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CIRCUIT COURT  
DORCHESTER COUNTY



**County Council of Dorchester County, Maryland**

**Resolution no. 526**

**A RESOLUTION** of the County Council of Dorchester County amending the 2004 Dorchester County Comprehensive Water and Sewer Plan (the "Plan") to amend the text and charts within the plan to identify the Town of East New Market's request for enhanced well production and an updated pump station with the installation of a new well which will supplement the existing supply and improve distribution, and overall pumping efficiency of water and waste water treatment at the plant which is shared between the Towns of Secretary and East New Market. In addition to increasing the capacity of the water supply and waste water treatment, the new well and pump station will provide for enhanced and improved water quality benefits.

**WHEREAS**, State law mandates that all Maryland counties adopt a Comprehensive Water and Sewer Master Plan; and

**WHEREAS**, Dorchester County adopted its most current Plan on March 16, 2004; and

**WHEREAS**, a request was filed by the Town of East New Market to amend the aforementioned Plan to accommodate and enhance well production and waste water treatment with the installation of a new well and pump station which will supplement the existing supply and improve distribution and overall water quality; and

**WHEREAS**, on June 6, 2012 the Dorchester County Planning Commission certified that the proposed amendment(s) is consistent with the Dorchester County Comprehensive Plan; and

**WHEREAS**, the County Council of Dorchester County, having held a public hearing on this matter on July 17, 2012 and having given careful consideration to the matter, voted unanimously to adopt the proposed amendment(s).

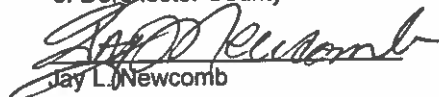
**NOW, THEREFORE**, the County Council of Dorchester County does hereby amend the Dorchester County 2004 Comprehensive Water and Sewer Plan, as set forth on the attached exhibits.

Adopted this 7<sup>th</sup> day of August, 2012.

Attested by:

  
Jane Baynard  
County Manager

The County Council  
of Dorchester County

  
Jay L. Newcomb

  
William V. Nichols

  
Ricky Travers

  
Rick Price

  
Tom Bradshaw

APPENDIX D

REQUEST FOR AMENDMENT TO THE DORCHESTER COUNTY WATER AND SEWERAGE PLAN

Mail or Present Completed Application to:

Dorchester County Planning and Zoning
P.O. Box #07
Cambridge, MD 21613

A. Type of Amendment Map X Text

1. Map Amendment N/A

- a. Sewer: From To
b. Water: From To
c. Other:
d. Map number(s) to be changed:

2. Text Amendment: Section and page number(s) to be changed: 3.5.2, 4.4.2

B. Character of Amendment:

Addition Deletion X Change

C. Property Identification: N/A

- 1. Tax Map/Block/Parcel number 1/1
2. Election District Zoning District
3. Critical Areas Yes Designation X No

D. Description and Purpose of Change

- 1. Name of Project or Subdivision
2. Location, including Road name
3. Approximate population served 250 EDUs
4. Other UPDATE CURRENT WELL + PUMP STATION INFO.

E. Estimated Design and Construction Costs \$150,000.00

F. Estimated Design/Construction Dates WELL 3 - COMPLETE
WELL 4 - SPRING 2012
PUMP STA - SUMMER 2014

G. Applicants Name, Address, Phone H. Owners Name, Address, Phone

<u>COMMISSIONERS OF EAST NEW MARKET</u>	
<u>P.O. Box 24</u>	<u>SAME</u>
<u>EAST NEW MARKET, MD</u>	
<u>21631</u>	

I. If property is located within the corporate limits of a municipality, or if the parcel(s) referenced above are proposed to be served by a municipality's water supply or sewerage system, the Municipal Planning Commission certifies that the requested amendment is consistent with the municipality's comprehensive plan.

<u>NA</u>	
Certifier's Name & Title	Date

J. Signatures

<u>[Signature]</u>	<u>4-13-12</u>	<u>NA</u>	
Applicant	Date	Owner	Date
<u>ENGINEER FOR EAST NEW MARKET,</u>			
<u>AGENT. LANE ENGINEERING INC.</u>			

Instructions:

1. Complete all applicable sections of this form.
2. A copy of the proposed revised map and/or text must be attached to each application.
3. Sixteen (16) sets of this application, including attachments, must be submitted to the Office of Planning and Zoning before it is processed.
4. Attach the application fee (\$125.00) to the application.
5. Applications are accepted biannually and due no later than May 15th and November 15th.
6. For map amendments, the following categories apply:
 

<u>W1, S1</u>	<u>Service existing or planned within two years</u>
<u>W2, S2</u>	<u>Service planned within two to five years</u>
<u>W3, S3</u>	<u>Service planned within five to ten years</u>
<u>No designated service area</u>	<u>No service planned within ten years</u>

3.3.2 East New Market (District 2)

The East New Market area, comprising 26.5 square miles, is located in the northeastern portion of Dorchester County and abuts the Choptank River. Principal communities in the area are the close but distinctly separate municipalities of East New Market and Secretary as shown on Exhibits 3-B and 3-C, respectively. The general area is characterized as farmland with some forest area. Sections along the Choptank and Warwick Rivers have waterfront development and this use is likely to increase. The area has a well defined road system and the railroad passes through East New Market.

The 2000 population was 2223 persons, making the East New Market area the fourth largest election district in the County. Population density averages 84 persons per square mile. The area is expected to grow substantially by the year 2010. Most of this growth is expected to occur outside of the incorporated towns of East New Market and Secretary, which had 2000 populations of 167 and 503 persons respectively.

Private wells in the area are generally founded in the Choptank Aquifer at depths of 150'-210'. Several wells are located in the shallow Pliocene Aquifer 15'-21' deep and the Calvert Aquifer approximately 300' deep. The Piney Point Aquifer is used by Secretary for its community water system. These wells range in depth from 470' to 580'. Current water demand is estimated to be 175,000 gpd.

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East New Market's central water system supplies approximately 35,000 gallons per day to 315 persons. The Town's original well, Well No. 1, drilled in 1916, is developed in the Federalsburg Aquifer at a depth of 225' and has an estimated rated capacity of 100 GPM. In 1978, a new well was developed in the Piney Point Aquifer at a depth of 522', Well No. 2. The

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new well is ten inches in diameter and has a safe yield of 260 GPM. This well has been abandoned due to Arsenic concentrations that are slightly above EPA minimum levels. The Town installed a third well in 2011, Well No. 3, that draws water from the Cheswold aquifer and has a capacity of 75 GPM. The original well is still utilized, as a back-up for Well No. 3. Both wells currently provide the residents of East New Market with water of a good drinking quality. Both Well Nos 1 and 3 water supplies are disinfected utilizing gas chlorination systems. The Town of East New Market will install a fourth well, Well No. 4, in the spring of 2012 also within the Cheswold aquifer. This new well will have an estimated capacity of 75 GPM and will be disinfected with sodium hypochlorite. The Town anticipates Well No. 1 will eventually be taken out of service due to its age and Well Nos. 3 and 4 will provide the Town's water supply with redundancy. The total current permitted allocation approved by MDE is 70,000 GPD and applies supplementary to the Cheswold and Federalsburg aquifers.

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The Town's distribution system consists of six inch and four inch water mains located along State Routes 14 and 16 with smaller branches along intersecting streets. The majority of East New Market's water system was constructed in 1916 and was not adequate for the town's needs.

Accordingly, the Town completed construction on a new 8 inch main along State Route 16 that is interconnected with the previously existing distribution system and has enhanced water distribution and pressure. This addition was completed in the summer of 1981. Additional hydrants for fire protection and replacement of some badly deteriorated house services were also undertaken.

#### 4.4.1 Fork (District 1)

Community sewerage systems should not be required in this sparsely populated district during the ten-year planning period. The soils are generally suitable for on-site disposal and this method should suffice to support the limited projected growth in the area. The incorporated towns of Eldorado and Brookview and Galestown shall be designated "no planned service".

#### 4.4.2 East New Market (District 2)

The East New Market District is in an area of coarse grained Pleistocene deposits. Thus, underground disposal of individual system effluents is not generally a problem. However, these deposits are also used as the aquifer for most individual wells. Therefore, careful siting is necessary to prevent cross contamination.

The Town of East New Market has a collection system of eight-inch gravity sewer lines, a Grinder pump system, and a Pumping Station and Force Main to Twin Cities Treatment Plant. The collection system was installed during the WPA program in the 1930's. There was no pumping stations within the Corporate Limits; the area being served by a gravity system with the outfall to a limited treatment plant where the pumping station is now located across undeveloped land outside the Town.

As a result of a Facility Plan Study under an EPA Step 1 grant, East New Market decided to abandon its existing treatment plant and pump its flow to Secretary for treatment in improved, aerated oxidation ponds. This was a foresighted regional solution to a problem wherein both towns had to improve their treatment facilities. The new pumping system was completed in the Fall of 1981. Its duplex centrifugal pumps were designed to operate at 295 gpm, but are only operating at approximately 180 gpm, therefore the pump station is subject to extended periods of dual pump operation which is considered an overload condition. The new pumping system includes an emergency generator for a stand-by power source, telemetering system to monitor high water levels in the wetwells and approximately 10,000 feet of 6-inch diameter PVC force

main that transmits all of East New Market's wastewater to the upgraded treatment plant in Secretary.

East New Market has provided to local share of funds to construct the pumping station, force main and necessary improvements to Secretary's existing treatment system. Financing of the improvement was through a 75% grant from the Environmental Protection Agency, 12-1/2% grant from the Maryland State Health Department with the remaining 12-1/2% financed with a combination grant/loan from Farmers Home Administration. Under a joint agreement, the costs for operation and maintenance of the Secretary treatment plant is shared by the two towns based on the metered flows from each. Each town is responsible for the operation and maintenance costs of their respective sewage collection and pumping systems.

The town of East New Market replaced the sewer line from Main Street to the Pumping Station with a 10" P.V.C. line. At the same time larger motors were installed at the Pumping Station, which is now capable of pumping 300 + G.P.M. Due to the age of the existing pumping station, operational and safety concerns, the Town of East New Market will initiate the planning and funding process in early 2012 for a reconstructed pumping station. The proposed station will replace the current pumping configuration with self priming suction lift pumps, new controls and a modern SCADA system capable of remote operation and with enhanced alarming and metering. System pumps and controls will be located above grade to alleviate safety and maintenance concerns associated with the existing station.

Eddie Powell constructed a system to service an 18-lot subdivision on Creamery Road. A sewer line was extended across Railroad Avenue, just east of Farm Credit property, and then run easterly along Railroad Avenue to service a planned development in that area.

In 2000, the town replaced the original collection system throughout the town with an 8' gravity system. At the same time, a low pressure grinder pump system pumping into the gravity system on Railroad Avenue was constructed in the "Depot" area to service the area annexed into