

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,

Attached is a summary of the Operations and Maintenance activities at the Board's lift stations and wastewater treatment plant for the month of October, 2019. Please direct any questions to my attention. Thank you.

Sincerely,



Mike Evans
District Manager
Tidewater Utilities, Inc.

I. Effluent Quality and Compliance

October 2019 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	mg/L	mg/L	<2.40 mg/L	<0.8mg/L	.<1.2
Maximum:	6.81 N/A	1.72 N/A	<2.40 mg/L	<1 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 .8946

Monthly average flow .7122

II. Activities

STATION MAINTENANCE PERFORMED

- Installed five operating/alarm floats at #6 pump station
- 10-8 start up meeting at 17B pump station
- 10-14 pump check and amp draws PS#9
- Daily checks on Pointwatch, #6, #7, and #9 pump stations have periodic warnings for pumps not alternating. Alternation warnings stem from high demand and are not an electrical or fail issue.
- Hooked up new pump to electrical manhole #4. Both #3 and #4 manholes are pumping at regular intervals.

MAINTENANCE PERFORMED

- CES cleaned train #2
- Operators worked on diffuser clean valve.
- BPW and contractor installed mag meter in train #2. Thank you BPW
- Breakwater completed diffuser replacement on train #2
- Maintenance repaired transducer #1 membrane
- 10-10 start up meeting at pump station 17B
- Ordered replacement Kubota membranes for sludge thickener.
- Contractors removed equipment from job site.
- Repaired permeate pump #1. (love joy couplings)
- 10-19 changed oil on #3 permeate pump
- 10-20 #1 membrane shut down high pressure. Shut down plant, spent day getting plant back to normal operations.
- Skid steer back on site from having maintenance done.
- Received kick plates for trains #1 and #2
- 10-23 mag meter to Return Activated Sludge electrical hooked up and in operations
- Clean headwork's building
- 10-27 #3 shut down bad permeate pump. VFD Failure.
- 10-29 TUI Maintenance replaced VFD #3

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. Still an issue that needs to be resolved.

Chris Vickers replaced broken steps on digester building.

** During pump station checks it is a safety issue that some of the plants are missing locks. We need some replacements lock to match bpw keys and ours alike. Please advise?

ADDITIONAL INFORMATION

Train 3 in process building has not had membranes cleaned in a long time and could use a good cleaning. We would with your approval like to order some blanks for the membranes when they break. We just utilized the last set this month. Included with that we will need new 3" couplings and hitch pins from zenon.

Thank You David Weed



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):
 Howard Seymour Water Reclamation Plant
 116 American Legion Road, Lewes, DE 19958 US

NAME: DE0021512 **PERMIT NUMBER:** 001 **REPORT DESIGNATOR:** A
ADDRESS: 116 American Legion Road, Lewes, DE 19958 US **DISCHARGE NUMBER:** **DATA ENTRY COMPLETE:** 11/12/2019
FACILITY: Howard Seymour Water Reclamation Plant **MONITORING PERIOD:** FROM 2019 10 01 TO 2019 10 31 **REPORT SUBMITTED BY:** daveweed69
LOCATION: 116 American Legion Road, Lewes, DE 19958 US **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		0.7122	0.8946	Mil Gal/Day				0	99/99	RCOTOT
	Gross Effluent (50050)	-	No Limit Monitoring Req'd	No Limit Monitoring Req'd	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	-	99/99	RCOTOT
1/2	Dissolved oxygen (DO)					3.63	8.36	mg/l	0	99/99	Imersion
	Gross Effluent (00300)	-	No Monitoring Required	No Monitoring Required		No Limit Monitoring Req'd	No Limit Monitoring Req'd	mg/l	-	99/99	Imersion
1/3	pH					7.4	7.9	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						2	CFU/100 ML	0	01/07	Grab
	Gross Effluent (31639)	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	104	CFU/100 ML	-	01/07	Grab
1/5	BOD5		<13.74	<16.03	lbs/Day		<2.4	mg/l	0	01/07	Composite 24
	Gross Effluent (00310)	-	188	288	lbs/Day	No Monitoring Required	23	mg/l	-	01/07	Composite 24
1/6	BOD5						275	mg/l	0	01/07	Composite 24
	Raw Sewage (00310)	-	No Monitoring Required	No Monitoring Required		No Monitoring Required	No Limit Monitoring Req'd	mg/l	-	01/30	Composite 24
1/7	TSS		<4.66	<6.68	lbs/Day		<0.8	mg/l	0	01/07	Composite 24
	Gross Effluent (00530)	-	188	288	lbs/Day	No Monitoring Required	23	mg/l	-	01/07	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: _____ **TELEPHONE:** _____ **DATE:** _____
(ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERY)
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: _____ **YEAR:** _____ **MO:** _____ **DAY:** _____
TYPED OR PRINTED



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

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

DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER DE0021512
 DISCHARGE NUMBER 001
 REPORT DESIGNATOR A
 DATA ENTRY COMPLETE 11/12/2019
 REPORT SUBMITTED BY daveweed69
 STATUS OF SUBMISSION Submitted for Signature

MONITORING PERIOD

FROM 2019 10 01 TO 2019 10 31

#	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			--			338	0	01/07	Composite 24
	Raw Sewage (00530)	PERMIT REQUIREMENT	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	--	01/30	Composite 24
2/2	Total Nitrogen	SAMPLE MEASUREMENT	33.27	33.27	lbs/Day			6.81	0	01/30	Composite 24
	Gross Effluent (00600)	PERMIT REQUIREMENT	100	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	--	01/30	Composite 24
2/3	Phosphorus, Total	SAMPLE MEASUREMENT	8.4	8.4	lbs/Day			1.72	0	01/30	Composite 24
	Gross Effluent (00665)	PERMIT REQUIREMENT	25	No Limit Monitoring Req'd	lbs/Day	No Monitoring Required	No Limit Monitoring Req'd	No Limit Monitoring Req'd	--	01/30	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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

TELEPHONE

DATE
 YEAR MO DAY

TYPED OR PRINTED

Submission Receipt

Copy of Record: 49031 Confirmation ID: r2019111349031

Site: Howard Seymour Water Reclamation Plant

Site ID: DE0021512

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

File Name: 201910-2100-60749445

File Type: .pdf

Report: DMR

Status: Signed

Hash of Data Document:

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Data Entry Completed: 11/12/2019 1:35 PM

By: David Weed (davewe69)

E-Mail of Submitter: dweed@tuiwater.com

From: 208.87.234.202

Signed: 11/13/2019 10:49 AM

By: Ronald Griffith
(rgriffith@tuiwater.com)

E-Mail of Signator: rgriffith@tuiwater.com

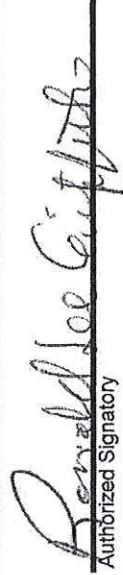
From: 208.87.234.202

Token Used When Signed: RUeApAiQugtBZDuWe/q+OFj9DuAbQ9CjceCbDYi8Jbs=

LEWES WWTF NUTRIENT OFFSET REPORT 2017

MONTH	Days	Average Monthly Flow MGD	Monthly Average TN mg/L	Total Monthly TN Discharged Lbs.	TN Based 11.8 lbs Manure Offset Required		Poultry Manure Relocated	Poultry Manure Offset Balance Lbs.	Monthly Average TP mg/L	Total Monthly TP Discharged Lbs.	TP Based 11.8 lbs Manure Offset Required Lbs.
					Tons	Lbs.					
Carry Over											
January	31	0.6166	1.93	307.67		3630.53		207,623.58		81.30	959.36
February	28	0.5773	2.86	385.56		4549.60		199,443.44	0.51	115.94	1368.06
March	31	0.5771	4.57	681.86		8045.94		191,397.50	0.49	73.11	862.69
April	30	0.6471	1.91	309.24		3649.00		187,748.49	0.59	95.52	1127.18
May	31	0.7316	3.46	654.45		7722.53		180,025.97	1.17	221.30	2611.38
June	30	0.6829	5.37	917.53		10826.81		169,199.15	1.55	264.84	3125.06
July	31	0.7325	2.29	433.68		5117.44		164,081.71	0.88	166.65	1966.53
August	31	0.7728	2.18	435.56		5139.65		158,942.06	1.44	287.71	3395.00
September	30	0.6974	2.19	382.13		4509.16		154,432.90	1.29	225.09	2656.08
October	31	0.6112	2.15	339.74		4008.96		150,423.95	0.74	116.93	1379.83
November	30			0.00		0.00		150,423.95		0.00	0.00
December	31			0.00		0.00		150,423.95		0.00	0.00
Year Balance								150,423.95			

Comments:


 Authorized Signatory

11/14/17
 DATE