

WHITE MARSH
ENVIRONMENTAL SYSTEMS, INC.
A Middlesex Water Company Affiliate

April 15, 2019

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

Subject: Monthly Report, March 2019

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

Sincerely,



Mike Evans
District Manager
Tidewater Utilities, Inc.

I. Effluent Quality and Compliance

March 2019 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	6.26 mg/L	0.39 mg/L	<2.40 mg/L	<0.78 mg/L	<1.0 Col.
Maximum:	N/A	N/A	<2.40 mg/L	<1.00mg/L	<1.0 Col.
Permit Limit:	8 mg /L average	2 mg /L average	15 mg/L average 23 mg/L MAX	15 mg/L average 23 mg/l MAX	10 Col. average

Maximum daily flow 1.3321 MGD
 Monthly average flow 1.0168 MGD

II. Activities

STATION MAINTENANCE PERFORMED

- High level alarm at pump station #4.
- Pump station #10 was inspected due to a Point Watch warning.
- Tidewater maintenance installed new floats in the old E.Q. to ensure back up storage is ready.

MAINTENANCE PERFORMED

- Received sawdust and began mixing it with sludge.
- Power washed bed #7 to improve permeability
- Train #2 Air Cyclic valve jammed. The aerator valve was changed out by Tidewater Maintenance.
- Air valve #3 repaired.
- Operators pumped down the filtrate pit throughout the month. Maintenance installed 2 new replacement pumps in the filtrate pit.
- Maintenance repaired foam pump in the process building.
- Work done to repair water lines to the sludge building.
- Work was done on membrane desludging.
- Maintenance installed process blower "A".
- Prepared for annual DNREC inspection

Maintenance Continued:

- Work done to complete the sanitary survey/ lift station report.
- Replaced belt on air compressor "A".
- 2" non-potable water line going to the backwash tank was observed leaking badly. The process system was shut down to drain the backwash tank and line. Maintenance repaired the line.
- Keystone Engineering Group in to evaluate the vacuum drum press programable logic controller.
- George and Sons hauled 2 loads of dried biosolids with loading assistance provided by BPW.
- CDI continuing to haul liquid sludge.
- Annual Crane inspection conducted. All cranes passed.

SAFETY INFORMATION

No work place injuries.

PPE inspected.

Eyewash and fire extinguisher inspections conducted.

**Caustic lines in chemical building, process building, and in the retaining area of process building have deteriorated.

Crystallization is occurring causing a safety hazard. Leaking Caustic is seeping through the retaining wall in the process building as well.

ADDITIONAL INFORMATION

Whitemarsh has provided BPW two options for consideration to replace the Influent pumps MCC that have extensive corrosion.

Whitemarsh is evaluating the bioreactor air diffuser replacement project and has recently discussed options with BPW.

Whitemarsh is evaluating the caustic line replacement project and has recently discussed options with BPW.

Annual sludge testing completed, and sludge hauling has been approved for another year per Marcie Chapline.

April 17th tour date set for Woodbridge Elementary

Annual DNREC inspection conducted on April 15th.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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

NAME: Howard Seymour Water Reclamation Plant
 ADDRESS: 116 American Legion Road, Lewes, DE 19958 US
 FACILITY: Howard Seymour Water Reclamation Plant
 LOCATION: 116 American Legion Road, Lewes, DE 19958 US

PERMIT NUMBER: DE0021512
 DISCHARGE NUMBER: 001
 MONITORING PERIOD: FROM 2019 03 01 TO 2019 03 31

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 4/9/2019
 REPORT SUBMITTED BY: gloria.lefchick@stservic.es.com
 STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
1/1	Flow		1.0168	1.3321	Mil Gal/Day				0	99/99	RCOTOT
	Gross Effluent (50050)	-	No Limit Monitoring Req	No Limit Monitoring Req	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	-	99/99	RCOTOT
1/2	Dissolved oxygen (DO)					6.3	7.6	mg/l	0	99/99	Imersion
	Gross Effluent (00300)	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	No Limit Monitoring Req	mg/l	-	99/99	Imersion
1/3	pH					7.1	7.5	Std pH Units	0	01/01	Grab
	Gross Effluent (00400)	-	No Monitoring Required	No Monitoring Required		6	9	Std pH Units	-	01/01	Grab
1/4	Enterococcus						<1	CFU/100 ML	0	01/07	Grab
	Gross Effluent (37639)	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	104	CFU/100 ML	-	01/07	Grab
1/5	BOD5		<20.66	<26.66	lbs/Day		<2.4	mg/l	0	01/07	Composite 24
	Gross Effluent (00310)	-	188	288	lbs/Day	No Monitoring Required	15	mg/l	-	01/07	Composite 24
1/6	BOD5						183	mg/l	0	01/07	Composite 24
	Raw Sewage (00310)	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	No Limit Monitoring Req	mg/l	-	01/30	Composite 24
1/7	TSS		<6.82	<11.11	lbs/Day		<0.78	mg/l	0	01/07	Composite 24
	Gross Effluent (00530)	-	188	288	lbs/Day	No Monitoring Required	15	mg/l	-	01/07	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: _____ TELEPHONE: _____ DATE: _____
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: _____ YEAR: _____ MO: _____ DAY: _____
 TYPED OR PRINTED: _____



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
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DE0021512
PERMIT NUMBER

001
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REPORT DESIGNATOR: A
DATA ENTRY COMPLETE: 4/9/2019
REPORT SUBMITTED BY: gloria.lerchick@stservic
es.com
STATUS OF SUBMISSION: Submitted for Signature

2019 03 01
FROM

2019 03 31
TO

LOCATION: 116 American Legion Road, Lewes, DE 19958 US

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
2/1	TSS										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Monitoring Required	208	223	mg/l	
2/2	Raw Sewage (00530)		53.08	69.55	lbs/Day	6.26	6.26	No Limit Monitoring Req'd	6.26	mg/l	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	-	100	No Limit Monitoring Req'd	lbs/Day	8	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	
2/3	Total Nitrogen		3.31	4.33	lbs/Day	0.39	0.39	No Limit Monitoring Req'd	0.39	mg/l	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	-	25	No Limit Monitoring Req'd	lbs/Day	2	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	-									

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TELEPHONE

(ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERY)
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

YEAR	MO	DAY

TYPED OR PRINTED

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)

DNREC DISCHARGE MONITORING REPORT - DMR1 (EPA FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE), 2015.

PRINTED:

4/9/2019 3:15 PM PAGE 2 OF 2

Submission Receipt

Copy of Record: 43310 Confirmation ID: r20194943310

Site: Howard Seymour Water Reclamation Plant Site ID: DE0021512

Submission: Discharge Monitoring Report for DE0021512 Howard Seymour Water Reclamation Plant Outfall: 001, March, 2019

File Name: 20193-1805-60749445 File Type: .pdf

Report: DMR Status: Signed

Hash of Data Document:
4eb150f16a6f1e02003c43c2e27a4edd5c24e3322e0a88d55f037393948ec22a

Data Entry Completed: 4/9/2019 3:15 PM By: Gloria Lefchick
(gloria.lefchick@stservices.com)
EMail of Submitter: Glefchick@middlesexwater.com From: 107.20.242.105

Signed: 4/9/2019 3:49 PM By: Ronald Griffith
(rgriffith@tuiwater.com)
EMail of Signator: rgriffith@tuiwater.com From: 208.87.234.202

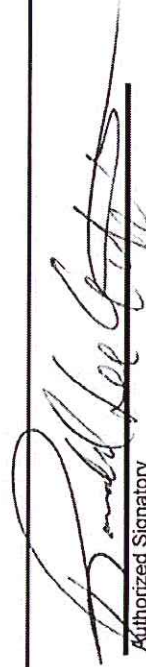
Token Used When Signed: AGzQn5rrgUfJskMHUAUNxPctfgAqjeRf3EnE1vVGs=

LEWES WWTF

NUTRIENT OFFSET REPORT

MONTH	Days	Average Monthly Flow	Monthly Average TN	Total Monthly TN Discharged	TN Based 16.9 lbs Manure Offset Required		Poultry Manure Relocated		Poultry Manure Offset Balance	Monthly Average TP	Total Monthly TP Discharged	TP Based 285 lbs Manure Offset Required
					Lbs.	Tons	Lbs.	Lbs.				
Carry Over		MGD										
January	31	0.8809	7.05	1605.62	27135.02			2,712,733.35				
February	28	0.9414	2.01	441.87	7487.60			2,685,471.93	0.42	95.65		27261.42
March	31	1.0168	6.26	1645.65	27811.49			2,674,820.89	0.17	37.37		10651.04
April	30			0.00	0.00			2,645,601.39	0.39	102.52		29219.50
May	31			0.00	0.00			2,645,601.39		0.00		0.00
June	30			0.00	0.00			2,645,601.39		0.00		0.00
July	31			0.00	0.00			2,645,601.39		0.00		0.00
August	31			0.00	0.00			2,645,601.39		0.00		0.00
September	30			0.00	0.00			2,645,601.39		0.00		0.00
October	31			0.00	0.00			2,645,601.39		0.00		0.00
November	30			0.00	0.00			2,645,601.39		0.00		0.00
December	31			0.00	0.00			2,645,601.39		0.00		0.00
Year Balance								2,645,601.39				

Comments:


 Authorized Signatory

4/11/19
DATE