

A Middlesex Water Company Affiliate

February 12, 2020

Via electronic mail delivery

Mr. Darrin Gordon General Manager Lewes Board of Public Works 107 Franklin Avenue Lewes, DE 19958

Subject: Monthly Report, January 2020

Dear Mr. Gordon:

Attached is a summary of the Operations and Maintenance activities at the Board's lift stations and wastewater treatment plant for the month of January, 2020 Please direct any questions to my attention. Thank you.

Sincerely.

Paul S. Peris

Director of Production and Maintenance

White Marsh Environmental Systems, Inc.

## I. Effluent Quality and Compliance

**January 2019 Effluent Testing** 

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	7.74 mg/L	.15 mg/l	<2.40 mg/L	<0.68 mg/L	<b>&lt;1.0</b>
Maximum	N/A	N/A	<2.40mg/L	<0.68 mg/l	Col.
Permit Limit:	8 mg /L average	2 mg /L average	15 mg/L average	15 mg/L average	10 Col. average
			23 mg/L MAX	23 mg/l MAX	

Maximum daily flow: 0.8751 MGD Monthly average flow: 0.6789 MGD

## II. Activities – January 2020

## **Lift Stations**

- 1/6/2020 Station #11pump #2 installed
- 1/15/2020 Inspected pump stations #10 and #17
- 1/21/2020 Pumped water from manhole #5.
- 1/24/2020 Station #10 down due to contractors hitting electric main. Repairs completed and power restored.
- 1/29/2020 Station #10 had high level alarm. A blown fuse on power line was identified as the cause. Repairs completed and power restored.
- 1/31/2020 Inspected stations #2 and #10 for high amp draws. No issues with station.
   Discrepancy in Point Watch system fixed.
- Daily review of Point Watch system for lift stations.

## **Plant Activities**

- 1/02/2020 Wasted 10,000 gals from membrane #2 to anoxic tank. CDI hauled 8,000 gallons
- 1/10/2020 Installed turbidity meter at membrane back pulse tank,
- 1/10/2020 Drained train #2 membranes for inspection. Found air tubes installed under blanks. All cassettes pulled and inspected.
- 1/10/2020 Began receiving SUSSEX COUNTY flow
- 1/12/2020 Horney Industrial Electronics calibrated flow meters.
- 1/14/2020 Pump down train #3 membrane tank for recovery clean per Suez instructions.

- 1/16/2020 Ran mixer in EQ tank. Trash clogged the 2mm screen. EQ cleaning is being planned.
- 1/20/2020 Automatic waste valve is not working on PLC HMI. Manually wasting until Suez provides new HMI equipment.
- 1/22/2020 Maintenance replaced permeate pump in anoxic tank.
- 1/27/2020 Swapped out blower B-87A with rebuilt unit.
- 1/27/2020 Repaired eye wash station in process building.
- 1/29/2020 Wasted 5,000 gallons of sludge.
- 1/29/2020 CDI hauled 15,000 gallons sludge from digester

## **SAFETY INFORMATION**

- No work place injuries.
- PPE inspected.
- Eyewash and fire extinguisher inspections conducted. Process building eye wash repaired and cleaned.

## **ADDITIONAL INFORMATION**

- Operators are still having issues with the HMI. The replacement unit on order with Suez is needed as guickly as possible. Action: order needed from Suez as soon as possible.
- While the plant was offline in December 2019, the mixers were off and solids and trash settled to the bottom of EQ. There are no records of the EQ being drained and cleaned. The mixers are being run intermittently to keep the screens from clogging. Recommend cleaning prior to peak season. Action: Approval needed from BPW to proceed.
- Breakwater is scheduled to replace chemical lines in February.
- Sussex County is back on line and all three trains are working well.
- Critical parts inventory being evaluated. Results will be submitted to BPW. Action: WMES to submit to BPW by March 1, 2020.
- Bio solids hauler in works to renew permit with DNREC, liquid hauling required until permit given. \*Permit received 2/10/20

## **Items Needed from BPW**

Update Zenon/Suez O&M Manual with recommended set points.

## LEWES WWTF NUTRIENT OFFSET REPORT

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			3,179,281.41	. **	•						Year
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Mappine Mappine	lotal Monthly	Monthly	Manure	Poultry Manure	Poultry	11.8 lbs	Total Monthly	Monthly	Average		
IP Based			Poultry			IN Based					

Comments:

Authorized Signatory

2/4/2020 DATE

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):

NAME

FACILITY

## **DISCHARGE MONITORING REPORT (DMR)**

LOCATION **ADDRESS** Howard Seymour Water Reclamation Plant 116 American Legion Road, Lewes, DE 19958 US 116 American Legion Road, Lewes, DE 19958 US Howard Seymour Water Reclamation Plant FROM PERMIT NUMBER

MONITORING PERIOD DISCHARGE NUMBER 9

DE0021512

2020 01 01

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2020 01 31

STATUS OF SUBMISSION

Not Submitted

DATA ENTRY COMPLETE

REPORT SUBMITTED BY REPORT DESIGNATOR

➣

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

In January due to issues at plant as per DNREC we took a total of 15 enterococcus samples on the 001 discharge for the month to track compliance. The results were excellent and copies of results are available upon request.

TYPED OR PRINTED	**************************************	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
MCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.	PROCEST, CONTRER AND SALLIATE THE INFORMATION SUBMITTED, BASED VAIL WINDLING FOR THE PRESON OR PROCESS. VOIL THE VAIL SALLIATE THE PROCESS OF STREAM PROPERTY RESPONSIBLE THE THE FREE OR THE PROCESS OF STREAM PROPERTY RESPONSIBLE THE STREAM OR THOSE FROM BEING THE FREE OR SALTERNAME THE FREE PROCESS OF STREAM PROPERTY RESPONSIBLE THE VAIL FREE PROCESS OF STREAM PROCESS O	I CERTINY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY INDECTION OF SIDERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL
OFFICER OR AUTHORIZED AGENT	ñ	CH DIGITAL SIGNATURE RECEIPT FROM
		TELEPHONE
YEAR MO DAY		TELEPHONE DATE

NDI (No Data Indicator) Reasons: 8 - No Sample (Other): 9 - No Sample (Monitoring Not Required this Monitoring Period): B - Not Detected; C - No Sample (No Discharge)

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):

116 American Legion Road, Lewes, DE 19958 US Howard Seymour Water Reclamation Plant

Howard Seymour Water Reclamation Plant

NAME

LOCATION FACILITY ADDRESS

## DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER DE0021512 MONITORING PERIOD

DISCHARGE NUMBER 9

DATA ENTRY COMPLETE REPORT SUBMITTED BY REPORT DESIGNATOR

➣

Not Submitted

	2/3		2/2		2/1	**		ر ور
Gross Effluent (00665) PERMIT	Phosphorus, Total	Gross Effluent (00600) REQUIR	Total Nitrogen	Raw Sewage (00530) PERMIT	TSS		PARAMETER	LOCATION 116 American
5) PERMIT REQUIREMENT	SAMPLE MEASUREMENT	O PERMIT REQUIREMENT	SAMPLE MEASUREMENT	O) PERMIT REQUIREMENT	SAMPLE MEASUREMENT			116 American Legion Road, Lewes, DE 19958 US
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No Monitoring Required		No Monitoring Required		No Monitoring Required		MINIMUM		ТО
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No Limit   Monitoring Reqd	0.15	No Limit   Monitoring Reqd	7.74	No Limit   Monitoring Reqd	88.1	MAXIMUM	TY OR CONCENTRATION	STATUS OF SUBMISSION Not Submitted
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01/30	01/30	01/30	01/30	01/30	01/07		NO. FREQUENCY EX. OF ANALYSIS	ted
Composite 24	Composite 24	Composite 24	Composite 24	Composite 24	Composite 24		NO. FREQUENCY SAMPLE TYPE EX. OF ANALYSIS	

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OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE	CACIMERAY)	JATTACH DIGITAL SIGNATURE RECEIPT FROM
			TELEPHONE
YEAR MO DAY			DATE

## Submission Receipt

## Copy of Record: 51058 Confirmation ID: d202021351058

Site: Howard Seymour Water Reclamation

Plant

Site ID: DE0021512

Submission: Discharge Monitoring Report for DE0021512 Howard Seymour

Water Reclamation Plant Outfall: 001, January, 2020

File Name: 20201-2227-60749445

File Type: ,pdf

Report: DMR

Status: Signed

Hash of Data Document:

0e6f4cd5f95538a01ffa00afffac89bf8cda2b13b073ab2b6ea37f51a1396969

Data Entry Completed: 2/13/2020

3:18 PM

By: David Weed (daveweed69)

EMail of Submittor: dweed@tuiwater.com

From: 208.87.234.202

Signed: 2/13/2020 3:21 PM

By: David Weed (daveweed69)

EMail of Signator: dweed@tuiwater.com

From: 208.87.234.202

Token Used When Signed: OqefP50FRXb21YkJYYLM2G3lrZN/sWZYwoowJInE1x8=