Draft Water Shortage Response Plan Orange-Alamance Water System, Inc. August 21, 2019

The procedures herein are written to reduce potable water demand and supplement existing drinking water supplies whenever existing water supply sources are inadequate to meet current demands for potable water.

I. Authorization

The Orange-Alamance Water System, Inc. General Manager shall enact the following water shortage response provisions whenever the trigger conditions outlined in Section IV are met. In his absence, the Water Plant Manager will assume this role.

Mr. Benjamin H. Vaughn OAWS, Inc. General Manager

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II. Notification

The following notification methods will be used to inform water system employees and customers of a water shortage declaration: employee e-mail announcements, notices at municipal buildings, notices in water bills and on the Orange-Alamance Water System, Inc. (OAWS, Inc.) website homepage. Required water shortage response measures will be communicated through *The Mebane Enterprise & The News of Orange County*, PSA announcements on local radio and cable stations, and on the OAWS, Inc. website. Declaration of emergency water restrictions or water rationing will be communicated to all customers by telephone through use of reverse 911.

III. Levels of Response

Five (5) levels of water shortage response are outlined in the table below. The five levels of water shortage response are: voluntary reductions, mandatory reductions I and II, emergency reductions and water rationing. A detailed description of each response level and corresponding water reduction measures follow below.

| Stage | Response | Description |
|-------|----------------------------|---|
| 1 | Voluntary Reductions | Water users are encouraged to reduce their water use and improve water use efficiency; however, no penalties apply for noncompliance. Water supply conditions indicate a potential for shortage. |
| 2 | Mandatory Reductions I | Water users must abide required water use reduction and efficiency measures; penalties apply for noncompliance. Water supply conditions are significantly lower than the seasonal norm and water shortage conditions are expected to persist. |
| 3 | Mandatory Reductions II | Same as in Stage 2 |
| 4 | Emergency Reductions | Water supply conditions are substantially diminished and pose an imminent threat to human health or environmental integrity. |
| 5 | Water Rationing | Water supply conditions are substantially diminished and remaining supplies must be allocated to preserve human health and environmental integrity. |

In Stage 1, Voluntary Reductions, all water users will be asked to reduce their normal water use by 20%. Customer education and outreach programs will encourage water conservation and efficiency measures including: irrigating landscapes a maximum of one inch per week; preventing water waste, runoff and watering impervious surfaces; watering plants deeply to encourage root growth; washing only full loads in clothes and dishwashers; using spring-loaded nozzles on garden hoses; and identifying and repairing all water leaks.

In Stage 2, Mandatory Reductions I, all customers are expected to reduce their water use by 30% in comparison to their previous month's water bill. In addition to continuing to encourage all voluntary reduction actions, the following restrictions apply: irrigation is limited to a half inch per week between 8PM and 8AM; outdoor use of drinking water for washing impervious surfaces is prohibited; and all testing and training purposes requiring drinking water (e.g. fire protection) will be limited.

In Stage 3, Mandatory Reductions II, customers must continue actions from all previous stages and further reduce water use by 40% compared to their previous month's water bill. All non-essential uses of drinking water are banned and garden and landscape irrigation must be reduced to the minimum amount necessary for survival. Additionally, in Stage 3, a drought surcharge of 1.5 times the normal water rate applies.

In Stage 4, Emergency Reductions, customers must continue all actions from previous stages and further reduce their water use by 50% compared to their previous month's water bill. A ban on all use of drinking water except to protect public health and safety is implemented and drought surcharges increase to 2 times the normal water rate.

The goal of Stage 5, Water Rationing, is to provide drinking water to protect public health (e.g. residences, residential health care facilities and correctional facilities). In Stage 5, all customers are only permitted to use water at the minimum required for public health protection. Firefighting is the only allowable outdoor water use and pickup locations for distributing potable water will be announced according to the OAWS, Inc. Emergency Response Plan. Drought surcharges increase to 5 times the normal water rate.

IV. Triggers

- Orange-Alamance Water System, Inc. primary water source is the Eno River. Please see the attached Eno River Voluntary Capacity Use Plan for detailed guidance. The streamflow measurements, intake levels and production capacities documented in the CUP trigger entry into corresponding water restriction stages.
- 2. Orange-Alamance Water System, Inc. purchase water sources are as follows.
 - a. City of Burlington (through the Town of Haw River).
 - b. Town of Hillsborough
 - c. City of Mebane

When a purchase water purveyor declares a water shortage OAWS, Inc. will reduce the amount of water purchased from each purveyor according to the purveyor's designated conservation stage requirements.

3. Ground water - Orange-Alamance Water System, Inc. utilizes ground water from the Piedmont Province Aquifer system. The following measurements of aquifer system static water levels, in conjunction with the NC Drought Monitor drought classification, the US Seasonal Drought Outlook for the Alamance & Orange County areas of North Carolina and USGS Streamflow conditions of Alamance & Orange County area streams, creeks and rivers and local precipitation amounts trigger entry into corresponding water conservation stages.

| Stage | Ground Water Conservation Triggers |
|-------|--|
| 1 | Static Water Levels decrease 20% of available drawdown NC Drought Monitor drought classification = None, D0, D1 |
| | US Seasonal Drought Outlook classification = None, Drought Development Likely |
| | Eno River USGS Streamflow conditions = Moderate hydrologic drought |
| | Local precipitation amounts below normal for 3 consecutive months. |
| 2 | Static Water Levels decrease 30% of available drawdown NC Drought Monitor drought classification = D2 |
| | US Seasonal Drought Outlook classification = Drought ongoing, drought to persist or intensify. |
| | Eno River USGS Streamflow conditions = Severe hydrologic drought |
| | Local precipitation amounts below normal for 6 consecutive months. |
| 3 | Static Water Levels decrease 40% of available drawdown NC Drought Monitor drought classification = D3 |
| | US Seasonal Drought Outlook classification = Drought |
| | ongoing, drought to persist or intensify. 4. Eno River USGS Streamflow conditions = Extreme |
| | hydrologic drought |
| | Local precipitation amounts below normal for 9 consecutive months. |
| 4 | Static Water Levels decrease 50% of available drawdown NC Drought Monitor drought classification = D4 |
| | 3. US Seasonal Drought Outlook classification = Drought |
| | ongoing, drought to persist or intensify. |
| | Eno River USGS Streamflow conditions = Extreme hydrologic drought |
| | Local precipitation amounts below normal for 12 consecutive months. |
| 5 | Static Water Levels decrease >50% of available drawdown |
| | NC Drought Monitor drought classification = D4 US Seasonal Drought Outlook classification = Drought |
| | ongoing, drought to persist |
| | 4. Eno River USGS Streamflow conditions = Extreme |
| | hydrologic drought 5. Local precipitation amounts below normal for 15 consecutive months. |

During this time, the OAWS, Inc. General Manager and Water Plant Manager will closely monitor the Piedmont Province Aquifer system and all purchase water sources and follow the required triggers.

When water shortage conditions have abated and the situation is returning to normal, water conservation measures employed during each phase shall be decreased in reverse order of implementation. Permanent measures directed toward long-term monitoring and conservation shall be implemented or continued so that the community will be in a better position to prevent shortages and respond to recurring water shortage conditions.

V. Enforcement

The provisions of the water shortage response plan will be enforced by Orange-Alamance Water System, Inc. utility department and Law Enforcement personnel. Violators may be reported to Orange-Alamance Water System, Inc. dedicated water conservation hotline or the e-mail contact listed on the OAWS, Inc. website (www.orangealamancewater.com). Citations are assessed according to the following schedule depending on the number of prior violations and current level of water shortage.

| Water Shortage Level | First Violation | Second Violation | Third Violation |
|--|-----------------|----------------------------|----------------------------|
| Voluntary Reductions | N/A | N/A | N/A |
| Mandatory Reductions (Stages 2 and 3) | Warning | \$250 | Discontinuation of Service |
| Emergency Reductions | \$250 | Discontinuation of Service | Discontinuation of Service |
| Water Rationing | \$500 | Discontinuation of Service | Discontinuation of Service |

Drought surcharge rates are effective in Stages 3, 4 and 5.

VI. Public Comment

Customers will have multiple opportunities to comment on the provisions of the water shortage response plan. First, a draft plan will be published in *The Mebane Enterprise and The News of Orange County* newspapers and on the Orange-Alamance Water System, Inc. website (www.orangealamancewater.com). A public hearing will be scheduled with notice printed on all customer water bills to collect comments on the draft. All subsequent revisions to the draft plan will be published at least 30 days prior to an adoption vote by the Orange-Alamance Water System, Inc. Board of Directors.

VII. Variance Protocols

Applications for water use variance requests are available from the OAWS, Inc. website and Administrative Office. All applications must be submitted to the OAWS, Inc. Administrative Office for review by the General Manager or his or her designee. A decision to approve or deny individual variance requests will be determined within two weeks of submittal after careful consideration of the following criteria: impact on water demand, expected duration, alternative source options, social and economic importance, purpose (i.e. necessary use of drinking water) and the prevention of structural damage.

VIII. Effectiveness

The effectiveness of the Orange-Alamance Water System, Inc. water shortage response plan will be determined by comparing the stated water conservation goals with observed water use reduction data. Other factors to be considered include frequency of plan activation, any problem periods without activation, total number of violation citations, desired reductions attained and evaluation of demand reductions compared to the previous year's seasonal data.

IX. Revision

The water shortage response plan will be reviewed and revised as needed to adapt to new circumstances affecting water supply and demand, following implementation of emergency restrictions, and at a minimum of every five years in conjunction with the updating of our Local Water Supply Plan. Further, a water shortage response planning work group will review procedures following each emergency or rationing stage to recommend any necessary improvements to the plan to the OAWS, Inc. Board of Directors. The OAWS, Inc. General Manager is responsible for initiating all subsequent revisions.

Department of Natural Resources and Community Development Division of Water Resources

ENO RIVER CAPACITY USE INVESTIGATION

WATER MANAGEMENT OPERATIONS PLAN

August 19, 1988

Endorsed by Environmental Management Commission September 8, 1988

Modified March 1989

Revised July 1990

WATER MANAGEMENT PLAN

All water users in the Eno River Basin who withdraw more than 100,000 gallons of water per day from surface water or groundwater sources are subject to the management controls of this plan. Both water withdrawals and reservoir releases are subject to controls. Water users affected by controls under the plan are listed below.

- Town of Hillsborough -- Lake Ben Johnston withdrawal and reservoir release.
- Orange-Alamance -- Corporation Lake withdrawal and reservoir release.
- 3. Piedmont Minerals -- Eno River withdrawal.
- 4. City of Durham -- Eno River withdrawal.
- 5. West Point Grist Mill -- Eno River.
- 6. Irrigators whose monthly average withdrawal exceeds 100,000 gallons per day.
- 7. Orange County -- Releases from Lake Orange, Corporation Lake, and Lake Ben Johnston.

The limited capacity of the basin requires these users to be subject to the following controls.

Hillsborough Water System

The Hillsborough Water System will be allowed to withdraw a maximum of 1,510,000 gallons of water per day from their intake at Lake Ben Johnston. Maximum allowable withdrawals will change as the lake levels at Lake Orange change. Table 1 indicates the maximum allowable withdrawal at successive storage levels.

The Orange-Alamance Water System

The Orange-Alamance Water System will be allowed to withdraw a maximum of 820,000 gallons of water per day from its intake at Corporation Lake. Allowed withdrawals will be reduced as storage at Lake Orange is reduced. Table 1 indicates the maximum allowable withdrawal for given storage levels at Lake Orange.

Piedmont Minerals

Piedmont Minerals will be allowed to withdraw a maximum of 900,000 gallons of water per day from their intake in the Eno River below Lake Ben Johnston when flows at the Eno Gage are 14 cfs and above. This will be reduced to 430,000 gallons per day when flows are between 14 cfs and 4 cfs. Below 4 cfs, the maximum allowable withdrawal will depend on the storage and lake levels in Lake Orange, as shown in Table 1.

Durham Water System

The Durham Water System will be allowed to withdraw water from the Eno River below the U.S. 501 Bridge in amounts up to 5,000,000 gallons of water per day when the flows, as measured at the USGS Eno River gage at Durham, are above 30 cfs from March through May and 10 cfs during other times of the year. Withdrawals will cease when flows fall below these levels.

West Point Grist Mill.

The West Point Grist Mill is a run-of-river operation. The Mill will be permitted to use water from the Eno for mill power and return it to the river immediately downstream.

Irrigators With Average Use Exceeding 100,000 Gallons/Day

Irrigators will be allowed to withdraw up to their maximum monthly use, based on water use figures collected by the Division of Water Resources in 1987 for the severe drought year of 1986. Current (1986) water use would not be restricted, but increases in existing water use and large new users may be restricted. The short-range objective is to limit the expansion of irrigation acreage and facilities until downstream water supply sources can be improved.

Users Withdrawing In Excess of 100,000 Gallons Per Day

Any users, not previously mentioned, which withdraw more than 100,000 gallons per day from either ground or surface water sources in the Eno River Basin, upstream of the confluence with the Little River, will be required to agree to limits, but are not now included in this plan.

Instream Flow

In addition to maximum withdrawal limits set for offstream uses in the Eno River Basin, minimum instream flow requirements are established at the Hillsborough streamflow gage (USGS Streamflow Gage # 02085000). A minimum of 1.7 cfs (1,100,000 gallons per day) is to be maintained at the gage when Lake Orange is greater than 80 percent total storage. This value is reduced as the storage level decreases at Lake Orange. Table 1 lists the minimum instream flow requirements. Orange County will be responsible for coordinating releases and maintaining minimum flows at the gage. The three major withdrawers will provide withdrawal schedules to the County at least one week in advance and will notify the County immediately regarding emergencies and other necessary changes in the withdrawal schedule.

Additional Storage

The withdrawal allocation can be revised whenever additional storage facilities are completed in the capacity use area or when additional water supplies are made available from sources outside the area. New storage facilities will be reviewed to ensure that there are no adverse effects upon the permit holders or on streamflow as measured at the Hillsborough gage.

Outside Sources

Water obtained from sources outside of the area designated as capacity use will not be limited under the Eno Capacity Use regulations. During periods of higher flows (over 10 cfs or 6.452 MGD), public water supply systems may take additional water from the Eno, provided that they have long-term contracts for obtaining an equal amount of water from outside the basin when the flow in the Eno drops. This type of adjustment will be evaluated on a case-by-case basis by the N.C. Division of Water Resources.

Plan Administration

Orange County will be responsible for notifying affected water users of levels at Lake Orange and of the reductions of water withdrawals as required by the Plan.

Periodic Review and Changes

Withdrawal allowances will be subject to review every 5 years or when changes have been made to current systems, storage, or supply sources.

Plan Support

Technical support, plan clarification, and approval of minor interim adjustments and modifications will be provided by the N.C. Division of Water Resources.

Reporting

Average daily withdrawal in million gallons per day (MGD) for Orange-Alamance, Hillsborough, and Piedmont Minerals will be reported monthly to the Division of Water Resources. Average daily withdrawals in MGD for agricultural users will be reported annually in March.

Table 1

Maximum Allowable Surface Water Withdrawals Based on Lake Orange Level

| Percent of Storage | Drawdown in feet from top | Allowable Surf | | | |
|-----------------------------|---------------------------------|-------------------------|---------------------|----------------------|------------------------------|
| Remaining at Lake Orange | of 1-ft. flashboard | Town of Hillsborough | Orange- Alamance | Piedmont Minerals | Instream Flow Requirement |
| > 100 | spilling | * | * | ** | 1,100,000 |
| 100 - 80 | 0.0 | 1,510,000 | 820,000 | 430,000 | 1,100,000 |
| 80 - 60 | 2.0 | 1,360,000 | 740,000 | 380,000 | 650,000 |
| 60 - 50 | 4.3 | 1,280,000 | 700,000 | 360,000 | 450,000 |
| 50 - 40 | 5.8 | 1,280,000 | 700,000 | 320,000 | 450,000 |
| 40 - 30 | 7.4 | 1,130,000 | 620,000 | 190,000 | 0 |
| <= 30 | 9.3 | 680,000 | 370,000 | 0 | 0 |

notes:

- *- Adjusted to reflect outside source agreement for Hillsborough and Orange-Alamance.
- Excess withdrawals from Eno River based on outside source agreement may be made when flows at the Eno River at Hillsborough Gage are 10 cubic feet per second (cfs) and above, regardless of water level in Lake Orange. Maximum withdrawals will be limited to the total of the contract amount and the allocated amount.
- A low flow period will begin on the 7th consecutive day of the average daily flow at the Hillsborough Gage dropping below 10 cfs. On the 4th day, the Orange County Engineer will request that affected parties prepare for a low flow period.
- When flows are between 10 cfs and 3 cfs at the Hillsborough Gage during a low flow period, withdrawals from the Eno River shall be limited to the 100-80 percent of storage remaining amount shown above, regardless of water level in Lake Orange.
- When flows are below 3 cfs at the Hillsborough Gage, during a low flow period, withdrawals will be limited to amounts shown above for percent of storage remaining at Lake Orange.
- A low flow period will be terminated when average daily flow at the Hillsborough Gage registers 10 cfs or greater for a period of 7 consecutive days. The Orange County Engineer will notify affected parties when the low flow period is terminated.
- **- For Piedmont Minerals Inc: When flows at the Hillsborough gage are 14 cfs and above, withdrawals from the Eno River will be limited to 900,000 gallons per day (gpd). Between 14 cfs and and 4 cfs, withdrawals will be limited to 430,000 gpd, regardless of water level in Lake Orange. Below 4 cfs, withdrawals will be limited to amounts shown above for percent of storage remaining.

ADDENDUM

To the Eno River Voluntary Water Use Agreement

- Lake Orange is above 100 percent full and is spilling, Hillsborough will be allowed partial credit for water purchased from an outside source and discharged into the Eno River west of county road 1009 during the monitoring week that the discharge occurs, at a credit rate of 60 percent of the total discharge, when the discharge is made over a 24-hour period or greater. The credit volume will be divided by 7 days and added to the withdrawal limit listed in Table 1, to determine the allowed average daily withdrawal for that week. the event that the flushing discharge straddles two monitoring weeks, the credit volume will be applied equally between the two The Orange County Engineer, or DWR staff in his absence, must be notified of the volume and the duration upon completion of A written report of the flushing, detailing exact flushing. dates, times, and volumes, shall be included in the monthly report to DWR. If notification is not received with that month's water use report, no credit will be granted and any excess water use will be labeled as a violation of this agreement. The Division of Water retains the right to revoke permission for Hillsborough to receive credit for flushed flows if at any time, in the opinion of the Division, the ability of Ben Johnston Dam to meet downstream flows may be compromised. Said revocation will be in effect until there is notice by DWR that the problem has been corrected to its satisfaction. If Lake Orange is not spilling, no credit will be allowed.
- In the event that flow at the Eno River at Hillsborough streamflow gage is over 10 cfs, Corporation Lake and Lake Ben Johnston are both spilling water over the dams, purchases of water are being made from outside of the Eno River Basin, and the low flow period has not yet ended, users may cease their outside purchase of water and withdraw the amount of water allowed in the absence of a low flow period, as long as the ability to resume purchase of water for immediate customer delivery remains. This time period has been determined to be three days for the OWASA line. Water purchases will be made as often as necessary to flush the lines and keep them from stagnating. If flows drop below 10 cfs before the low flow period is over, Eno River withdrawals must immediately be reduced to Table 1 levels.
- Transfer of water allocation between users is permissible under the following conditions: 1) Lake Orange is greater than 80 percent full; 2) notification of the duration and specific volume of the transfer will be given by the surrendering party to the Orange County Engineer, or the DWR in his absence, a minimum of one day before the transfer is to take place; 3) the total allocation will be adjusted if necessary by the averaging period of the surrendering party, and 4) written notification of the duration and volume of the transfer will be provided by both involved parties in their monthly water use reports to DWR. If prior notification is not received, DWR will not recognize the allocation transfer.

Maximum Allowable Surface Water Withdrawals Based on Lake Orange Water Level

| Storage Drawdown at Lake Town of formal at Lake Orange- flashboard Piedmont Almance Piedmont Almont Almance From West Fork Eno Reservoir Almont Almance From West Fork Eno Reservoir Almond Almont Almance From West Fork Eno Reservoir Almond Almance From West Fork Eno Reservoir Almond Almance From West Fork Eno Reservoir Almond | | Percent of | | Allowable 5 | Allowable Surface Water Withdrawal (gallons per day) | rithdrawal) | Instream Flow | Instream Flow Requirement at Hillsborough Gage (gallons per day) | llsborough Gage |
|--|---------|---|---|--------------------------------------|--|----------------------|---------------------|---|---------------------------------------|
| $\begin{array}{llllllllllllllllllllllllllllllllllll$ | | Storage Remaining at Lake Orange | Drawdown in feet from top of 1-ft. flashboard | Town of Hillsborough [†] | Orange- Alamance | Piedmont Minerals | From Lake Orange | From West Fork Eno Reservoir | Total Flow at Hillsborough Gage |
| 100 - 80 0.0 1,510,000† 820,000 430,000 1,100,000 650,000 80 - 60 2.0 1,360,000† 740,000 380,000 650,000 650,000 60 - 50 4.3 1,280,000† 700,000 320,000 450,000 650,000 50 - 40 5.8 1,280,000† 700,000 190,000 0 650,000 40 - 30 7.4 1,130,000† 370,000 0 650,000 650,000 | | > 100 | spilling | *‡ | * | ** | 1,100,000 | 000'059 | 1,750,000 |
| $80-60$ 2.0 $1,360,000^{\dagger}$ $740,000$ $380,000$ $650,000$ $650,000$ $60-50$ 4.3 $1,280,000^{\dagger}$ $700,000$ $360,000$ $450,000$ $650,000$ $50-40$ 5.8 $1,280,000^{\dagger}$ $700,000$ $320,000$ $450,000$ $650,000$ $40-30$ 7.4 $1,130,000^{\dagger}$ $620,000$ $190,000$ 0 $650,000$ $<=30$ 9.3 $680,000^{\dagger}$ $370,000$ 0 0 $650,000$ | Stage 1 | 100 - 80 | 0.0 | 1,510,000 | 820,000 | 430,000 | 1,100,000 | 000'059 | 1,750,000 |
| $60-50$ 4.3 $1,280,000^{\dagger}$ $700,000$ $360,000$ $450,000$ $650,000$ $50-40$ 5.8 $1,280,000^{\dagger}$ $700,000$ $320,000$ $450,000$ $650,000$ $40-30$ 7.4 $1,130,000^{\dagger}$ $620,000$ $190,000$ 0 $650,000$ $<=30$ 9.3 $680,000^{\dagger}$ $370,000$ 0 0 $650,000$ | Stage 2 | 09 - 08 | 2.0 | 1,360,000† | 740,000 | 380,000 | 000,039 | 000*059 | 1,300,000 |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | Stage 3 | 09 - 09 | 4.3 | 1,280,000 | 700,000 | 360,000 | 450,000 | 650,000 | 1,100,000 |
| $40 - 30 \qquad 7.4 \qquad 1,130,000^{\dagger} \qquad 620,000 \qquad 0 \qquad 0 \qquad 650,000 \qquad 0 \qquad < 370,000 \qquad 0 \qquad 0 \qquad 650,000 \qquad 0 \qquad 650,000 \qquad 0 \qquad 0 \qquad 650,000 \qquad 0 \qquad $ | Stage 4 | 50 - 40 | 5.8 | 1,280,000⁺ | 700,000 | 320,000 | 450,000 | 000'059 | 1,100,000 |
| <= 30 9.3 680,000 [↑] 370,000 0 0 650,000 | Stage 5 | 40 - 30 | 7.4 | 1,130,000 | 620,000 | 190,000 | 0 | 650,000 | 650,000 |
| | Stage 6 | <= 30 | 9.3 | 000,089 | 370,000 | 0 | 0 | 650,000 | 650,000 |

Notes:

Allowable withdrawals for Hillsborough shown above do not include withdrawals of water supply releases from West Fork Eno Reservoir.

- * Adjusted to reflect outside source agreement for Hillsborough and Orange-Alamance.
- cubic feet per second (cfs) and above, regardless of water level in Lake Orange. Maximum withdrawals shall be limited to the total of the contract - Excess withdrawals from Eno River based on outside source agreement may be made when flows at the Eno River at Hillsborough Gage are 10 amount and the allocated amount.
- A low flow period will begin on the 7th consecutive day of the average daily flow at the Hillsborough Gage dropping below 10 cfs. On the 4th day, the Orange County Engineer will request that affected parties prepare for a low flow period.
- When flows are between 10 cfs and 3 cfs at the Hillsborough Gage during a low flow period, withdrawals from the Eno River shall be limited to the Stage 1 amount shown above (100-80 percent of storage remaining), regardless of water level in Lake Orange.
- When flows are below 3 cfs at the Hillsborough Gage during a low flow period, withdrawals shall be limited to amounts shown above for percent of storage remaining at Lake Orange.
- A low flow period will be terminated when average daily flow at the Hillsborough Gage registers 10 cfs or greater for a period of 7 consecutive days. The Orange County Engineer will notify affected parties when the low flow period is terminated.

gallons per day (gpd). Between 14 cfs and 4 cfs, withdrawals will be limited to 430,000 gpd, regardless of water level in Lake Orange. Below 4 cfs, **For Piedmont Minerals: When flows at the Hillsborough Gage are 14 cfs and above, withdrawals from the Eno River will be limited to 900,000 withdrawals will be limited to amounts shown above for percent of storage remaining.

RESOLUTION NO. 88-13 ENVIRONMENTAL MANAGEMENT COMMISSION

WHEREAS, at the direction of the Environmental Management Commission (EMC), the Department of Natural Resources and Community Development has completed a capacity use investigation of the Eno River portion of the Neuse River Basin, pursuant to the provisions of the N.C. Water Use Act of 1967 (G.S. 143-215.11 et.seq.).

WHEREAS, the Department found that:

- 1. The aggregate use of surface water from the Eno River has grown to the point where coordination is required to prevent conflicts and to protect the interests and rights of riparian owners.
- 2. During low flow periods the demand for water exceeds the amount of water available from the Eno River.
- 3. Limited regulation of water users appears to be an equitable short-term alternative until new water supply sources are developed.
- 4. A means is needed to encourage cooperation and conservation among all water users in order that greater efficiencies in water use are promptly implemented.
- 5. The rapid present and projected growth of water use in the Eno Basin requires action soon to avoid the risk of even more severe water supply problems.

WHEREAS, the Department recommended that the estimated 150 square miles of the Eno River watershed area upstream from the confluence with the Little River be designated as a capacity use area.

WHEREAS, the Department developed a proposed water management plan for the Eno Basin to illustrate the types of regulations and permits that would be proposed under the capacity use designation.

WHEREAS, the water users in the Eno Basin have committed themselves to follow the proposed water management plan.

WHEREAS, the voluntary water management plan includes the essential elements of a declared capacity use area with the exception of the provisions for enforcement.

WHEREAS, the General Statute directs the Department to present "actions which might preclude the need for additional regulation."

WHEREAS, the voluntary plan, if adhered to by those involved, satisfactorily addresses the capacity use-related problems in the Eno River area.

NOW THEREFORE, BE IT RESOLVED that the EMC accepts the Eno River Capacity Use Investigation Hearing Officer's Report and endorses the voluntary Water Management Operations Plan and directs the staff of the Division of Water Resources to monitor compliance with the plan and make periodic reports to the EMC.

BE IT FURTHER RESOLVED, that should the plan not be adhered to by those involved, that the EMC intends to proceed with a designation of capacity use for the Eno River area, as outlined in the Department's report.

This the 8th day of September 1988.

Charles L. Baker

Chairman,

Environmental Management Commission