

PERTAINING TO THE AMENDMENT OF THE CALVERT COUNTY COMPREHENSIVE
WATER AND SEWERAGE PLAN, 2011 UPDATE, FOR CONSTRUCTION OF A
WASTEWATER TREATMENT SYSTEM TO SERVE A RESIDENTIAL COMMUNITY IN
DUNKIRK, REGENCY MANOR MOBILE HOME PARK (STA 14-02).

WHEREAS, pursuant to the authority contained in Title 9, Subtitle 5 of the *Environment Article* of the Maryland Annotated Code, the Board of County Commissioners of Calvert County, Maryland has general powers to adopt and amend a County plan addressing water supply systems and sewerage systems and has heretofore adopted the Calvert County Comprehensive Water and Sewerage Plan, 2011 Update;

WHEREAS, the Calvert County Planning Commission discussed the proposed text amendment (STA 14-02) to the current Calvert County Comprehensive Water and Sewerage Plan on March 19, 2014 and found that it was in compliance with the County's Comprehensive Plan and made a recommendation to the Board of County Commissioners concerning the proposed amendment;

WHEREAS, after due notice was published, the Board of County Commissioners conducted a public hearing on April 15, 2014, at which time the proposed amendments were discussed, staff's recommendations were considered, and public comment was solicited; and

WHEREAS, after considering the evidence which had been presented at the public hearing regarding the proposed amendments and the recommendation of the Planning Commission, and in furtherance of the public health, safety and welfare, the Board of County Commissioners of Calvert County, Maryland determined it is in the best interest of the citizens of the County to adopt the recommended amendments to the Calvert County Comprehensive Water and Sewerage Plan as set forth in Exhibit A, attached hereto and made a part hereof.

NOW, THEREFORE, BE IT ORDAINED by the Board of County Commissioners of Calvert County, Maryland, that the text amendment to the Calvert County Comprehensive Water and Sewerage Plan, 2011 Update, STA 14-02, included in Exhibit A attached hereto and made a part hereof, **BE**, and hereby **IS, APPROVED** and **ADOPTED**;

BE IT FURTHER ORDAINED by the Board of County Commissioners of Calvert County, Maryland that the Calvert County Comprehensive Water and Sewer Plan shall otherwise remain in full force and effect;

BE IT FURTHER ORDAINED by the Board of County Commissioners of Calvert County, Maryland that the foregoing recitals are adopted as if fully rewritten herein;

BE IT FURTHER ORDAINED by the Board of County Commissioners of Calvert County, Maryland that, in the event any portion of the Calvert County Comprehensive Water and Sewer Plan is found to be unconstitutional, illegal, null or void, it is the intent of the Board of County Commissioners to sever only the invalid portion or provisions, and that the remainder of the Comprehensive Water and Sewer Plan shall be enforceable and valid; and

BE IT FURTHER RESOLVED by the Board of County Commissioners of Calvert County that this enactment shall be effective, without publication of fair summary, upon approval of the Maryland Department of the Environment pursuant to Section 9-507 of the *Environment Article* of the Maryland Annotated Code.

DONE, this 15th day of April, 2014, by the Board of County Commissioners of Calvert County, Maryland, sitting in regular session.

Aye: 5
Nay: 0
Absent/Abstain: 0

ATTEST:

BOARD OF COUNTY COMMISSIONERS OF CALVERT COUNTY, MARYLAND

Maureen L. Frederick
Maureen L. Frederick, Clerk

Pat Nutter
Pat Nutter, President

Steven R. Weems
Steven R. Weems, Vice-President

Approved for form and legal sufficiency on April 4, 2014 by:

Gerald W. Clark
Gerald W. Clark

John B. Norris, III
John B. Norris, III, County Attorney

Susan Shaw
Susan Shaw

Evan K. Slaughenhaupt Jr.
Evan K. Slaughenhaupt Jr.

Received for Record 4/23 2014
at 10:40 o'clock A.M. on this day
of 44
254 COUNTY COMMISSIONERS
RESOLUTION.

John B. Norris, III

**Table No. 10
 Inventory of Existing Sewage Treatment Plants**

| Name (Owner) | Type Treatment | Occupied / Vacant Acres | Point Discharge of | Max Site Capacity Secondary / Advanced (MGD) | Existing Capacity (MGD) | Flows (MGD) Average Peak | Operating Agency |
|---|--|-------------------------|--|--|-------------------------|--------------------------|---|
| | activated sludge treatment with nitrification/denitrification, clarification | acres | discharge (basins) | | | | and Sewerage |
| Industrial | | | | | | | |
| Calvert Cliffs (Constellation Energy) | Activated sludge (tertiary system), oxidation ditch, nitrification/denitrification | | Direct discharge (Chesapeake Bay) | | 0.0665 | 0.0126 | Maryland Environmental Service (MES) |
| Naval Research Facility, Randle Cliff (US Navy) | Communion, pre-chlorination, primary sedimentation, chlorination, filtration | | Direct discharge - effluent cascade (Chesapeake Bay) | | 0.075 | 0.03 | US Navy (Federal Government) |
| Private Community² / Institutional/Commercial | | | | | | | |
| Calvert Gateway Shopping Center | Package treatment system | | Underground | | | | Maryland Environmental Service (MES) |
| Regency Manor | Communal Septic | | Underground | | .014 | .028 | Water Services, Inc. |
| Northern High School | Bar screening, extended aeration, clarification, filtration, UV disinfection | 1 acres | Direct discharge (wetlands to Graham Stream) | | 0.040 | 0.017 | Calvert County DPW - Division of Water and Sewerage |
| Tapestry North | Fast Activated Sludge Treatment (FAST) System | | Underground discharge (drain fields) | | | | Calvert County DPW - Division of Water and Sewerage |

G. SEPTAGE AND SLUDGE DISPOSAL

1. Septage

Most of the homes in the County utilize individual septic tanks. These tanks should have regular service including the pump-out of solid and liquid waste. The Calvert County Health Department issues permits for scavenger service operators under provisions of Maryland Department of the Environment Regulation, COMAR 26.04.02.08. The permit

19. The Solomons WWTP Disposal Fields Rehabilitation Project will address the failing rapid sand filters at the Solomons Wastewater Treatment Plant. Approximately 14 sand bed needs to be replaced. Each bed is approximately 1/4 acres in size and 3 feet deep. In addition to the rehabilitation of the existing system, a reuse option will be explored in order to reduce the load on the rapid infiltration sand filters.
20. Huntingtown High School WWTP project will include replacing the WWTP that cannot meet the nitrogen removal requirement with a wastewater pumping station and installation of a new force main to redirect all flow from the Huntingtown High School to Marley Run WWTP. This is a Calvert County Board of Education capital project and does not appear on Table 13. The project will result in a nitrogen credit.

G.2. PRIVATE COMMUNITY/COMMERCIAL

Recommended priorities for provisions of sewerage facilities are summarized in Table 13B.

1. **Shoppes at Apple Greene is a multi-use system rated for disposal of a yearly average wastewater flow of 23,639 gallons per day. The effluent limitations are controlled under Groundwater Discharge Permit 13-DP-3400A. The wastewater generated by commercial/retail units is treated in a Sequential Batch Reactor with subsurface disposal of effluent to drip irrigation drain fields sized for one (1) complete system and one (1) replacement system. A storage lagoon sized for 31.6 days of storage (746,818 gallons) is also part of the system. The system will be privately owned and operated by a Maryland Licensed Operator.**
2. **Regency Manor Mobile Home Park is a multi-use system rated for disposal of a yearly average wastewater flow of 14,256 gallons per day. The wastewater generated by residential units is treated in an Orenco Advantex Plant with subsurface disposal of effluent to drip irrigation fields sized for one (1) complete system and one (1) replacement system. The system will be privately owned and operated by a Maryland Licensed Operator.**

Table No. 13A

Immediate, 5 and 10 Year Priorities for Sewerage Development – Municipal (Public)

| Fiscal Year and Project Number | County Priority Assigned | Description Total | PL 660 ² Eligibility | Costs ¹ | | Projected Schedule | | |
|--------------------------------|--------------------------|--|---------------------------------|---------------------|-------------------|--------------------------|----------------------------|-----------------------|
| | | | | Other Federal Local | Preliminary Plans | Financial Plans | Start Construction | Complete Construction |
| FY16 Proj. # - | 1a, 1b, 1c, 2b & 2d | Solomon Harbor Wastewater PS Upgrade | N/A | 0.760 | No | State Loan (or Co. Loan) | FY17 (Engineering in FY16) | FY19 |
| FY16 Proj. # - | 1a, 1b, 1c, 2b & 2d | Prince Frederick Forcemain Extension from PS3 to FM on 231 | - | 0.665 | No | State Loan (or Co. Loan) | FY17 (Engineering in FY16) | FY17 |
| FY16 Proj. # - | 1a, 1b, 1c, 2b & 2d | Prince Frederick Upgrade Pump Station #6 | N/A | 0.780 | No | State Loan (or Co. Loan) | FY17 (Engineering in FY16) | FY19 |
| FY16 Proj. # - | 1a, 1b, 1c, 1d & 1e | The Solomons WWTP Disposal Fields Rehabilitation | Anticipated | 1.080 | No | State Loan (or Co. Loan) | FY16 (Engineering in FY15) | FY19 |

Table No. 13B

Immediate, 5 and 10 Year Priorities for Sewerage Development – Private Community/Commercial

| Fiscal Year and Project Number | County Priority Assigned | Description Total | PL 660 ² Eligibility | Costs ¹ | | Projected Schedule | | |
|--------------------------------|--------------------------|-------------------------|---------------------------------|---------------------|-------------------|--------------------|--------------------|-----------------------|
| | | | | Other Federal Local | Preliminary Plans | Financial Plans | Start Construction | Complete Construction |
| - | - | Shoppes at Apple Greene | N/A | 1.750 | Yes | - | FY14 | FY15 |
| - | - | Regency Manor | N/A | - | Yes | - | FY14 | FY15 |

H. CAPITAL IMPROVEMENTS FOR WATER AND SEWER

Based on the 'needs' list and priorities list described in previous sections, a Capital Improvement Program (CIP) can be developed. Recommended CIP projects are illustrated in Table 14.

1 Based on real dollar values, in millions of dollars.

2 Public Law 660, Section 8, Federal Water Pollution Control Act, provides grants for state water-pollution control programs and authorized the granting of funds for construction of necessary treatment works to prevent the discharge of untreated sewage.