

A Resolution Approving Participation by the City in a Demonstration Program of the Maryland Department of the Environment for Smart Integrated Stormwater Management Systems
R-49-2015

City of Glenarden, Maryland
2015 Legislation

Resolution: R-49-2015
Sponsor: Councilwoman Elaine Carter
Co-Sponsor: At the Request of the Administration
Session: Regular Session
Date of Introduction: May 11, 2015

A Resolution Approving Participation by the City in a Demonstration Program of the Maryland Department of the Environment for Smart Integrated Stormwater Management Systems

WHEREAS, the Maryland Department of the Environment (MDE) is partnering with the Maryland Department of Natural Resources, the Metropolitan Washington Council of Governments (MWCOCG), Montgomery County Department of Environmental Protection, and the District Department of the Environment on a National Fish and Wildlife Foundation funded research project to demonstrate the use of Smart Integrated Stormwater Management Systems (SISMS) in the Anacostia watershed; and

WHEREAS, the objective of this research project is to provide information on the use of SISMS technology to enhance pollutant removal capacity in stormwater facilities and complement the County's efforts to improve water quality in urban stormwater; and

WHEREAS, it is expected that the use of SISMS technology will prove to be a more cost effective method for retrofitting the existing stormwater infrastructure than the current methods; and;

WHEREAS, the City owns a certain a stormwater management pond known as the Frost Property Pond #1, which Pond is maintained by Prince George's County, Department of Public Works and Transportation (DPW&T) via a stormwater easement; and

WHEREAS, MWCOCG and its consultant, Geosyntec Consultants (GC), have identified the Frost Property Pond #1 as the preferred site for the implementation of the retrofit project; and

WHEREAS, the proposed project implementation includes the installation of a control valve to the low flow restrictor pipe, which valve will be operated based on wet weather forecasts to maximize hydraulic retention time within the pond, a water quality probe downstream of the valve, and a solar powered control panel; and

44 WHEREAS, Geosyntec Consultants will perform all necessary modifications and will
45 monitor the results for a minimum period of one year with the option of an extension; and
46

47 WHEREAS, after the initial study period (estimated, but not limited to two years),
48 DPW&T will evaluate the benefits of the use of SISMS technology at this site and will take
49 over operation of the pond either in its modified state or in its original operating condition;
50 and
51

52 WHEREAS, it is anticipated that this project will not adversely impact the operation
53 of the pond nor be a nuisance to adjacent property owners, the retrofit will include no major
54 civil work, and it is expected that the retrofit can be completed by a small crew with hand
55 tools and light power tools; and
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57 WHEREAS, all work on the pond will be performed upon proper engineering
58 evaluation and all required safeguards and standards through the County's Department of
59 Permitting, Inspections and Enforcement (DPIE) will be strictly enforced; and
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61 WHEREAS, the Mayor and City Council support the use of advanced technology to
62 improve stormwater management, enhance pollutant removal capacity in stormwater facilities
63 and support the development of more cost effective method for retrofitting existing stormwater
64 infrastructure.
65

66 **NOW THEREFORE, BE IT RESOLVED by the City Council of Glenarden,**
67 **Maryland sitting in Regular Session this 11th day of May, 2015 as follows:**
68

- 69 1. That the City Council consents to the project and authorizes MWCOG and GC to proceed
70 with the project described herein.
71
- 72 2. This Resolution shall take effect immediately upon passage.
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74

75 ATTEST:

76 **City Council of Glenarden**

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78 _____
79 Toni Taylor, Council Clerk
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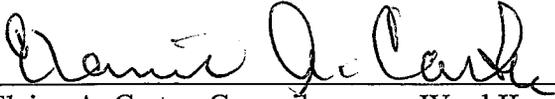


Carolyn Smallwood, President, Ward I
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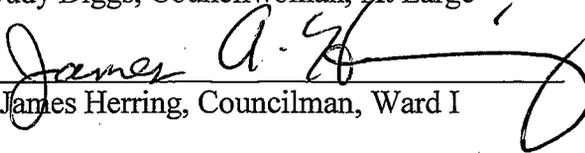


Deborah A. Eason, Vice Chair, Ward II
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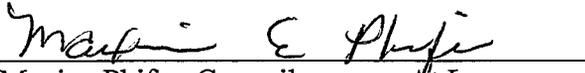
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Elaine A. Carter, Councilwoman, Ward II

Judy Diggs, Councilwoman, At Large


James Herring, Councilman, Ward I

Jennifer Jenkins, Councilwoman, Ward III


Maxine Phifer, Councilwoman, At Large

Votes:

100
101
102
103

Yes
No
Abstain

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0
0



THE PRINCE GEORGE'S COUNTY GOVERNMENT

Department of the Environment

March 30, 2015



Rushern L. Baker, III
County Executive

Adam Ortiz
Director

Mr. Kenneth Jones
City Manager
City of Glenarden
8600 Glenarden Parkway
Glenarden, Maryland 20706

Dear Mr. Jones:

The Department of the Environment (DoE) is partnering with the Maryland Department of Natural Resources, the Metropolitan Washington Council of Governments (MWCOC), Montgomery County Department of Environmental Protection, and the District Department of the Environment on a National Fish and Wildlife Foundation funded research project to demonstrate the use of Smart Integrated Stormwater Management Systems (SISMS) in the Anacostia watershed. The objective of this research project is to provide information on the use of SISMS technology to enhance pollutant removal capacity in stormwater facilities and complement the County's efforts to improve water quality in urban stormwater. It is expected that this will prove to be a more cost effective method for retrofitting the existing stormwater infrastructure than the current methods.

MWCOG and its consultant, Geosyntec Consultants (GC), have identified the Frost Property Pond #1 in the City of Glenarden as the preferred site for the implementation of this retrofit project. The pond is located near the intersection of Mueseubush Court and Barlowe Road on the parcel with Tax Account #1544493. The property is owned by the City of Glenarden and the pond is maintained by Prince George's County, Department of Public Works and Transportation (DPW&T) via a stormwater easement.

The proposed project implementation includes the installation of a control valve to the low flow restrictor pipe, a water quality probe downstream of the valve, and a solar powered control panel. The control valve will be operated based on wet weather forecasts to maximize hydraulic retention time

Mr. Kenneth Jones
March 30, 2015
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within the pond and thereby increase the water quality treatment. Geosyntec Consultants will perform all necessary modifications and monitor the results for a minimum period of one year with the option of an extension. After the initial study period (estimated, but not limited to two years), DPW&T will evaluate the benefits of the use of SISMS technology at this site and will take over operation of the pond either in its modified state or in its original operating condition.

It is anticipated that this project will not adversely impact the operation of the pond nor be a nuisance to adjacent property owners. The retrofit will include no major civil work, and it is expected that the retrofit can be completed by a small crew with hand tools and light power tools. All work on the pond will be performed upon proper engineering evaluation and all required safeguards and standards through the County's Department of Permitting, Inspections and Enforcement (DPIE) will be strictly enforced. See example photos of similar retrofits in Attachment A.

DoE requests formal consent from the City of Glenarden for MWCOG and GC to proceed with this project. Upon completion of the project, DoE and/or MWCOG will inform the City on the results of the project and how the County intends to operate the pond thereafter.

Should you have any questions or comments, please feel free to contact me at (301) 883-5812, or Jeff DeHan, Associate Director, Stormwater Management Division, at (301) 883-3638.

Sincerely,



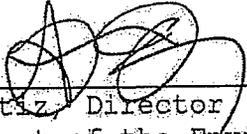
Adam Ortiz
Director

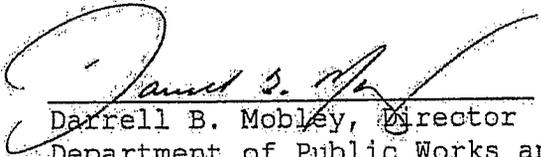
Enclosure

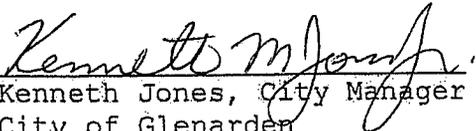
cc: Darrell B. Mobley, Director, DPW&T
Jeffrey M. DeHan, Associate Director, SMD, DoE

Acknowledgement

The signatories herein, agree and authorize the partnership of the Maryland Department of Natural Resources, Metropolitan Washington Council of Governments (MWCOG), and Geosyntec Consultants (GC), to proceed with the design and retrofit of pond appurtenances to demonstrate the SISMS technology for a period of at least one year. The MWCOG and GC assume all responsibilities for the installation, operation, and maintenance of all pond appurtenances of this project. During the implementation of the project, the Prince George's County Department of Public Works and Transportation (DPW&T) reserves the right to make GC perform changes or remove the SISMS technology at no cost to the County in case of an adverse impact on the pond or the surrounding environment. Upon completion of the project, DPW&T reserves the right to either maintain the installed SISMS technology at the pond or have GC remove the SISMS technology and restore the pond to its original operating condition.

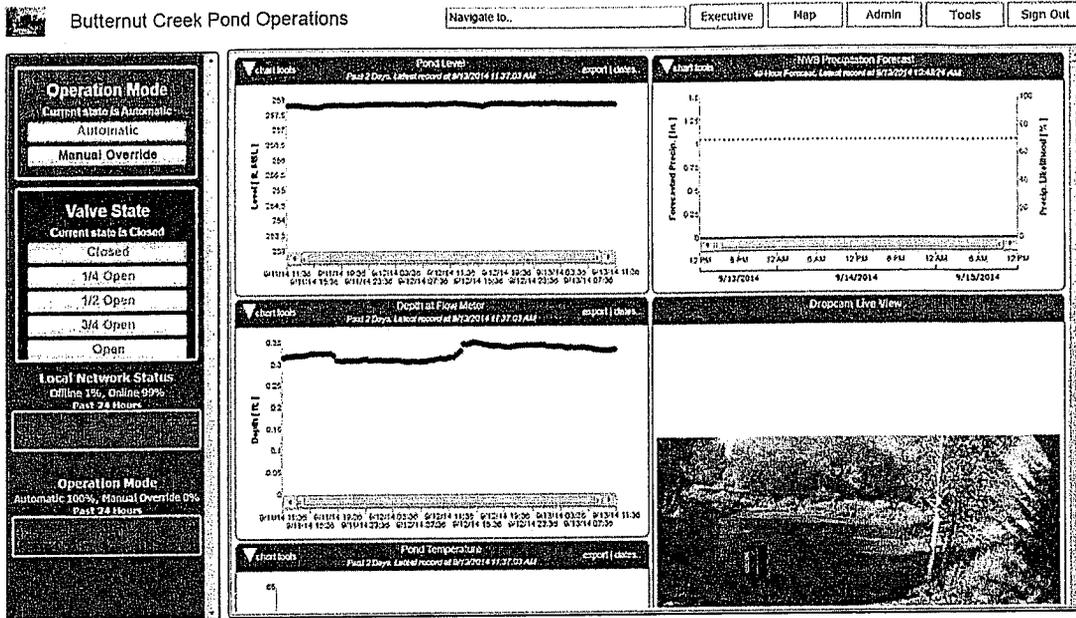

Adam Ortiz, Director
Department of the Environment


Darrell B. Mobley, Director
Department of Public Works and Transportation

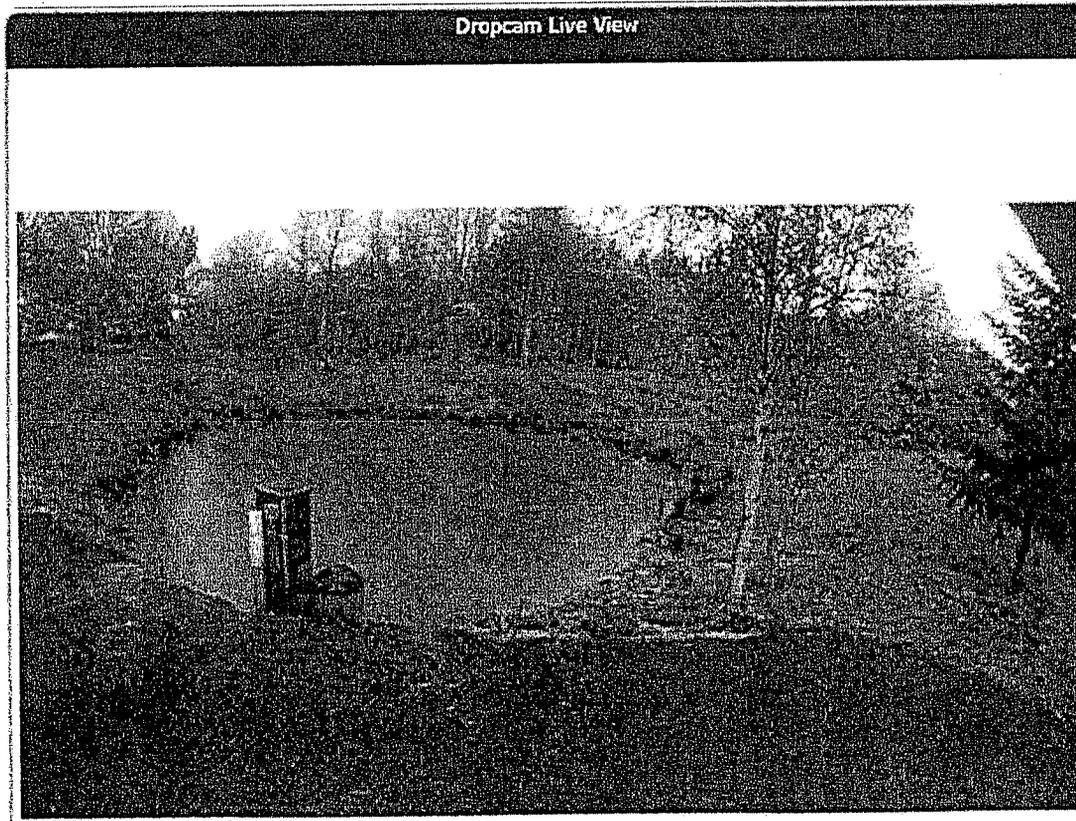

Kenneth Jones, City Manager
City of Glenarden

Attachment A

Dashboard View 1



Dashboard View 2



On-Site Solar Control Panel

