RESOLUTION OF THE TOWNSHIP OF IRVINGTON, NJ										
NoAPPROVED AS TO FORM AND LEGALIT	TY ON THE BASIS OF FACTS SET FORTH BY	Date of Adoption MAY 4, 2020  Legislande Research Officer								
PRESENTED BY COUNCIL MEMBER	R FREDERIC SE	ECONDED BY COX								
	IENT WORKS APPROVAL FOR ARY SEWER SIPHON PROJECT	THE TOWNSHIP OF MAPLEWOOD'S AT BOYDEN AVENUE								
WHEREAS, the Township of M sanitary sewer siphon in Boyden Street and Stuyvesant Avenue; ar	Avenue, which terminates in the	ment works Approval for the installation of a new Township of Irvington at the intersection of 40 <sup>th</sup>								

WHEREAS, the project will consist of construction almost entirely within the Township of Maplewood, with the terminus of the project being located in the Township of Irvington at the intersection of 40<sup>th</sup> Street and Stuyvesant Avenue; and

WHEREAS, the project is an upgrade to the existing system and will generate no greater volume of flow than is currently discharged in the Irvington sanitary sewer system; and

WHEREAS, the requirements of the New Jersey Department of Environmental Protection (NJDEP) require that any project that modifies a sewer interceptor requires a Treatment Works approval, the first portion of which is to obtain the approval of the owner of the collection system, which in this case is the Township; and

WHEREAS, the Township of Maplewood's consulting engineer, Mott MacDonald, has prepared a sewer study indicating that this project will not increase any flow into the Township of Irvington's sanitary sewer system and will not adversely affect the Township's sanitary sewer collection system; and

WHEREAS, the Township Engineer has reviewed this study and concurs in the conclusions in this study and recommends that a Treatment Works Approval be approved for this project.

NOW, THEREFORE, BE IT RESOLVED BY MUNICIPAL COUNCIL OF THE TOWNSHIP OF IRVINGTON that a Treatment Works Approval be granted to the Township of Maplewood for the construction of the Boyden Avenue Sanitary Siphon Project and that the Township Engineer be authorized to endorse this application on behalf of the Township.

	Y		A RESERVE STATE		D OF (	COUNCIL VOTE					
1	X = Indicates Vote $N.V. = N$		A.B. = Ab	sent							
	COUNCIL MEMBER	YES	<u>NO</u>	<u>N.V.</u>	<u>A.B.</u>	COUNCIL MEMBER	YES	NO	N.V.	A.B.	
	BEASLEY	X				INMAN				X	
٠	COX	X				VICK	X				
	FREDERIC, 2ND VICE PRESIDENT	X				BURGESS, PRESIDENT	X				
	HUDLEY, 1ST VICE PRESIDENT	X	1			- and gel					

PRESIDENT OF COUNCIL KENLL DE DUCCHONNICIPAL CLERCOLOL & MICHOLANDATE May 4, 2020

I hereby certify that the foregoing is a true copy of a Resolution duly adopted by the Municipal Council. In witness whereof I have hereunto set my hand and the Corporate Seal of the Township of Irvington.

MUNICIPAL CLERK

ADMINISTRATOR ASSESSOR BLDG CFO COLLECTOR COURT EDGO ENGINEER FIRE~CF HEALTH HOUSING INIC JUDGE LEGAL LIBR LICEN MAYOR NPP OCDP PARKS PAYROLL PUBLIC SAFETY~DIR PUBLIC WORKS PURCHASING SEC~PB/ZBA TRAFFIC ZONING~OFF DLGS GNCD OTHER(S):



## TOWNSHIP OF IRVINGTON Division of Engineering Irvington Municipal Building Civic Square, Irvington, NJ 07111

Tel: 973-399-6690 Fax: 973-399-6798

Tony Vauss, Mayor John A. Wiggins, P.E., P.P., Township Engineer

TO: Harold Weiner Municipal Clerk

FROM: John A. Wiggins, P.E., P.P., and Township Enginee

RE: Treatment Works Approval

Township of Maplewood Siphon Replacement Project

Boyden Avenue

Date: April 20, 2020

I am in receipt of a request for a Treatment Works Approval for the Township of Maplewood's Siphon Replacement that is to be located on Boyden Avenue and actually starts at the intersection of 40<sup>th</sup> Street and Stuyvesant Avenue. As the existing flow from this project currently enters the Irvington system for a short reach, this project requires a Treatment Works Approval (TWA) and is required prior to the issuance of an NJDEP permit in order to start their project.

Basically, this project consists of an upgrade to the existing Maplewood system. There is an existing single barrel sanitary sewer siphon on Boyden Avenue which conveys sewer flow under the Elizabeth River from Boyden Avenue to 40<sup>th</sup> Street and then to the Joint Meeting Interceptor sewer. Currently, the existing siphon is a single barrel siphon and the proposal will replace the existing single barrel siphon with a double barrel siphon. This is not meant to convey any additional sewer flow but to eliminate the maintenance problem of having a single barrel siphon.

A siphon is one of the ways that sewage can be conveyed below an obstruction, such as a river. Basically, a siphon resembles and works on the same principle as the elbow below a sink where flow goes into the bottom part of the elbow but is forced back up by hydrostatic pressure. The reason that Maplewood is looking to upgrade is that it is always better to have a 2 barrel siphon rather than one so, that in the case of maintenance of one of the barrels, you always have the second barrel that is operational.

A Treatment Works Approval is the permit process established by the New Jersey Department of Environmental Protection (NJDEP) by which a proposed project gains the right to connect to our sewer system. This process, which begins with the municipality, starts with the approval by the Township that our sewer system can accommodate the additional sewer flow or in this case, the impact of new construction. Our approval then moves to the facility that receives our sanitary sewer flow, in our case the Joint Meeting of Union and Essex County Sewers, so that they can determine if they have the capacity to receive and treat this additional flow. After that, those approvals are forwarded to NJDEP for their review and approval. Once that NJDEP approval is obtained, we receive a copy of the NJDEP approval and the project can be connected to our sewer system.

In this case, the only portion that impacts our sewer system is from the manhole at the intersection of 40<sup>th</sup> Street and Stuyvesant Avenue to the Joint Meeting Trunk Sewer. This connection currently exists so that this does not represent a new connection. Rather, it is an improvement of Maplewood's existing system and has no real effect to the Irvington system.

At this point in time, Maplewood's consultant for this project, Mott MacDonald, has supplied the plans, specifications and calculations to support that our system will not receive any additional flow and this project will not have any adverse impact on our sewer system. I have reviewed those calculations and concur in their conclusion.

Therefore, I recommend that the Municipal Council approve by resolution a Treatment Works Approval for the Township of Maplewood Siphon Replacement Project located at Boyden Avenue. I have prepared a draft of a resolution that approves this application and allows me to endorse this permit application on behalf of the Township.

Should you have any questions or comments with respect to the above, please feel free to contact me.

/jaw

CC: Althea Headley, Purchasing Agent/Asst. Business Administrator Musa Malik, Business Administrator

## RESOLUTION FOR A TREATMENT WORKS APPROVAL FOR THE TOWNSHIP OF MAPLEWOOD'S SANITARY SEWER SIPHON PROJECT AT BOYDEN AVENUE

WHEREAS, the Township of Maplewood, has applied for a Treatment works Approval for the installation of a new sanitary sewer siphon in Boyden Avenue, which terminates in the Township of Irvington at the intersection of 40<sup>th</sup> Street and Stuyvesant Avenue; and

WHEREAS, the project will consist of construction almost entirely within the Township of Maplewood, with the terminus of the project being located in the Township of Irvington at the intersection of 40<sup>th</sup> Street and Stuyvesant Avenue; and

WHEREAS, the project is an upgrade to the existing system and will generate no greater volume of flow than is currently discharged in the Irvington sanitary sewer system; and

WHEREAS, the requirements of the New Jersey Department of Environmental Protection (NJDEP) require that any project that modifies a sewer interceptor requires a Treatment Works approval, the first portion of which is to obtain the approval of the owner of the collection system, which in this case is the Township; and

WHEREAS, the Township of Maplewood's consulting engineer, Mott MacDonald, has prepared a sewer study indicating that this project will not increase any flow into the Township of Irvington's sanitary sewer system and will not adversely affect the Township's sanitary sewer collection system; and

WHEREAS, the Township Engineer has reviewed this study and concurs in the conclusions in this study and recommends that a Treatment Works Approval be approved for this project.

NOW, THEREFORE, BE IT RESOLVED BY MUNICIPAL COUNCIL OF THE TOWNSHIP OF IRVINGTON that a Treatment Works Approval be granted to the Township of Maplewood for the construction of the Boyden Avenue Sanitary Siphon Project and that the Township Engineer be authorized to endorse this application on behalf of the Township.



Mr. Jamel C. Holley Director Department of Public Works Township of Irvington Municipal Building 1 Civic Square Irvington, New Jersey 07111

> Township of Maplewood Boyden Avenue - Siphon Replacement Treatment Works Approval - WQM-003 Consent Form

MM Project 507 101311

April 13, 2020

111 Wood Avenue South Iselin NJ 08830-4112 United States of America

Mr. Holley:

CC:

T +1 (800) 832 3272 F +1 (973) 376 1072 mottmac.com/americas

The Township of Maplewood is proposing to replace its Boyden Avenue siphon with a new double barrel siphon. As the Township's wastewater flow is conveyed through the Township of Irvington's sanitary sewer collection system prior to reaching the Joint Meeting of Essex and Union Trunk Sewer System, the Township is issuing the appropriate Treatment Works Approval documentation (plans, technical specifications and NJDEP WQM-003 Consent Form) to the Township for your review.

Please review the documentation and execute the WQM-003 Consent Form and return it to Mott MacDonald. Should you have any questions concerning the design of the siphon replacement, do not hesitate to contact me.

Very truly yours,

Mott MacDonal

James F McGoldrick PE Associate

T 973.912.3478 C 908.300.4769

Paul Kittner, PE, Township of Maplewood, Director of DPW / Engineer