

# Request for Categorical Exclusion from Substantive Environmental Review (CE)

## Instructions:

1. Provide the WIF number for the project for which you are requesting consideration.
2. Fill out the Applicant's formal name. For a county authority, please specify which county. "County Water District VII" is not a complete name; "ABC County Water District VII" is a complete name.
3. Check all applicable exclusions. Failure to check an applicable exclusion will result in the rejection of your request.
4. Either the "authorized representative" or the Professional Engineer must sign the form. If the Professional Engineer signs the form, the Professional Engineer must seal the form.
5. Submit as part of the ER/EID, following the "**Factsheet: Instructions for Applicants Seeking a Federal Categorical Exclusion**" available at <http://portal.ncdenr.org/web/wi/drinkingwater/factsheets>.

WIF No.: 1880

Applicant: Town of Boonville, NC

Project Name: Town of Boonville Water System Improvements

## Project Description

### **Kerr Depot Street Water Line Replacement**

Currently, there are approximately 1,040-feet of 1 ½" cast iron water line serving the residents along Kerr Depot Street in the southeast quadrant of the Town of Boonville just south of NC 67. The line is undersized and continues to be a cause for insufficient pressure, flow and lack of fire protection in the area. The line frequently is a source of leaks, and the requirement for constant repair is a drain on town financial resources as well as time consuming for the Town staff to make ongoing repairs. Although specific leakage numbers are not available for this specific section of water line, the Town's Water Audit for FY 2013-2014 indicated a total water loss of 37.37% for the year which related to a financial loss of \$48,469. This portion of the project will directly serve seven residences, but because it will eliminate a bottle neck in the distribution system it will positively affect the southeastern quadrant of the Town's distribution system. Since the water line replacement is located in a built out residential area it is not expected that the proposed project will lead to an increase or decrease in demand. This project will allow the Town to upsize the line to 6-inches, and also allow for the installation of fire hydrants to provide fire protection and adequate water pressure along Kerr Depot Street as well as free up the Town Public Works Staff's availability to provide other utility services where needed in other areas of the Town.

### **Cardinal Drive Water Line Replacement**

Currently, there are approximately 800-feet of 1 ½" cast iron water line serving the residents along Cardinal Drive in the northwest quadrant of the Town of Boonville just north of NC 67. The line is undersized and continues to be a cause for insufficient pressure, flow and lack of fire protection in the area. This portion of the project will directly serve six residences, but because it will eliminate a bottle neck in the distribution system it will positively affect the northwestern quadrant of the Town's distribution system. Since the water line replacement is located in a built out residential area it is not expected that the proposed project will lead to an increase or decrease in demand. This project will allow the Town to upsize the line to 6-inches, and also allow for the installation of fire hydrants to provide fire protection and adequate water pressure along Cardinal Drive

**Well Filter System Installation**

Two of the Town's three wells (Cornfield Street and Depot Street) have experienced iron and manganese levels exceeding the MCLs according to a Notice of Violation (NOV) dated May 29, 2013. The secondary MCLs for iron and manganese respectively were 0.30 mg/L and 0.05 mg/L. According to the NOV, the results from samples collected on February 14, 2013 indicated the following:

	<u>Total Iron</u>	<u>Total Manganese</u>
Cornfield Street	5.03 mg/L	0.125 mg/L
Depot Street	1.99 mg/L	0.153 mg/L

Additional sample results since issuance of the NOV: obtained on July 11, 2013, the following levels were observed:

	<u>Total Iron</u>	<u>Total Manganese</u>	<u>Sample Date</u>
Cornfield Street 3/25/2014	1.70 mg/L	0.018 mg/L	
Depot Street	0.504 mg/L	<.010mg/L	3/25/2014
Cornfield Street 11/25/2013	1.97 mg/L	0.064 mg/L	
Depot Street	1.04 mg/L	0.075mg/L	11/25/2013
Cornfield Street 7/25/2013	0.396 mg/L	0.086 mg/L	
Depot Street	0.282 mg/L	0.079mg/L	7/25/2013
Cornfield Street 7/11/2013	1.14 mg/L	0.096 mg/L	
Depot Street	0.650 mg/L	0.168 mg/L	7/11/2013
Cornfield Street 5/22/2013	0.950 mg/L	0.079 mg/L	
Depot Street	1.69 mg/L	0.352 mg/L	5/22/2013
Cornfield Street 5/22/2013	0.950 mg/L	0.079 mg/L	
Depot Street	1.69 mg/L	0.352 mg/L	5/22/2013

The Town proposes to install an oxidation/filtration method consisting of an induced draft aerator/duplex vertical pressure filter system at the Cornfield Well Site and at the Depot Street Well Site. In addition to reducing iron and manganese to acceptable levels, the system proposed will also positively affect the turbidity, color, and arsenic levels in the water supply. This portion of the project will serve the entire Town of Boonville. The project is not expected to cause an increase or decrease in water demand.



### Well Replacement

The Town of Boonville currently has three wells; however, the Williams Street experiences low flows during drought conditions that have put the Town's water supply at dangerously low levels. Because of these low flow conditions, the Town intends to replace the Williams Street Well with a new well. The Williams Street well will be disconnected from the Town's water system and abandoned.

I certify that the project described in the application for state-supplied financial assistance meets all of the applicable general criteria listed in [15A NCAC 01C .0408 \(1\)](#), and consists solely of activities exempted under the specific criteria of [15A NCAC 01C .0408 \(2\)](#) checked below:

**Please check all the exclusion(s) that apply:**

- Potable water systems including the construction or rehabilitation of wells for water supply purposes with associated groundwater withdrawals of less than 1,000,000 gallons per day where such withdrawals are not expected to cause alterations in established land use patterns, or degradation of groundwater or surface water quality.

[\[15A NCAC 01C .0408 \(2\)\(c\)\]](#).

Other potable water systems including the following:

- Improvements to water treatment plants that involve less than 1,000,000 gallons per day added capacity and total design withdrawal less than one-fifth of the 7-day, 10-year low flow of the contributing stream; [\[15A NCAC 01C .0408 \(2\)\(b\)\(i\)\]](#)
- Improvements not intended to add capacity to the facility; [\[15A NCAC 01C .0408 \(2\)\(b\)\(ii\)\]](#)
- Installation of waterlines and appurtenances in existing rights-of-way for streets or utilities, or water lines and appurtenances less than five miles in length and having only directional bore stream crossings or no stream crossings; [\[NCGS. § 113A-12\(1\) & 15A NCAC 01C .0408 \(2\)\(b\)\(iii\)\]](#)
- Construction of water tanks, or booster pumping or secondary or remote disinfection stations; [\[15A NCAC 01C .0408 \(2\)\(b\)\(iv\)\]](#)
- Dams less than 25 feet in height and having less than 50 acre-feet or storage capacity [\[15A NCAC 01C .0408 \(2\)\(h\)\]](#) (Notes: #1 Dam projects are ineligible for federally recognized CE. #2 Only off-stream raw water reservoirs for pre-treatment purposes are eligible for SRF funding.)

I further certify that the project does not have a significant direct, indirect, cumulative or secondary adverse environmental impact as described in [15A NCAC 01C .0306](#), and that none of the following descriptions apply to the project:

- the proposed activity may have a potential for significant adverse effects on wetlands; surface waters such as rivers, streams and estuaries; parklands; game lands; prime agricultural or forest lands; or areas of local, state or federally recognized scenic, recreational, archaeological, ecological, scientific research or historical value, including secondary impacts; or would threaten a species identified on the Department of Interior's or the state's threatened and endangered species lists; [\[15A NCAC 01C .0306 \(1\)\]](#) or
- the proposed activity could cause changes in industrial, commercial, residential, agricultural, or silvicultural land use concentrations or distributions which would be expected to create adverse water quality, instream flow, air quality, or ground water impacts; or affect long-term recreational benefits, fish, wildlife, or their natural habitats; [\[15A NCAC 01C .0306 \(2\)\]](#) or
- the proposed activity has secondary impacts, or is part of cumulative impacts, not generally covered in the approval process for the state action, and that may result in a potential risk to human health or the environment; [\[15A NCAC 01C .0306 \(3\)\]](#).

Therefore, I believe our project is eligible for consideration for a CE from the State's environmental assessment review processes and request that the North Carolina Department of Environment and Natural Resources (DENR) concur with this determination.

I understand that DENR may determine that the proposed activity is of such an unusual nature or has such widespread implications that a concern for its environmental effects has been identified by DENR or expressed to DENR. I understand that, in this case, the activity may be ineligible for CE under [15A NCAC 01C .0306 \(4\)](#).

- We are applying for a Drinking Water State Revolving Fund (DWSRF) loan and include the required comment letters. **OR**
- We are not applying for the DWSRF.

William H. Dixon, PE/Municipal Engineering Services Co., P.A.

\_\_\_\_\_  
Engineer Printed Name

Senior Civil Engineer  
Engineer Title



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State Use Only (Review)	
Reviewed by: <u>David Opalini</u>	Date: <u>1-29-2016</u>
Departmental Approval: <u>Monty J. Thomas</u>	Date: <u>2-1-2016</u>