

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)

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

DE0021512
 PERMIT NUMBER

001
 DISCHARGE NUMBER

REPORT DESIGNATOR
 DATA ENTRY COMPLETE
 REPORT SUBMITTED BY
 STATUS OF SUBMISSION

A
 11/12/2019
 daveweed69
 Submitted for Signature

MONITORING PERIOD

FROM 2019 10 01 TO 2019 10 31

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX. OF ANALYSIS	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM				
1/1	Flow	-	0.7122	0.8946					0	99/99	RCOTOT	
	Gross Effluent (50050)	-	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Monitoring Required	No Monitoring Required	No Monitoring Required	-	99/99	RCOTOT	
1/2	Dissolved oxygen (DO)	-				3.63	8.36		0	99/99	Imersion	
	Gross Effluent (00300)	-	No Monitoring Required	No Monitoring Required	No Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	99/99	Imersion	
1/3	pH	-				7.4	7.9		0	01/01	Grab	
	Gross Effluent (00400)	-	No Monitoring Required	No Monitoring Required	No Monitoring Req'd	6	9		-	01/01	Grab	
1/4	Enterococcus	-							0	01/07	Grab	
	Gross Effluent (31639)	-	No Monitoring Required	No Monitoring Required	No Monitoring Req'd	<1.2	2		-	01/07	Grab	
1/5	BOD5	-	<13.74	<16.03					0	01/07	Composite 24	
	Gross Effluent (00310)	-	188	288					-	01/07	Composite 24	
1/6	BOD5	-							0	01/07	Composite 24	
	Raw Sewage (00310)	-	No Monitoring Required	No Monitoring Required	No Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit Monitoring Req'd	-	01/30	Composite 24	
1/7	TSS	-	<4.66	<6.68					0	01/07	Composite 24	
	Gross Effluent (00530)	-	188	288					-	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 _____

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 - DMRY (EPA FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE), 2016.

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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
 REPORT DESIGNATOR: A

MONITORING PERIOD: FROM 2019 10 01 TO 2019 10 31
 DATA ENTRY COMPLETE: 11/12/2019
 REPORT SUBMITTED BY: daveweed69
 STATUS OF SUBMISSION: Submitted for Signature

#	PARAMETER	NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			UNITS	NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
			AVERAGE	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	MINIMUM				
2/1	TSS	-	No Monitoring Required	No Monitoring Required	No Monitoring Required	275	No Limit Monitoring Req'd	No Limit Monitoring Req'd	338	0	01/07	Composite 24
2/2	Total Nitrogen	-	33.27	33.27	lbs/Day	6.81	No Limit Monitoring Req'd	6.81	6.81	0	01/30	Composite 24
2/3	Phosphorus, Total	-	8.4	8.4	lbs/Day	1.72	No Limit Monitoring Req'd	1.72	1.72	0	01/30	Composite 24
	Gross Effluent (00530)	-	100	No Limit Monitoring Req'd	lbs/Day	8	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit	-	01/30	Composite 24
	Gross Effluent (00600)	-	8.4	8.4	lbs/Day	1.72	No Limit Monitoring Req'd	1.72	1.72	0	01/30	Composite 24
	Gross Effluent (00665)	-	25	No Limit Monitoring Req'd	lbs/Day	2	No Limit Monitoring Req'd	No Limit Monitoring Req'd	No Limit	-	01/30	Composite 24

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

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL HAVE BEEN TRAINED AND QUALIFIED TO OPERATE THE MONITORING SYSTEM AND TO OBTAIN AND REPORT INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AGREE THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITIES OF FINE AND IMPRISONMENT FOR RECIPIING VIOLATIONS.

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

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)

DMR/REC DISCHARGE MONITORING REPORT - DMR1 (EPA FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE), 2016.

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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:

a9d99894c0c2e91376f37e8ca347b0d7a6b15df8032c5f1ec369ce1b741d7034

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

By: David Weed (daveweed69)

Email of Submitter: dweed@tuiwater.com

From: 208.87.234.202

Signed: 11/13/2019 10:49 AM

By: Ronald Griffith
(rgriffith@tuiwater.com)

Email 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 Lbs.		Poultry Manure Relocated Tons	Poultry Manure Offset Balance Lbs.	Monthly Average TP mg/L	Total Monthly TP Discharged Lbs.	TP Based 11.8 lbs Manure Offset Required 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	0.86	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	3125.08
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	436.56	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	2658.06
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:

Ronald Joe Griffiths
Authorized Signatory

11/14/17
DATE

MONTHLY OPERATIONS REPORT

Tidewater Utilities

DE0021512	001
Permit Number	Discharge Number

2019 10 01	2019 10 31
	TO

Address:

Lewes WRF	
2019 10 01	2019 10 31
	TO

Facility: Lewes WRF

Location:

Parameter	Quantity of Loading			Quality or Concentration		No. Ex.	Frequency of Analysis	Sample Type
	Average	Maximum	Units	Average	Maximum			
Flow	0.7122	0.8946	MGD			0	99/99	Rec/Tot.
50050	1.5000		MGD				99/99	Rec/Tot.
BOD5	13.74	16.03	Lbs/Day	2.40	2.40	0	1/7	COMP
00310	188	288	Lbs/Day	15	23		1/7	COMP
Total Suspended	4.66	6.68	Lbs/Day	0.80	1.00	0	1/7	COMP
00530	188	288	Lbs/Day	15	23		1/7	COMP
pH					7.9	0	1/01	GRAB
00400					9.0		1/01	GRAB
Dissolved Oxygen					8.4	0	99/99	Mem Probe
00300							99/99	Mem Probe
Enterococcus				1.200	0	0	1/7	GRAB
31639				10			1/7	GRAB
Total Nitrogen	0.00	33.27	Lbs/Day	6.81	6.81	0	1/30	COMP
00600	100.0		Lbs/Day	8.0			1/30	COMP
Total Phosphorous	0.00	8.40	Lbs/Day	1.72	1.72	0	1/30	COMP
00665	25.0		Lbs/Day	2.0			1/30	COMP