

WHITE MARSH
ENVIRONMENTAL SYSTEMS, INC.

A Middlesex Water Company Affiliate

March 14, 2019

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

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

Sincerely,



Mike Evans
District Manager
Tidewater Utilities, Inc.

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 is evaluating hydrogen sulfide in the Gorman Rupp E.Q. pump cabinets.
- Whitemarsh is evaluating the bioreactor air diffuser replacement project.
- Two quotes to replace head works MCC submitted to BPW for consideration
- Quote submitted and approved to have Vacuum Press PLC inspected and to process control verified.
- Whitemarsh is evaluating the caustic line replacement project.
- Whitemarsh is also evaluating the odor complaints at station #4 to assist the BPW with developing a solution.
- High influent daily max flows and the monthly average flow significantly increased to station #4 contributed by the County pump station.
- Annual sludge testing completed, and sludge hauling has been approved for another year per Marcie Chapline.
- April 12th tour date set for the 3rd graders of Love Creek Elementary School.
- Meeting with Mike Evans (Whitemarsh) and Darrin Gordon (Board of Public Works) to discuss operations, current projects, L/S Pointwatch monitoring, and sludge management concerns.

I. Effluent Quality and Compliance

February 2019 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococci
Average:	2.01 mg/L	0.17 mg/L	<2.43 mg/L	<0.75 mg/L	<2.5 Col.
Maximum:	N/A	N/A	2.50 mg/L	1.0 mg/L	6 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 1.1546 MGD

Monthly average flow 0.9414 MGD

II. Activities

STATION MAINTENANCE PERFORMED

- High level alarm at lift station #19. Operators identified a bad level float and replaced it. The station was pumped down and inspected.
- Tidewater maintenance in to fabricate a part for a pump connection at lift station #15.
- Tidewater maintenance in to reseal pump at lift station #1.

MAINTENANCE PERFORMED

- A citric acid clean was conducted on the Zeeweed membranes to remove inorganic residue.
- Membrane desludging ongoing on train #4.
- Tidewater maintenance in to replace a VFI in Headworks enabling the new dehumidifier to run and reduce corrosion in the pump room.
- Tidewater maintenance replaced the timer light switch in the digester building.
- Operator alternated F Q pumps to reduce wear.
- Replaced filter at the grinder.
- A waterline broke at the digester building. BPW excavated the site and repairs were made. The site was backfilled.
- George and Sons hauled 3 tractor trailer loads of dried biosolids from the storage shed.



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, Levittown, DE 19958 US
FACILITY Howard Seymour Water Reclamation Plant

DE0021512
PERMIT NUMBER

001
DISCHARGE NUMBER

REPORT DESIGNATOR
DATA ENTRY COMPLETE
REPORT SUBMITTED BY

A
3/14/2019
gloria.lefchick@stservic
es.com
Submitted for Signature

MONITORING PERIOD

FROM 2019 02 01 TO 2019 02 28

STATUS OF SUBMISSION

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
1/1	Flow		0.5 - 14	1.1546	Mil Gal/Day				0	99/99	RCOTOT
	Gross Effluent (50050)	-	No Monitoring Required	No Monitoring Required	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	-	99/99	RCOTOT
1/2	Dissolved oxygen (DO)					4.42		6.88	0	99/99	Imersion
	Gross Effluent (00300)	-	No Monitoring Required	No Monitoring Required		No Limit Monitoring Req'd	No Monitoring Required	No Limit Monitoring Req'd	-	99/99	Imersion
1/3	pH					7.3		7.6	0	01/01	Grab
	Gross Effluent (00400)	-	No Monitoring Required	No Monitoring Required		6	No Monitoring Required	9	-	01/01	Grab
1/4	Enterococcus							6	0	01/07	Grab
	Gross Effluent (31639)	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	10	104	-	01/07	Grab
1/5	BOD5		<19.59	<21.48	lbs./Day		<2.4	<2.4	0	01/07	Composite 24
	Gross Effluent (00310)	-	188	288	lbs./Day	No Monitoring Required	15	23	-	01/07	Composite 24
1/6	BOD5						224	323	0	01/07	Composite 24
	Raw Sewage (00310)	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	01/30	Composite 24
1/7	TSS		<6.11	<8.3	lbs./Day		<0.5	1	0	01/07	Composite 24
	Gross Effluent (00530)	-	188	288	lbs./Day	No Monitoring Required	15	23	-	01/07	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

[ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMBIE]

ELECTRONIC SIGNATURE

DATE

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

YEAR MO DAY

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

DNREC DISCHARGE MONITORING REPORT - DMR1 JEP4 FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE, 2016.

PRINTED:

3/14/2019 10:30 AM

PAGE 1 OF 2



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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

NAME Howard Seymour Wastewater Reclamation Plant
ADDRESS 116 American Legion Road, Lewis DE 19958 US
FACILITY Howard Seymour Wastewater Reclamation Plant

DISCHARGE MONITORING REPORT (DMR)

DE0021512 PERMIT NUMBER
001 DISCHARGE NUMBER
REPORT DESIGNATOR
3/14/2019 DATA ENTRY COMPLETE
gloria.lerchick@stsenv.com REPORT SUBMITTED BY
Submitted for Signature STATUS OF SUBMISSION

LOCATION 116 American Legion Road, Lewis DE 19958 US

FROM 2019 02 01 TO 2019 02 28

MONITORING PERIOD

#	PARAMETER	SAMPLE MEASUREMENT	PERMIT REQUIREMENT	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX. OF ANALYSIS	FREQUENCY	SAMPLE TYPE
					AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
2/1	TSS			-	No Monitoring Required			No Monitoring Required	208	313	0	01/30	Composite 24
2/2	Total Nitrogen			-	1.78	13.68	lbs/day	No Monitoring Required	2.01	2.01	0	01/30	Composite 24
2/3	Gross Effluent (00600)			-	100	No Limit Monitoring Required	lbs/day	No Monitoring Required	8	No Limit Monitoring Required	-	01/30	Composite 24
	Phosphorus, Total			-	1.33	1.33	lbs/day	No Monitoring Required	0.17	0.17	0	01/30	Composite 24
	Gross Effluent (00665)			-	25	No Limit Monitoring Required	lbs/day	No Monitoring Required	2	No Limit Monitoring Required	-	01/30	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

(ATTACH DIGITAL SIGNATURE RECEIPT FROM CHROMERY)

ELECTRONIC SIGNATURE

DATE

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

YEAR MONTH DAY

NDI (No Data Indicated) Reasons: 8 - No Sample (Offline); 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), 2016.

PRINTED:

3/14/2019 10:00 AM PAGE 2 OF 2

Submission Receipt

Copy of Record: 42708 Confirmation ID: r201931442708

Site: Howard Seymour Water Reclamation
Plant

Site ID: DE0021512

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

File Name: 20192-1769-60749445

File Type: .pdf

Report: DMR

Status: Signed

Hash of Data Document:

09d8f61943a1ffc7d053e6b53a727fe1a62f8adc9c89782dec40bf66201fb179

Data Entry Completed: 3/14/2019
9:40 AM

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

E-Mail of Submitter:
Glefcick@middlesexwater.com

From: 107.20.14.23

Signed: 3/14/2019 3:38 PM

By: Ronald Griffith
(rgriffith@tuiwater.com)

E-Mail of Signator: rgriffith@tuiwater.com

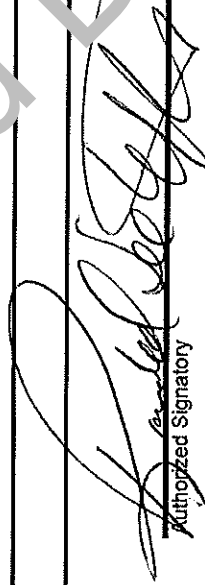
From: 108.27.234.202

Token Used When Signed: JaDloXMOpd5lXuGy/970QA2-BXAuLynh2AbZcqIkrA=

LEWES WWTF **NUTRIENT OFFSET REPORT**

MONTH	Days	Average Monthly Flow	Monthly Average TN	Total Monthly TN Discharged	TN Based 11.8 lbs Manure Offset Required	Poultry Manure Relocated	Poultry Manure Offset Balance	Monthly Average TP	Total Monthly TP Discharged	TP Based 11.8 lbs Manure Offset Required
Carry Over		MGD	mg/L	Lbs.	Lbs.	Tons	Lbs.	mg/L	Lbs.	Lbs.
January	31	0.8809	7.05	1605.6	18946.35	-	2,712,733.35			
February	28	0.9414	2.01	441.7	5214.06	-	2,693,787.00	0.42	95.65	1128.72
March	31			0.00	0.00	-	2,688,572.94	0.17	37.37	440.99
April	30			0.00	0.00	-	2,688,572.94		0.00	0.00
May	31			0.00	0.00	-	2,688,572.94		0.00	0.00
June	30			0.00	0.00	-	2,688,572.94		0.00	0.00
July	31			0.00	0.00	-	2,688,572.94		0.00	0.00
August	31			0.00	0.00	-	2,688,572.94		0.00	0.00
September	30			0.00	0.00	-	2,688,572.94		0.00	0.00
October	31			0.00	0.00	-	2,688,572.94		0.00	0.00
November	30			0.00	0.00	-	2,688,572.94		0.00	0.00
December	31			0.00	0.00	-	2,688,572.94		0.00	0.00
Year Balance							2,688,572.94			

Comments:


Authorized Signatory

3/14/19
DATE