



UNRBA Board Meeting March 16, 2022

**Remote Access Only
(see next slides)**



Remote Access for UNRBA Board Meetings

| Equipment Type | Access Information | Notes |
|--|---|---|
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Remote Access Guidelines

- This meeting will open 30 minutes prior to the official meeting start time to allow users to **test equipment** and ensure communication methods are working
- If you dial in through your phone, mute your microphone and turn down your speakers to **avoid feedback**
- Unless you are speaking, please mute your computer or device microphone and phone microphone to **minimize background noise**
- UNRBA meetings are open meetings; however, for this remote access meeting, please **limit the discussion to UNRBA Board Members** to facilitate moving through action items

March 16, 2022, UNRBA Board Agenda – Action Items

- **Opening—Sig Hutchinson, Chair**
- **Initial Action Items of UNRBA Board of Directors**
 - Approval of January 19, 2022, Meeting Minutes
 - Approval of the Treasurer’s Report
 - Approval of the Budget for FY2023
 - Board Decision on Surplus Property
 - Revised Engagement Letter for Dr. Martin Lebo
 - Approval of Revisions to the UNRBA Bylaws, Part 1
- **Action Items of the Compliance Group Committee (CGC)**
 - Addition of Town of Stem to IAIA Program
 - Consider Recommendation to Include Reporting Deadlines in the IAIA Program Document
 - Consider Addition of Hydrilla Removal as an Eligible Practice in the IAIA Program Document
 - Approval of Revisions to Attachment B of the Bylaws, IAIA Program Document
- **Subsequent Action Items of UNRBA Board of Directors**
 - Approval of Revisions to the UNRBA Bylaws, Part 2
- **Subsequent Action Items of the CGC**
 - Submittal of a revised Resolution and revised UNRBA Bylaws to DWR and the Environmental Management Commission (EMC).

March 16, 2022, UNRBA Board Agenda – Status Items

- **Status Reports and Informational Items**
 - Submittal of Letters Regarding Proposed Chlorophyll-a Site Specific Standards for High Rock Lake
 - Modeling and Regulatory Support (MRS) Status
 - DWR 2022 Integrated Report and 303(d) Assessments
 - Statistical Model Development and Regulatory Options for the Chlorophyll-a Water Quality Standard
 - Communications
 - Ongoing Discussions/Issues
- **Closing Comments**

Opening—Sig Hutchinson

Opening

- Introductions, Board member changes, and announcements
- Roll call for quorum
- Identification of any conflicts
- Review and approval of agenda

Initial Action Items of UNRBA Board of Directors

**Approval of January 19, 2021
Meeting Minutes**

Approval of the Treasurer's Report

3/3/2022


| | | | |
|---|----------|-----------|----------------------------|
| Balance Forward: (per bank statement - 12/31/2021) | Checking | \$ | 772,917.69 |
| | Savings | | 571,832.34 |
| Debits: | | | |
| McGill Asso. (2022 Invs) | | \$ | 29,935.59 |
| Sauber Water Quality Consulting (2022 Invs) | | | 5,530.00 |
| Brown & Caldwell (MRS, FY 22, Invs) | | | 103,750.42 |
| Phthisic Consulting, Inc. (2022 Invs) | | | 1,085.00 |
| MFG Consulting, LLC (2022 Invs) | | | 495.99 |
| Total Debits | | \$ | <u>140,797.00</u> |
| Credits: | | | |
| Interest (checking) | | \$ | 174.46 |
| Interest (savings) | | | 693.66 |
| Membership Fees | | | 4,402.00 |
| Bank Service Fee (stop payment) | | | <u>(15.00)</u> |
| Account Balance (per bank statement - 2/28/2022) | Checking | \$ | 636,712.15 |
| | Savings | | <u>572,526.00</u> |
| Total UNRBA Account Balance : | | \$ | <u>1,209,238.15</u> |

Outstanding invoices/deposits in process since the close of bank statement (2/28/2022):

| | | | |
|---|----------|-----------|----------------------------|
| Debits: | | | |
| McGill Asso. (2022 Invs) | | \$ | - |
| Brown & Caldwell (MRS, FY 22, 2022 Invs) | | | 112,695.45 |
| MFG Consulting, LLC (2022 Invs) | | | 300.00 |
| Sauber Water Quality Consulting (2022 Invs) | | | - |
| Barnes & Thornburg (2022 Invs) | | | 1,148.00 |
| Phthisic Consulting, Inc. (2022 Invs) | | | 350.00 |
| Credits: | | | |
| Transfer from Savings to Checking | | \$ | <u>-</u> |
| Current Account Balances: | Checking | | 522,218.70 |
| | Savings | | <u>572,526.00</u> |
| Total UNRBA Account Balance : | | \$ | <u>1,094,744.70</u> |

Discussion of Two Budget Options for FY2023 with \$40,000 or \$60,000 for Communications Tasks

Budget Expenditures for FY2023 with Communications Budget at \$40K

| | |
|--|--|
| Monitoring, Modeling, and Regulatory Support Programs: | \$800,000 |
| Legal Support: | 100,000 |
| Communications Support Program: | 40,000  |
| Executive Director Services: | 223,392 |
| Administrative Costs: | 6,000* |
| Website Improvements: | 3,500 |
| Total: | <u>\$1,172,892</u> |

* Administrative Items Include: 990 Tax Return prep, general liability and officer and directors insurance, basic website support, lobbyist registration fees, and other expenses.

Schedule Budget for FY2023 with Communications Budget at \$40K

\$ 1,172,892.00 Projected Revenue

Date: 3/03/2022

| Member | Base Rate (10%) | 2021 Raw Water Demands (50%) | | | Jurisdiction's Land Area (40%) (Revised 2021) | | | FY 2022-23 Fees (Proposed) |
|----------------------|----------------------|-------------------------------------|-------------------|-------------------------|--|-------------------|-------------------------|-------------------------------|
| | | 2020 Average Raw Water Demand (MGD) | \$ 586,446.00 (%) | Member's Sub-Share Cost | Jurisdiction's Acres Within Watershed | \$ 469,156.80 (%) | Member's Sub-Share Cost | |
| Town of Butner | \$ 8,377.80 | NA | | | 8,822 | 1.8 | \$ 8,405.48 | \$ 16,783.28 |
| City of Creedmoor | 8,377.80 | NA | | | 3,544 | 0.7 | 3,376.68 | 11,754.48 |
| City of Durham | 8,377.80 | 28.740 | 38 | \$ 221,862.60 | 32,680 | 6.6 | 31,137.06 | 261,377.46 |
| Durham County | 8,377.80 | NA | | | 97,803 | 19.9 | 93,185.37 | 101,563.17 |
| Franklin County | 8,377.80 | NA | | | 5,284 | 1.1 | 5,034.52 | 13,412.32 |
| Granville County | 8,377.80 | NA | | | 71,698 | 14.6 | 68,312.88 | 76,690.68 |
| Town of Hillsborough | 8,377.80 | 1.526 | 2 | 11,780.18 | 3,593 | 0.7 | 3,423.36 | 23,581.34 |
| Orange County | 8,377.80 | NA | | | 121,561 | 24.7 | 115,821.67 | 124,199.47 |
| Person County | 8,377.80 | NA | | | 83,090 | 16.9 | 79,167.02 | 87,544.82 |
| City of Raleigh | 8,377.80 | 42.710 | 56 | 329,706.04 | 1,241 | 0.3 | 1,182.41 | 339,266.25 |
| SGWASA | 8,377.80 | 2.992 | 4 | 23,097.18 | NA | | - | 31,474.98 |
| Town of Stem | 8,377.80 | NA | | | 506 | | 482.11 | 8,859.91 |
| Wake County | 8,377.80 | NA | | | 61,669 | 12.5 | 58,757.39 | 67,135.19 |
| Town of Wake Forest | 8,377.80 | NA | | | 914 | 0.2 | 870.85 | 9,248.65 |
| Total | \$ 117,289.20 | 75.968 | 100 | \$ 586,446.00 | 492,405 | 100 | \$ 469,156.80 | \$ 1,172,892.00 |

Notes:

- * Cost Allocation = 10% by uniform participation; 50% by raw water demands; and 40% by jurisdictional land area in UNRBA.
- ** 2021 annual daily average raw water demand reported by user systems.
- *** Jurisdictional areas obtained from members, January, 2021. Percentages are calculated based on total basin acres. The towns of Mebane and Franklinton have a few acres but not enough to affect percentages. Municipal acreages do NOT include ETJs (although some municipalities may have some planning jurisdiction in ETJs, they do not collect tax revenue from these properties). SGWASA- and OAWS-owned acreages are included in their respective jurisdictional areas and are not calculated separately.

Membership Dues for FY2023 with Communications Budget at \$40K

| Member | Prospective Membership Fees FY 2022-23 | Current Membership Fees FY 2021-22 |
|----------------------|--|--|
| Town of Butner | \$ 16,783.28 | \$ 17,326.74 |
| City of Creedmoor | 11,754.48 | 12,324.41 |
| City of Durham | 261,377.46 | 257,670.11 |
| Durham County | 101,563.17 | 101,660.21 |
| Franklin County | 13,412.32 | 13,973.53 |
| Granville County | 76,690.68 | 76,918.69 |
| Town of Hillsborough | 23,581.34 | 25,672.25 |
| Orange County | 124,199.47 | 124,177.31 |
| Person County | 87,544.82 | 87,715.68 |
| City of Raleigh | 339,266.25 | 337,057.73 |
| SGWASA | 31,474.98 | 33,775.12 |
| Town of Stem | 8,859.91 | - |
| Wake County | 67,135.19 | 67,413.51 |
| Town of Wake Forest | 9,248.65 | 9,831.78 |
| Total | \$ 1,172,892.00 | \$ 1,165,517.07 |

Budget Expenditures for FY2023 with Communications Budget at \$60K

| | |
|--|--------------------|
| Monitoring, Modeling, and Regulatory Support Programs: | \$800,000 |
| Legal Support: | 100,000 |
| Communications Support Program: | 60,000 |
| Executive Director Services: | 223,392 |
| Administrative Costs: | 6,000* |
| Website Improvements: | 3,500 |
| Total: | <u>\$1,192,892</u> |



Schedule Budget for FY2023 with Communications Budget at \$60K

\$ 1,192,892.00 Projected Revenue

Date: 3/03/2022

| Member | Base Rate (10%) | 2021 Raw Water Demands (50%) | | | Jurisdiction's Land Area (40%) (Revised 2021) | | | FY 2022-23 Fees (Proposed) |
|----------------------|----------------------|-------------------------------------|-------------------|-------------------------|--|-------------------|-------------------------|-------------------------------|
| | | 2020 Average Raw Water Demand (MGD) | \$ 596,446.00 (%) | Member's Sub-Share Cost | Jurisdiction's Acres Within Watershed | \$ 477,156.80 (%) | Member's Sub-Share Cost | |
| Town of Butner | \$ 8,520.66 | NA | | | 8,822 | 1.8 | \$ 8,548.81 | \$ 17,069.47 |
| City of Creedmoor | 8,520.66 | NA | | | 3,544 | 0.7 | 3,434.25 | 11,954.91 |
| City of Durham | 8,520.66 | 28.740 | 38 | \$ 225,645.77 | 32,680 | 6.6 | 31,668.01 | 265,834.44 |
| Durham County | 8,520.66 | NA | | | 97,803 | 19.9 | 94,774.36 | 103,295.02 |
| Franklin County | 8,520.66 | NA | | | 5,284 | 1.1 | 5,120.37 | 13,641.03 |
| Granville County | 8,520.66 | NA | | | 71,698 | 14.6 | 69,477.74 | 77,998.40 |
| Town of Hillsborough | 8,520.66 | 1.526 | 2 | 11,981.05 | 3,593 | 0.7 | 3,481.74 | 23,983.45 |
| Orange County | 8,520.66 | NA | | | 121,561 | 24.7 | 117,796.65 | 126,317.31 |
| Person County | 8,520.66 | NA | | | 83,090 | 16.9 | 80,516.97 | 89,037.63 |
| City of Raleigh | 8,520.66 | 42.710 | 56 | 335,328.15 | 1,241 | 0.3 | 1,202.57 | 345,051.38 |
| SGWASA | 8,520.66 | 2.992 | 4 | 23,491.03 | NA | | - | 32,011.69 |
| Town of Stem | 8,520.66 | NA | | | 506 | | 490.33 | 9,010.99 |
| Wake County | 8,520.66 | NA | | | 61,669 | 12.5 | 59,759.31 | 68,279.97 |
| Town of Wake Forest | 8,520.66 | NA | | | 914 | 0.2 | 885.70 | 9,406.36 |
| Total | \$ 119,289.24 | 75.968 | 100 | \$ 596,446.00 | 492,405 | 100 | \$ 477,156.81 | \$ 1,192,892.05 |

Notes:
 * Cost Allocation = 10% by uniform participation; 50% by raw water demands; and 40% by jurisdictional land area in UNRBA.
 ** 2021 annual daily average raw water demand reported by user systems.
 *** Jurisdictional areas obtained from members, January, 2021. Percentages are calculated based on total basin acres. The towns of Mebane and Franklinton have a few acres but not enough to affect percentages. Municipal acreages do NOT include ETJs (although some municipalities may have some planning jurisdiction in ETJs, they do not collect tax revenue from these properties). SGWASA- and OAWS-owned acreages are included in their respective jurisdictional areas and are not calculated separately.

Membership Dues for FY2023 with Communications Budget at \$60K

| Member | Prospective Membership Fees FY 2022-23 | Current Membership Fees FY 2021-22 |
|----------------------|--|--|
| Town of Butner | \$ 17,069.47 | \$ 17,326.74 |
| City of Creedmoor | 11,954.91 | 12,324.41 |
| City of Durham | 265,834.44 | 257,670.11 |
| Durham County | 103,295.02 | 101,660.21 |
| Franklin County | 13,641.03 | 13,973.53 |
| Granville County | 77,998.40 | 76,918.69 |
| Town of Hillsborough | 23,983.45 | 25,672.25 |
| Orange County | 126,317.31 | 124,177.31 |
| Person County | 89,037.63 | 87,715.68 |
| City of Raleigh | 345,051.38 | 337,057.73 |
| SGWASA | 32,011.69 | 33,775.12 |
| Town of Stem | 9,010.99 | - |
| Wake County | 68,279.97 | 67,413.51 |
| Town of Wake Forest | 9,406.36 | 9,831.78 |
| Total | \$ 1,192,892.05 | \$ 1,165,517.07 |

**Motion to Approve the Budget and Dues for FY2023
with Specification of Communications Budget**

Board Decision on Surplus Property

- The UNRBA purchased an inflatable boat during the UNRBA Monitoring Program to assist with collection of bathymetric data along the lake shoreline and lake arms.
 - Boat: 2015 Zodiac 310AL (aluminum), purchased for \$1500, weighs 88 pounds, handled by two people and will carry up to 5 adults, or 1300 pounds, additional specifications:
<https://www.pacificinflatableboats.com/product/zodiac-cadet-310-aluminum/>
 - Motor: Prowler trolling motor
- The purchase was made when the contract was with Cardno, Inc. and the boat was transferred to the care of BC when the contract was executed with that firm.
- Since the monitoring program is no longer active, the boat is no longer needed.
- The PFC and MRSW discussed options for transferring the property to another organization and will develop recommendations to present to the Board
- The first step in transferring the property is for the [Board to consider declaring the boat and associated equipment as surplus property.](#)
- This item will be brought to the Board in May for a vote on whom to transfer the property to or whether or not to sell the property if no organization indicates they could put the boat to good use.

Revised Engagement Letter for Dr. Martin Lebo

- Dr. Martin Lebo was previously contracted by the UNRBA to support the statistical evaluation of site-specific criteria in Falls Lake.
- Dr. Lebo has changed firms, so the contract with the original firm needs to be terminated and a final invoice needs to be provided to the UNRBA for final payment for work that has already been conducted.
- The UNRBA will need to execute a new contract with the new firm for this work to continue.
- The Board will consider authorization of the Chair to execute the new engagement letter within the previously allocated budget.

Approval of Revisions to the UNRBA Bylaws, Part 1

- At the January 19, 2022, meeting, the Board approved the Town of Stem rejoining the UNRBA.
- In order for Stem to participate in the UNRBA's program for complying with the Falls Lake Stage I Existing Development Rule, the Interim Alternative Implementation Approach (IAIA), the UNRBA Bylaws describing the procedures for adding new members and becoming a participant in the IAIA require deleting the phrase "after the initial year" from Section 8.8, Addition of New Members.
- See next slide for a screen capture of the revision

Approval of Revisions to the UNRBA Bylaws, Part 1

- The Board will consider this revision to the Bylaws and refer the Town of Stem's participation in the IAIA to the Compliance Group Committee (CGC).

Addition of New Members: If an Association Member in good standing, demonstrating current compliance with the Stage I Existing Development Rule in terms of annual expenditures that meet the requirements of the IAIA, seeks to join the Compliance Group Committee ~~after the initial year~~, the Member will make application in which the Member certifies its agreement to be bound by the terms of a revised Attachment B, which includes the applicant's membership in the Compliance Group Committee. The Chair of the Compliance Group Committee will notify existing IAIA Participants of a new participant request. The Chair will notify the Eligible Party applicant within thirty (30) days following the Compliance Group Committee's decision on whether to admit the new Compliance Group Committee Participant and of the new Participant's required investment commitment and dues, if applicable. Addition of a new Participant becomes effective upon the Compliance Group Committee's approval of the necessary changes to Attachment B, and the new Participant's payment of its initial investment and dues, as required.

**Motion to Recess the Regular Session of
the UNRBA Board to Sit as the
Compliance Group Committee**

Action Items of the Compliance Group Committee (CGC)

Request from Stem to Join the IAIA Program

- The UNRBA Board approved the Town of Stem's request to rejoin the UNRBA in January 2022.
- Following the Board's action today on the revision of the Bylaws (Section 8.8, Addition of New Members), provided the Board approves this revision, the CGC will consider Stem's request to participate in the IAIA.
- Based on the Town's request, the CGC must vote, unanimously to approve Stem's participation in the IAIA
 - Stem's annual investment level would be \$11,605, page 25 of the revised Attachment B to the Bylaws (Program Doc.)
 - Stem's inclusion would not change the level of investment of other jurisdictions' investment levels
 - Current total investment \$1,510,016; with Stem \$1,521,621
- See next slide

Request from Stem to Join the IAIA Program

- The CGC will vote on participation of the Town of Stem in the IAIA Program (requires a unanimous vote of those present)

| Member | Annual Funding Level | Member | Annual Funding Level |
|---------------------|------------------------|----------------------|----------------------|
| Town of Butner | \$23,393 | Town of Hillsborough | \$34,221 |
| City of Creedmoor | \$16,926 | Orange County | \$161,943 |
| City of Durham | \$337,587 | Person County | \$114,394 |
| Durham County | \$133,300 | City of Raleigh | \$466,081 |
| Franklin County | \$19,058 | Wake County | \$88,968 |
| Granville County | \$100,453 | Town of Wake Forest | \$13,692 |
| Town of Stem | <u>\$11,605</u> | | |

Addition of Reporting Deadlines to the IAIA Program Document

- The current version of the IAIA Program Document does not include reporting deadlines for IAIA participants to submit their required annual reports to the Division of Water Resources (DWR).
- To streamline the reporting process and allow for CGC approval of the summary report, the Executive Director asked PFC members to vote by email on reporting dates (one vote per jurisdiction).
- The majority of votes were for submitting individual reports to DWR (with copy to UNRBA) by September 30th following the end of each fiscal year. A summary report based on the individual reports would be generated for consideration by the CGC at their following meeting in November and submittal to DWR by November 30th.
- See next slide

Addition of Reporting Deadlines to the IAIA Program Document

- The CGC will vote on inclusion of reporting dates in the Program Document (requires a unanimous vote of those present).

The IAIA allows four options to demonstrate and manage local government participation in the Stage I IAIA. Every effort will be made to provide flexibility in the application of each option. Investment amounts on an annual basis by project/action will be reported to DEQ with copies provided to the Compliance Group Committee for tracking and summary purposes. The Compliance Group Committee will provide annual reports to DEQ on total investments or commitments during the previous fiscal year. Individual reports should be submitted to DEQ (with copy to UNRBA) by September 30th following the end of each fiscal year. A summary report based on the individual reports would be generated for consideration by the Compliance Group Committee at their following meeting in November with submittal to DEQ by November 30th.

Addition of Hydrilla Removal as an Eligible Practice in the IAIA Program Document

- Orange County has submitted a proposed hydrilla reduction/control practice for investment credit under IAIA.
- DWR has approved this practice for use under IAIA.
- Thanks to Orange County for identifying the potential for this practice to benefit water quality and quantity and for developing the supporting information that led to this practice being added to the list of approved actions under IAIA for investment credit, and to DWR for their review, approval and support of this practice.
- The IAIA Program Document requires that additional practices be approved by DWR prior to consideration by the CGC for inclusion in the program.
- See next slide

Addition of Hydrilla Removal as an Eligible Practice in the IAIA Program Document

- The CGC will consider approval of this practice and inclusion in the Program Document (requires a unanimous vote of those present).

Hydrilla removal and control as approved by DWR in a memorandum from Rich Gannon to Wesley Poole (Orange County) dated February 10, 2022: “The Division approves the type of activity described in your request as eligible toward compliance under the IAIA program, provided it is conducted through participation in the Eno River Hydrilla Management Task Force or other similar state-sanctioned body, and in accordance with the protocols of the Division’s Aquatic Weed Control Program. Acceptable activities under this oversight can include periodic, contained stocking of sterile grass carp in contributing ponds in the watershed and annual herbicide treatment (fluridone) in flowing streams, followed by a tuber survey to determine effectiveness.”

Recommendation for Approval of Revisions to Attachment B of the Bylaws, IAIA Program Document

- Following the CGC's action on Parts A through C above, Attachment B of the Bylaws needs to be revised
 - Addition of Town of Stem
 - Addition of reporting dates for submittal of annual reports
 - Addition of hydrilla removal as an eligible practice
- **The CGC will consider and vote on recommending approval of these revisions to the UNRBA Board.**

**Motion to Recess the Compliance Group
Committee to Resume Regular Session of the
UNRBA Board**

Subsequent Action Items of UNRBA Board of Directors

Approval of Revisions to the Bylaws, Part 2

- Following the CGC's action on revising the IAIA Program Document (Attachment B of the Bylaws) to include the following revisions:
 - Addition of Town of Stem
 - Addition of reporting dates for submittal of annual reports
 - Addition of hydrilla removal as an eligible practice
- The UNRBA Board will consider and vote on approval of the revised Bylaws.

**Motion to Recess the Regular Session of the
UNRBA Board to Sit as the
Compliance Group Committee**

Subsequent Action Items of the CGC

CGC Action to submit revised IAIA Program to DWR and the EMC

Submittal of Revised IAIA Program to DWR and EMC

- Provided the Board approves the revision of the IAIA Program Document in the Bylaws, the CGC will consider resubmittal of the IAIA Program to DWR and the EMC.
- A revised Resolution from the CGC has been prepared to reflect the changes made in the IAIA program and the inclusion of Stem as a participant.
- The CGC will consider and vote on 1) a revised Resolution for the IAIA and authorize the CGC Chair to sign on behalf of the CGC and 2) submittal of the revised Resolution and revised UNRBA Bylaws to DWR and the Environmental Management Commission (EMC).

**Motion to Adjourn the Compliance Group
Committee and Resume the Regular Session of
the UNRBA Board**

Status Reports and Informational Items

Submittal of Letters Regarding Proposed Chlorophyll-a Site Specific Standards for High Rock Lake

- At the January 19, 2022, meeting, the Board authorized the Executive Director to contact and coordinate with the individual UNRBA member jurisdictions for the consideration of formal objection
- letters from these jurisdictions should a UNRBA letter be needed. Because a Hearing Officer Report has not been released and action on the proposal has yet to be brought to the EMC, it is possible that the action may be brought forward at the May or July 2022 EMC meetings scheduled for May 11th and 12th; and July 13th and 14th. The EMC could also schedule a special meeting to take action.
- The UNRBA Board is scheduled to meet on May 18th, June 15th and September 21st. Status report(s) of the adoption process will be provided to the Board at these upcoming meetings, and the Executive Director will identify any requested revisions to this authorization.
- The window for filing formal objection to the RRC is very narrow, and it may be necessary to act quickly. Should a letter be filed, the Executive Director will provide the letter to the Executive Committee for input and, once final, provide a copy to the Board members.

Modeling and Regulatory Support for the Re-examination of Stage II

Watershed Modeling Status

- Watershed Analysis Risk Management Framework (WARMF) model has been
 - Calibrated for stream flows and water quality.
 - Run over the UNRBA's four-year monitoring period
 - Used to identify sources of loading to the lake
 - Reviewed by subject matter experts (SMEs) and third-party reviewers of the modeling effort.
 - Two special meetings to discuss
 - Refinements to model made in response
- The modeling report is being reviewed by the Executive Director and the Chair of the Modeling and Regulatory Support Workgroup (MRSW)
- Anticipated review by the full MRSW is late March

Lake Modeling Status

- The three lake water quality models are being developed considering the information generated by the watershed model and special studies on Falls Lake
 - WARMF Lake, Environmental Fluid Dynamics Code (EFDC), and a Statistical/Bayesian model
- The modeling team will continue to reach out to Collaboratory funded researchers to consider and supplement the extensive database developed by the UNRBA, our members and DWR.
- The modeling effort will also include extensive vetting through identified SMEs, third-party reviewers, our membership representatives, and DWR as the lake modeling effort moves forward.
- The modeling team is working on the lake modeling report.

Scenario Evaluation Status

- The Scenario Screening Workgroup discussed their recommendations for scenario evaluation at the March 1, 2022, MRSW meeting.
- The recommendations will be considered by the Path Forward Committee (PFC) at their May 3, 2022, meeting (the PFC meeting on April 5th has been cancelled due to the joint symposium with the NC Collaboratory on April 7th).
- A status of scenario selection will be presented to the Board at their May or June meeting depending on the PFC's input in May.

Status 2022
NC DWR 303(d) List and
Integrated Report

2022 303(d) list and Integrated Report

- 2022 Draft 303d list is now located on the DWR Web Site.

<https://deq.nc.gov/about/divisions/water-resources/water-planning/modeling-assessment/water-quality-data-assessment/integrated-report-files>

- The 2022 Draft Integrated Report (IR) has not yet been posted for public review. The IR includes Falls Lake Assessments.
- Deadline for commenting on the Draft 2022 303(d) list is February 28, 2022; submit to TMDL303dComments@ncdenr.gov
- DWR will likely provide an information update to EMC in March.
- DWR on track for submittal to EPA by April 1, 2022
- Reviewed with the Board at their January meeting

Statistical Model Development and Regulatory Options for the Chlorophyll-a Water Quality Standard

Statistical Model Development and Regulatory Options for the Chlorophyll-a Water Quality Standard

- The UNRBA is developing a statistical/Bayesian model to link the water quality in Falls Lake to its designated uses
- The Technical Advisors Workgroup for the legal group, MRSW, and PFC have identified local subject matter experts to provide data and information regarding satisfaction with the designated uses of Falls Lake
- The modeling team has been conducting virtual meetings with these experts to understand the types of data and information that are tracked with respect to designated uses to inform development of the statistical/Bayesian modeling
- Development of a site-specific chlorophyll-a standard represents an important consideration for a revised Falls Lake management strategy and is linked to this modeling effort
- Subject matter expert, Dr. Marty Lebo, was approved by the Board in June and has begun his work in support of this effort.

Communications

Upcoming Stakeholder Workshops/Conferences

- The UNRBA is planning a **technical stakeholders' workshop for Fall 2022** following calibration of the lake models and evaluation of preliminary scenarios to discuss the status of the modeling efforts and hear input on a revised nutrient management strategy for Falls Lake.
- A **joint symposium with the Collaboratory is scheduled for April 7, 2022 from 10AM to 4PM** at North Carolina Botanical Garden, Reeves Auditorium. The symposium is free, but registration is required. You can register at the following link:
https://unc.az1.qualtrics.com/jfe/form/SV_bgy9wmjpv4qIKXk
- We have also worked with the Collaboratory-funded researchers to develop an 80-minute session on Falls Lake that has been accepted for inclusion at the upcoming **Water Resources Research Institute's Annual Meeting, March 23, 2022, 3PM**. Registration for the hybrid [2022 NC WRI Annual Conference](#) is now open.

Meetings with DWR

- The Executive Director is planning a meeting with Danny Smith, the DWR Director, to discuss the work of the UNRBA and preliminary results on the Re-examination, process for site-specific water quality standard petition and the High Rock Lake site-specific rulemaking process.
- Meetings with DWR planning and modeling groups
 - Review of technical work
 - Monitoring
 - Modeling
 - Collaboratory research and coordination
 - Approach for re-examination
 - Continued participation in MRSW and PFC meetings

External Stakeholder Communication Needs

- Objectives continue to be reviewed relative to communication opportunities with stakeholders.
- To support the re-examination process and achieve broad support for the UNRBA recommendations, additional outreach to external stakeholders including DWR, DEQ, and other interested stakeholders is needed;
- Coordination with local leaders to convey messages and facilitate outreach will be necessary.
- This effort will require the support of the UNRBA membership, staff and Board representatives.
- As a reminder, the [Infographic](#) and [Fast Facts](#) are available online <https://upperneuse.org/resource-library>
- An [Overview of the Work of the UNRBA](#) provided to the UNC Collaboratory for inclusion in their reporting is available online <https://nutrients.web.unc.edu/resources/>

Discussion of Format for May and Future Board Meetings (virtual or in person)

Ongoing Discussions/Issues

Ongoing Discussions/Issues

- Intensive workgroup activity and management of expectations and resources—A lot to do between now and recommendations in 2023
- Continue discussions on the MOA—reengage UNRBA on the goal of the MOA and work to reconnect with DEQ
- Neuse Watershed Model Information Session / Delivery Factors for WWTP

Closing Comments

**Next UNRBA Board Meeting is Scheduled
for May 18, 2022
Remote Meeting**

**The location and access for this meeting
may be modified at a later date.**