

April 10, 2018

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

Subject: Monthly Report, March 2018

Mr. Gordon,

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

- Discharge Monitoring Report submitted to DNREC with 100% compliance for the month.

March 2018 Effluent Testing

Sample Data	Total Nitrogen	Total Phosphorus	BOD	TSS	Enterococcus
Average:	4.73 mg/L	0.25 mg/L	<2.40 mg/L	<0.50 mg/L	<1.0 Col.
Maximum:	N/A	N/A	<2.40 mg/L	<0.50 mg/L	<1.0 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 0.9544 MGD
 Monthly average flow 0.7362 MGD

II. Activities

STATION MAINTENANCE PERFORMED

- Power outage due to a blown transformer on Cedar Street caused alarm calls from pump station 83, Cape Shores, and Pump station 5 and 6. Upon a follow up Tidewater electrical inspection the next day, station 83 experienced a problem at the incoming line power. This was relayed to BPW's electrical department for resolution.
- Maintenance performed on the generator at station 83.
- L/S #4 pump 1 had to be re-primed.
- Tidewater continuing to make substantial progress on lift station repairs.

MAINTENANCE PERFORMED

- Train #4 permeate pump, gear box, and motor sent out for repair and reconditioning with no spare. Waiting on repaired pump to arrive by April 16th.
- BPW cut a portion of fencing in front of the outfall manhole and put up scaffolding to allow contractor to inspect the condition of the pipe. The crew was unable to jet the pipe first and only 10' of pipe was able to be scanned by camera.
- Digester recycle line flushed.
- Tidewater electricians in to help with the old E.Q. electric panel. Temporarily rewired the panel to drain rainwater back to Headworks.
- Removed at least ten gallons of paving gravel from the 5mm screen. This is believed to have come from station 4 construction.
- Dairy fiber delivered and mixed with sludge for storage stabilization. This practice will be terminated and more routine sludge hauls will be conducted based on storage capacity.
- 2mm Macerator pump replaced with old spare and sent out for repair.

- Tidewater worked on plant generator fuel tank alarm. Possible bad controller. Looking into tank refurbishment.

SAFETY INFORMATION

No work place injuries.

PPE inspected.

Eyewash and fire extinguisher inspections conducted.

Fork lift training 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. We are developing an action plan to rectify.

ADDITIONAL INFORMATION

- Love Creek Elementary School tour with over 150 students conducted.
- Annual 503 sludge report submitted to DNREC.
- DNREC conducted the annual CSI. Currently waiting to receive their report including recommendations.



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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

NAME: City of Lewes - Board of Public Works LBPW
 ADDRESS: 116 American Legion Road, Lewes, DE 19958 US
 FACILITY: Howard Seymour Water Reclamation Plant

DE021512
 PERMIT NUMBER

001
 DISCHARGE NUMBER

REPORT DESIGNATOR
 DATA ENTRY COMPLETE
 REPORT SUBMITTED BY

A
 4/10/2018
 gloria.lefchick@stservic
 es.com

LOCATION: 116 American Legion Road, Lewes, DE 19958 US FROM: 2018 03 01 TO: 2018 03 31 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			
1/1	Flow		0.7362	0.9544	Mil Gal/Day					Recorder
	Gross Effluent (50050)	-	No Limit Monitoring Req	No Limit Monitoring Req	Mil Gal/Day	No Monitoring Required	No Monitoring Required		99/99	Recorder
1/2	Dissolved oxygen (DO)				-	6.9	9.5		99/99	Measured
	Gross Effluent (00300)	-	No Monitoring Required	No Monitoring Required	-	No Limit Monitoring Req	No Limit Monitoring Req		99/99	Measured
1/3	pH				-	7.2	7.8		01/01	Grab
	Gross Effluent (00400)	-	No Monitoring Required	No Monitoring Required	-	6	9		01/01	Grab
1/4	Enterococcus				-				01/07	Grab
	Gross Effluent (31639)	-	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Monitoring Required		01/07	Grab
1/5	BOD5		<14.5	<15.91	lbs/Day		<2.4		01/07	Comp 8
	Gross Effluent (00310)	-	188	288	lbs/Day	No Monitoring Required	23		01/07	Comp 8
1/6	TSS		<3.02	<3.32	lbs/Day		<0.5		01/07	Comp 8
	Gross Effluent (00530)	-	188	288	lbs/Day	No Monitoring Required	23		01/07	Comp 8
1/7	Total Nitrogen		29.04	25.76	lbs/Day		4.73		01/30	Comp 8
	Gross Effluent (00600)	-	100	No Limit Monitoring Req	lbs/Day	No Monitoring Required	No Limit Monitoring Req		01/30	Comp 8

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

(ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMBERRY)

TELEPHONE

DATE

TYPED OR PRINTED

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

YEAR

MO DAY

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



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STATUS OF SUBMISSION

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			AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
2/1	Phosphorus, Total		1.53	1.36	lbs/Day		0.25	0.25	0	01/30	Comp 8
	Gross Effluent (00665)	-	25	No Limit Monitoring Req'd	lbs/Day		No Limit Monitoring Req'd	2	-	01/30	Comp 8

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL DATA SAMPLES WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ENSURE THAT ALL DATA SAMPLES WERE PROPERLY GATHERED AND EVALUATED. THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS RESPONSIBLE FOR THIS INFORMATION, IS TRUE AND CORRECT. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

(ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR)

TELEPHONE

DATE

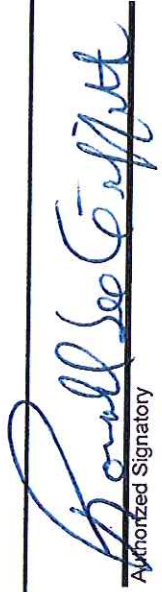
YEAR MO DAY

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	
			MGD	mg/L		Lbs.	Tons	Lbs.	Lbs.		mg/L	Lbs.			
Carry Over															
January	31	0.5796	7.81		1170.33	13809.86			130,493.68						
February	28	0.6519	4.68		712.44	8406.84			116,683.82		0.36	53.95		636.56	
March	31	0.7362	4.73		900.29	10623.48			108,276.98		0.43	65.46		772.42	
April	30				0.00	0.00			97,653.50		0.25	47.58		561.49	
May	31				0.00	0.00			97,653.50			0.00		0.00	
June	30				0.00	0.00			97,653.50			0.00		0.00	
July	31				0.00	0.00			97,653.50			0.00		0.00	
August	31				0.00	0.00			97,653.50			0.00		0.00	
September	30				0.00	0.00			97,653.50			0.00		0.00	
October	31				0.00	0.00			97,653.50			0.00		0.00	
November	30				0.00	0.00			97,653.50			0.00		0.00	
December	31				0.00	0.00			97,653.50			0.00		0.00	
Year Balance									97,653.50			0.00		0.00	

Comments:


 Authorized Signatory

4/10/18
 DATE