PUMP STATION 196

MAR 22		PS 196		
		METER READING	24 HOUR FLOW	
TUE	1	6694860	0.207906	
WED	2	6902766	0.205928	
THU	3	7108694	0.230087	
FRI	4	7338781	0.239582	
SAT	5	7578363	0.249496	
SUN	6	7827859	0.248066	
MON	7	8075925	0.244396	
TUE	8	8320321	0.237352	
WED	9	8557673	0.251914	
THU	10	8809587	0.237344	
FRI	11	9046931	0.238936	
SAT	12	9285867	0.271669	
SUN	13	9557536	0.248745	
MON	14	9806281	0.242529	
TUE	15	10048810	0.231510	
WED	16	10280320	0.240780	
THU	17	10521100	0.246530	
FRI	18	10767630	0.248040	
SAT	19	11015670	0.261320	
SUN	20	11276990	0.260540	
MON	21	11537530	0.251310	
TUE	22	11788840	0.303268	
WED	23	12092108	0.099072	flow back to WolfeNeck
THU	24	12191180	0.127900	at 10:30am
FRI	25	12319080	0.117740	W
SAT	26	12436820	0.123020	W
SUN	27	12559840	0.127840	W
MON	28	12687680	0.120030	W
TUE	29	12807710	0.118300	W
WED	30	12926010	0.116280	W
THU	31	13042290	0.120560	W
		13162850		
TOTAL			6.467990	Wolfe Neck total flow
COUNT			31	1,070,742 gals.
AVERAGE			0.208645	Lewes total flow
				5,397,248 gals.
MINIMUM			0.099072	
MAXIMUM			0.303268	

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

DE0021512 — PERMIT NUMBER

001 — DISCHARGE NUMBER

MONITORING PERIOD FROM 2022 02 01 TO 2022 02 28

REPORT DESIGNATOR A

DATA ENTRY COMPLETE 3/28/2022

REPORT SUBMITTED BY richardplack

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	UNITS			
1/1	Flow	SAMPLE MEASUREMENT		**0.695**	**0.796**	**Mil Gal/Day**				--	**0**	**99/99**	**RCOTOT**
	Gross Effluent (50050)	PERMIT REQUIREMENT	-	No Limit | Monitoring Reqd	No Limit | Monitoring Reqd	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	--	--	99/99	RCOTOT
1/2	Dissolved oxygen (DO)	SAMPLE MEASUREMENT				--	**5.77**		**8.94**	**mg/l**	**0**	**99/99**	**Imersion**
	Gross Effluent (00300)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	--	No Limit | Monitoring Reqd	No Monitoring Required	No Limit | Monitoring Reqd	mg/l	--	99/99	Imersion
1/3	pH	SAMPLE MEASUREMENT				--	**7**		**8.3**	**Std pH Units**	**0**	**01/01**	**Grab**
	Gross Effluent (00400)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	--	6	No Monitoring Required	9	Std pH Units	--	01/01	Grab
1/4	Enterococcus	SAMPLE MEASUREMENT				--		**<1**	**<1**	**CFU/100 ML**	**0**	**01/07**	**Grab**
	Gross Effluent (31639)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	10	104	CFU/100 ML	--	01/07	Grab
1/5	BOD5	SAMPLE MEASUREMENT		**<15**	**20**	**lbs/Day**		**<2.7**	**3.5**	**mg/l**	**0**	**01/07**	**Composite 24**
	Gross Effluent (00310)	PERMIT REQUIREMENT	-	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	--	01/07	Composite 24
1/6	BOD5	SAMPLE MEASUREMENT				--		**169**	**169**	**mg/l**	**0**	**01/30**	**Composite 24**
	Raw Sewage (00310)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	No Limit | Monitoring Reqd	No Limit | Monitoring Reqd	mg/l	--	01/30	Composite 24
1/7	TSS	SAMPLE MEASUREMENT		**<5**	**<10**	**lbs/Day**		**<0.9**	**<2**	**mg/l**	**0**	**01/07**	**Composite 24**
	Gross Effluent (00530)	PERMIT REQUIREMENT	-	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	--	01/07	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Richard Plack

TYPED OR PRINTED

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 PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

[ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR]

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 3022601794

DATE 2022 (YEAR) 3 (MO) 28 (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)

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	**DATA ENTRY COMPLETE**	3/28/2022
REPORT SUBMITTED BY	richardplack	**STATUS OF SUBMISSION**	Submitted for Signature

MONITORING PERIOD FROM 2022 02 01 TO 2022 02 28

#	PARAMETER		NDI	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
				AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
2/1	TSS	SAMPLE MEASUREMENT				--		**104**	**104**	**mg/l**	**0**	**01/30**	**Composite 24**
	Raw Sewage (00530)	PERMIT REQUIREMENT	-	No Monitoring Required	No Monitoring Required	--	No Monitoring Required	No Limit | Monitoring Reqd	No Limit | Monitoring Reqd	mg/l	--	01/30	Composite 24
2/2	Total Nitrogen	SAMPLE MEASUREMENT		**32.8**	**32.8**	**lbs/Day**		**5.52**	**5.52**	**mg/l**	**0**	**01/30**	**Composite 24**
	Gross Effluent (00600)	PERMIT REQUIREMENT	-	100	No Limit | Monitoring Reqd	lbs/Day	No Monitoring Required	8	No Limit | Monitoring Reqd	mg/l	--	01/30	Composite 24
2/3	Phosphorus, Total	SAMPLE MEASUREMENT		**0.7**	**0.7**	**lbs/Day**		**0.12**	**0.12**	**mg/l**	**0**	**01/30**	**Composite 24**
	Gross Effluent (00665)	PERMIT REQUIREMENT	-	25	No Limit | Monitoring Reqd	lbs/Day	No Monitoring Required	2	No Limit | Monitoring Reqd	mg/l	--	01/30	Composite 24

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

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Richard Plack

TYPED OR PRINTED

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 PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

[ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR]

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 302 260 1794

DATE 2022 (YEAR) 3 (MO) 28 (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)

Submission Receipt

Copy of Record: 73739 Confirmation ID: r202232873739

Site: Howard Seymour Water Reclamation Plant Site ID: DE0021512

Submission: Discharge Monitoring Report for DE0021512 Howard Seymour Water Reclamation Plant Outfall: 001, February, 2022

File Name: 20222-3297-60749445 File Type: .pdf

Report: DMR Status: Signed

Hash of Data Document:
54323e1e964bbed339689d19a1cf1d3573a40529553286e97da3e418e48b8e28

Data Entry Completed: 3/28/2022 4:16 PM By: Richard Plack (richardplack)

EMail of Submittor: Richard.Plack@Inframark.com From: 172.31.25.193

Signed: 3/28/2022 4:19 PM By: Richard Plack (richardplack)

EMail of Signator: Richard.Plack@Inframark.com From: 172.31.25.193

Token Used When Signed: xmPDhxXeCKRpVDF9vH8gZjxxfxvIGHxssM7yUXoQ+wY=

LEWES WWTF

NUTRIENT OFFSET REPORT 2022

Month	Days	Average Monthly Flow	Monthly Average TN	Total Monthly TN Discharged	TN Based 16.9 lbs Manure Offset Required	Monthly Average TP	Total Monthly TP Discharged	TP Based 285 lbs Manure Offset Required	Max Manure Equivalent	Poultry Manure Relocated	Poultry Manure Offset Balance
		MGD	mg/L	lbs	Tons	mg/L	lbs	Tons	Tons	Tons	Tons
Carry Over											540.16
January	31	0.7485	3.37	652.15	5.51	0.09	17.42	2.48	5.51	-	5.51
February	28	0.6951	5.52	896.01	7.57	0.12	19.48	2.78	7.57	-	7.57
March	31	-	-		-	-		-	-	-	-
April	30	-	-		-	-		-	-	-	-
May	31	-	-		-	-		-	-	-	-
June	30	-	-		-	-		-	-	-	-
July	31	-	-		-	-		-	-	-	-
August	31	-	-		-	-		-	-	-	-
September	30	-	-		-	-		-	-	-	-
October	31	-	-		-	-		-	-	-	-
November	30	-	-		-	-		-	-	-	-
December	31	-	-		-	-		-	-	-	-
Year Balance											527.08

Comments:

Authorized Signatory

3/28/22

Date

Monthly Operations Report: February 2022

Site: LEWES WWTP

FINAL EFFLUENT OUTFALL 001																	
DATE	DAY	Flow	BOD		TSS		Enteroc.	Total P		Total N		Ammonia as N		Nitrite + Nitrate		TKN	
		MGD	mg/L	lbs	mg/L	lbs	col/100ml	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs
1	Tue.	0.712	<2.4	<14	<0.5	<3		0.1	0.71	5.5	32.78	0.6	4	3.7	22	1.8	11
2	Wed.	0.734					<1.0										
3	Thu.	0.796															
4	Fri.	0.742															
5	Sat.	0.385															
6	Sun.	0.736															
7	Mon.	0.619															
8	Tue.	0.598															
9	Wed.	0.596	<2.4	<12	<2.0	<10											
10	Thu.	0.630					<1.0										
11	Fri.	0.540															
12	Sat.	0.770															
13	Sun.	0.738															
14	Mon.	0.754															
15	Tue.	0.747	<2.4	<15	<0.5	<3											
16	Wed.	0.721					<1.0										
17	Thu.	0.738															
18	Fri.	0.764															
19	Sat.	0.747															
20	Sun.	0.730															
21	Mon.	0.727															
22	Tue.	0.697	3.5	20	<0.5	<3											
23	Wed.	0.702					<1.0										
24	Thu.	0.711															
25	Fri.	0.673															
26	Sat.	0.713															
27	Sun.	0.728															
28	Mon.	0.714															
TOTAL		19.4620															
AVERAGE		0.6951	<2.68	<15.38	<0.88	<4.73	1.0	0.12	0.71	5.52	32.78	0.62	3.68	3.69	21.91	1.83	10.87
MAXIMUM		0.7960	3.50	20.30	<2.00	<9.90	<1.00	0.12	0.71	5.52	32.78	0.62	3.68	3.69	21.91	1.83	10.87
MINIMUM		0.3850	<2.40	<11.90	<0.50	<2.90	<1.00	0.12	0.71	5.52	32.78	0.62	3.68	3.69	21.91	1.83	10.87
Removal (%)			98.4		99.2												

INFLUENT						
DATE	DAY	Flow	BOD		TSS	
		MGD	mg/L	lbs	mg/L	lbs
1	Tue.		169.0		104.0	
2	Wed.					
3	Thu.					
4	Fri.					
5	Sat.					
6	Sun.					
7	Mon.					
8	Tue.					
9	Wed.					
10	Thu.					
11	Fri.					
12	Sat.					
13	Sun.					
14	Mon.					
15	Tue.					
16	Wed.					
17	Thu.					
18	Fri.					
19	Sat.					
20	Sun.					
21	Mon.					
22	Tue.					
23	Wed.					
24	Thu.					
25	Fri.					
26	Sat.					
27	Sun.					
28	Mon.					
TOTAL						
AVERAGE			169		104	
MAXIMUM			169		104	
MINIMUM			169		104	
Removal (%)						

LEWES BPW WWTP Biweekly InSight Report

Date: **5/4/2022**

From: Erin Horocholyn - Suez Water Technologies & Solutions
To: Austin Calaman BPW, Inframark
cc: Matt Stapleford - Suez Water Technologies & Solutions

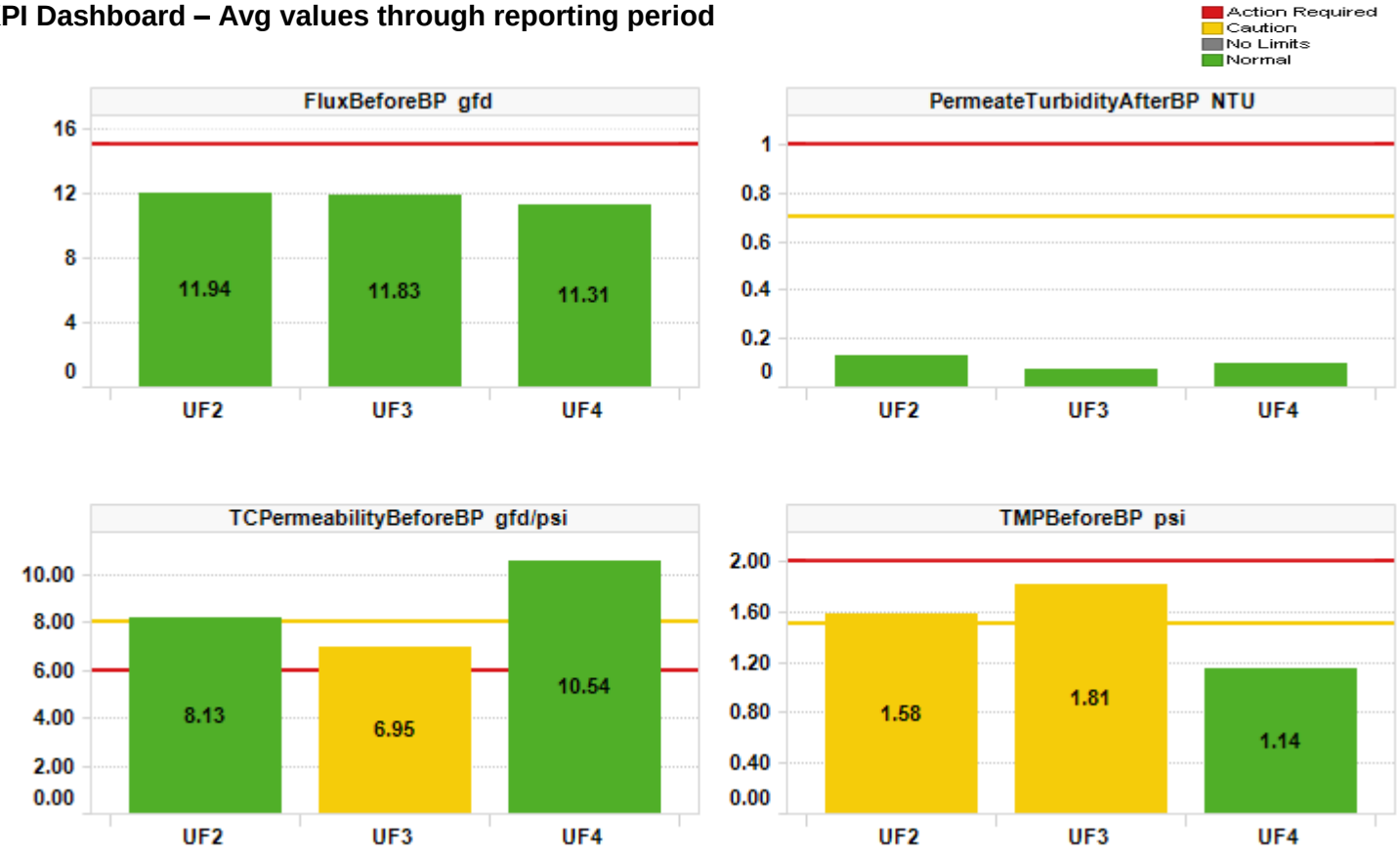
System Equipment

4 × ZW trains, each train consists of 4 - 500D cassettes, 120 modules x 370 sq. ft. per train (surface area 44,400 sq. ft. per train)
Replacement membranes installed Q1 2020 on trains UF3 and UF4

Cleaning Strategy

Recovery cleaning - 2 NaOCl @ 2000 ppm dose/1000 ppm soak per year, 1 Citric acid @ 2000 ppm per year
Maintenance cleaning - 1 NaOCl per week @ 200 ppm, 1 Citric acid per week @ 2000 ppm

KPI Dashboard – Avg values through reporting period



Plant Summary

No maintenance cleans were run in the last six weeks and is resulting in fouling on the membranes. Maintenance cleans should be regularly scheduled on all trains with at least 1 hypochlorite and 1 citric acid clean per week. Dissolved oxygen was low in Aerobic Tank 1 (<1 mg/L) and high in Pre-Anoxic Zone Tank 2 (>1 mg/L). Aeration should be adjusted for both, but especially in the aerobic zone to prevent biomass die-off

- Daily permeate production averaged 0.74 MGD. UF3 produced <10% of daily permeate. Permeate temperature averaged 65°F (+2°F). All online trains are in Backpulse with constant LEAP Hi aeration. Flux averages ranged 11.3 – 11.9 across trains. UF1 went offline on April 2
- No maintenance cleans were run in the last six weeks, resulting in fouling on the membranes. MCs should be regularly scheduled for 1 hypochlorite and 1 citric acid clean per train, per week
- Permeate turbidity ABP averages ranged from 0.08 – 0.13 NTU
- TMP BBP averaged 1.6, 1.8, and 1.1 psi on UF2,3,4. TMP has increased on all online trains from the lack of maintenance cleans
- TC permeability BBP averages were >8 gfd/psi on UF2 and UF4. TCP on UF2,3,4 averaged 8.1, 7.0, and 10.5 gfd/psi. The plot below displays daily median averages

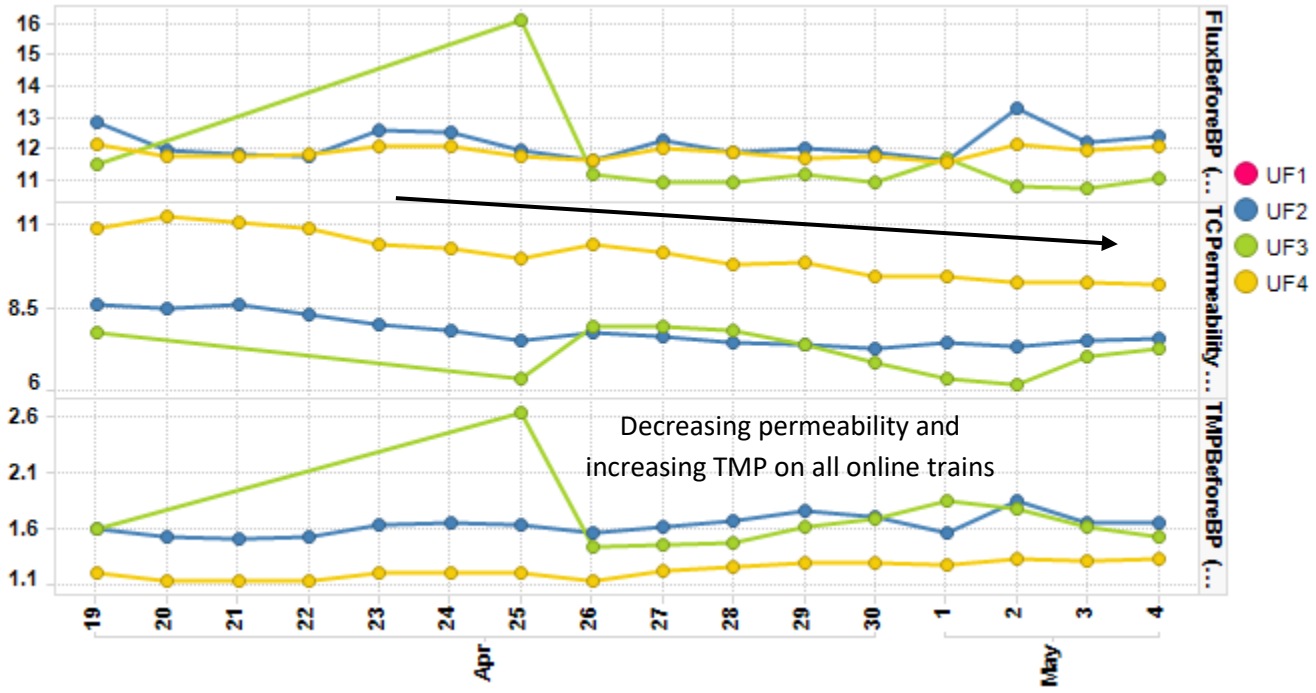
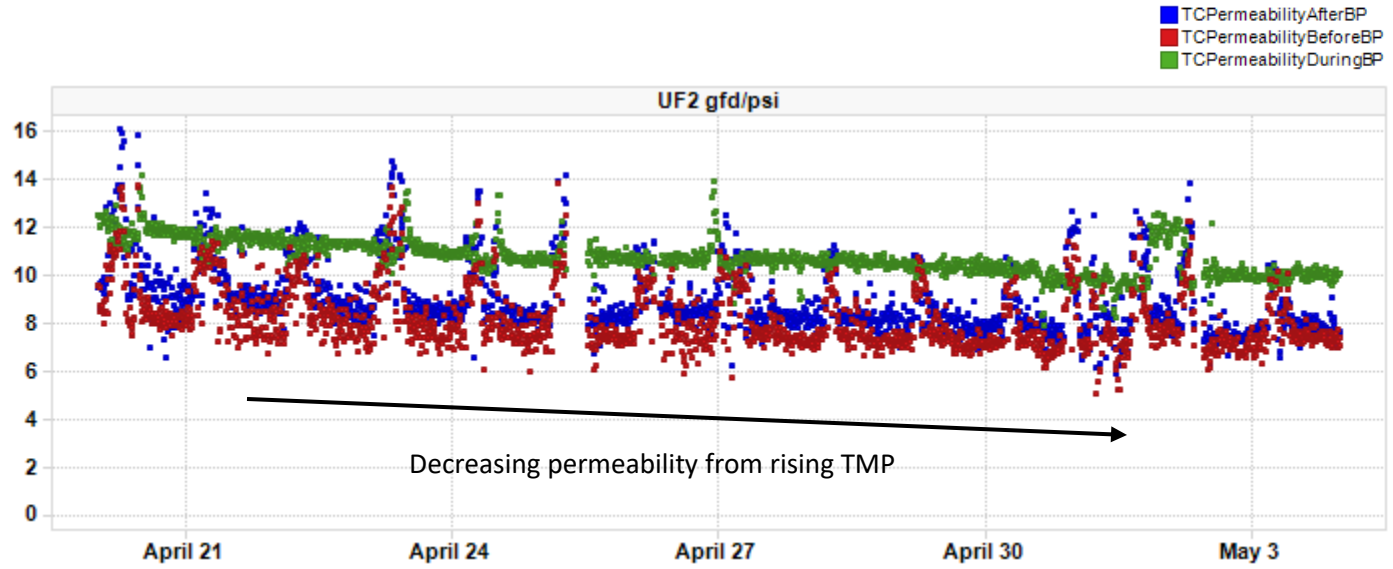


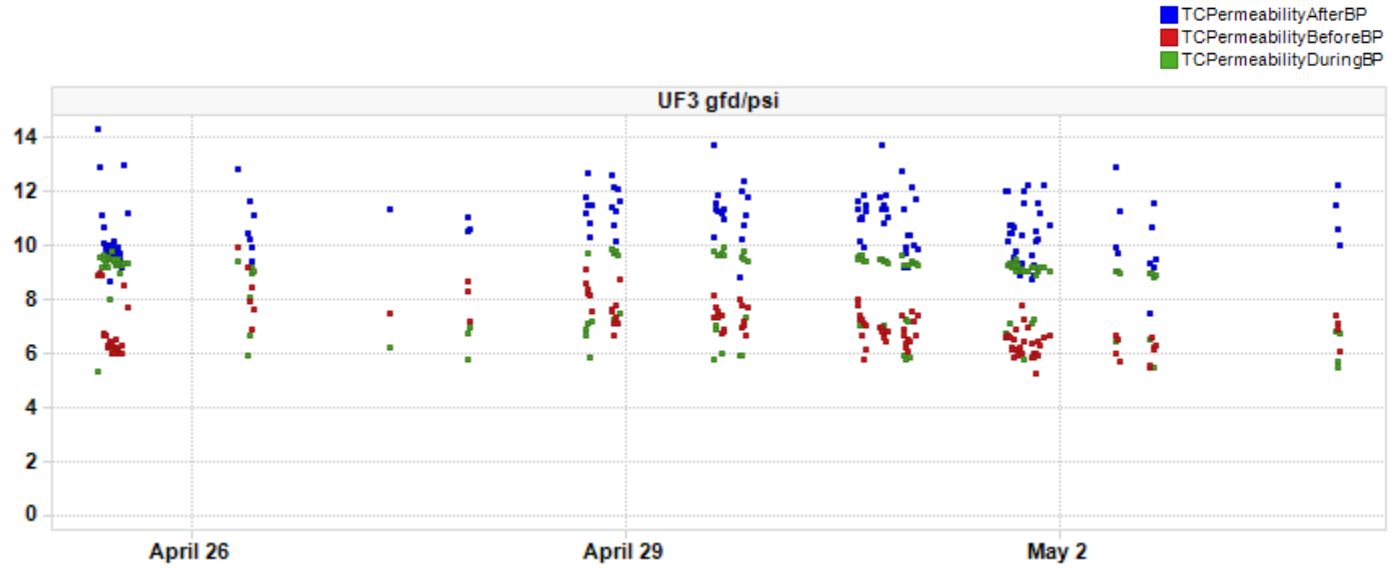
Table 1. Record of maintenance cleans (MCs) run.

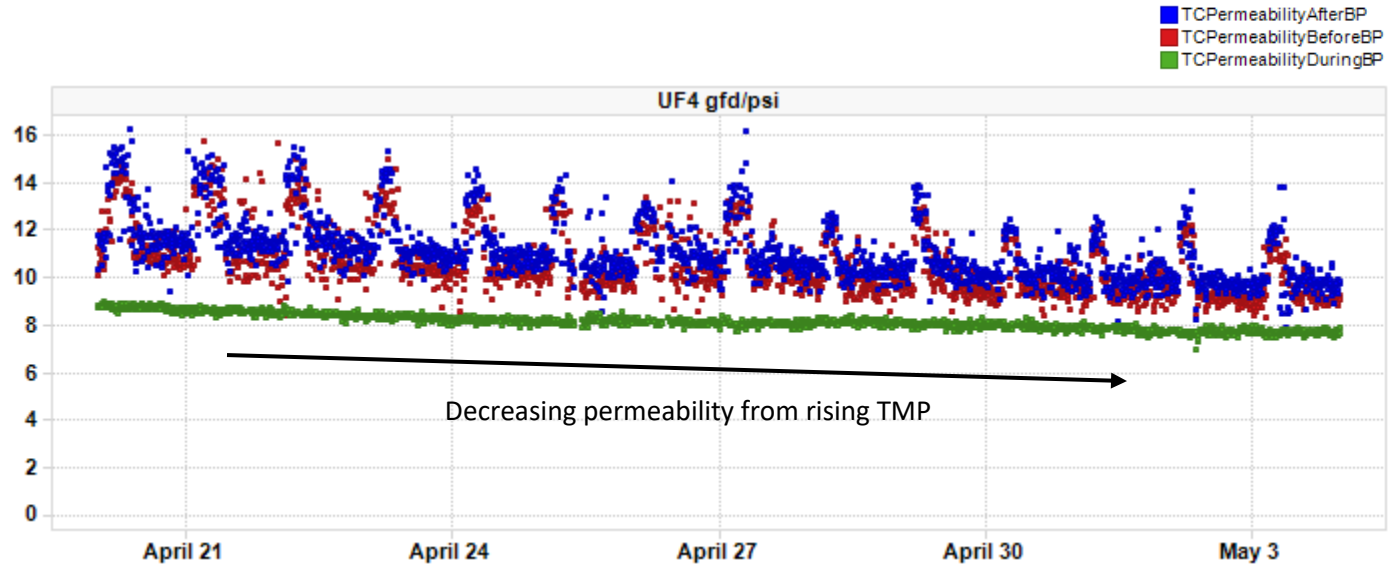
Train	UF1	UF2	UF3	UF4
# of Hypochlorite MCs	0	0	0	0
# of Citric Acid MCs	0	0	0	0

- Aerobic dissolved oxygen averaged 0.76 ppm in tank 1 and 1.67 ppm in tank 2. Tank 1's aerobic DO is low and less than 1 ppm; aeration should be increase in this tank and zone. The pre-anoxic zone's DO averages were 0.63 ppm in tank 1, and 1.12 ppm in tank 2. Tank 2's pre-anoxic zone DO is high for nitrification and should be closer to 0.5 ppm

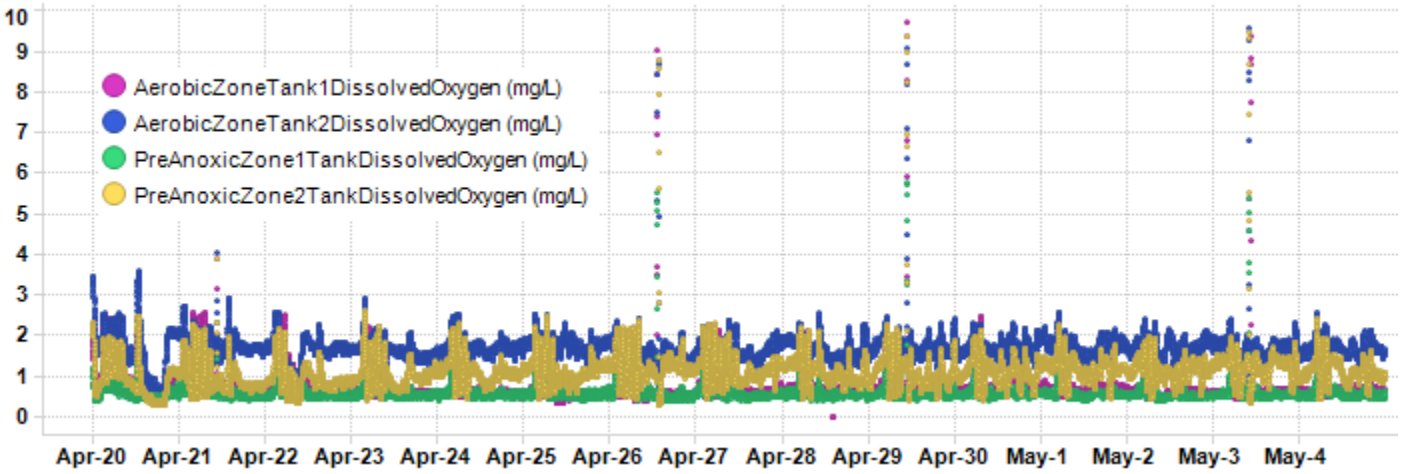
TC Permeability Trends By Train



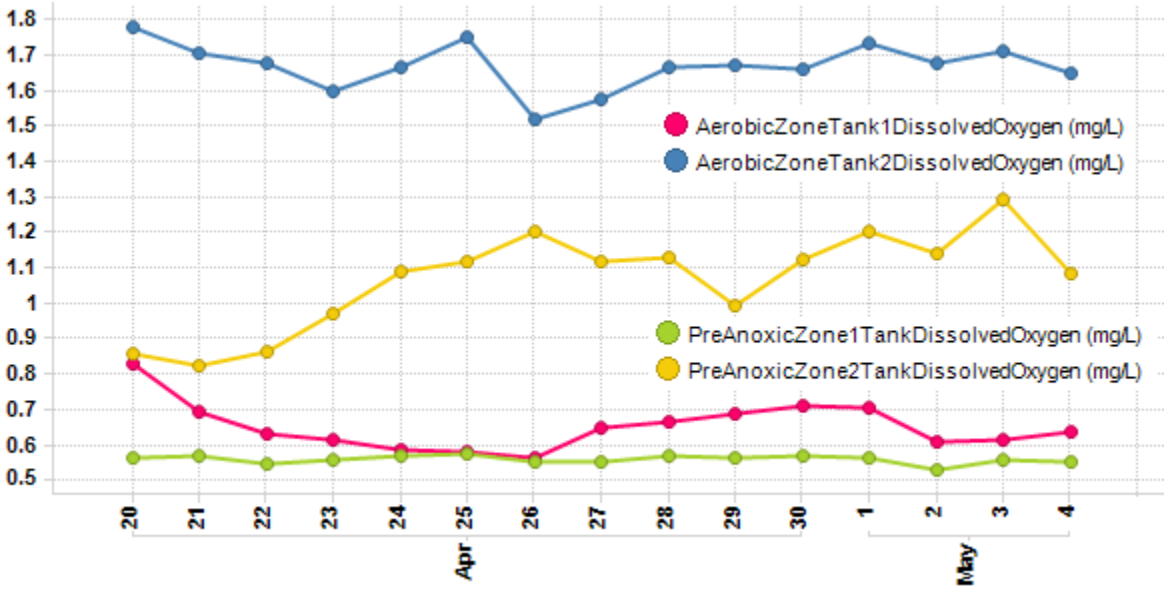




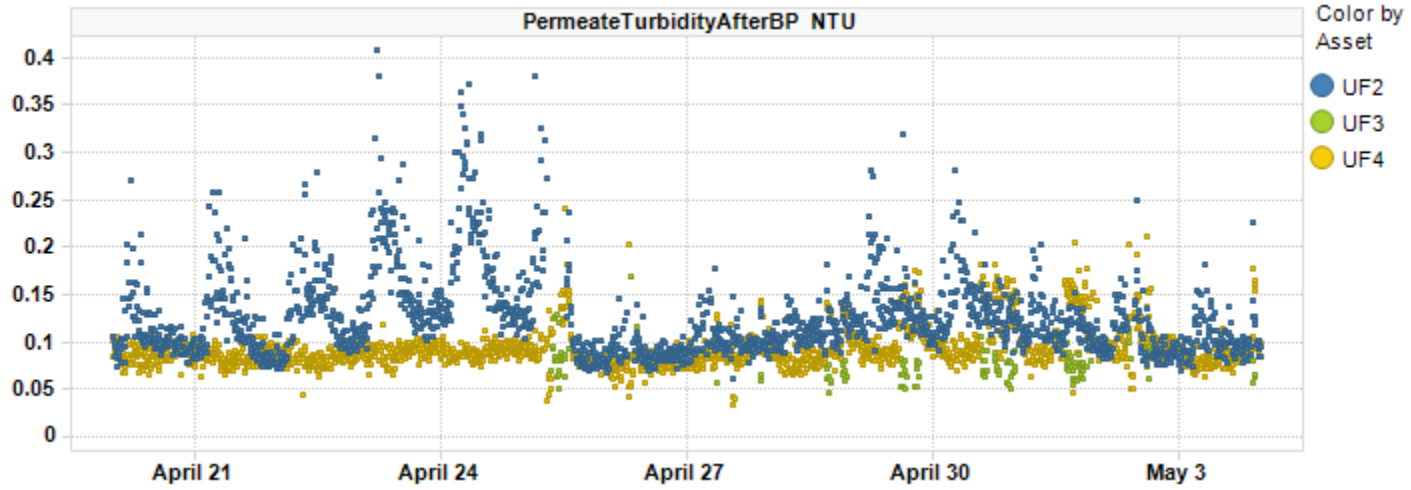
Bioreactor Dissolved Oxygen



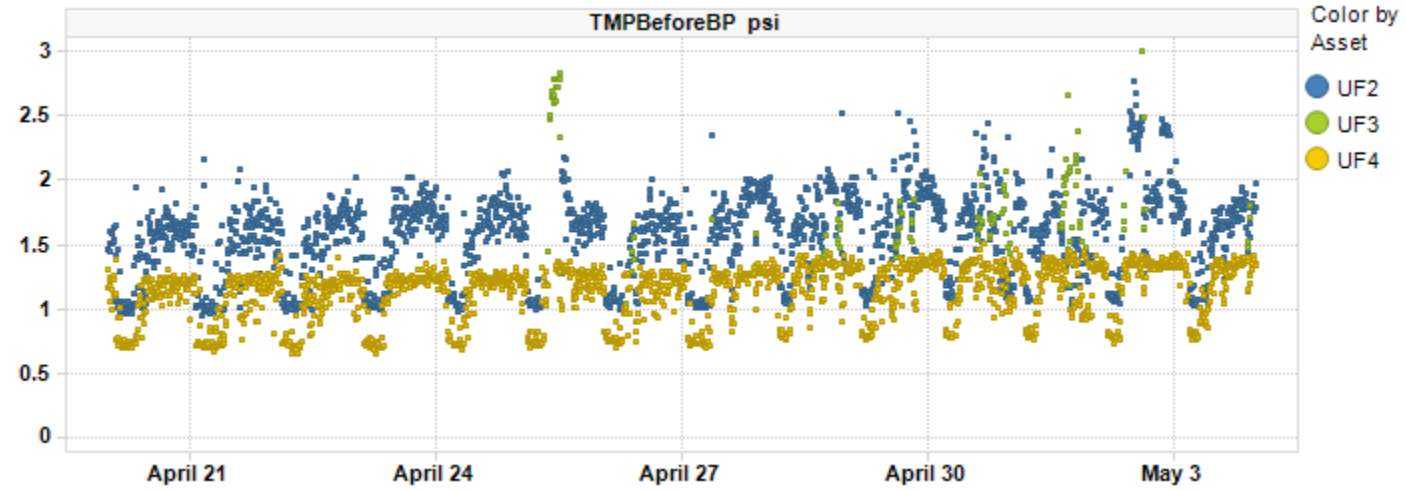
Daily median average values below



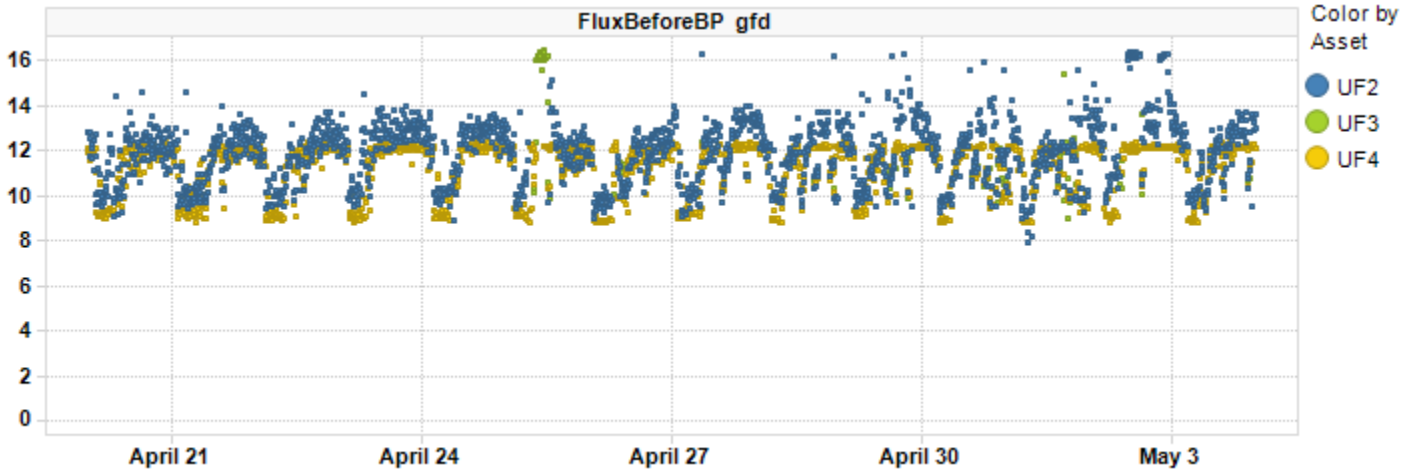
Permeate Turbidity Trend



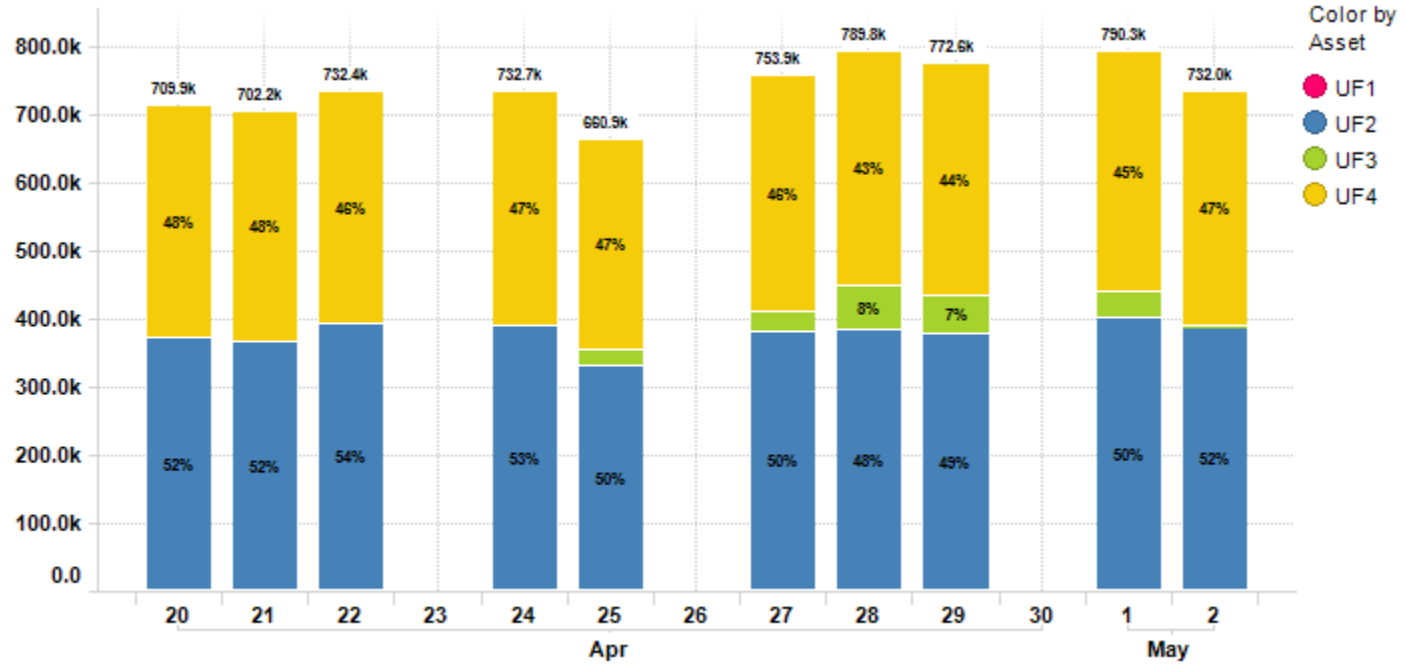
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 4/20/2022 to 5/3/2022 is 737.7k gal with a maximum daily flow of 790.3k gal.

Asset Summary

KPI Parameters	Value/Ch…	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value		11.94	11.83	11.31
	Change		0.97%	0.50%	0.94%
FluxDuringBP gfd	Value		18.49	16.38	18.73
	Change		-0.75%	-6.45%	0.00%
PermeateTurbidityAfterBP NTU	Value		0.13	0.08	0.09
	Change		4.56%	7.94%	-11.9…
TCPermeabilityBeforeBP gfd/psi	Value		8.13	6.95	10.54
	Change		-13.3…	-33.1…	-15.8…
TMPBeforeBP psi	Value		1.58	1.81	1.14
	Change		10.80%	22.66%	12.46%
TotalPermeateFlowDaily gal	Value	0.00	376.5…	26.76k	339.7…
	Change	0.00%	1.88%	-327.…	3.07%

Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	64.85
	Change	2.51%
TotalPermeateFlowDaily gal	Value	804.63k
	Change	-8.91%

Contract Expiry Date : **08/11/2021**

For InSight technical assistance please email insight.src@suez.com or please call technical support at 1 866 271 5425 or 905 469 7723 and follow the prompts, if you require after hours assistance please contact the 24/7 Emergency number provided in your plant documentation. This email is a summary of issues identified during a manual review of InSight data from the time period above. This review is an analysis of data that is logged by InSight and identifies key plant performance issues determined from this data. This data review was not focused on minor data issues but on identifying possible existing and/or upcoming critical operational issues.

This review was prepared by SUEZ Water Technologies & Solutions solely to assist water treatment plant owners and/or operators in analyzing and optimizing plant performance and is not intended to be used or relied upon for regulatory compliance or any other purpose. The content of this review is based in whole or in part on operation data obtained from the plant using InSight software. SUEZ Water Technologies & Solutions makes no representations or warranties as to the accuracy of the plant data utilized in the preparation of this review. SUEZ Water Technologies & Solutions accepts no liability for consequences or actions taken in whole or in part by any person on the basis of this review or its contents

LEWES BPW WWTP Biweekly InSight Report

Date: **4/20/2022**

From: Erin Horocholyn - Suez Water Technologies & Solutions
To: Austin Calaman BPW, Inframark
cc: Matt Stapleford - Suez Water Technologies & Solutions

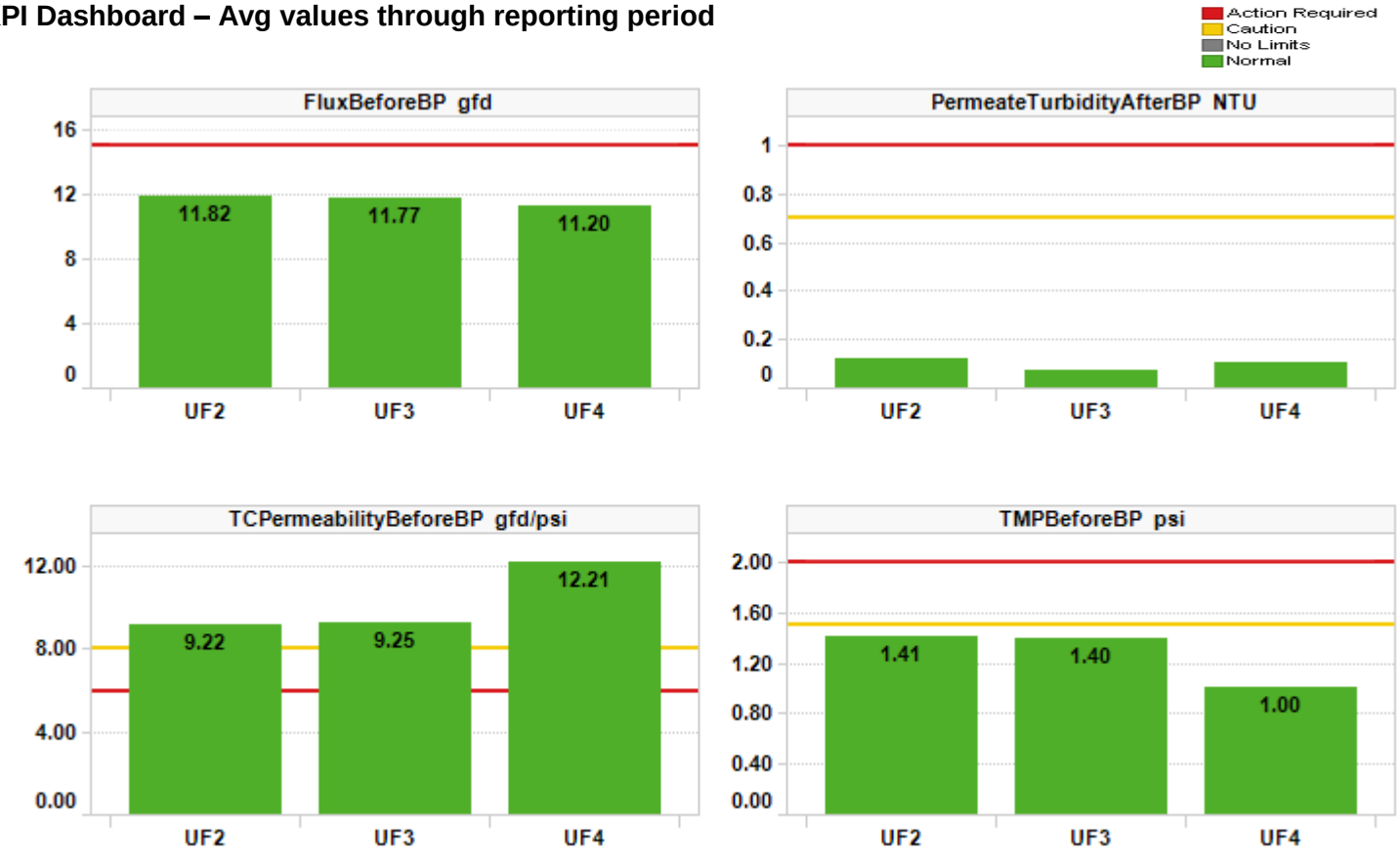
System Equipment

4 × ZW trains, each train consists of 4 - 500D cassettes, 120 modules x 370 sq. ft. per train (surface area 44,400 sq. ft. per train)
Replacement membranes installed Q1 2020 on trains UF3 and UF4

Cleaning Strategy

Recovery cleaning - 2 NaOCl @ 2000 ppm dose/1000 ppm soak per year, 1 Citric acid @ 2000 ppm per year
Maintenance cleaning - 1 NaOCl per week @ 200 ppm, 1 Citric acid per week @ 2000 ppm

KPI Dashboard – Avg values through reporting period



Plant Summary

Trains UF2,3,4 are operating well overall in terms of KPIs. Permeability remains >8.0 gfd/psi on trains UF2,3,4. No maintenance cleans were run in the last four weeks.

- Daily permeate production averaged 0.80 MGD. UF3 produced <20% of daily permeate between except on April 6. Permeate temperature averaged 63°F (+2°F). All online trains are in Backpulse with constant LEAP Hi aeration. Flux averages ranged 11.2 – 11.8 across trains. UF1 went offline on April 2
- No maintenance cleans were run in this report's 2-week period or the last report period
- Permeate turbidity ABP averages ranged from 0.07 – 0.12 NTU
- TMP BBP averaged 1.4, 1.4, and 1.0 psi on UF2,3,4. TMP trends are correlated with changes in flux
- TC permeability BBP averages were >8 gfd/psi on trains UF2,3,4. TCP on UF2,3,4 averaged 9.2, 9.3, and 12.2 gfd/psi overall. The plot below displays daily median averages

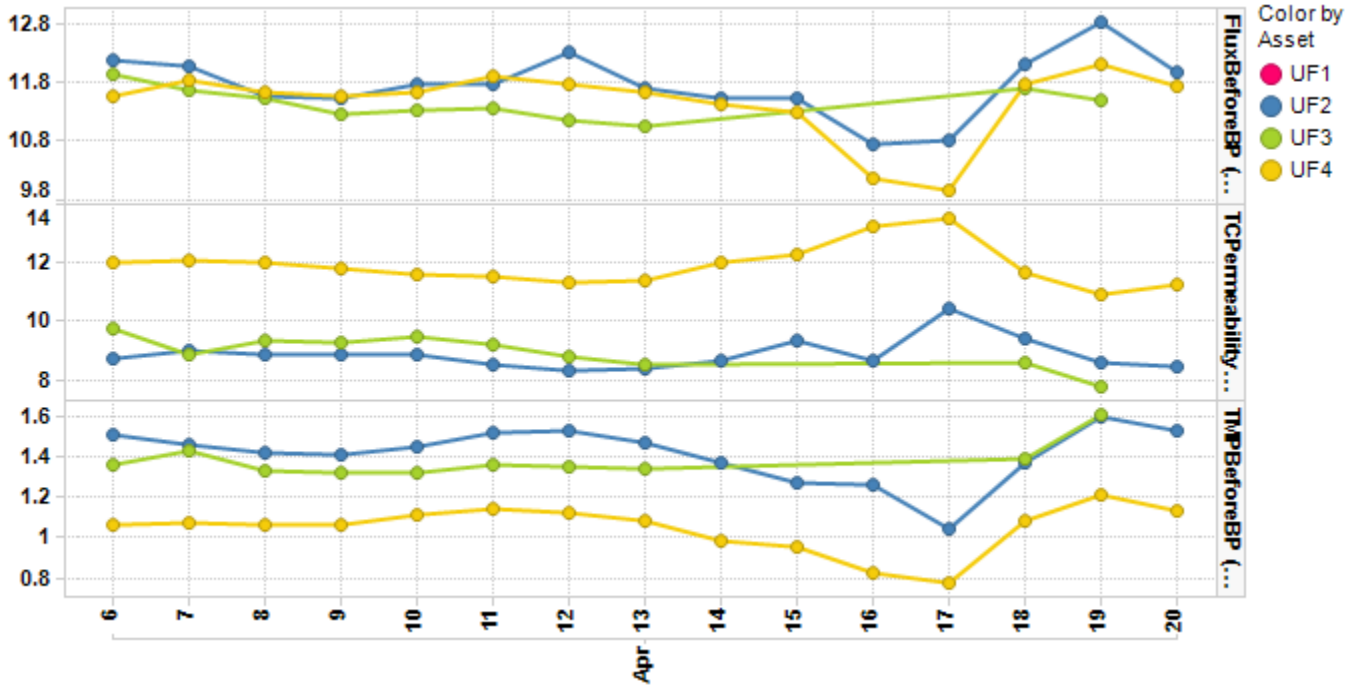
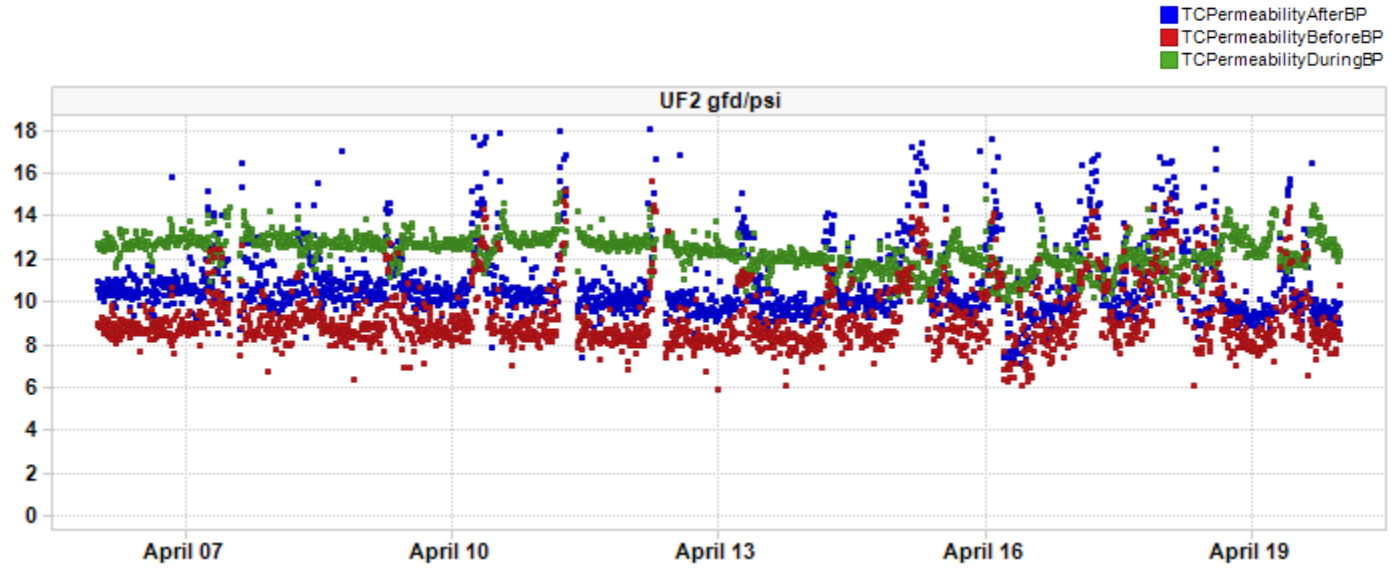


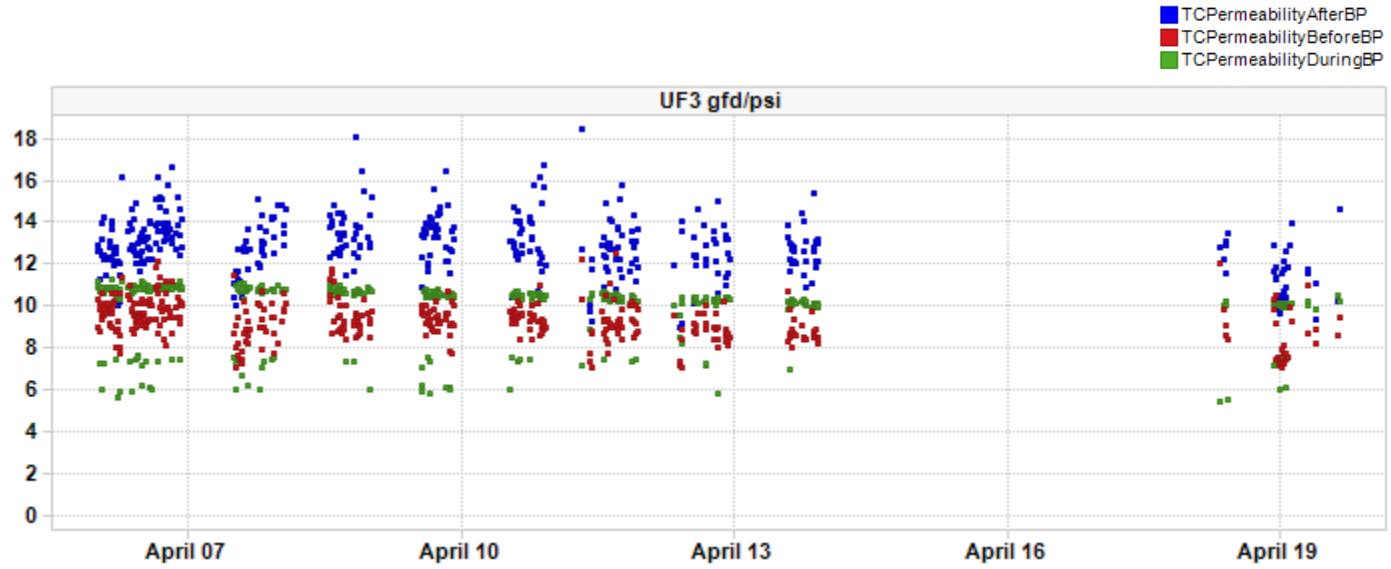
Table 1. Record of maintenance cleans (MCs) run.

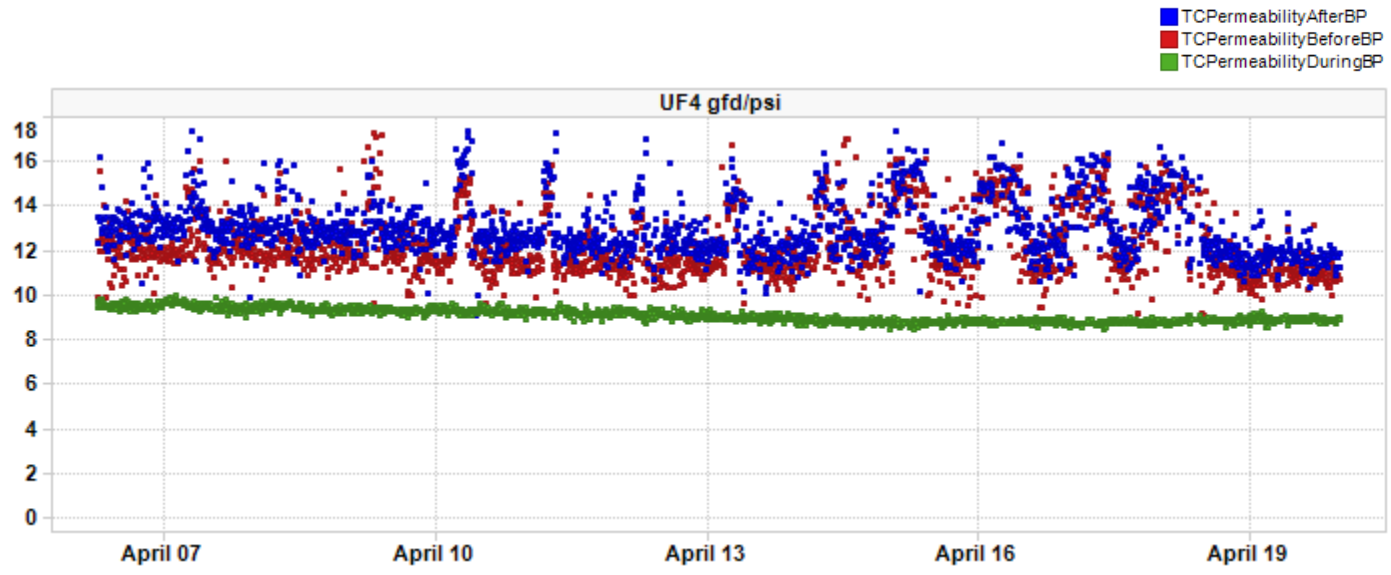
Train	UF1	UF2	UF3	UF4
# of Hypochlorite MCs	0	0	0	0
# of Citric Acid MCs	0	0	0	0

- Aerobic dissolved oxygen averaged 0.79 ppm in tank 1 (down from 1.14 ppm last report) and 1.88 ppm in tank 2. The pre-anoxic zone's DO averages were 0.57 ppm in tank 1, and 0.89 ppm in tank 2, both lower than the last report, and are good levels for nitrification

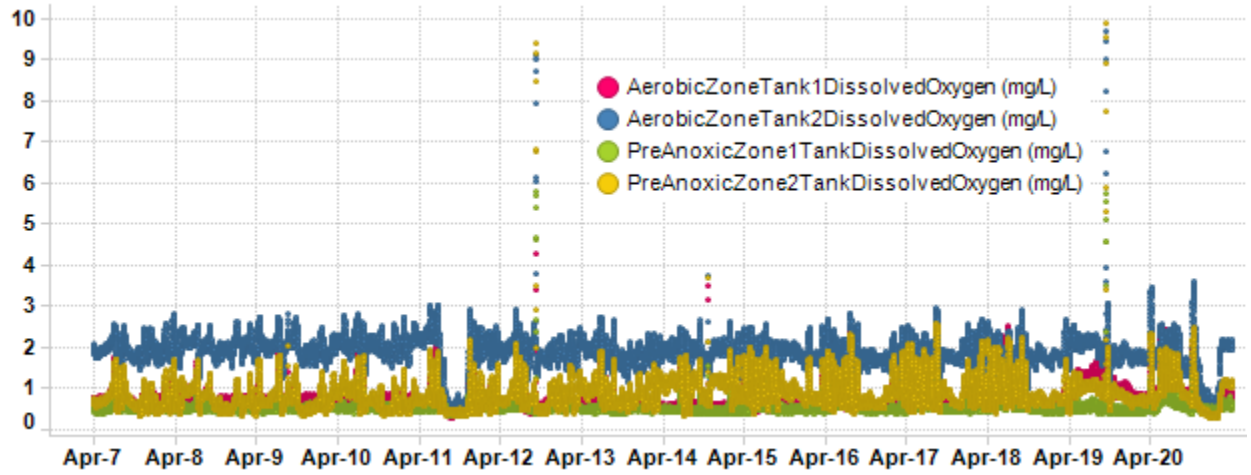
TC Permeability Trends By Train



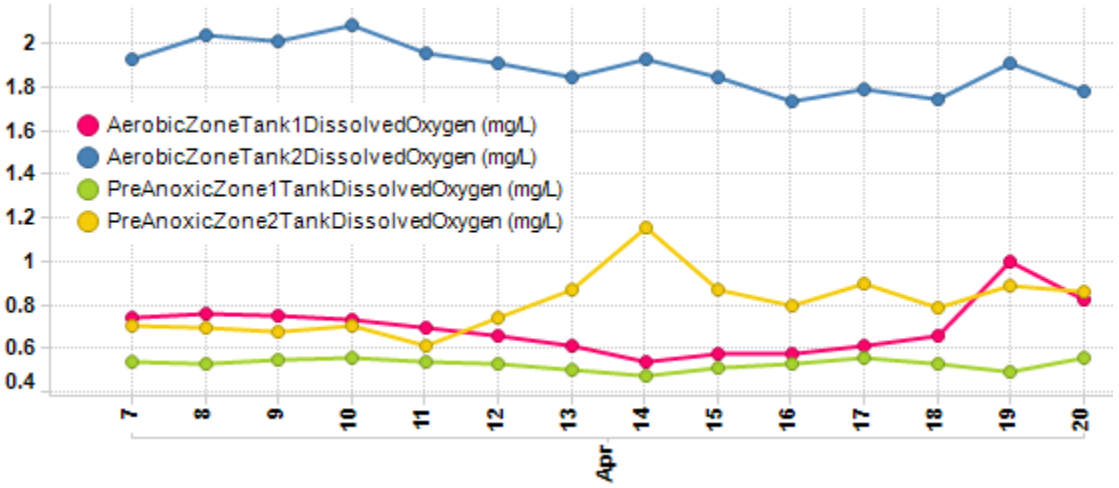




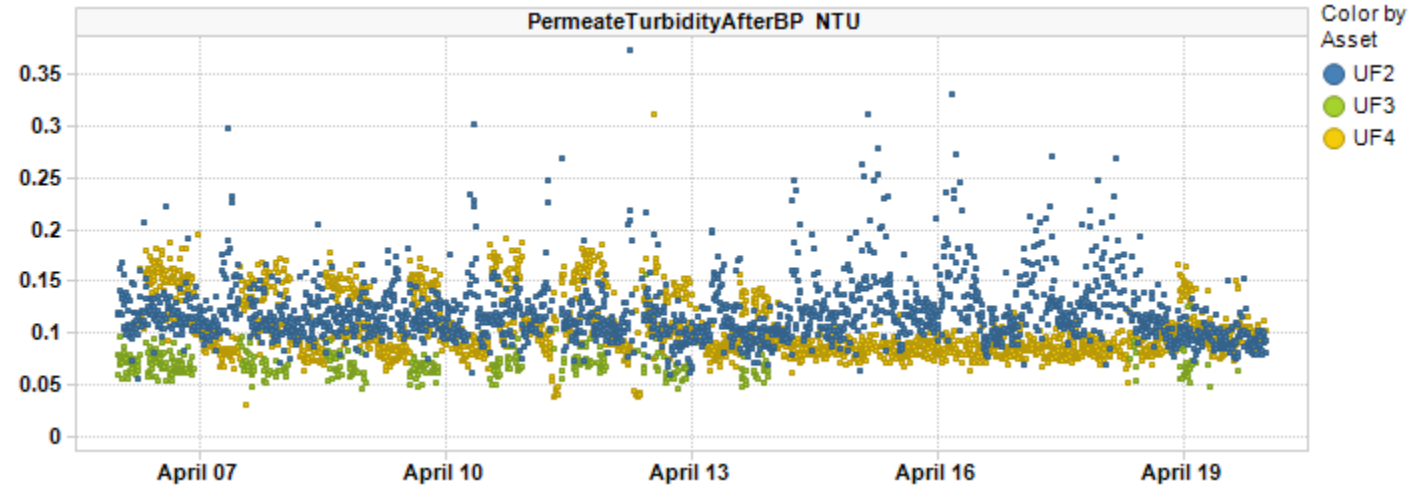
Bioreactor Dissolved Oxygen



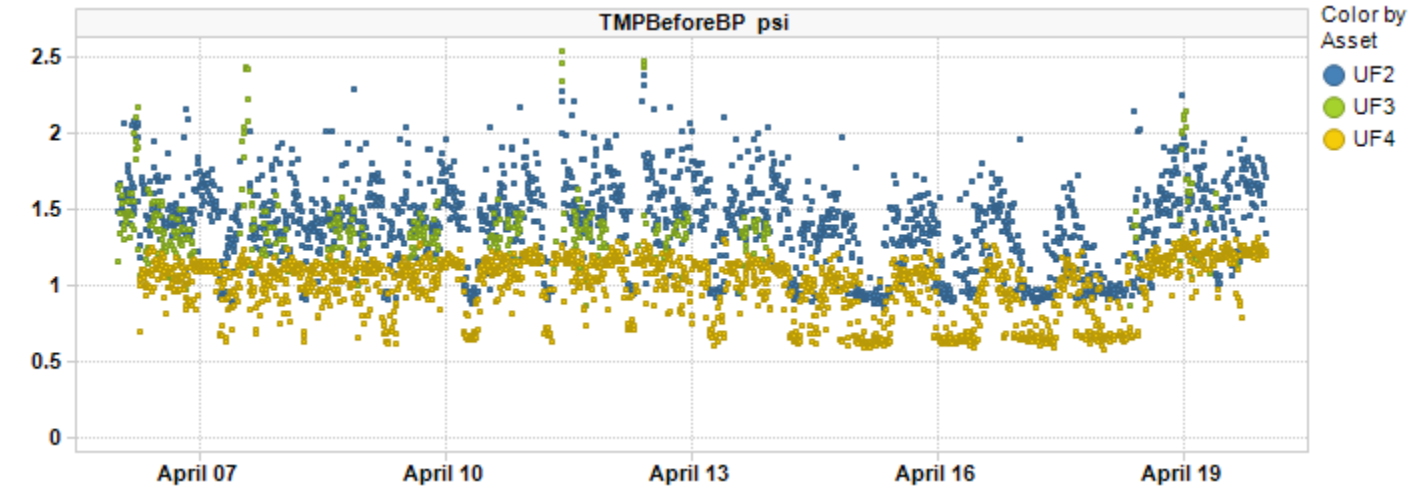
Daily median average values below



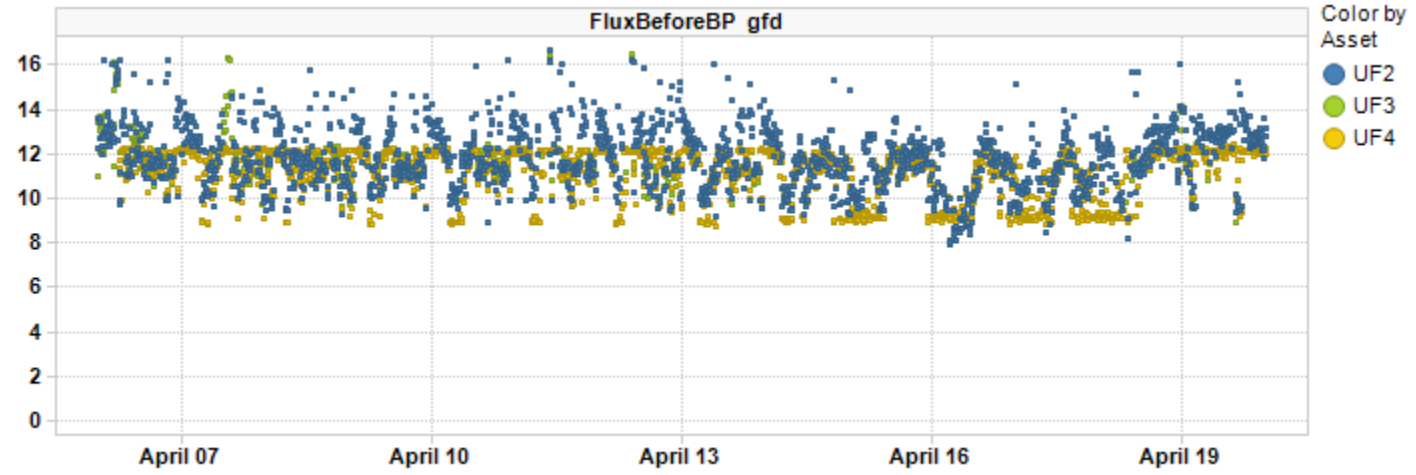
Permeate Turbidity Trend



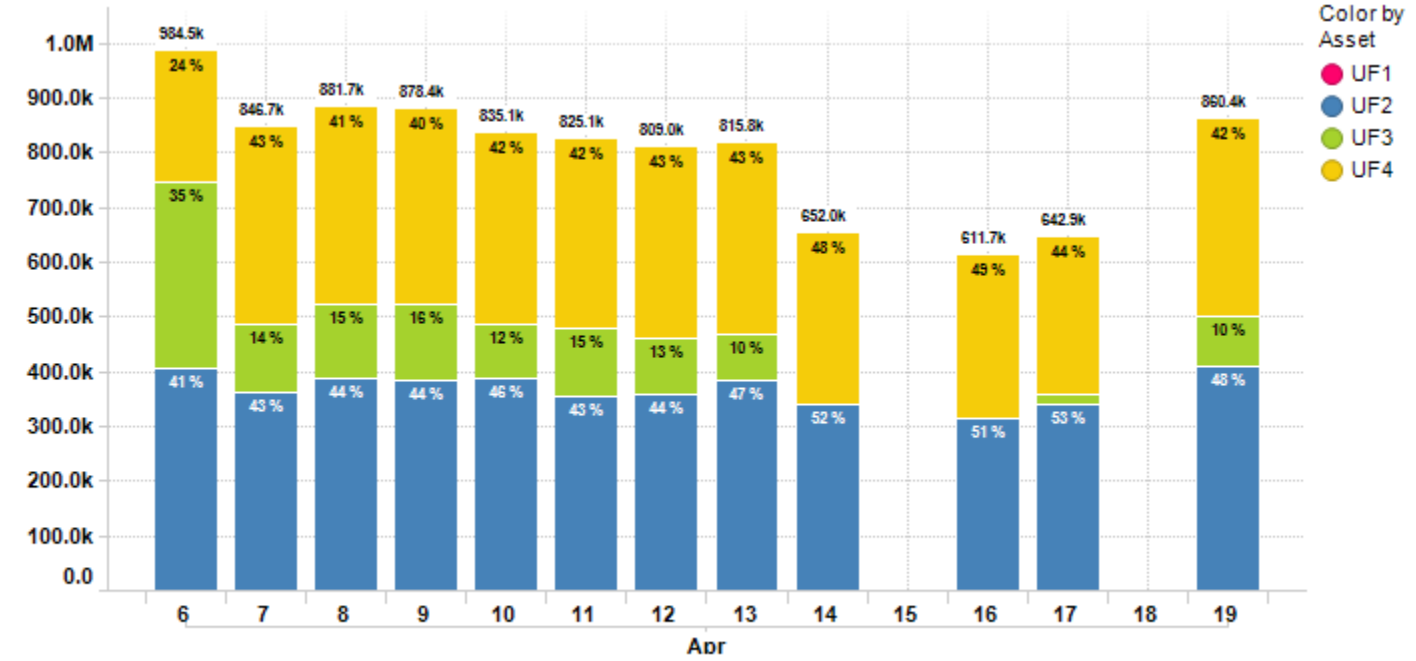
Before BPTMP Trend



Before BP Flux Trend



Daily Permeate Flow



Average Daily permeate flow from 4/6/2022 to 4/19/2022 is 803.6k gal with a maximum daily flow of 984.5k gal.

Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value		11.82	11.77	11.20
	Change		-2.33 %	-1.60 %	4.02 %
FluxDuringBP gfd	Value		18.63	17.44	18.73
	Change		1.12 %	2.62 %	-0.04 %
PermeateTurbidityAfterBP NTU	Value		0.12	0.07	0.10
	Change		-18.14 %	-42.36 %	13.20 %
TCPermeabilityBeforeBP gfd/psi	Value		9.22	9.25	12.21
	Change		-8.17 %	-17.72 %	-17.23 %
TMPBeforeBP psi	Value		1.41	1.40	1.00
	Change		3.10 %	12.08 %	14.83 %
TotalPermeateFlowDaily gal	Value	0.00	369.47k	114.39k	329.29k
	Change	0.00 %	62.74 %	64.90 %	7.78 %

Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	63.22
	Change	3.60 %
TotalPermeateFlowDaily gal	Value	876.34k
	Change	24.84 %

Contract Expiry Date : **08/11/2021**

For InSight technical assistance please email insight.src@suez.com or please call technical support at 1 866 271 5425 or 905 469 7723 and follow the prompts, if you require after hours assistance please contact the 24/7 Emergency number provided in your plant documentation. This email is a summary of issues identified during a manual review of InSight data from the time period above. This review is an analysis of data that is logged by InSight and identifies key plant performance issues determined from this data. This data review was not focused on minor data issues but on identifying possible existing and/or upcoming critical operational issues.

This review was prepared by SUEZ Water Technologies & Solutions solely to assist water treatment plant owners and/or operators in analyzing and optimizing plant performance and is not intended to be used or relied upon for regulatory compliance or any other purpose. The content of this review is based in whole or in part on operation data obtained from the plant using InSight software. SUEZ Water Technologies & Solutions makes no representations or warranties as to the accuracy of the plant data utilized in the preparation of this review. SUEZ Water Technologies & Solutions accepts no liability for consequences or actions taken in whole or in part by any person on the basis of this review or its contents