

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

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

Subject: Monthly Report, May 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 May. Please direct any questions to my attention. Thank you.

Sincerely,



Mike Evans
District Manager
Tidewater Utilities, Inc.

I. Effluent Quality and Compliance

May 2019 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	5.21 mg/L	1.46 mg/L	<2.40 mg/L	<.83 mg/L	<1.0
Maximum:	N/A	N/A	<2.40mg/L	1.0 mg/L	<1.0
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 .9371

Monthly average flow .7581

II. Activities

STATION MAINTENANCE PERFORMED

- Maintenance pulled both pumps from pump station #16 to obtain data plate pump information to complete the lift station information log.
- Repaired wooden door to pump station #19 motor control center
- The #1 pump at station #19 was replaced. Worn volute.
 - BPW and CDI were utilized to pump out and clean lift station while work was performed. There is still trash at the very bottom that needs to be removed at a later date with confined space equipment.
- Repaired and rebuilt vacuum primers and air relief valves on pump stations 1,3,4, and 8.
- Replaced bad float at pump station #16

MAINTENANCE PERFORMED

- Through cleaning of head works building
- Pump down and inspect membranes in sludge thickener. Removed several damaged plates
- Replaced bad "off" float in sludge thickener
- Pumped out #3 electric manhole at plant due to failed sump pump
- Installed #2 mixer in flow equalization tank
- Cleaning of #4 train's membranes

SAFETY INFORMATION

No work place injuries

PPE inspected

Eyewash and fire extinguisher inspections conducted

ADDITIONAL INFORMATION

- Will be contacting vendor to discuss 4 broken/torn Kubota plate membranes in the sludge thickener in an effort to obtain their feedback and to assist us in assessing early failure of a these membranes.
- At the request of BPW, Whitemarsh Environmental Operators are thoroughly evaluating each lift station's debris build up, performance, and efficiency well in advance of the July 4th weekend. This is to ensure that any and all potential issues are identified and addressed prior to the holiday weekend.



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

DE0021512
 PERMIT NUMBER

001
 DISCHARGE NUMBER

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 6/13/2019
 REPORT SUBMITTED BY: gloria.leitchick@stservic
 es.com

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

FROM: 2019 05 01

TO: 2019 05 31

STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX. OF ANALYSIS	FREQUENCY	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
1/1	Flow	SAMPLE MEASUREMENT	0.7581	0.9371	Gal/Day				0	99/99	RCOTOT	
	Gross Effluent (50050)	PERMIT REQUIREMENT	No Limit Monitoring Req'd	No Limit Monitoring Req'd	Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	-	99/99	RCOTOT	
1/2	Dissolved oxygen (DO)	SAMPLE MEASUREMENT				3.45			7.04	99/99	Immersion	
	Gross Effluent (00300)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required		No Limit Monitoring Req'd	No Monitoring Required	No Limit Monitoring Req'd	7.6	99/99	Immersion	
1/3	pH	SAMPLE MEASUREMENT				7.1			9	01/01	Grab	
	Gross Effluent (00400)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required		6	No Monitoring Required	No Monitoring Required	<1	01/01	Grab	
1/4	Enterococcus	SAMPLE MEASUREMENT							<1	01/07	Grab	
	Gross Effluent (31639)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required		10	No Monitoring Required	No Monitoring Required	104	01/07	Grab	
1/5	BOD5	SAMPLE MEASUREMENT	<15.84	<17.3	Ibs/Day				<2.4	01/07	Composite 24	
	Gross Effluent (00310)	PERMIT REQUIREMENT	188	288	Ibs/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	15	01/07	Composite 24	
1/6	BOD5	SAMPLE MEASUREMENT							187	01/07	Composite 24	
	Raw Sewage (00310)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required		No Monitoring Required	No Monitoring Required	No Monitoring Required	<0.83	01/30	Composite 24	
1/7	TSS	SAMPLE MEASUREMENT	<5.5	<7.21	Ibs/Day				<1	01/07	Composite 24	
	Gross Effluent (00530)	PERMIT REQUIREMENT	188	288	Ibs/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	15	01/07	Composite 24	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 Gloria Leitchick and David Weed jointly checked and entered data for this submission.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: _____

ATTACH DIGITAL SIGNATURE RECEIPT FROM _____ TELEPHONE: _____ DATE: _____

CRUMERY

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: _____

YEAR: _____ MO: _____ DAY: _____



**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

DE0021512 PERMIT NUMBER
 001 DISCHARGE NUMBER
 MONITORING PERIOD

REPORT DESIGNATOR: A
 DATA ENTRY COMPLETE: 6/13/2019
 REPORT SUBMITTED BY: gloria.leitchick@stservic
 es.com

LOCATION: 116 American Legion Road, Lewes, DE 19958 US FROM: 2019 05 01 TO: 2019 05 31 STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM					UNITS
2/1	TSS	SAMPLE MEASUREMENT			-			162	223	0	0	01/07	Composite 24
	Raw Sewage (00630)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	0	01/30	Composite 24
2/2	Total Nitrogen	SAMPLE MEASUREMENT	32.94	37.56	lbs/Day	100	5.21	5.21	5.21	0	0	01/30	Composite 24
	Gross Effluent (00600)	PERMIT REQUIREMENT	-	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	0	01/30	Composite 24
2/3	Phosphorus, Total	SAMPLE MEASUREMENT	9.23	10.53	lbs/Day	9.23	1.46	1.46	1.46	0	0	01/30	Composite 24
	Gross Effluent (00665)	PERMIT REQUIREMENT	-	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	0	01/30	Composite 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 Gloria Leitchick and David Weed jointly checked and entered data for this submission.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: _____

ATTACH DIGITAL SIGNATURE RECEIPT FROM _____ TELEPHONE: _____ DATE: _____

CHROMERY

TYPED OR PRINTED: _____ SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: _____

YEAR: _____ MO: _____ DAY: _____

Submission Receipt

Copy of Record: 44994 Confirmation ID: r201961344994

Site: Howard Seymour Water Reclamation
Plant

Site ID: DE0021512

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

File Name: 20195-1891-60749445

File Type: .pdf

Report: DMR

Status: Signed

Hash of Data Document:

12914dd09da0f3abb63adacce2b1599176dd2c25d67b991f4354b6e1faf017b

Data Entry Completed: 6/13/2019
3:07 PM

By: Gloria Lefchick
(gloria.lefchick@stservices.com)

EEmail of Submitter:
Glefchick@middlesexwater.com

From: 107.20.242.105

Signed: 6/13/2019 3:54 PM

By: Ronald Griffith
(rgriffith@tuiwater.com)

EEmail of Signator: rgriffith@tuiwater.com

From: 208.87.236.201

Token Used When Signed: YUue/msYDMJvQNhyAXxH9Y5nEf1Y1ZTN4uF7JKJU4WQ=

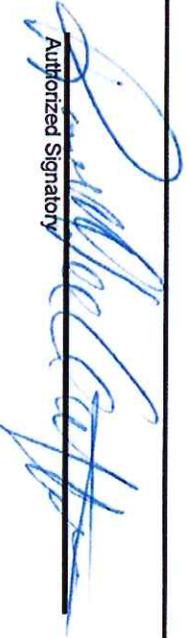
LEWES WWTF

NUTRIENT OFFSET REPORT

MONTH	Days	Average Monthly Flow MGD	Monthly Average TN mg/L	Total Monthly TN Discharged Lbs.	TN Based 16.9 lbs Manure Offset Required Lbs.	Poultry Manure Relocated Tons	Lbs.	Poultry Manure Offset Balance Lbs.	Monthly Average TP mg/L	Total Monthly TP Discharged Lbs.	TP Based 285 lbs Manure Offset Required Lbs.
Carry Over								2,712,733.35			
January	31	0.8809	7.05	1605.62	27135.02		-	2,685,471.93	0.42	95.65	27261.42
February	28	0.9414	2.01	441.87	7467.60		-	2,674,820.89	0.17	37.37	10651.04
March	31	1.0168	6.26	1645.65	27811.49		-	2,645,601.39	0.39	102.52	29219.50
April	30	0.8032	3.35	673.22	11377.39		-	2,614,673.55	0.54	108.52	30927.84
May	31	0.7462	5.21	1005.13	16986.64		-	2,534,398.47	1.46	281.67	80275.07
June	30			0.00	0.00		-	2,534,398.47		0.00	0.00
July	31			0.00	0.00		-	2,534,398.47		0.00	0.00
August	31			0.00	0.00		-	2,534,398.47		0.00	0.00
September	30			0.00	0.00		-	2,534,398.47		0.00	0.00
October	31			0.00	0.00		-	2,534,398.47		0.00	0.00
November	30			0.00	0.00		-	2,534,398.47		0.00	0.00
December	31			0.00	0.00		-	2,534,398.47		0.00	0.00
Year Balance								2,534,398.47			

Comments:

Authorized Signatory



DATE

6/13/19