METER 24 HOUR READING FLOW SAT 1 95001050 0.304450 0.304450 0.304450 0.304450 0.304450 0.304450 0.30	PUMP	STATIO	V	196				
READING SAT 1 95001050 0.304450 SUN 2 95305500 0.421772 O.152416 W MON 3 95727272 0.152416 W TUE 4 95879688 0.104012 turned 198 to Lewes WED 5 95983700 0.152470 off 1/3 at 1:00pm THU 6 96136170 0.174480 turned back on 1/4 FRI 7 96310650 0.192260 SAT 8 96502910 0.173080 SUN 9 96675990 0.205110 MON 10 96881100 0.192080 TUE 11 97073180 0.209710 WED 12 97282890 0.192800 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.253130 MON 17 98377180 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.205310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 156,416 gals. TOTAL 1480611 15000000000000000000000000000000000	Jai	n-22	PS 196					
SAT 1 95001050 0.304450 SUN 2 95305500 0.421772 MON 3 9572727 0.152416 W TUE 4 95879688 0.104012 turned 196 to Lewes WED 5 95983700 0.152470 of 1/3 at 1.00pm THU 6 96136170 0.174480 turned back on 1/4 FRI 7 96310650 0.192260 at 12:16 pm SAT 8 96502910 0.173080 SUN 9 96675990 0.205110 MON 10 96881100 0.192080 TUE 11 97073180 0.209710 WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 5188 0.210436 WED 26 261624 0.202199 FRI 28 66722 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 FRI 28 66722 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 FRI 20 2009018 6.323,145 gals.			METER	24 HOUR				
SUN 2 95305500 0.421772 W MON 3 95727272 0.152416 W TUE 4 95879688 0.104012 turned 196 to Lewes WED 5 95983700 0.152470 off 1/3 at 1:00pm THU 6 96136170 0.174480 turned back on 1/4 FRI 7 96310650 0.192260 at 12:15 pm SAT 8 96502910 0.173080 SUN 9 96675990 0.205110 0.007110 0.007110 WED 12 97282890 0.215810 0.007110<			READING	FLOW				
MON 3 95727272 0.152416 W TUE 4 95879688 0.104012 turned 196 to Lewes WED 5 95983700 0.152470 ft/3 at 1:00pm THU 6 96136170 0.174480 turned back on 1/4 FRT 7 96310650 0.192260 at 12:15 pm SAT 8 96502910 0.173080 SUN 9 96675990 0.205110 MON 10 96881100 0.192080 TUE 11 97073180 0.209710 WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRT 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 9899380 0.210150 FRT 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205918 MON 24 99846070 0.205918 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRT 28 66722 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL COUNT AVERAGE 0.209018 6,332,145 gals.	SAT	1	95001050	0.304450				
TUE	SUN	2	95305500	0.421772				
WED 5 95983700 0.152470 off 1/3 at 1:00pm THU 6 96136170 0.174480 turned back on 1/4 FRI 7 96310650 0.192260 at 12:15 pm SAT 8 96502910 0.173080 SUN 9 96675990 0.205110 MON 10 96881100 0.192080 TUE 11 97073180 0.209710 WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL COUNT 31 flow to Lewes 6,323,145 gals.	MON	3	95727272	0.152416	W			
THU 6 96136170 0.174480 turned back on 1/4 FRI 7 96310650 0.192260 at 12:15 pm SAT 8 96502910 0.173080 SUN 9 96675990 0.205110 MON 10 9688100 0.192080 TUE 11 97073180 0.209710 WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL COUNT 311 flow to Lewes 6,323,145 gals.	TUE	4	95879688	0.104012	turned 196	to Lewes		
FRI 7 96310650 0.192260 at 12:15 pm SAT 8 96502910 0.173080 SUN 9 96675990 0.205110	WED	5	95983700	0.152470	off 1/3 at 1:	:00pm		
SAT 8 96502910 0.173080 SUN 9 96675990 0.205110	THU	6	96136170	0.174480	turned bac	k on 1/4		
SUN 9 96675990 0.205110 MON 10 96881100 0.192080 TUE 11 97073180 0.209710 WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 <td>FRI</td> <td>7</td> <td>96310650</td> <td>0.192260</td> <td>at 12:15 pn</td> <td>n</td> <td></td> <td></td>	FRI	7	96310650	0.192260	at 12:15 pn	n		
MON 10 96881100 0.192080 TUE 11 97073180 0.209710 WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL COUNT 31 AVERAGE 0.209018 6,323,145 gals.	SAT	8	96502910	0.173080				
TUE 11 97073180 0.209710 WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 66722 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL COUNT 31 166 MVEN SERVER	SUN	9	96675990	0.205110				
WED 12 97282890 0.215810 THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL COUNT 31 flow to Lewes 6,323,145 gals.	MON	10	96881100	0.192080				
THU 13 97498700 0.193200 FRI 14 97691900 0.212840 SAT 15 97904740 0.219310 SUN 16 98124050 0.253130 MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL COUNT 31 flow to Lewes 6,323,145 gals.	TUE	11	97073180	0.209710				
FRI 14 97691900 0.212840	WED	12	97282890	0.215810				
SAT 15 97904740 0.219310	THU	13	97498700	0.193200	30			
SUN 16 98124050 0.253130	FRI	14	97691900	0.212840				
MON 17 98377180 0.213140 TUE 18 98590320 0.197180 WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 COUNT 31 AVERAGE 0.209018 6,323,145 gals.	SAT	15	97904740	0.219310				
TUE 18 98590320 0.197180	SUN	16	98124050	0.253130				
WED 19 98787500 0.206340 THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 COUNT 31 flow back to Wolfe Neck TOTAL 6.479561 AVERAGE 0.209018 6,323,145 gals.	MON	17	98377180	0.213140				r
THU 20 98993840 0.210150 FRI 21 99203990 0.198550 SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 COUNT 31 160 back to Wolfe Neck 1480611 flow back to Wolfe Neck 156,416 gals. flow to Lewes 6,323,145 gals.	TUE	18	98590320	0.197180				
FRI 21 99203990 0.198550	WED	19	98787500	0.206340				
SAT 22 99402540 0.218220 SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 flow back to Wolfe Neck TOTAL 6.479561 156,416 gals. GOUNT 31 160w to Lewes AVERAGE 0.209018 6,323,145 gals.	THU	20	98993840	0.210150				
SUN 23 99620760 0.225310 MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 156,416 gals. COUNT 31 156,416 gals. AVERAGE 0.209018 6,323,145 gals.	FRI	21	99203990	0.198550				
MON 24 99846070 0.205118 TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 flow back to Wolfe Neck TOTAL 6.479561 156,416 gals. GOUNT 31 1000000000000000000000000000000000000	SAT	22	99402540	0.218220				
TUE 25 51188 0.210436 WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 flow back to Wolfe Neck TOTAL 56,416 gals. COUNT 31 flow to Lewes AVERAGE 0.209018 6,323,145 gals.	SUN	23	99620760	0.225310				
WED 26 261624 0.202199 THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 6.479561 COUNT 31 flow back to Wolfe Neck TOTAL 56,416 gals. flow to Lewes AVERAGE 0.209018 6,323,145 gals.	MON	24	99846070	0.205118				
THU 27 463823 0.203399 FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 156,416 gals. COUNT 31 flow to Lewes AVERAGE 0.209018 6,323,145 gals.	TUE	25	51188	0.210436				
FRI 28 667222 0.201539 SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 TOTAL 6.479561 flow back to Wolfe Neck TOTAL 6.479561 flow to Lewes AVERAGE 0.209018 6,323,145 gals.	WED	26	261624	0.202199				
SAT 29 868761 0.195231 SUN 30 1063992 0.205921 MON 31 1269913 0.210698 flow back to Wolfe Neck TOTAL 6.479561 156,416 gals. flow to Lewes AVERAGE 0.209018 6,323,145 gals.	THU	27	463823	0.203399				
SUN 30 1063992 0.205921 MON 31 1269913 0.210698 flow back to Wolfe Neck TOTAL 6.479561 COUNT 31 AVERAGE 0.209018 6,323,145 gals.	FRI		667222					
MON 31 1269913 0.210698 1480611 flow back to Wolfe Neck TOTAL 6.479561 156,416 gals. COUNT 31 flow to Lewes AVERAGE 0.209018 6,323,145 gals.	SAT							
1480611 TOTAL 6.479561 COUNT 31 AVERAGE 0.209018 flow back to Wolfe Neck 156,416 gals. flow to Lewes 6,323,145 gals.		2008-03						
TOTAL 6.479561 156,416 gals. COUNT 31 flow to Lewes AVERAGE 0.209018 6,323,145 gals.	MON	31		0.210698				
COUNT 31 flow to Lewes AVERAGE 0.209018 6,323,145 gals.			1480611	¥				
AVERAGE 0.209018 6,323,145 gals.								
								žž.
MINIMUM 0.104012	AVE	RAGE		0.209018	6,323,145	gals.		
	MIN	IMUM		0.104012				
MAXIMUM 0.421772	MAX	IMUM		0.421772				

Submission Receipt

Copy of Record: 72173 Confirmation ID: r202212872173

Site: Howard Seymour Water Reclamation

Site ID: DE0021512

Plant

Submission: Discharge Monitoring Report for DE0021512 Howard Seymour

Water Reclamation Plant Outfall: 001, December, 2021

File Name: 202112-3214-60749445

File Type: .pdf

Report: DMR

Status: Signed

Hash of Data Document:

6747618818c602c64a7529191b418b32ec618377c3117d428587edacf2da74cb

Data Entry Completed: 1/28/2022

By: Richard Plack (richardplack)

5:35 PM

EMail of Submittor: Richard.Plack@Inframark.com

From: 172.31.25.193

Signed: 1/28/2022 5:36 PM

By: Richard Plack (richardplack)

EMail of Signator: Richard.Plack@Inframark.com

From: 172.31.25.193

Token Used When Signed:

gRRbUm2dG8vOWWBhnQQORFZDmOnRPDrIDdYiktmMm94=

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PERI	WITTEE N	PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):	e Facility Name/L	ocati	on if different):]		DISCHAR	DISCHARGE MONITORING	G KEPOKI (DMK)	1			uu u
NAME		Howard Seymour Water Reclamation Plant	Reclamation Plant			DE0021512	21512		001	REPORT DESIGNATOR	70	1	Α	da la
ADD	ADDRESS	116 American Legion Road, Lewes, DE 19958 US	d, Lewes, DE 199	958 U	S	PERMIT NUMBER	NUMBER	DISCH	DISCHARGE NUMBER	DATA ENTRY COMPLETE	Ħ	1/28	1/28/2022	2
FACILITY		Howard Seymou	Howard Seymour Water Reclamation Plant	on Pla	ant		MONITO	MONITORING PERIOD		REPORT SUBMITTED BY	richardplack	dplact	^	
LOC,	LOCATION	116 American Le	116 American Legion Road, Lewes, DE 19958 US	s, DE	19958 US	FROM	2021 12 01	10 TO	2021 12 31	STATUS OF SUBMISSION	_	itted f	Submitted for Signature	
		PARAMETER		NDI	QUANT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION	ENTRATION		EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
#					AVERAGE	MAXIMUM	STINU	MINIMUM	AVERAGE	MAXIMUM	UNITS			
1/1	Flow		SAMPLE MEASUREMENT		0.756	0.834	Mil Gal/Day				1	0	99/99	RCOTOT
		Gross Effluent (50050) PERMIT	PERMIT	•	No Limit Monitoring Reqd	No Limit Monitoring Reqd	Mil Gal/Day	No Monitoring Required	No Monitoring Required	No Monitoring Required	ı	1	99/99	RCOTOT
1/2	Dissolve	Dissolved oxygen (DO)	SAMPLE MEASUREMENT				1	5.31		9.41	mg/l	0	99/99	Imersion
		Gross Effluent (00300) PERMIT	PERMIT REQUIREMENT		No Monitoring Required	No Monitoring Required	1	No Limit Monitoring Reqd	No Monitoring Required	No Limit Monitoring Reqd	mg/l	- 1	99/99	Imersion
1/3	PH		SAMPLE MEASUREMENT				1	7		7.4	Std pH Units	0	01/01	Grab
		Gross Effluent (00400) PERMIT REQUIREMENT	PERMIT REQUIREMENT		No Monitoring Required	No Monitoring Required		6	No Monitoring Required	9	Std pH Units	- 1	01/01	Grab
1/4	Enterococcus	occus	SAMPLE MEASUREMENT				1		Δ	7	CFU/100 ML	0	01/07	Grab
		Gross Effluent (31639)	PERMIT	1	No Monitoring Required	No Monitoring Required	1	No Monitoring Required	10	104	CFU/100 ML	1	01/07	Grab
1/5	BOD5		SAMPLE MEASUREMENT		<15	<16	lbs/Day		<2.4	<2.4	mg/l	0	01/07	Composite 24
		Gross Effluent (00310) PERMIT REQUIREMENT	PERMIT		188	288	lbs/Day	No Monitoring Required	15	23	mg/l	- 1	01/07	Composite 24
1/6	BOD5		SAMPLE MEASUREMENT				1		246	246	mg/l	0	01/30	Composite 24
		Raw Sewage (00310) PERMIT REQUIREMENT	REQUIREMENT	1	No Monitoring Required	No Monitoring Required	1	No Monitoring Required	No Limit Monitoring Reqd	No Limit Monitoring Reqd	mg/l	- 1	01/30	Composite 24
1/7	TSS		SAMPLE MEASUREMENT		6	7	lbs/Day		<0.8	_	mg/l	0	01/07	Composite 24
		Gross Effluent (00530) PERMIT REQUIREMENT	REQUIREMENT	,	188	288	lbs/Day	No Monitoring Required	15	23	mg/l	1	01/07	Composite 24

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TYPED OR PRINTED I CERTIFY UNDER PENALTY OF LAWTHAT THIS OCCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUBERISHED WIN ACCORDANCE WITH A SYSTEM DESCRIED TO ASSURE THAT QUALIFIED PERSONNED PROPERLY CATHER AND EVALUATE THE INFORMATION SUBMITTED DESCRIPTION OR PERSONNED THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE TO A GATHERING THE METOMATION SUBMITTED BY THE DEST OF MY KNOWLEDGE AND BELLEF, TRUE, ACCURATE, AND COMMETTE, AND WARRETHAT THERE ARE SCHIPTANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWLEDGE AND BELLEF, TRUE, ACCURATE, AND COMMETTE, AND WARRETHAT THERE ARE SCHIPTANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWLEDGE AND CATHERING. SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT [ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR] TELEPHONE YEAR DATE MO DAY

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

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 - DMR1 [EPA FORM 3320-1 (Rev. 10-96) USED AS TEMPLATE], 2016.

1/28/2022 5:35 PM

PAGE 1 OF 2

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

STATUS OF SUBMISSION	2021 12 31	10	FROM 2021 12 01 TO 2021 12 31	FROM	116 American Legion Road, Lewes, DE 19958 US	LOCATION
REPORT SUBMITTED B	8	G PERI	MONITORING PERIOD		Howard Seymour Water Reclamation Plant	FACILITY
DATA ENTRY COMPLET	DISCHARGE NUMBER	او	PERMIT NUMBER	PER	116 American Legion Road, Lewes, DE 19958 US	ADDRESS
REPORT DESIGNATO	001		DE0021512	D	Howard Seymour Water Reclamation Plant	NAME
NG RE	DISCHARGE MONITORING REPORT (DMR)	DISCH			PERMITTEE NAME/ADDRESS (include Facility Name/Location if different):	PERMITTEE

DAT/	DISCHARGE NUMBER	MBER
REP	001	512

REPORT SUBMITTED BY TA ENTRY COMPLETE

PORT DESIGNATOR

richardplack ×

1/28/2022

	116 American Le	16 American Legion Road, Lewes, DE 19958 US	s, DE	19958 US	FROM	2021 12 01	1 10	2021 12 31	STATUS OF SUBMISSION		tted fo	Submitted for Signature	
PARA	PARAMETER		IDN	QUANT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION	ENTRATION		EX.	FREQUENCY OF ANALYSIS	OF ANALYSIS SAMPLE TYPE
				AVERAGE	MAXIMUM	STINU	MINIMUM	AVERAGE	MAXIMUM	UNITS			
		SAMPLE MEASUREMENT				•		236	236	mg/l	0	01/30	Composite 24
Raw	Raw Sewage (00530) PERMIT	PERMIT REQUIREMENT	1	No Monitoring Required	No Monitoring Required	-	No Monitoring Required	No Limit Monitoring Reqd	No Limit Monitoring Reqd	mg/l	1	01/30	Composite 24
Nitrogen		SAMPLE MEASUREMENT		21.9	21.9	lbs/Day		3.63	3.63	mg/l	0	01/30	Composite 24
Gross	Gross Effluent (00600) PERMIT	PERMIT REQUIREMENT		100	No Limit Monitoring Reqd	lbs/Day	No Monitoring Required	8	No Limit Monitoring Reqd	mg/l	- 1	01/30	Composite 24
phorus, Total		SAMPLE MEASUREMENT		<0.3	<0.3	lbs/Day		<0.05	<0.05	mg/l	0	01/30	Composite 24
Gross	Gross Effluent (00665) PERMIT	PERMIT REQUIREMENT	1	25	No Limit Monitoring Reqd	lbs/Day	No Monitoring Required	2	No Limit Monitoring Reqd	mg/l	- 1	01/30	Composite 24

2/1

TSS

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

2/3

Phosphorus, Total

2/2

Total Nitrogen

TYPED OR PRINTED ICERTIFY UNDER REMAITY OF LAW THAT THIS OCCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OF SUBPRISSION IN ACCORDANCE WITH A SYSTEM DESCRIPT OF ASSIRE THAT O'LAUFIED PERSONNE PROCESS. CATHER AND EXALURATE THE INFORMATION SUBMITTED DESCRIPTION AND MY HOUSE PERSONNE PREVAILED THE SYSTEM. OR THOSE PERSONS UNDERLY IN EAST POWER ACHTERIOT HE PROCESS OF THE SYSTEM. OR THOSE PERSONS UNDERLY LOSS OF AND SECURITY OR ACHTERIOT HE MOCRAMATION, THE INFORMATION AUGUSTATE ARE SOMEPORT PERSONNE AND EAST FIT BY ACCUMENT AND COMPLETE IN AN WARRETHAT THESE ARE SOMEPORT PERSONNE FOR SUBMITTING FALSE INFORMATION, NOLLDING THE POSSIBILITY OF PINE AND IMPRISONMENT FOR KNOWNS VIOLATIONS.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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

PRINTED:

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT [ATTACH DIGITAL SIGNATURE RECEIPT FROM CROMERR]

TELEPHONE

DATE

1/28/2022 5:35 PM PAGE 2 OF 2

YEAR

MO DAY

Monthly Operations Report: December 2021

Site: LEWES WWTP

AVERAGE MAXIMUM	AVERAGE		TOTAL	31 Fri.	30 Thu.		28 Tue.	27 Mon.	26 Sun.	25 Sat.	24 Fri.	23 Thu.	22 Wed.	21 Tue.	20 Mon.	19 Sun.	18 Sat.	17 Fri.	16 Thu.	15 Wed.	14 Tue.	13 Mon.	12 Sun.	11 Sat.	10 Fri.	9 Thu.	8 Wed.	7 Tue.	6 Mon.	5 Sun.	4 Sat.	3 Fri.	2 Thu.	1 Wed.	DATE DAY		
0.8430		0.7563	23.4460	0.843	0.822	0.800	0.776	0.773	0.779	0.725	0.804	0.802	0.781	0.760	0.764	0.751	0.751	0.738	0.756	0.739	0.728	0.747	0.743	0.829	0.735	0.760	0.725	0.724	0.757	0.812	0.770	0.746	0.707	0.499	MGD	Flow	
t	<2.40	<2.40					<2.4							<2.4							<2.4							<2.4							mg/L	BOD	
	<15.50	<14.95					<16							<15							<15							<15							lbs	Ö	
	1.00	<0.75					1.0							<0.5							1.0							<0.5							mg/L	SST	
	6.50	<4.70					7							۵							6							<3							lbs	SS	
-	<1.00	1.0				<1.0							<1.0							<1.0							<1.0						<1.0		col/100ml	Enteroc.	FINAL
500	<0.05	<0.05																										<0.1							mg	Total P	FINAL EFFLUENT OUTFALL 001
1000	<0.30	<0.30																				V						<0.30							lbs	N P	NT OUTF
262	3.63	3.63																										3.6							mg/L	Total N	ALL 001
24 93	21.92	21.92																										21.92							lbs	NE	
021	0.21	0.21																										0.2							mg/L	Ammonia as N	
1 27	1.27	1.27																										_							lbs	iia as N	
2.99	2.99	2.99																										3.0							mg/L	Nitrite +	
18 05	18.05	18.05																										18							lbs	Nitrite + Nitrate	
0.64	0.64	0.64																										0.6							mg/L	4	
3.86	3.86	3.86																										4							lbs	TKN	

1,350	236	1,10				
1,350		1 407	246	0.44	MINIMUM	S Z
	236	1,407	246	0.81	MAXIMUM	MAX
1,350	236	1,407	246	0.70	AVERAGE	AVE
				21.6940	AL	TOTAL
				0.812	Fri.	31
				0.783	Thu.	30
				0.770	Wed.	29
				0.769	Tue.	28
				0.762	Mon.	27
				0.738	Sun.	26
				0.695	Sat.	25
				0.747	Fri.	24
				0.733	Thu.	23
				0.724	Wed.	22
				0.702	Tue.	21
				0.712	Mon.	20
				0.707	Sun.	19
				0.703	Sat.	18
				0.576	Fj.	17
				0.437	Thu.	16
				0.685	Wed.	15
				0.672	Tue.	14
				0.728	Mon.	13
				0.736	Sun.	12
				0.746	Sat.	11
				0.706	Fri.	10
				0.706	Thu.	9
				0.690	Wed.	8
1350	236.0	1407	246.0	0.686	Tue.	7
				0.705	Mon.	6
				0.738	Sun.	5
				0.753	Sat.	4
				0.729	Fri.	ω
				0.588	Thu.	2
				0.456	Wed.	_
lbs	mg/L	lbs	mg/L	MGD	5	2
S	TSS		BOD	Flow	DAY	DATE

LEWES WWTF NUTRIENT OFFSET REPORT 2021

Comments:	Year Balance	December	November	October	September	August	July	June	May	April	March	February	January	Carry Over		Month
10.42		31	30	31	30	31	31	30	31	30	31	28	31			Days
		0.7563	0.5932	0.7129	0.6797	0.7576	0.8902	0.9106	0.8335	0.8386	1.0056	1.0566	0.7158		MGD	Average Monthly Flow
		3.63	2.44	3.16	3.87	7.69	5.60	3.52	6.23	4.09	6.06	7.70	5.95		mg/L	Monthly Average TN
		709.79			658.14	1,506.24		801.97	1,342.52		1,575.53	1,899.88	1,101.12		lbs	Total Monthly TN Discharged
		6.00	3.06	4.92	5.56	12.73	10.89	6.78	11.34	7.25	13.31	16.05	9.30		Tons	TN Based 16.9 lbs Manure Offset Required
		<0.05	0.12	<0.05	0.05	1.66	0.30	1.52	1.97	0.27	0.32	0.35	0.21		mg/L	Monthly Average TP
		9.78	17.81	9.22	8.50	325.14	69.05	346.30	424.52	56.65	83.20	86.36	38.86		lbs	Total Monthly TP Discharged
		1.39	2.54	1.31	1.21	46.34	9.84	49.35	60.50	8.07	11.86	12.31	5.41		Tons	TP Based 285 lbs Manure Offset Required
		6.00			5.56	46.34	10.89	49.35	60.50		13.31	16.05	9.30		Tons	Max Manure Equivalent
		-	1		1	1	1	1		1	1	1			Tons	Poultry Manure Relocated
	540.16	6.00	3.06	4.92	5.56	12.73	10.89	6.78	11.34	7.25	13.31	16.05	9.30	773.51	Tons	Poultry Manure Offset Balance

Authorized Signatory

Date

LEWES BPW WWTP Biweekly InSight Report

Date: 2/9/2022

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)

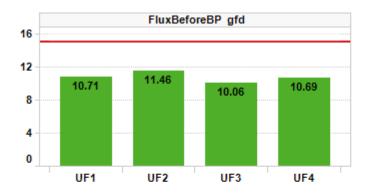
Replacement membranes installed Q1 2020 on trains UF3 and UF4

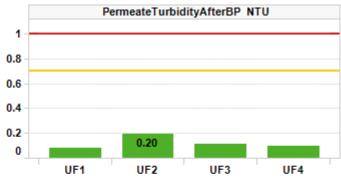
Cleaning Strategy

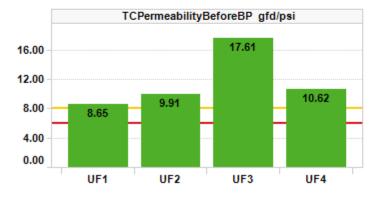
Recovery cleaning - 2 NaOCI @ 2000 ppm dose/1000 ppm soak per year, 1 Citric acid @ 2000 ppm per year Maintenance cleaning - 1 NaOCI per week @ 2000 ppm, 1 Citric acid per week @ 2000 ppm

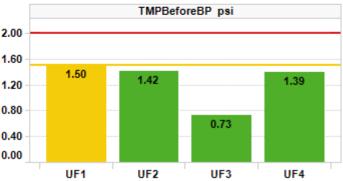
KPI Dashboard – Avg values through reporting period









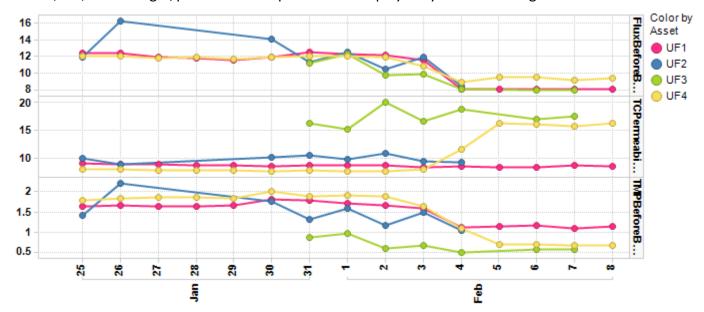




Plant Summary

Trains UF1,2,3 are operating well overall. UF4's performance increased by +7 gfd/psi with the decrease in flux on Feb 3. Permeability remains >8.0 gfd/psi on all trains.

- Daily permeate production averaged 0.70 MGD. UF1 and UF4 produced the majority of permeate in this report. UF2 and UF3 produced <10% of daily permeate except over Feb 3 4. Permeate temperature averaged 55F (-1°F). All online trains are in Backpulse with constant LEAP Hi aeration
- Flux decreased on Feb 3 for UF1 and UF4, correlated with a decrease in TMPs and increase in permeabilities on these trains. TMP BBP averaged 1.6, 1.3, 0.8, and 1.7 psi on UF1,2,3,4 before Feb 3, and averaged 1.3, 1.4, 0.6, and 0.8 psi after (-0.3 psi on UF1, and -0.9 psi on UF4)
- TC permeability BBP averages were >8 gfd/psi on all trains. Permeability increased on UF4 after flux was lowered on Feb 3, averaging 8.1 gfd/psi before, and 15.1 gfd/psi after. TCP on UF1,2,3 averaged 8.7, 9.9, and 17.6 gfd/psi overall. The plots below display daily median averages



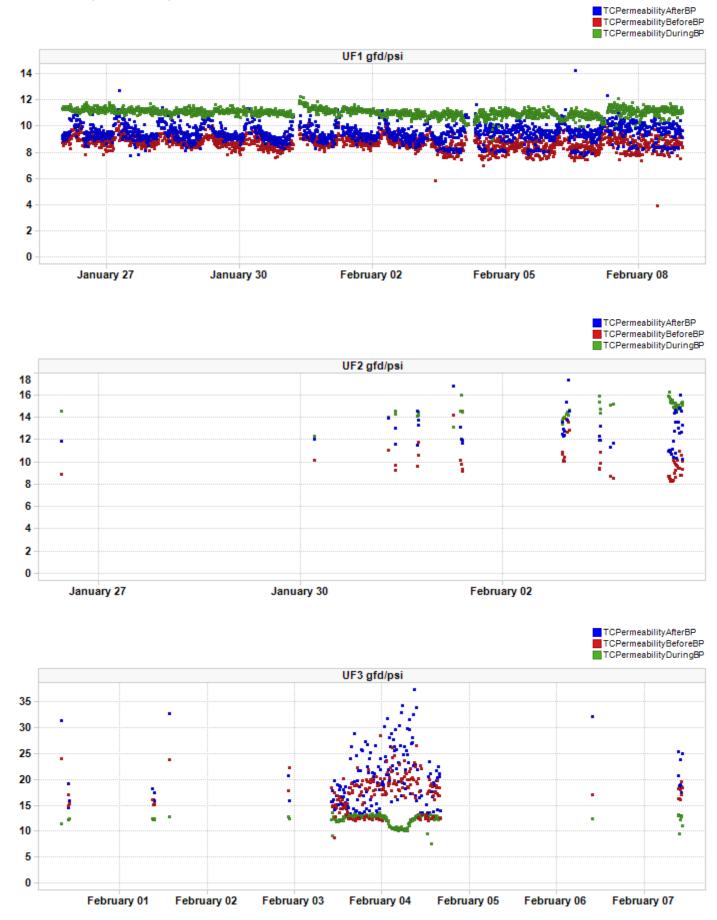
- The cause of UF4's performance decline has been identified. A cassette within UF4 when being replaced after cleaning was not seated correctly and there was an issue with the riser tube connection which contributed to solids intrusion. A new Straub fitting may help fix the connection issue. If installing a new Straub, it's best practice to mark the depth and orientation of the fitting and pipes with a grease pencil to ensure on reinstallation of the cassette a good seal is maintained
- Permeate turbidity ABP averages ranged from 0.08 0.20 NTU with higher values on Feb 4 on all trains, peaking at 2.1 NTU. UF2 had the higher average turbidity at 0.20 NTU, but was online less frequently so spiking values dominated its average value

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

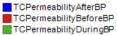
Train	UF1	UF2	UF3	UF4
# of Hypochlorite MCs	2	1	1	2
# of Citric Acid MCs	3	3	3	2

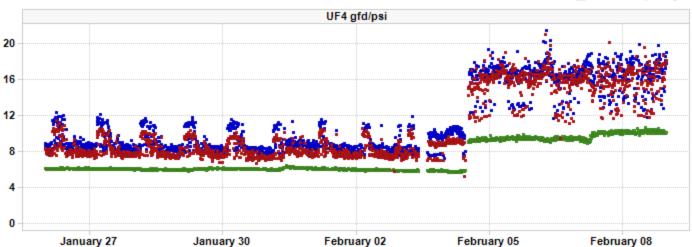
 Aerobic tank 1 dissolved oxygen averaged 1.55 ppm. Tank 2 averaged 1.28 ppm (-0.69 ppm). The preanoxic zone's DO averages were 1.22 ppm (+0.23 ppm) in tank 1, and 1.28 ppm in tank 2 which is high for nitrification

TC Permeability Trends By Train

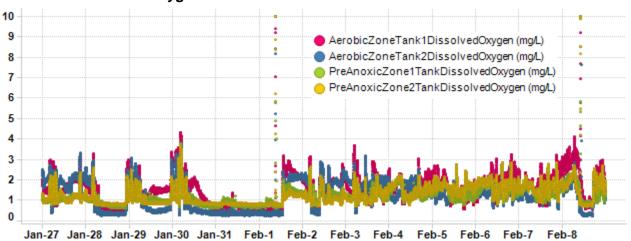




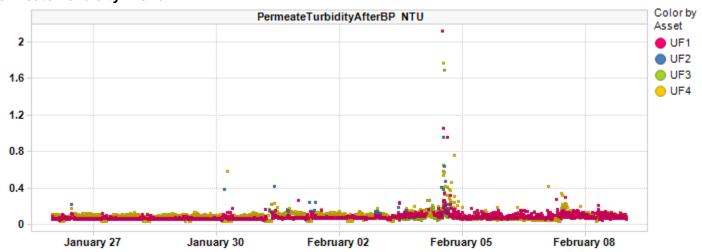




Bioreactor Dissolved Oxygen

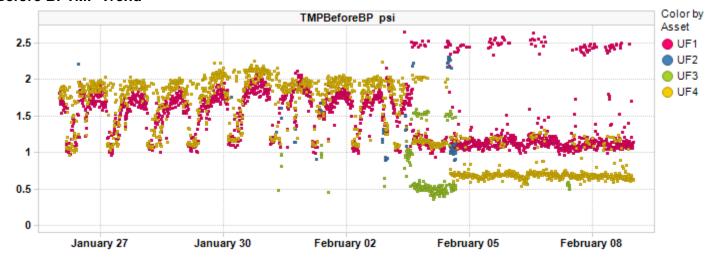


Permeate Turbidity Trend

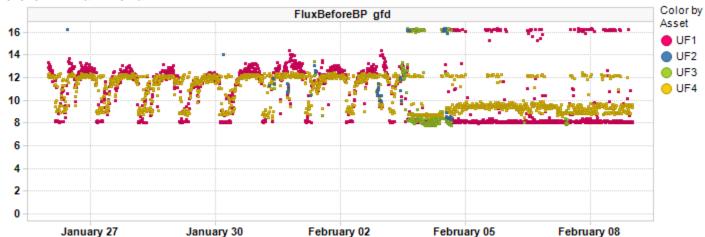




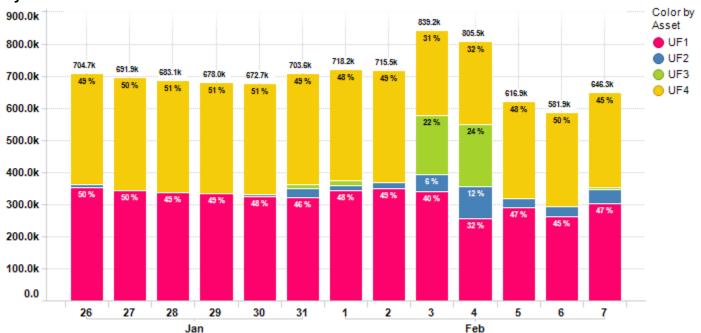
Before BPTMP Trend



Before BP Flux Trend







Average Daily permeate flow from 1/26/2022 to 2/8/2022 is 696.7k gal with a maximum daily flow of 839.2k gal.

Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	10.71	11.46	10.06	10.69
	Change	-9.85 %	3.11 %	-11.37 %	-7.00 %
FluxDuringBP gfd	Value	18.68	18.52	18.56	18.67
	Change	-0.25 %	0.37 %	0.21 %	0.21 %
PermeateTurbidityAfterBP NTU	Value	0.08	0.20	0.11	0.10
	Change	25.56 %	33.08 %	31.81 %	4.99 %
TCPermeabilityBeforeBP	Value	8.65	9.91	17.61	10.62
gfd/psi	Change	-7.53 %	-3.46 %	2.16 %	18.25 %
TMPBeforeBP psi	Value	1.50	1.42	0.73	1.39
	Change	-0.56 %	7.52 %	-8.06 %	-14.43 %
TotalPermeateFlowDaily gal	Value	319.53k	27.16k	41.86k	319.93k
	Change	-10.72 %	-15.08 %	42.76 %	-9.12 %

Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	55.08
	Change	-1.61 %
TotalPermeateFlowDaily gal	Value	777.93k
	Change	-6.31 %

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: 1/26/2022

From: Erin Horocholyn - Suez Water Technologies & Solutions

To: Austin Calaman BPW, Inframark

cc: Matt Stapleford - Suez Water Technologies & Solutions

System Equipment

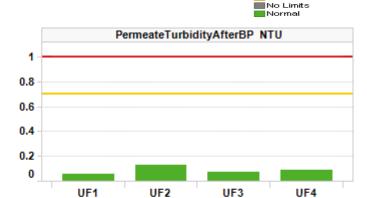
4 × ZW trains, each train consists of 4 - 500D cassettes, 120 modules x 370 sq. ft. per train (surface area 44,400 sq. ft. per train)

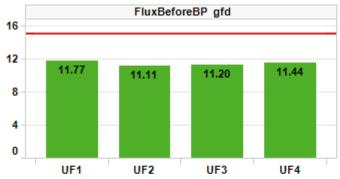
Replacement membranes installed Q1 2020 on trains UF3 and UF4

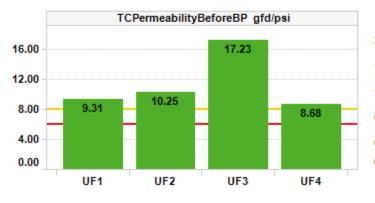
Cleaning Strategy

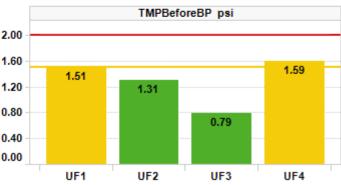
Recovery cleaning - 2 NaOCI @ 2000 ppm dose/1000 ppm soak per year, 1 Citric acid @ 2000 ppm per year Maintenance cleaning - 1 NaOCI per week @ 2000 ppm, 1 Citric acid per week @ 2000 ppm

KPI Dashboard – Avg values through reporting period









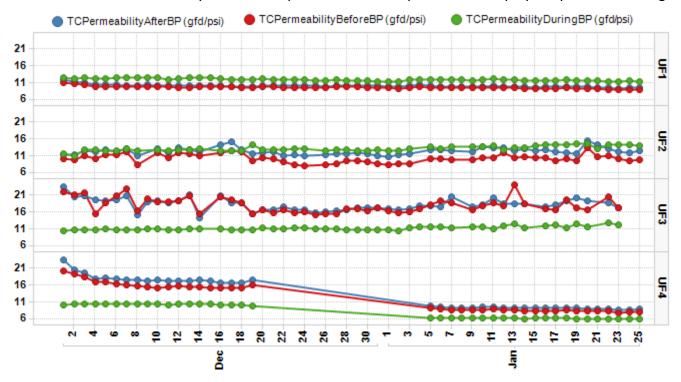
Action Required Caution



Plant Summary

Trains UF1,2,3 are operating well overall. UF4's decline in performance persists, and the train would benefit from an extended maintenance clean soak in hypochlorite. Permeability remains >8.0 gfd/psi on all trains.

- Daily permeate production averaged 0.76 MGD. UF1 and UF4 produced the majority of permeate in this report. UF2 and UF3 produced <10% of daily permeate except on Jan 16. Permeate temperature averaged 56°F (-3°F). All online trains are in Backpulse with constant LEAP Hi aeration
- TMP BBP was good, averaging <1.0 psi on UF3. UF1, UF2, and UF4's TMP averaged 1.5, 1.3, and 1.6 psi
- TC permeability BBP averages were excellent and >8 gfd/psi on all trains. UF1, UF2, UF3, and UF4 averaged 9, 10, 17, and 9 gfd/psi respectively. UF4's permeability remains lower than in December
- The change in UF4's performance happened after an offline period from Dec 19 Jan 5. The higher
 TMPs are not correlated to high flow rates. As During Backpulse permeability has decreased, fouling on
 the membranes is likely. UF4 may benefit from an extended maintenance clean, leaving the train to
 soak for 6 10 hours to try and restore performance. The plots below display daily median averages.



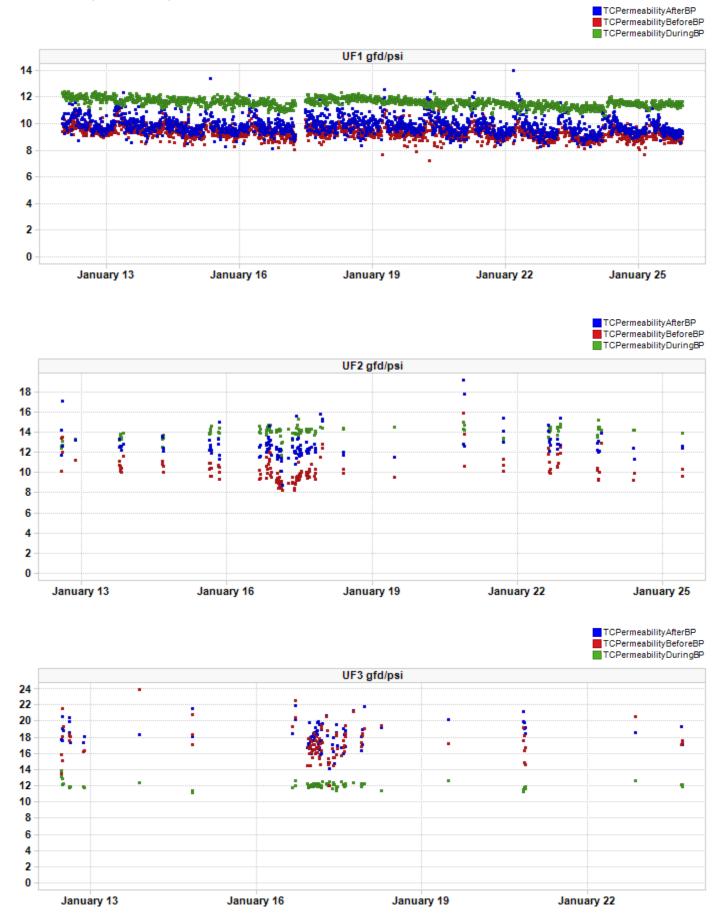
 Permeate turbidity ABP averages ranged from 0.06 – 0.13 NTU with higher values on Jan 17 on all trains, peaking at 0.37 NTU

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

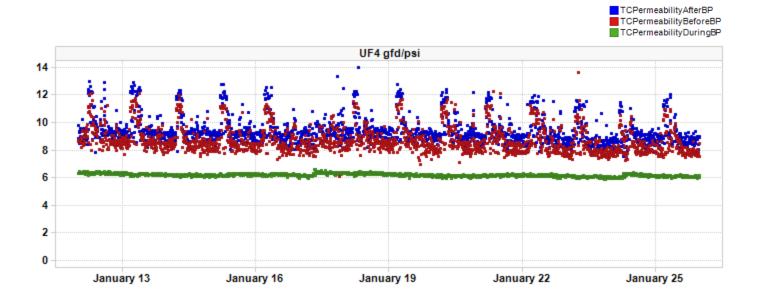
Train	UF1	UF2	UF3	UF4
# of Hypochlorite MCs	2	2	2	2
# of Citric Acid MCs	2	2	2	2

 Aerobic tank 1 dissolved oxygen averaged 1.59 ppm (+0.61 ppm). Tank 2 averaged 1.97 ppm. The preanoxic zone's DO averages were 0.99 ppm (+0.18 ppm) in tank 1, and 1.39 ppm in tank 2 which may be high for nitrification

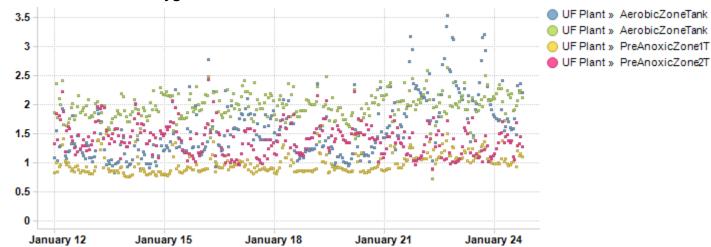
TC Permeability Trends By Train



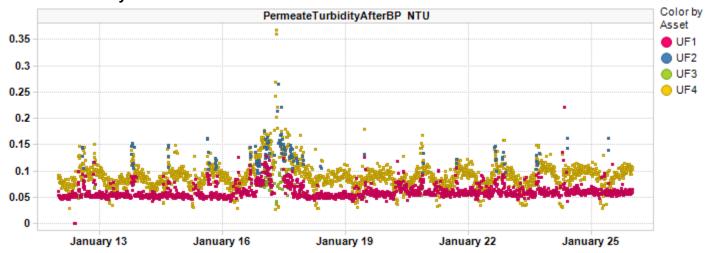




Bioreactor Dissolved Oxygen

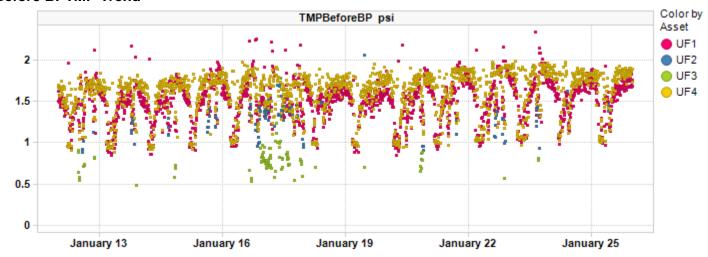


Permeate Turbidity Trend

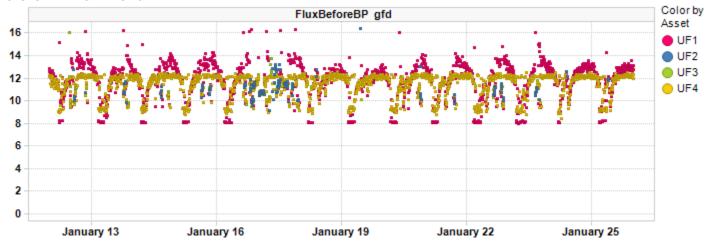




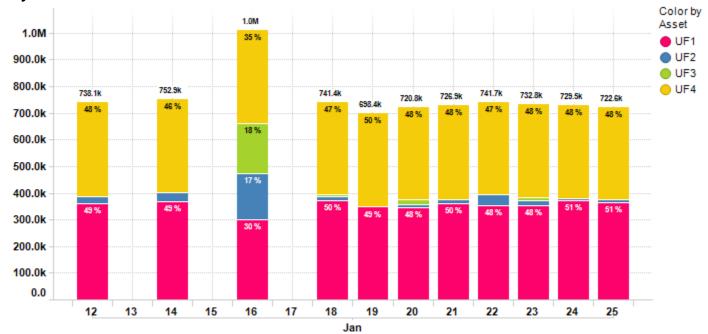
Before BPTMP Trend



Before BP Flux Trend







Average Daily permeate flow from 1/12/2022 to 1/25/2022 is 755.9k gal with a maximum daily flow of 1.0M gal.

Asset Summary

KPI Parameters	Value/Change	UF1	UF2	UF3	UF4
FluxBeforeBP gfd	Value	11.77	11.11	11.20	11.44
	Change	0.97 %	-2.85 %	-3.28 %	-0.09 %
FluxDuringBP gfd	Value	18.73	18.45	18.53	18.63
	Change	-0.43 %	-0.72 %	-0.21 %	-0.08 %
PermeateTurbidityAfterBP NTU	Value	0.06	0.13	0.08	0.09
	Change	-5.40 %	-7.30 %	1.29 %	6.90 %
TCPermeabilityBeforeBP gfd/psi	Value	9.31	10.25	17.23	8.68
	Change	-3.36 %	9.83 %	-0.38 %	-4.74 %
TMPBeforeBP psi	Value	1.51	1.31	0.79	1.59
	Change	10.05 %	-3.24 %	3.96 %	7.16 %
TotalPermeateFlowDaily gal	Value	353.79k	31.26k	23.96k	349.11k
	Change	-9.94 %	-151.04 %	-836.08 %	28.17 %

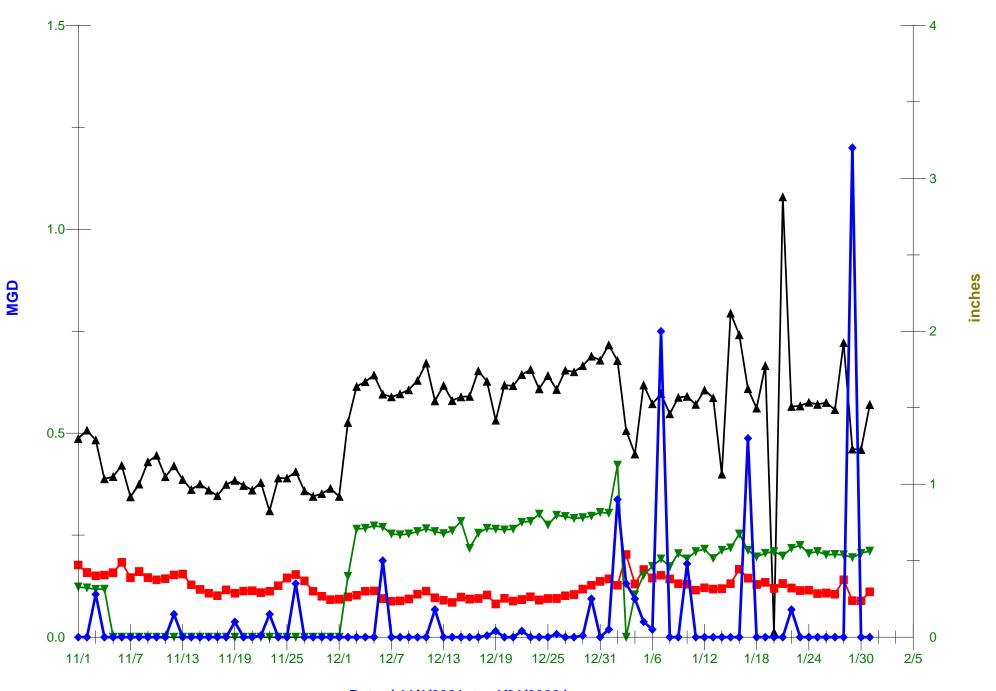
Plant Summary

KPI Parameters	Value/Change	UF Plant
PermeateTemperature °F	Value	55.95
	Change	-6.29 %
TotalPermeateFlowDaily gal	Value	827.04k
	Change	-12.15 %

Contract Expiry Date: 08/11/2021

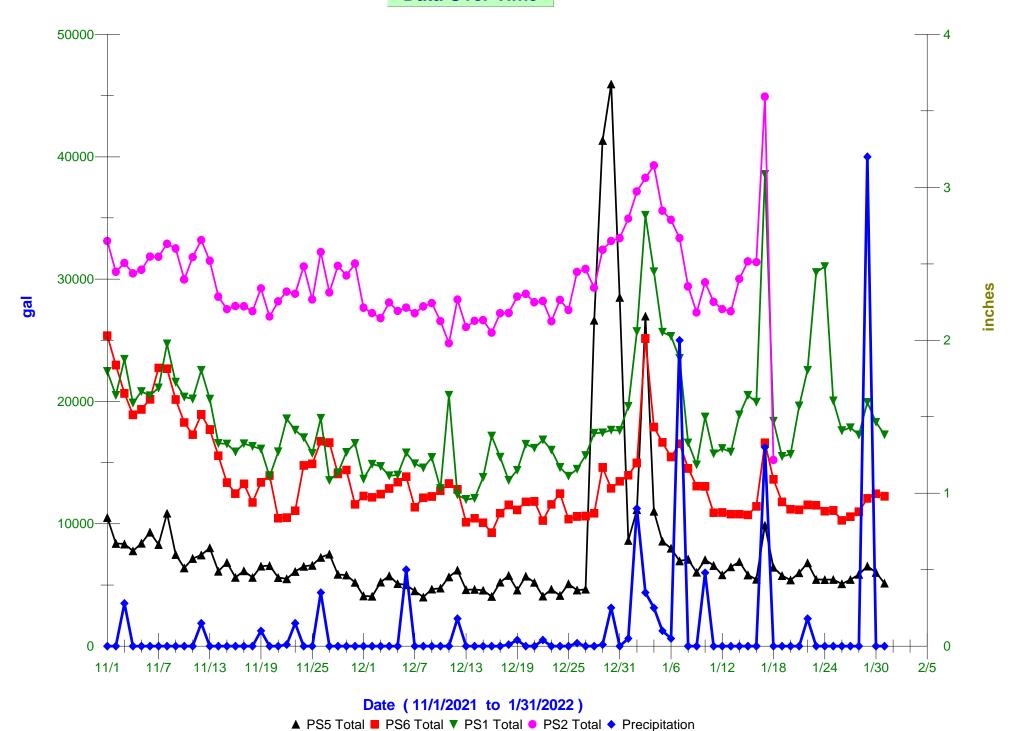
For InSight technical assistance please email insight.src@suez.com or please call technical support at 1 866 271 5425 or 905 469 7723 and follow the prompts, if you require after hours assistance please contact the 24/7 Emergency number provided in your plant documentation. This email is a summary of 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



Date (11/1/2021 to 1/31/2022)

▲ PS4 Calculate PS8 Calculate Sussex County Precipitation Flows

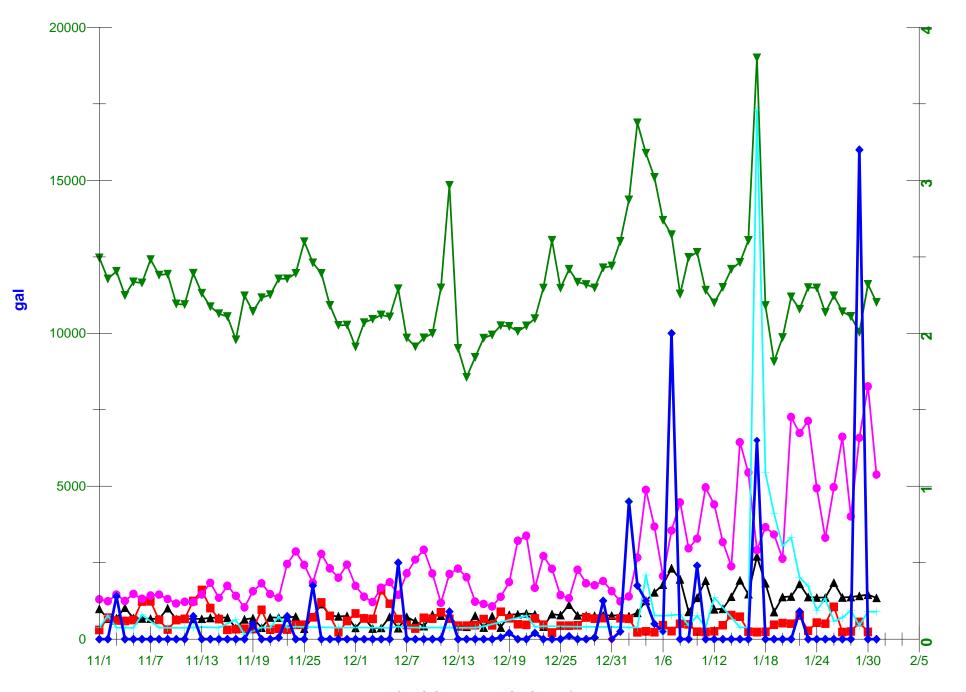


Pumped

Pumped

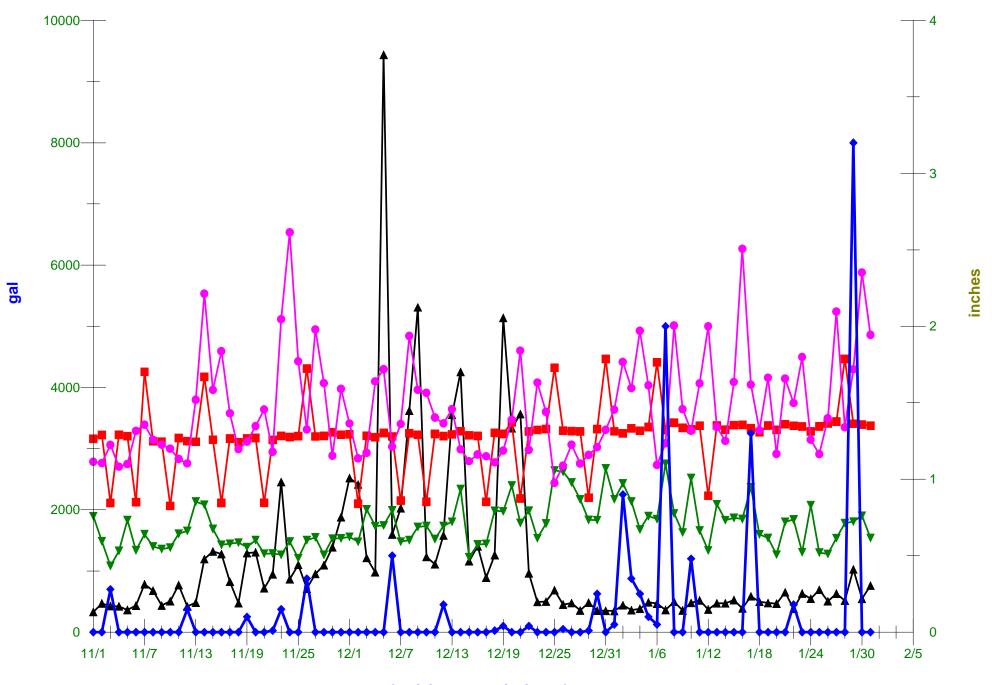
Pumped

Pumped



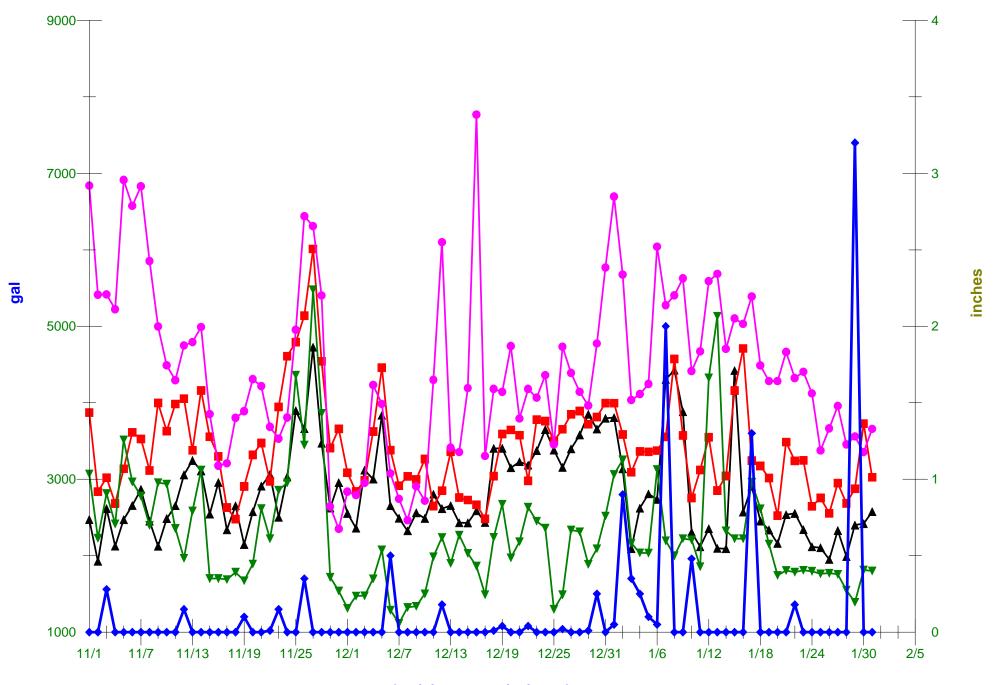
Date (11/1/2021 to 1/31/2022)

▲ PS11 Tota PS12 Tota PS3 Tota PS14 Tota PS13 Tota Precipitation Pumped Pumped Pumped Pumped Pumped



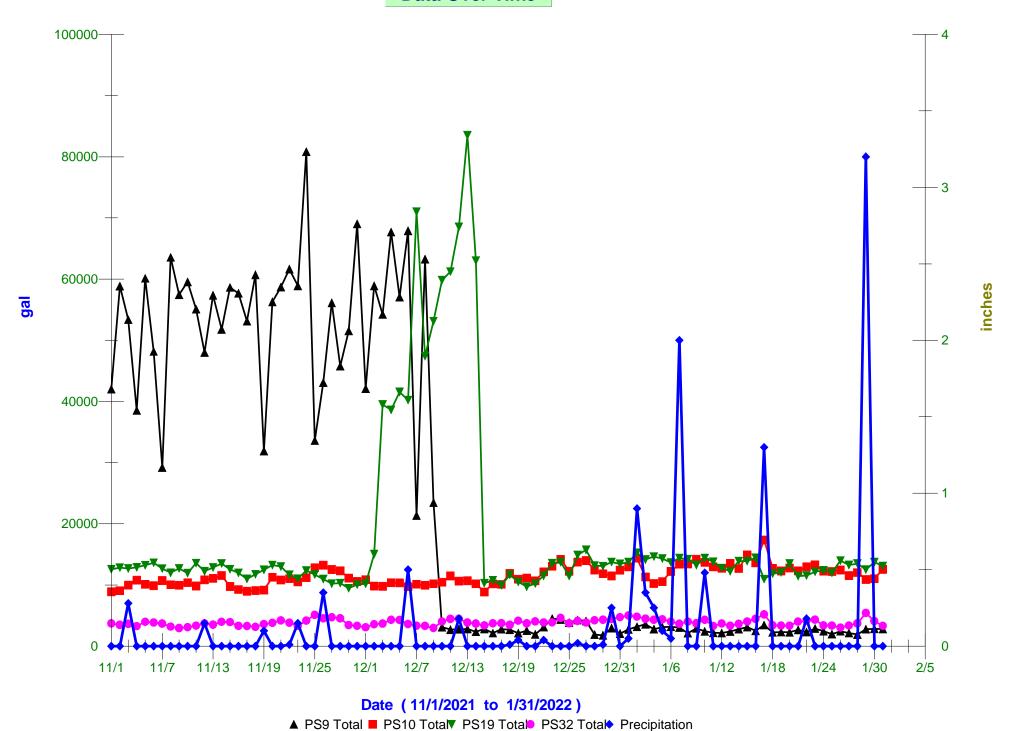
Date (11/1/2021 to 1/31/2022)

▲ PS17 Tota PS17B Tota PS18 Tota PS16 Tota Precipitation Pumped Pumped Pumped Pumped



Date (11/1/2021 to 1/31/2022)

▲ PS74 Tota PS83 Tota PS 15 Tota PS7 Total Precipitation Pumped Pumped Pumped Pumped



Pumped

Pumped

Pumped

Pumped