

SAMPSON COUNTY BOARD OF COMMISSIONERS MEETING AGENDA May 21, 2018 - Recessed Meeting Sampson County Auditorium

5:00 pm Reconvene Meeting, Invocation

Presentation of Recommended Budget for Fiscal Year 2018-2019

The County Manager will present the recommended budget for FY 2018-2019. The public hearing regarding the budget will be held at the Board's regular meeting on June 4, 2018.

Recess Board of Commissioners to Reconvene at 6 pm at Cooperative Extension

SAMPSON COUNTY BOARDS OF DIRECTORS OF SAMSON COUNTY WATER AND SEWER DISTRICT I & II

Convene Simultaneously as Boards of Directors of Water and Sewer Districts I and II

Adoption of Water Shortage Response Plans

The Public Works Department has provided revised Water Shortage Response Plans for both Water District I and Water District II, which are required under NCGS 143-355(l). These must be submitted by June to the NC Division of Water Resources. Public Works Director Lin Reynolds will be present to answer questions regarding the plans. The attached resolutions should be adopted evidencing approval of the Water Shortage Response Plans.

Adjourn as Boards of Directors of Water and Sewer Districts

6:00 pm Reconvene as Sampson County Board of Commissioners for Extension's Annual Report to the People

Cooperative Extension Director and staff will offer dinner and presentations on the activities of Sampson County Cooperative Extension during the past year. No action is required.

Adjournment



APPROVAL OF WATER SHORTAGE RESPONSE PLAN SAMPSON COUNTY WATER AND SEWER DISTRICT I

WHEREAS, North Carolina General Statute 143-355 (I) requires that each unit of local government that provides public water services or plans to provide such services shall, either individually or together with other such units of local government, prepare and submit a Water Shortage Response Plan; and

WHEREAS, as required by the statute and in the interests of sound local planning, a Water Shortage Response Plan for Sampson County Water District I has been developed and submitted to the Board of Directors of Sampson County Water and Sewer District I for approval; and

WHEREAS, the Board of Directors of Sampson County Water and Sewer District I finds that the Water Shortage Response Plan is in accordance with the provisions of North Carolina General Statute 143-355 (I) and that it will provide appropriate guidance for the future management of water supplies for Sampson County Water and Sewer District I, as well as useful information to the Department of Environment and Natural Resources for the development of a state water supply plan as required by statute;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Sampson County Water and Sewer District I that the Water Shortage Response Plan entitled *Sampson County WD I Water Shortage Response Plan,* dated May 3, 2010 and revised May 16, 2018, is hereby approved and shall be submitted to the Department of Environment and Natural Resources, Division of Water Resources; and

BE IT FURTHER RESOLVED that the Board of Directors of Sampson County Water and Sewer District I intends that this plan shall be revised to reflect changes in relevant data and projections at least once every five years or as otherwise requested by the Department, in accordance with the statute and sound planning practice.

This the 21st day of May, 2018.

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| | Clark H. Wooten |
| | Chairman, Board of Directors |
| | Sampson County Water and Sewer District I |
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| ATTEST: | |
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| Susan J. Holder, Clerk to the Board | _ |

Water Shortage Response Plan Sampson County WD I, North Carolina May 3, 2010 Revised May 16, 2018

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 Sampson County Manager shall enact the following water shortage response provisions whenever the trigger conditions outlined in Section IV are met. In his or her absence, the Public Works Director will assume this role.

Mr. Edwin W. Causey Sampson County Manager Phone: (910) 592-6308

E-mail: ecausey@sampsonnc.com

Mr. Linwood Reynolds, PE Sampson County Public Works Director

Phone: (910) 592-0188

E-mail: lreynolds@sampsonnc.com

11. 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. Required water shortage response measures will be communicated through the County website. (http://www.sampsonnc.com) The Sampson Independent, PSA announcements on local radio and cable stations.

Declaration of emergency water restrictions or water rationing will be communicated to all customers by telephone.

III. Levels of Response

Five 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 11, 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 5%. 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 10% 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 11, customers must continue actions from all previous stages and further reduce water use by 20% 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 25% 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 Sampson County's Emergency Response Plan. Drought surcharges increase to 5 times the normal water rate.

IV. Triggers

Sampson County WO I water source is groundwater. The following measurements of well pumping times and well levels in relationship to pump intake levels trigger entry into corresponding water restriction stages.

| Stage | Well Operating Conditions |
|-------|--|
| 1 | Pumping Time >10 hrs 20% reduction in seasonal normal distance from static water level and pump intake 20% increase pumping time for same output |
| 2 | Pumping Time >12 hrs 40% reduction in distance from static water level and pump intake 40% increase pumping time for same output |
| 3 | Pumping Time >14 hrs 60% reduction in distance from static water level and pump intake 60% increase pumping time for same output |
| 4 | Pumping Time >20 hrs 80% reduction in distance from static water level and pump intake |
| 5 | Water level at pump intake elevation |

Return to Normal

When water shortage conditions have abated and the situation is returning to normal, water conservation measures employed during each phase should be decreased in reverse order of implementation. Permanent measures directed toward long-term monitoring and conservation should 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 Sampson County personnel and local law enforcement. Violators may be reported to the County

phone line. 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 will be available at County Office for customers to view. A notice will be included in customer water bill notifying them of such. Also a draft plan will be published in *The Sampson Independent* and on the County website. All subsequent revisions to the draft plan will be published at least 30 days prior to an adoption vote by Sampson County Commissioners.

VII. Variance Protocols

Applications for water use variance requests are available from the County Offices. All applications must be submitted to the County Office for review by the County 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 Sampson County WSD I 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 Sampson County Commissioners. The Sampson County Public Works Director is responsible for initiating all subsequent revisions.



APPROVAL OF WATER SHORTAGE RESPONSE PLAN SAMPSON COUNTY WATER AND SEWER DISTRICT II

WHEREAS, North Carolina General Statute 143-355 (I) requires that each unit of local government that provides public water services or plans to provide such services shall, either individually or together with other such units of local government, prepare and submit a Water Shortage Response Plan; and

WHEREAS, as required by the statute and in the interests of sound local planning, a Water Shortage Response Plan for Sampson County Water District II has been developed and submitted to the Board of Directors of Sampson County Water and Sewer District II for approval; and

WHEREAS, the Board of Directors of Sampson County Water and Sewer District II finds that the Water Shortage Response Plan is in accordance with the provisions of North Carolina General Statute 143-355 (I) and that it will provide appropriate guidance for the future management of water supplies for Sampson County Water and Sewer District II, as well as useful information to the Department of Environment and Natural Resources for the development of a state water supply plan as required by statute:

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of Sampson County Water and Sewer District II that the Water Shortage Response Plan entitled Sampson County WD II Water Shortage Response Plan, dated May 3, 2010 and revised May 16, 2018, is hereby approved and shall be submitted to the Department of Environment and Natural Resources, Division of Water Resources; and

BE IT FURTHER RESOLVED that the Board of Directors of Sampson County Water and Sewer District II intends that this plan shall be revised to reflect changes in relevant data and projections at least once every five years or as otherwise requested by the Department, in accordance with the statute and sound planning practice.

| This the 21st day of May, 2018. | | |
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| | Clark II Waster | |
| | Clark H. Wooten Chairman, Board of Directors | |
| | Sampson County Water and Sewer District II | |
| ATTEST: | | |
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| Susan J. Holder, Clerk to the Board | | |

Water Shortage Response Plan Sampson County WD II, North Carolina May 3, 2010; Revised May 16, 2018

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 Sampson County Manager shall enact the following water shortage response provisions whenever the trigger conditions outlined in Section IV are met. In his or her absence, the Public Works Director will assume this role.

Ms. Edwin W. Causey Sampson County Manager Phone: (910) 592-6308 E-mail:ecausey@sampsonnc.com

Mr. Linwood Reynolds, PE Sampson County Public Works Director

Phone: (910) 592-0188

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11. 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. Required water shortage response measures will be communicated through the County website, (http://www.sampsonnc.com) The Sampson Independent, PSA announcements on local radio and cable stations. Declaration of emergency water restrictions or water rationing will be communicated to all customers by telephone.

III. Levels of Response

Five 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 5%. 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 10% 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 20% 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 25% 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 limes the normal water rate.

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IV. Triggers

The Sampson County WD II has two water sources. The Plainview District water source is the Cape Fear River via water purchases from the City of Dunn. The remainder of Sampson County WD II's water source is groundwater produced by Sampson County.

Plainview District (Surface Water)

| Stage | River Operating Conditions |
|-------|---|
| 1 | Water Level at 52ft msl at Intake in River Discharge at USGS Gage XXX is <300 cfs for >14 days >80% of Production Capacity for 3 consecutive days |
| 2 | Water Level at 50ft msl at Intake in River Discharge at USGS Gage XXX is <200 cfs for >10 days >90% of Production Capacity for 3 consecutive days |
| 3 | Water Level at 48.5ft msl at Intake in River Discharge at USGS Gage XXX is < 150 cfs for > 7 days 100% of Production Capacity on any day |
| 4 | Water Level at 47ft msl at Intake in River Discharge at USGS Gage XXX is < 100 cfs for > 5 days |
| 5 | Water Level at 45ft msl at Intake in River Discharge at USGS Gage XXX is < 50 cfs |

Remainder of District II (Groundwater)

| Stage | Well Operating Conditions | | |
|-------|--|--|--|
| 1 | Pumping Time >10 hrs 20% reduction in seasonal normal distance from static water level and pump intake 20% increase pumping time for same output | | |
| 2 | Pumping Time >12 hrs 40% reduction in distance from static water level and pump intake 40% increase pumping time for same output | | |
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| 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 will be available at County Office for customers to view. A notice will be included in customer water bill notifying them of such. Also a draft plan will be published in *The Sampson Independent* and on the County website. All subsequent revisions to the draft plan will be published at least 30 days prior to an adoption vote by Sampson County Commissioners.

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