Jordan Lake	125
OWASA Facilities	113
Stone Quarry	251
University Lake Watershed Protection	74
Total	**3,817**

By Resale Potential

	Acres
Low-Hanging Fruit	651
Potential Resale, With Restrictions	688
Retain	2,478
Total	**3,817**

Criteria for Estimating Resale Potential

Overall Objectives

- Dispose of property from which all utility-related benefits have been derived, or property is a liability/drain on OWASA resources
- No back-sliding on source water protection achievements
- Generate revenue to protect other watershed properties

"Low-Hanging Fruit"

- Fee simple ownership provides no current or future support of OWASA's core mission; or,
- Property detracts from the capacity to pursue core mission
- All utility-related benefits, including source water protection, have been derived; or, such benefits will be maintained through existing CWMTF conservation easements
- Development remains feasible under existing easement restrictions*
- Property has direct access to public road

Potential Resale, With Restrictions

- May provide some ancillary benefit, but not needed to support OWASA's core mission
- Adequate source water protection measures (permanent buffers and use restrictions) may already be in place through existing CWMTF conservation easements on some parcels; other properties may require new restrictions to meet source water protection objectives
- Development appears to be feasible under existing or potential easement restrictions*
- Access to public road is available via direct frontage or via other OWASA-owned property/access easements in some cases; in other cases, access may have to be provided by splitting/recombining nearby OWASA properties

Parcels to Be Retained

- Needed to support current or future utility mission; e.g., biosolids land application, elevated storage tanks, pump stations, or other water/sewer facilities; or,
- More than 75% of the parcel is located within 300-foot stream or shoreline buffer; or,
- Public road access is precluded by existing CWMTF easement restrictions or other limitations

* *No determination has been made regarding the property's suitability for onsite septic systems or other potential constraints*

RESOLUTION ESTABLISHING POLICY TO RESELL WATERSHED LAND UNDER CERTAIN CONDITIONS

WHEREAS, one of the high priority recommendations for protecting the long-term water quality of the Cane Creek Reservoir is permanent preservation of undeveloped open space; and

WHEREAS, Orange Water and Sewer Authority has acquired title to, and intends to acquire title to, additional lands within the University Lake and Cane Creek watersheds for the purpose of protecting these primary supply sources; and

WHEREAS, it has historically been the practice of Orange Water and Sewer Authority to use voluntary negotiation to acquire land or partial interest in land for watershed protection purposes; and

WHEREAS, the Board of Directors has determined to its satisfaction that water quality protection may be assured by placing additional development restrictions on some of those lands, and by making them available for acquisition and use subject to such restrictions.

NOW, THEREFORE, be it resolved by the Board of Directors:

1. It shall be the policy of Orange Water and Sewer Authority to use voluntary negotiation with willing sellers to acquire land or partial interest in land for watershed protection purposes.

2. The Executive Director may recommend to the Board of Directors that lands acquired by the Authority for the protection of the University Lake or Cane Creek water supply watersheds be offered for sale to the public, subject to such permanent restrictions as will afford certain protection assuring the quality of those watersheds as public supply sources.

3. No lands shall be sold by the Authority from those acquired for watershed protection, except after the Board of Directors has satisfied itself and expressly found and determined:

   a. That the parcel proposed for sale was originally acquired by OWASA through voluntary negotiation with a willing seller, rather than through eminent domain; and

   b. That continued OWASA ownership of the specific parcel being considered is not necessary to provide for appropriate protection of the water supply; and

   c. That adequate and appropriate restrictions are placed in the deed of conveyance and will run with the land in perpetuity in order to assure that no use deleterious to the water supply may be made of the land sold.

4. If the Board of Directors determines to offer for resale, within one year after its acquisition, any parcel acquired for the purpose of watershed protection, OWASA shall first provide a 30-day written notice to the party (or parties) from whom it was originally acquired before listing that property for sale .

5. All revenues from the resale of property acquired for the purpose of watershed protection shall be reserved for future water supply protection efforts.

Adopted this 23rd day of October, 1997.

Barry Jacobs, Chairman

ATTEST:

Frank de Monchaux, Secretary-Treasurer

ORANGE WATER AND SEWER AUTHORITY

A public, non-profit agency providing water, sewer and reclaimed water services to the Carrboro-Chapel Hill community.

September 25, 2009

Mayor Mark Chilton
Town of Carrboro
301 West Main Street
Carrboro, NC 27510

SUBJECT: OWASA PROPERTY ADJACENT TO UNIVERSITY LAKE

Dear Mayor Chilton:

The OWASA Board would like to know if the Town of Carrboro is interested in purchasing the OWASA-owned land adjacent to Morgan Creek and University Lake that we purchased previously with the sole intent of protecting certain watershed areas in close proximity to University Lake (please see attached map).

In September 2006, OWASA purchased about 73 acres of land adjacent to Morgan Creek and University Lake for watershed protection purposes.

The land was purchased for $2.2 million and OWASA received a Clean Water Management Trust Fund grant of about $1 million towards the purchase.

An important element of the agreements surrounding this purchase was OWASA's dedication of a permanent conservation easement to the State of North Carolina. The conditions of this conservation easement are permanent and the rights and limitations outlined in that conservation easement will remain in effect, in perpetuity, regardless of who owns the property.

The primary rights and limitations of the permanent conservation easement include:

- The property may be subdivided in up to four developable residential tracts, but no development may occur within the 300-foot riparian buffers, except for septic system drainfields that may be extended no closer than 200 feet from the University Lake shoreline or from any tributary stream.

- None of the four development lots may be smaller than five acres in size, and no more than four percent of the Upland Area portion of each lot may be covered with impervious surfaces.

- The property may not be used for any industrial, commercial, agricultural, or horticultural purposes, nor may any dredging or mineral excavation occur. Trees and other natural features may not be disturbed, except for prescribed removal of damaged or diseased trees, etc.

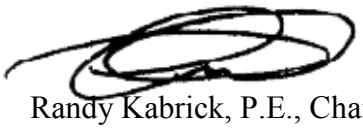
- ***The property may be used for passive recreational activities, including public use and access, hiking/greenway trails, construction of up to one observational platform or viewing deck, and up to two pedestrian foot bridges.***

We have decided to declare this property as surplus and sell it because we have fully achieved our water quality protection objectives, there is no compelling reason to retain ownership as part of OWASA's core mission of providing water, sewer and reclaimed water services for our customers, and because the funds generated by its sale will help offset future rate increases for our customers.

As you may recall, on November 21, 2006, we presented the Board of Aldermen information regarding this matter. At that time, the Board noted that financial considerations prevented the Town from pursuing purchase of the property. Although recent informal communication between our Executive Director, Ed Kerwin, and the Town Manager, Steve Stewart, indicate that your situation has likely not changed, because of the uniqueness of the property and its proximity to Town we want to make sure that we are fully exploring every opportunity for selling the property so that it is available for public use prior to pursing sale of the property through an open, competitive process.

As you desire, we would certainly appreciate an opportunity to present the details surrounding this piece of property at an upcoming Board of Aldermen meeting.

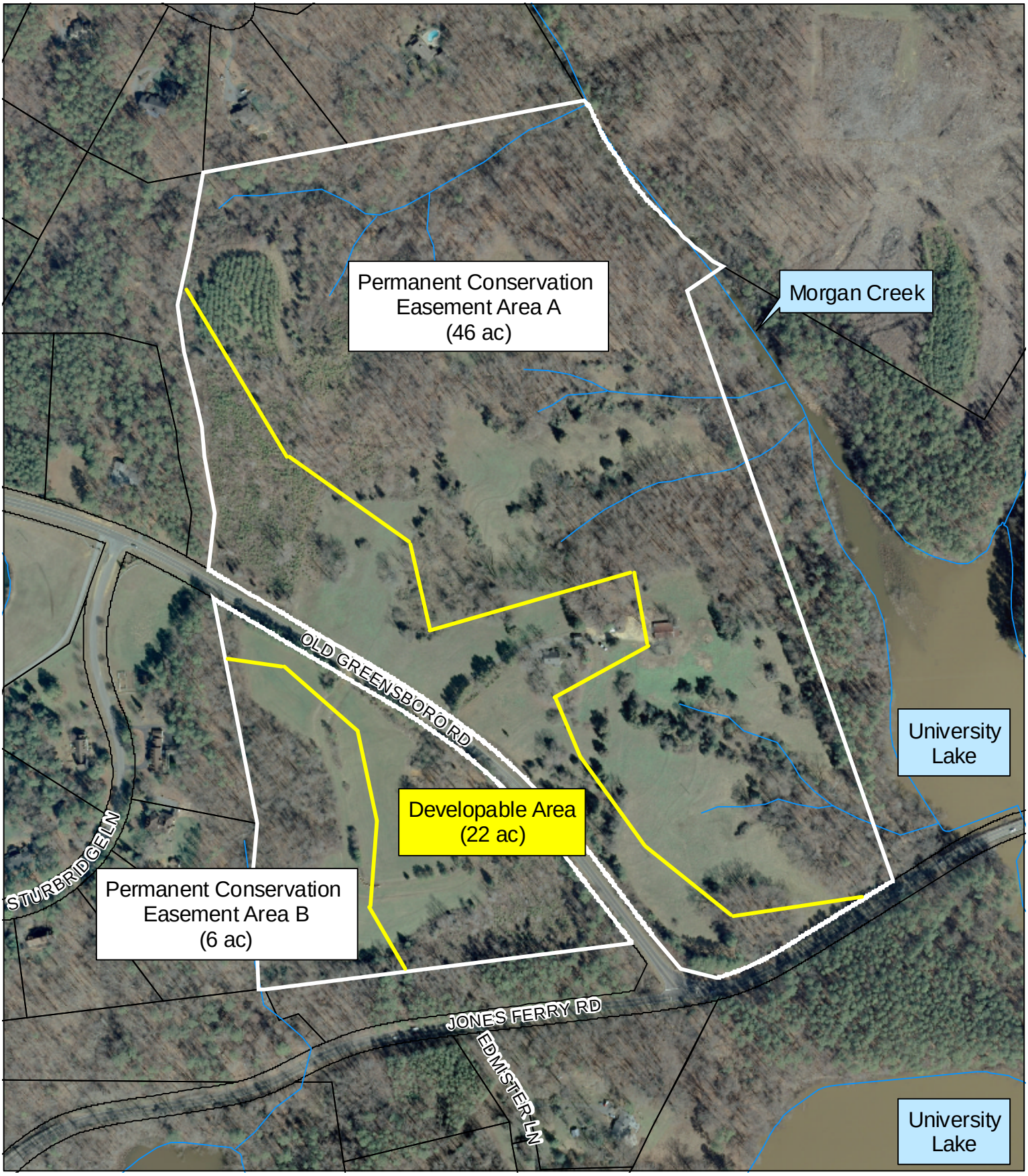
Best regards,



Randy Kabrick, P.E., Chair
OWASA Board of Directors

Attachment
c: Mr. Steve Stewart, Carrboro Town Manager
OWASA Board of Directors
Ed Kerwin, OWASA Executive Director

OWASA University Lake Conservation Tract



N

0 250 500 Feet

OWASA

Date: 9/25/09

OWASA-Owned Real Estate -- Detailed Listing By Category

PIN	Assessed Acres	Category/Use	Resale Potential	CC/UL Watershed	CWMTF Cons Easement	Comments
9739690792	90.0	Biosolids	Retain	No	No	
9739746567	3.4	Biosolids	Retain	No	No	
9739763446	19.2	Biosolids	Retain	No	No	
9739843759	42.9	Biosolids	Retain	No	No	
9739856736	4.0	Biosolids	Retain	No	No	
9739858635	3.0	Biosolids	Retain	No	No	
9739864820	59.6	Biosolids	Retain	No	No	
9739890784	13.5	Biosolids	Retain	No	No	
9739895539	10.6	Biosolids	Retain	No	No	
9739957200	84.6	Biosolids	Retain	No	No	
9739980025	102.1	Biosolids	Retain	No	No	
9739990682	10.1	Biosolids	Retain	No	No	
9739995569	10.4	Biosolids	Retain	No	No	
9749090631	10.2	Biosolids	Retain	No	No	
9749093682	10.2	Biosolids	Retain	No	No	
9749096856	10.0	Biosolids	Retain	No	No	
9749140360	56.8	Biosolids	Retain	No	No	
9830709294	12.0	Biosolids	Retain	No	No	Meadowcrest lot
9830800714	10.4	Biosolids	Retain	No	No	Meadowcrest lot
9830819048	10.1	Biosolids	Retain	No	No	Meadowcrest lot
9830901439	15.0	Biosolids	Retain	No	No	Meadowcrest lot
9830908625	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9830919140	10.2	Biosolids	Retain	No	No	Meadowcrest lot
9830919565	10.3	Biosolids	Retain	No	No	Meadowcrest lot
9840000294	10.3	Biosolids	Retain	No	No	Meadowcrest (road)
9840007305	10.1	Biosolids	Retain	No	No	Meadowcrest lot
9840010975	10.2	Biosolids	Retain	No	No	Meadowcrest lot
9840018362	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9840024123	10.2	Biosolids	Retain	No	No	Meadowcrest lot
9840100719	10.1	Biosolids	Retain	No	No	Meadowcrest lot
9840113398	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9840120175	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9840128118	10.7	Biosolids	Retain	No	No	Meadowcrest lot
TOTAL ACRES	**710**	**BIOSOLIDS**				
9830810781	10	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	Meadowcrest lot
9830938695	13.3	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	North Side of Teer Road
9831642850	59.4	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	Perry Tract
9832367089	490.1	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	Cane Creek Mitigation Tract (Buckhorn Game Land)
9830056387	25.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Lindsay Tapp property
9830064000	20.8	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Robert New property
9830378077	9.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Cane Creek Subdivision Lot
9830380311	128.0	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Mt. Mitchell Road property (Snipes?)
9830433699	26.6	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	William Teer tract adjacent to Loretta Hilliard
9830498570	13.5	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Smith tract, CWMTF conservation easement in place
9830520751	43.7	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Loretta Hilliard tract (two pieces)
9830579818	13.2	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Cane Creek Subdivision Lot
9830670167	17.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Cane Creek Subdivision Lot
9830829481	10.2	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Meadowcrest lot
9830832373	11.1	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830836310	11.5	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830838619	10.4	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830851732	77.6	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Patricia Love + Gerringer tracts, CWMTF easement on Gerringer
9830868594	11.1	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Wagoner Tract, CWMTF easement in place
9830884257	50.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Willaim Cheek Tract, CWMTF easement in place
9830910918	10.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Meadowcrest lot

9830931654	10.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830968897	18.5	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	William Teer (east), CWMTF easement in place
9831805832	129.6	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Noblin Tract
9840270872	30.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Miller-Cheek Tract, CWMTF easement in place
9840279290	6.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Miller-Cheek Tract, CWMTF easement in place
9729692866	1.9	CC Reservoir & Watershed	Retain	No	No	
9729792669	11.5	CC Reservoir & Watershed	Retain	No	No	
9729793046	13.2	CC Reservoir & Watershed	Retain	No	No	
9729890610	50.9	CC Reservoir & Watershed	Retain	No	No	
9820452663	20.8	CC Reservoir & Watershed	Retain	CCR	Yes	Spencie Love Tract, development precluded by CWMTF easement restrict
9820468419	55.2	CC Reservoir & Watershed	Retain	CCR	Yes	Carmichael-Jones Tract, development precluded by CWMTF easement restrict
9820553841	0.6	CC Reservoir & Watershed	Retain	CCR	No	
9820554656	1.2	CC Reservoir & Watershed	Retain	CCR	No	
9820556786	0.4	CC Reservoir & Watershed	Retain	CCR	No	
9820645231	10.1	CC Reservoir & Watershed	Retain	CCR	No	
9820658054	19.3	CC Reservoir & Watershed	Retain	CCR	No	
9820661616	17.8	CC Reservoir & Watershed	Retain	CCR	No	
9820668402	61.1	CC Reservoir & Watershed	Retain	CCR	No	
9820706608	49.7	CC Reservoir & Watershed	Retain	CCR	No	
9820726644	32.9	CC Reservoir & Watershed	Retain	CCR	No	
9820744033	19.0	CC Reservoir & Watershed	Retain	CCR	No	
9820850356	27.3	CC Reservoir & Watershed	Retain	CCR	No	
9820926228	132.2	CC Reservoir & Watershed	Retain	CCR	No	
9820934716	62.4	CC Reservoir & Watershed	Retain	CCR	No	
9830048441	2.0	CC Reservoir & Watershed	Retain	CCR	No	
9830063817	9.0	CC Reservoir & Watershed	Retain	CCR	No	
9830066404	15.1	CC Reservoir & Watershed	Retain	CCR	No	
9830073116	1.4	CC Reservoir & Watershed	Retain	CCR	No	
9830074313	4.2	CC Reservoir & Watershed	Retain	CCR	No	
9830119817	5.2	CC Reservoir & Watershed	Retain	CCR	No	
9830127022	1.2	CC Reservoir & Watershed	Retain	CCR	No	
9830163928	8.8	CC Reservoir & Watershed	Retain	CCR	No	
9830165400	1.5	CC Reservoir & Watershed	Retain	CCR	No	
9830167592	2.2	CC Reservoir & Watershed	Retain	CCR	No	
9830175313	39.5	CC Reservoir & Watershed	Retain	CCR	No	
9830234541	70.9	CC Reservoir & Watershed	Retain	CCR	No	
9830247340	17.4	CC Reservoir & Watershed	Retain	CCR	No	
9830252373	109.1	CC Reservoir & Watershed	Retain	CCR	No	
9830266790	22.4	CC Reservoir & Watershed	Retain	CCR	No	
9830272529	8.5	CC Reservoir & Watershed	Retain	CCR	No	
9830337847	1.5	CC Reservoir & Watershed	Retain	CCR	No	
9830450819	4.8	CC Reservoir & Watershed	Retain	CCR	No	
9830456744	4.1	CC Reservoir & Watershed	Retain	CCR	No	
9830460477	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9830461419	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9830468664	0.3	CC Reservoir & Watershed	Retain	CCR	No	
9830469660	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9830471093	0.7	CC Reservoir & Watershed	Retain	CCR	No	
9830474179	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9830477523	0.5	CC Reservoir & Watershed	Retain	CCR	No	
9830488271	1.4	CC Reservoir & Watershed	Retain	CCR	No	
9830534912	0.2	CC Reservoir & Watershed	Retain	CCR	No	
9830542968	45.7	CC Reservoir & Watershed	Retain	CCR	No	
9830552774	4.1	CC Reservoir & Watershed	Retain	CCR	No	
9830565130	10.0	CC Reservoir & Watershed	Retain	CCR	No	
9830568484	10.0	CC Reservoir & Watershed	Retain	CCR	No	
9830575320	0.9	CC Reservoir & Watershed	Retain	CCR	No	
9830580246	0.7	CC Reservoir & Watershed	Retain	CCR	No	
9830661687	2.2	CC Reservoir & Watershed	Retain	CCR	No	
9830673284	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9830673611	0.5	CC Reservoir & Watershed	Retain	CCR	No	

9830673771	0.3	CC Reservoir & Watershed	Retain	CCR	No	
9830676236	4.6	CC Reservoir & Watershed	Retain	CCR	No	
9830688447	17.5	CC Reservoir & Watershed	Retain	CCR	No	
9830691327	80.4	CC Reservoir & Watershed	Retain	CCR	Yes	Dean Heirs, currently subject to D/T, potential CWMTF easement
9830735902	1.6	CC Reservoir & Watershed	Retain	CCR	No	
9830736779	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9830738457	18.5	CC Reservoir & Watershed	Retain	CCR	Yes	William Teer (west), CWMTF easement in place
9830744231	1.6	CC Reservoir & Watershed	Retain	CCR	No	
9830763305	30.3	CC Reservoir & Watershed	Retain	CCR	No	
9830763916	22.1	CC Reservoir & Watershed	Retain	CCR	No	
9830766848	1.5	CC Reservoir & Watershed	Retain	CCR	No	
9830774524	15.1	CC Reservoir & Watershed	Retain	CCR	No	
9830797212	9.5	CC Reservoir & Watershed	Retain	CCR	No	
9830896259	24.1	CC Reservoir & Watershed	Retain	CCR	No	
9830979617	2.2	CC Reservoir & Watershed	Retain	CCR	No	
9831100088	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9831624114	2.3	CC Reservoir & Watershed	Retain	CCR	No	
9831837653	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9831908355	35.5	CC Reservoir & Watershed	Retain	CCR	No	
9831924527	13.3	CC Reservoir & Watershed	Retain	CCR	No	
9840073754	0.2	CC Reservoir & Watershed	Retain	CCR	No	
9840079933	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9840285444	1.0	CC Reservoir & Watershed	Retain	CCR	No	
9841011912	2.7	CC Reservoir & Watershed	Retain	CCR	No	
TOTAL ACRES	**2,544**	**CC RESERVOIR & WATERSHED**				
9781135946	3.7	Jordan Lake	Retain	No	No	Chatham County
9781155760	87.7	Jordan Lake	Retain	No	No	Chatham County
9781240777	34	Jordan Lake	Retain	No	No	Chatham County
TOTAL ACRES	**125**	**JORDAN LAKE**				
9776795817	5.1	OWASA Facilities, Future Storage Tank Site	Low Hanging Fruit	No	No	Future Starpoint Storage Tank Site, No longer Needed
9860632176	17.6	OWASA Facilities, Future Storage Tank Site	Retain	No	No	NC 86 North, 740-ft pressure zone
9779816067	1.7	OWASA Facilities, Other	Retain	No	No	Estes Drive out-parcel, not marketable
9769947945	0.9	OWASA Facilities, PW Booster Pump	Retain	No	No	Calvander
9873051814	1.0	OWASA Facilities, PW Booster Pump	Retain	No	No	Hillsborough Pump Station
9776693970	0.8	OWASA Facilities, PW Booster Pump, Future	Retain	UL	No	Future Smith Level Road Booster Pump Station
9779033547	0.6	OWASA Facilities, Water Storage Tank	Retain	No	No	Carrboro Tank
9788131576	17.1	OWASA Facilities, Water Storage Tank	Retain	No	No	Hilltop Tank
9880526223	26.3	OWASA Facilities, Water Storage Tank	Retain	No	No	Nunn Mountain
9778567034	1.0	OWASA Facilities, WTP	Retain	No	No	Water Treatment Plant, Glosson Ct Lot
9778662060	14.2	OWASA Facilities, WTP	Retain	No	No	Water Treatment Plant
9769202370	0.4	OWASA Facilities, WW Pump Station	Retain	UL	No	Rangewood
9799401199	2.4	OWASA Facilities, WW Pump Station	Retain	No	No	Rogerson Drive
9798213071	23.4	OWASA Facilities, WWTP	Retain	No	No	Mason Farm WWTP
TOTAL ACRES	**113**	**OWASA FACILITIES**				
9759426509	0.9	Stone Quarry	Retain	UL	No	
9759544146	112.5	Stone Quarry	Retain	UL	No	
9759620999	67.2	Stone Quarry	Retain	UL	No	
9759639918	12.0	Stone Quarry	Retain	UL	No	
9759738747	58.8	Stone Quarry	Retain	UL	No	
TOTAL ACRES	**251**	**STONE QUARRY**				
9768945089	73.5	UL Watershed Protection	Low Hanging Fruit	UL	Yes	Ray Heirs Tract, CWMTF conservation easement in place
TOTAL ACRES	**74**	**UL Watershed Protection**				
	3817.0					

OWASA-Owned Real Estate -- Detailed Listing By Resale Potential

PIN	Assessed Acres	Category/Use	Resale Potential	CC/UL Watershed	CWMTF Cons Easement	Comments
9830810781	10	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	Meadowcrest lot
9830938695	13.3	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	North Side of Teer Road
9831642850	59.4	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	Perry Tract
9832367089	490.1	CC Reservoir & Watershed	Low Hanging Fruit	CCR	No	Cane Creek Mitigation Tract (Buckhorn Game Land)
9776795817	5.1	OWASA Facilities, Future Storage Tank Site	Low Hanging Fruit	No	No	Future Starpoint Storage Tank Site, No longer Needed
9768945089	73.5	UL Watershed Protection	Low Hanging Fruit	UL	Yes	Ray Heirs Tract, CWMTF conservation easement in place
TOTAL ACRES	**651**		**LOW-HANGING FRUIT**			
9830056387	25.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Lindsay Tapp property
9830064000	20.8	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Robert New property
9830378077	9.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Cane Creek Subdivision Lot
9830380311	128.0	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Mt. Mitchell Road property (Snipes?)
9830433699	26.6	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	William Teer tract adjacent to Loretta Hilliard
9830498570	13.5	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Smith tract, CWMTF conservation easement in place
9830520751	43.7	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Loretta Hilliard tract (two pieces)
9830579818	13.2	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Cane Creek Subdivision Lot
9830670167	17.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Cane Creek Subdivision Lot
9830829481	10.2	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Meadowcrest lot
9830832373	11.1	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830836310	11.5	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830838619	10.4	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830851732	77.6	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Patricia Love + Gerringer tracts, CWMTF easement on Gerringer
9830868594	11.1	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Wagoner Tract, CWMTF easement in place
9830884257	50.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Willaim Cheek Tract, CWMTF easement in place
9830910918	10.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Meadowcrest lot
9830931654	10.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	North Side of Teer Road
9830968897	18.5	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	William Teer (east), CWMTF easement in place
9831805832	129.6	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	No	Noblin Tract
9840270872	30.3	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Miller-Cheek Tract, CWMTF easement in place
9840279290	6.9	CC Reservoir & Watershed	Potential Resale, With Restrictions	CCR	Yes	Miller-Cheek Tract, CWMTF easement in place
TOTAL ACRES	**688**		**POTENTIAL RESALE**			
9739690792	90.0	Biosolids	Retain	No	No	
9739746567	3.4	Biosolids	Retain	No	No	
9739763446	19.2	Biosolids	Retain	No	No	
9739843759	42.9	Biosolids	Retain	No	No	
9739856736	4.0	Biosolids	Retain	No	No	
9739858635	3.0	Biosolids	Retain	No	No	
9739864820	59.6	Biosolids	Retain	No	No	
9739890784	13.5	Biosolids	Retain	No	No	
9739895539	10.6	Biosolids	Retain	No	No	
9739957200	84.6	Biosolids	Retain	No	No	
9739980025	102.1	Biosolids	Retain	No	No	
9739990682	10.1	Biosolids	Retain	No	No	
9739995569	10.4	Biosolids	Retain	No	No	
9749090631	10.2	Biosolids	Retain	No	No	
9749093682	10.2	Biosolids	Retain	No	No	
9749096856	10.0	Biosolids	Retain	No	No	
9749140360	56.8	Biosolids	Retain	No	No	
9830709294	12.0	Biosolids	Retain	No	No	Meadowcrest lot
9830800714	10.4	Biosolids	Retain	No	No	Meadowcrest lot
9830819048	10.1	Biosolids	Retain	No	No	Meadowcrest lot
9830901439	15.0	Biosolids	Retain	No	No	Meadowcrest lot
9830908625	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9830919140	10.2	Biosolids	Retain	No	No	Meadowcrest lot
9830919565	10.3	Biosolids	Retain	No	No	Meadowcrest lot

9840000294	10.3	Biosolids	Retain	No	No	Meadowcrest (road)
9840007305	10.1	Biosolids	Retain	No	No	Meadowcrest lot
9840010975	10.2	Biosolids	Retain	No	No	Meadowcrest lot
9840018362	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9840024123	10.2	Biosolids	Retain	No	No	Meadowcrest lot
9840100719	10.1	Biosolids	Retain	No	No	Meadowcrest lot
9840113398	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9840120175	10.0	Biosolids	Retain	No	No	Meadowcrest lot
9840128118	10.7	Biosolids	Retain	No	No	Meadowcrest lot
9729692866	1.9	CC Reservoir & Watershed	Retain	No	No	
9729792669	11.5	CC Reservoir & Watershed	Retain	No	No	
9729793046	13.2	CC Reservoir & Watershed	Retain	No	No	
9729890610	50.9	CC Reservoir & Watershed	Retain	No	No	
9820452663	20.8	CC Reservoir & Watershed	Retain	CCR	Yes	Spencie Love Tract, development precluded by CWMTF easement restrict
9820468419	55.2	CC Reservoir & Watershed	Retain	CCR	Yes	Carmichael-Jones Tract, development precluded by CWMTF easement restrict
9820553841	0.6	CC Reservoir & Watershed	Retain	CCR	No	
9820554656	1.2	CC Reservoir & Watershed	Retain	CCR	No	
9820556786	0.4	CC Reservoir & Watershed	Retain	CCR	No	
9820645231	10.1	CC Reservoir & Watershed	Retain	CCR	No	
9820658054	19.3	CC Reservoir & Watershed	Retain	CCR	No	
9820661616	17.8	CC Reservoir & Watershed	Retain	CCR	No	
9820668402	61.1	CC Reservoir & Watershed	Retain	CCR	No	
9820706608	49.7	CC Reservoir & Watershed	Retain	CCR	No	
9820726644	32.9	CC Reservoir & Watershed	Retain	CCR	No	
9820744033	19.0	CC Reservoir & Watershed	Retain	CCR	No	
9820850356	27.3	CC Reservoir & Watershed	Retain	CCR	No	
9820926228	132.2	CC Reservoir & Watershed	Retain	CCR	No	
9820934716	62.4	CC Reservoir & Watershed	Retain	CCR	No	
9830048441	2.0	CC Reservoir & Watershed	Retain	CCR	No	
9830063817	9.0	CC Reservoir & Watershed	Retain	CCR	No	
9830066404	15.1	CC Reservoir & Watershed	Retain	CCR	No	
9830073116	1.4	CC Reservoir & Watershed	Retain	CCR	No	
9830074313	4.2	CC Reservoir & Watershed	Retain	CCR	No	
9830119817	5.2	CC Reservoir & Watershed	Retain	CCR	No	
9830127022	1.2	CC Reservoir & Watershed	Retain	CCR	No	
9830163928	8.8	CC Reservoir & Watershed	Retain	CCR	No	
9830165400	1.5	CC Reservoir & Watershed	Retain	CCR	No	
9830167592	2.2	CC Reservoir & Watershed	Retain	CCR	No	
9830175313	39.5	CC Reservoir & Watershed	Retain	CCR	No	
9830234541	70.9	CC Reservoir & Watershed	Retain	CCR	No	
9830247340	17.4	CC Reservoir & Watershed	Retain	CCR	No	
9830252373	109.1	CC Reservoir & Watershed	Retain	CCR	No	
9830266790	22.4	CC Reservoir & Watershed	Retain	CCR	No	
9830272529	8.5	CC Reservoir & Watershed	Retain	CCR	No	
9830337847	1.5	CC Reservoir & Watershed	Retain	CCR	No	
9830450819	4.8	CC Reservoir & Watershed	Retain	CCR	No	
9830456744	4.1	CC Reservoir & Watershed	Retain	CCR	No	
9830460477	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9830461419	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9830468664	0.3	CC Reservoir & Watershed	Retain	CCR	No	
9830469660	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9830471093	0.7	CC Reservoir & Watershed	Retain	CCR	No	
9830474179	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9830477523	0.5	CC Reservoir & Watershed	Retain	CCR	No	
9830488271	1.4	CC Reservoir & Watershed	Retain	CCR	No	
9830534912	0.2	CC Reservoir & Watershed	Retain	CCR	No	
9830542968	45.7	CC Reservoir & Watershed	Retain	CCR	No	
9830552774	4.1	CC Reservoir & Watershed	Retain	CCR	No	
9830565130	10.0	CC Reservoir & Watershed	Retain	CCR	No	
9830568484	10.0	CC Reservoir & Watershed	Retain	CCR	No	
9830575320	0.9	CC Reservoir & Watershed	Retain	CCR	No	

9830580246	0.7	CC Reservoir & Watershed	Retain	CCR	No	
9830661687	2.2	CC Reservoir & Watershed	Retain	CCR	No	
9830673284	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9830673611	0.5	CC Reservoir & Watershed	Retain	CCR	No	
9830673771	0.3	CC Reservoir & Watershed	Retain	CCR	No	
9830676236	4.6	CC Reservoir & Watershed	Retain	CCR	No	
9830688447	17.5	CC Reservoir & Watershed	Retain	CCR	No	
9830691327	80.4	CC Reservoir & Watershed	Retain	CCR	Yes	Dean Heirs, currently subject to D/T, potential CWMTF easement
9830735902	1.6	CC Reservoir & Watershed	Retain	CCR	No	
9830736779	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9830738457	18.5	CC Reservoir & Watershed	Retain	CCR	Yes	William Teer (west), CWMTF easement in place
9830744231	1.6	CC Reservoir & Watershed	Retain	CCR	No	
9830763305	30.3	CC Reservoir & Watershed	Retain	CCR	No	
9830763916	22.1	CC Reservoir & Watershed	Retain	CCR	No	
9830766848	1.5	CC Reservoir & Watershed	Retain	CCR	No	
9830774524	15.1	CC Reservoir & Watershed	Retain	CCR	No	
9830797212	9.5	CC Reservoir & Watershed	Retain	CCR	No	
9830896259	24.1	CC Reservoir & Watershed	Retain	CCR	No	
9830979617	2.2	CC Reservoir & Watershed	Retain	CCR	No	
9831100088	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9831624114	2.3	CC Reservoir & Watershed	Retain	CCR	No	
9831837653	0.1	CC Reservoir & Watershed	Retain	CCR	No	
9831908355	35.5	CC Reservoir & Watershed	Retain	CCR	No	
9831924527	13.3	CC Reservoir & Watershed	Retain	CCR	No	
9840073754	0.2	CC Reservoir & Watershed	Retain	CCR	No	
9840079933	1.1	CC Reservoir & Watershed	Retain	CCR	No	
9840285444	1.0	CC Reservoir & Watershed	Retain	CCR	No	
9841011912	2.7	CC Reservoir & Watershed	Retain	CCR	No	
9781135946	3.7	Jordan Lake	Retain	No	No	Chatham County
9781155760	87.7	Jordan Lake	Retain	No	No	Chatham County
9781240777	34	Jordan Lake	Retain	No	No	Chatham County
9860632176	17.6	OWASA Facilities, Future Storage Tank Site	Retain	No	No	NC 86 North, 740-ft pressure zone
9779816067	1.7	OWASA Facilities, Other	Retain	No	No	Estes Drive out-parcel, not marketable
9769947945	0.9	OWASA Facilities, PW Booster Pump	Retain	No	No	Calvander
9873051814	1.0	OWASA Facilities, PW Booster Pump	Retain	No	No	Hillsborough Pump Station
9776693970	0.8	OWASA Facilities, PW Booster Pump, Future	Retain	UL	No	Future Smith Level Road Booster Pump Station
9779033547	0.6	OWASA Facilities, Water Storage Tank	Retain	No	No	Carrboro Tank
9788131576	17.1	OWASA Facilities, Water Storage Tank	Retain	No	No	Hilltop Tank
9880526223	26.3	OWASA Facilities, Water Storage Tank	Retain	No	No	Nunn Mountain
9778567034	1.0	OWASA Facilities, WTP	Retain	No	No	Water Treatment Plant, Glosson Ct Lot
9778662060	14.2	OWASA Facilities, WTP	Retain	No	No	Water Treatment Plant
9769202370	0.4	OWASA Facilities, WW Pump Station	Retain	UL	No	Rangewood
9799401199	2.4	OWASA Facilities, WW Pump Station	Retain	No	No	Rogerson Drive
9798213071	23.4	OWASA Facilities, WWTP	Retain	No	No	Mason Farm WWTP
9759426509	0.9	Stone Quarry	Retain	UL	No	
9759544146	112.5	Stone Quarry	Retain	UL	No	
9759620999	67.2	Stone Quarry	Retain	UL	No	
9759639918	12.0	Stone Quarry	Retain	UL	No	
9759738747	58.8	Stone Quarry	Retain	UL	No	
TOTAL ACRES	**2,478**		**RETAIN**			
	3817.0					

Implementing the Long-Range Water Supply Plan
Natural Resources and Technical Systems Committee Meeting
May 20, 2010

Purpose

This memorandum outlines staff's proposed approach for implementing the major recommendations of OWASA's recently adopted Long-Range Water Supply Plan. A brief outline of suggested actions is provided below:

1. **Expanded Quarry Reservoir.** Hazen and Sawyer Engineers has been retained to develop a 20-year decision tree or systematic "to-do list" of actions, including additional technical studies, to guide future staff and consultants in bringing the expanded Quarry Reservoir into service after mining operations end in 2030. We will continue to provide information to the Committee on this topic during the coming months.

2. **Water Purchase Trigger Conditions.** Staff is currently developing specific recommendations to guide future decisions about when to purchase treated water from neighboring jurisdictions. Consistent with OWASA's risk-based approach for declaring a Water Supply Shortage, these will be based on reservoir storage conditions, customer demand, and time of year. Staff will provide draft recommendations for the Committee's consideration before presenting them to the full Board at a later date.

3. **Jordan Lake Allocation.** Our participation in the Jordan Lake Partnership, which is developing a region-wide water supply plan to support the allocation requests of its members, is geared toward retaining OWASA's 5 percent (~5 million gallon per day) water supply storage allocation and to ensuring cost-effective access to that allocation through secure and permanent agreements with nearby utilities. We will begin discussing with high level Cary and Durham staff the general framework and conditions of long-term transfer agreements needed to meet our respective needs, including permanent guarantees that water will be provided as specified in those agreements. Those discussions will likely help clarify the type and extent of changes to the Water and Sewer Management, Planning and Boundary Agreement that may be needed to resolve unnecessary constraints on future access to OWASA's Jordan Lake water supply allocation.