

# **Two Rivers Water Reclamation Authority**

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<http://trwra.org>

*Fair Haven  
Little Silver  
Monmouth Beach*

*Oceanport  
Shrewsbury  
West Long Branch*

**TO:** The Mayors of Eatontown, Fair Haven, Little Silver, Monmouth Beach, Oceanport, Red Bank, Rumson, Sea Bright, Shrewsbury Borough, Shrewsbury Township, Tinton Falls, West Long Branch, Eatontown Sewerage Authority Chairman

**FROM:** Michael A. Gianforte, P.E., Executive Director

**DATE:** September 5, 2018

**SUBJECT:** Community Update – September 2018

In order to keep all towns served by Two Rivers Water Reclamation Authority informed about the activities of the Authority, we hereby provide this periodic update.

This is a summary of reports and action taken at the Authority's recent public meetings.

## **The Authority is planning two capital improvement projects and expects to utilize the State Infrastructure Trust to fund the projects**

### **1. Interceptor Rehabilitation and Pump Station Rehabilitation Projects**

In 2018 the Authority completed a project that lined 1800 feet of deteriorated interceptor downstream of the connection with Red Bank. This was paid for in current year funds and was included in the Customer Town Bills in 2018 primarily effecting Red Bank, who was consulted during the funding decision on the project.

The next phase of the Asset Management and Rehabilitation Program is the rehabilitation of the remaining pipes with a NASSCO pipe rating condition code of 4 or worse and the major interceptors that require cleaning. The Authority contracted with T & M Associates to design the rehabilitation and the project will be bid later this year. In addition, Pump Station 12 (serves Tinton Falls, Eatontown and both Shrewsburys) is being upgraded. The work, estimated to be 4 million dollars, is expected to be financed through the New Jersey Environmental Infrastructure Trust. A responsibility chart of the anticipated cost of the project per town will be distributed.

### **2. Pleasure Bay Interceptor and Main Pump Station**

The 48 inch interceptor crossing Pleasure Bay from Oceanport to Monmouth Beach has cracks and alignment depressions throughout its length. The line does not leak but has been identified as a critical vulnerability. Loss of sewage into the river, if the pipe failed, is estimated to be in excess of 700 million gallons before a bypass could be constructed. The Authority has authorized Mott

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**Customer Towns:** Eatontown • Fort Monmouth • Red Bank • Rumson • Sea Bright • Shrewsbury Township • Tinton Falls

McDonald to perform a conceptual design of the alternatives for the pipe replacement or rehabilitation including connection of the interceptor to the inevitable replacement or rehabilitation of the existing Main Pump Station and the connection of the 30 inch pipe from Rumson, Sea Bright and Monmouth Beach. All alternatives are being considered in the conceptual design.

### **Upcoming Plant projects**

1. Filter Building Rehabilitation Project  
Replacement of filter media and roof, rehabilitate backwash bridges and rails, removal of unused duct work, recoat interior surfaces against corrosion
2. Replacement of 20 year old Plant SCADA PLCs and fiber optic repairs
3. Replacement of 20 year old Variable Frequency Drive's

### **Main Pump Station Variable Frequency Drive Replacement**

The Authority's variable frequency drives at the Main Pump Station are 18 years old and no longer are supported nor have available spare parts. Completion of the Station replacement is at least 4 years from being commissioned. The Authority has contracted for their replacement through the North Jersey Wastewater Cooperative and realized substantial savings of time and cost compared to conventional bidding.

### **Challenge to S848**

The Authority filed a complaint in federal court challenging the constitutionality of the law and seeking other relief.

Raritan Valley Sewerage Authority and Plainfield Area Regional Sewerage Authority have filed a similar complaint. Other Authorities are considering filing a similar complaint.

The Authority and the Association of Environmental Authorities have worked with Senators to prepare a Bill to correct the problems created by S848. That draft bill is expected to be introduced in the next session. The DLGS has recently informed the AEA that the 2% cap will not be implemented until the 2020 budget year.

### **Miscellaneous**

- The Authority joined the North Jersey Wastewater Cooperative Pricing System.
- The Authority donated surplus lab equipment (beyond its useful life for regulatory compliance) to Holmdel High School where they have a high level curriculum written around the TRWRA Treatment process.
- The Authority hired 2 interns to perform a portion of the laboratory database conversion. The work performed by the interns realized an estimated total savings of over \$30,000 compared to a State Contract software vendor.
- The Authority approved a budget that is again in compliance with the future 2% cap law.



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# CONCEPTUAL DESIGN AND BUDGETARY COST ESTIMATES FOR REHABILITATION OF MAJOR INTERCEPTORS

Two Rivers Water Reclamation Authority

APRIL 12, 2018



**PREPARED BY:**  
Christine A. Ballard, PE  
Project No. TRWA-0002

**COST BREAKDOWN BY REHABILITATION METHOD****Sekisui Rehabilitation**

LS-LST-1 to LS-336	\$215,000
LS-160-B to LS-119	\$140,000
<b>TOTAL</b>	<b>\$355,000</b>

**CIPP Lining and Spot Repairs**

LS-281 to LS-Siphon-CH	\$295,000
LS-74 to LS-75	\$80,000
LS-299 to LS-298	\$345,000
LS-560 to LS-561	\$130,000
MB-40 to MB-13	\$120,000
LS-558 to LS-559	\$120,000
OP-91 to OP-92	\$35,000
<b>TOTAL</b>	<b>\$1,125,000</b>

**Cleaning and CCTV**

30" Cleaning and CCTV	5875 LF	~\$150,000
33" Cleaning and CCTV	1771 LF	~\$45,000
36" Cleaning and CCTV	4517 LF	~\$115,000
42" Cleaning and CCTV	3435 LF	~\$150,000
48" Cleaning and CCTV	2494 LF	~\$110,000
Port Au Peck Ave Section (48")		~\$200,000
Clearing Easements		~\$75,000
<b>Total</b>		<b>~\$845,000</b>

**Total Construction Cost Estimate    \$2,325,000**

**HOBAS Slip Lining**

OP-255 to MB-8	\$4,750,000
<b>TOTAL</b>	<b>\$4,750,000</b>

**Total Construction Cost Estimate (With HOBAS)    \$7,075,000**

