Summary of City of Flint (City) Actions In Response to the EPA Emergency Administrative Order Updated: June 30, 2016

Chapters 52, 57, 59a & 59b: Weekly Conference Call Regarding Flint Water Plant Operations June 30, 2016.

EPA Order Due Date: Weekly

MDEQ (NAME) and the Flint Water Treatment Plant staff met today to review and discuss the summary of water quality and corrosion control parameters reported on the City's June operation report completed to date, a summary of water quality parameters collected in the distribution system, and some other matters pertaining to operation of the city's water supply. Included with this submission are the daily worksheets for the phosphoric acid and sodium hypochlorite feed systems documenting the City's oversight of this corrosion control treatment.

The following observations were noted:

- The supplemental phosphate dosage was consistent and ranged between 2.19 and 2.27 milligrams per liter (mg/l). However, the phosphate residual measured at the point of entry on June 22nd indicated only 1.33 mg/l entering the distribution system even though 1.22 mg/l were detected in the incoming water and a dosage of 2.21 mg/l was being applied. The City may want to review the laboratory sheets to determine if any data entry errors exist.
- All but one of the phosphate residuals at the 10 weekly distribution system sites were above the minimum of 3.1 mg/l, ranging between 3.12 and 3.52 mg/l. The one weekly site remaining below 3.1 mg/l was at MLK Boulevard, where the phosphate residual was 2.91 mg/l. This site has historically reported the lowest (but acceptable) residuals for both phosphate and chlorine. In response to low residuals at this site in previous weeks, the City has responded by stating, "*It should be noted that water quality indicators have been problematic at the site.*"
- Results of the monitoring at 15 additional sites that are conducted quarterly also reported phosphate residuals below the minimum level of 3.1 mg/l at 8 of the 15 sites, ranging from as low as 1.86 to 3.05 mg/l. The City was advised to flush taps/hydrants/piping in the vicinity of these sites and resample all of them with low phosphate residuals. At this point, the only site that has been resampled was MLK Boulevard, where the phosphate residual improved from 2.91 to 2.96 mg/l. Other sites will be retested in the next few days. However, it is difficult to remedy this situation with limitations placed on flushing distribution pipes.
- All pH measurements were greater than 7.0 at the Enhanced Water Quality Monitoring (EWQM) sites and the Point of Entry (Control Station #2) to the system. The pH levels ranged from 7.43 to 7.53 in the water received from Great Lakes Water Authority (GLWA) and from 7.27 to 7.57 at the 25 distribution system sites.
- Iron levels were not reported at EWQM sites. Plant tap iron concentrations ranged from 0.02 to 0.03 mg/l in the last week.
- There were no lead results reported from the EWQM sites last week.
- The chlorine feed at Control Station #2 has been available since June 10th, and has been dosing ~0.3 mg/l to the water received from GLWA.

- The City is continuing their plans for installation of a caustic soda feed system for pH adjustment, although recent monitoring has shown increasing pH levels in the distribution system without applying any chemicals.
- The City continues to work with NAME to prepare an up-to-date disinfection byproducts monitoring plan.
- The Flint WTP is assessing the laboratory equipment and staff training necessary to initiate additional corrosion control monitoring as recommended by NAME.

In addition to the above comments and observations, NAME submitted the following information that summarizes the discussions that took place while he was visiting the Flint Water Treatment Plant:

- Vent screen replacement at the Cedar Street Reservoir (with Name) Name and I
 went to the Cedar Street Reservoir and looked at the vent screens. The reservoir is
 constructed in two sections. The original 10 million gallon (MG) section had all new
 screens; however, the cover plates on several vents were missing one or two
 bolts. NAME was advised that the bolts should be replaced or, as a minimum, the holes
 should be caulked to prevent the potential entrance of contaminants. The screens on
 the newer 10 MG section were not replaced; however, NAME was advised that one of
 them definitely needs to be, since it has developed a small tear. All screens should be
 routinely inspected for integrity.
- 2. Revised monthly operation report (MOR) to include incoming chlorine residual (at CS-2), chlorine dosage at CS-2, and plant tap chlorine residual (with Name and Name) – NAME has revised the MOR, and it looks satisfactory. The incoming and plant tap free chlorine residuals were already being shown on the MOR (columns 22 and 27, respectively). The mg/l chlorine applied at CS-2 has been added as column 18. The calculated dosage has been very steady at 0.3 mg/l, + or – 0.02 mg/l. It would therefore be expected that the plant tap free chlorine residual would be approximately 0.3 mg/l higher than that measured at CS-2; however, the difference has only been about 0.1 mg/l. We met with NAME in the lab to see if there were any sample technique or analysis issues that would explain the apparent discrepancy. NAME indicated that grab samples are collected at CS-2 and are carried into the lab for analysis using a Hach SL 1000 colorimeter, and that the same instrument is used for the plant tap sample (therefore, the discrepancy is apparently not due to different analytical equipment). I have not had time to research this lab instrument to see if it has any operational issues that need to be accounted for. If sample collection is not the issue, another possibility is that the dosage calculation needs to be adjusted (due to inaccurate inputs for NaOCI strength or incoming GLWA flow). Another possibility is that, due to the large-diameter yard and in-plant piping, there is a decline in chlorine residual by the time water reaches the plant tap. NAME and I discussed the possibility of monitoring chlorine residual closer to the point where the in-plant piping tees off from the yard piping. There is a location just after the plant piping enters the basement wall. The pipe at this location is already tapped with a corporation stop. It is possible that this location can be fitted with a sample tap for grab or continuous monitoring.
- 3. Discussion about phosphate residuals in the distribution system, and whether to increase phosphate dosage at this time (Name by telephone, Name, Name, and Name) The weekly monitoring from June 21 showed phosphate residuals below the minimum of 3.1 mg/l at one routine location (Site Name, 2.91 mg/l), and in eight of the expanded quarterly sites. Name requested that we wait for the June 26 weekly results to be compiled to see whether ongoing flushing has restored the residuals, or whether

the feed rate should be increased. The updated results were provided to me during the meeting and indicated slight (up to 0.20 mg/l) increases in residual at most locations, or very slight (up to 0.09 mg/l) decreases at a few locations. The only significant change was at the West Side Reservoir, which increased by 0.44 mg/l (from 3.19 mg/l to 3.63 mg/l). This tends to indicate that reservoir management is a significant factor. (Site Name) was up slightly to 2.96 mg/l, but was still below the target residual. We discussed distribution system practices (specifically flushing) with Name and Name to see whether additional distribution efforts might improve the residual near (Site Name). They are of the opinion that there is a hydraulic issue near that sample location that is causing (or at least contributing to) the situation. There is a gate value at the intersection of Pasadena and Iriquois which is frozen, and they suspect it is in the closed position. They feel that fixing that valve (scheduled for the week of July 11) will alter the flow patterns and bring fresher water to that area. Since all other sampling locations are above the target phosphate residual, it is possible we could wait for the valve repair to be completed and evaluate the improvement (if any). Samples could also be collected from some of the expanded sites to see whether residuals were raised above the target as a result of the recent flushing.

4. Consumer Confidence Report (Name by phone) – I assisted NAME with drafting the CCR. There are a few information gaps she needs to address. It is still her belief that she can get the CCR posted to the City's web site by July 1 and issue a press release indicating its availability, with direct mail delivery at a later date. She is aware that arrangement does not meet the direct mail delivery requirements, but it is an effort in keeping the public informed.

NAME Saginaw Bay District Office of Drinking Water and Municipal Assistance 989-xxx-xxxx

Date: 💪	-13-16					Locatio	on of NaOCL	
	NaOCL	CS 2	NaO CL	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallor	ns on Hand	
0:00								
1:00								
2:00								
3:00								
4:00								
5:00								
6:00								
7:00								
8:00				1				
9:00				· · · · · · · · · · · · · · · · · · ·				
10:00								
11:00	60	15:6	-29	38	60			BE
12:00	55	14.9	. 29	20	100			BE
13:00	55	13.9	.30	20	100			BE
14:00	55	13.5	.29	37	60			BE BE BE
15:00	55	13.8	029	39	60		1,980	BE
16:00	50	12.7	:29	37	60		1980	53
17:00	45	11.3	,29	33	60		·	0-
18:00	40350	10.1	,29	30	60			B
19:00	453	10.7	.30	30	60			Ð
20:00	45	10.4	.31	30	60			e
21:00	50	11.9	,30	35	40			57
22:00	35	13.4	.30	37	60			57
23:00	55	14.1	.28	39	60	And the second second	1980	E>-
ml/min a	verage :	51.15			Total gal	lons NaC	OCL Used:	
MGD ave	erage :	12.79						
PPM ave	rage :	0.29			Days of I	VaOCL or	n Hand:	

Date: 6	-14-16					Locatio	on of NaOCL	
	NaOCL	CS 2	NaO CL	Pump S	Setting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallor	is on Hand	
0:00	57	14.4	.29	40	60		1980	M
1:00	55	14.6	.27	40	60			Ŵ
2:00	60	14.7	.29	43	60			M
3:00	65	15.0	.31	46	66			M
4:00	65	15.0	.31	46	60			M
5:00	65	15.1	.31	46	60			M
6:00	65	15.2	.31	46	60			M
7:00	65	15.4	.30	46	60		1980	M
8:00	60	14.5	.29	46	60		1980	53-
9:00	60	14.7	.3	46	60			57
10:00	60	14.0	,31	44	60			53
11:00	60	14.(229	44	60			07
12:00	60	14.1	.29	44	60			()
13:00	58	13.7	.3	43	60			50-
14:00	60	14.1	.29	44	60			57
15:00	60	14.0	.31	44	1	• .	1980	57
16:00	55	12.8	-31	40	60		1980	BE
17:00	53	12.7	,30	38.	60			BE
18:00	53	12,7	130	38	60			BE
19:00	53	12.8	.30	38	60			BE
20:00	51	12.5	.29	36	60			BE
21:00	56	13.3	.30	41	60			BE
22:00	58	13.7	,30	43	60			BE
23:00	60	14.5	-30	44	60		1980	BE
nl/min a	verage :	58,0	11		Total ga	llons NaC	OCL Used:	
VIGD ave	erage :	14.0						
PPM ave	erage :	0.29			Days of	NaOCL or	n Hand:	
	1			**************************************	(Train	Shed + CS2)		

Date: 6	-15-16					Locatio	on of NaOCL	
	NaOCL	CS 2	NaO CL	Pump	Setting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallor	is on Hand	
0:00	65	15.4	.30	47	60		1980	M
1:00	65	15.4	.30	47	60		1100	M
2:00	65	15.5	.30	47	60			Mi
3:00	65	15.4	» 30	47	60			M
4:00	65	15.4	,30	47	60			MV
5:00	65	15.4	.30	47	60			M
6:00	57	13.9	.29	42	60			M
7:00	57	13.6	.30	42	60		1980	M
8:00	55	13.7	,28	42	60		1980	TB
9:00	62	13.6	.32	42	60			AG
10:00	52	13.0	.29	37	60			TS
11:00	52	13.1	.29	37	60	-		DS
12:00	51	13.1	.28	37	60			TS
13:00	52	13.2	.29	37	60			DS
14:00	51	13.1	,28	37	60			TB
15:00	521	13.2	.29	37	60		1980	15
16:00	46	12.2	.28	34	60		1980	Ð.
17:00	47	12.2	-28	34	60			23-
18:00	51	13.0	.29	37	60	к.	. sai -	57
19:00	54	13.2	,30	39	60			ES
20:00	55	13.5	.30	40	60			57-
21:00	57	14.1	-29	42	60			E
22:00	5.7	14.1	.29	42	60			5
23:00	65	15.1	131	47	60		1980	
nl/min a	verage :	56.70	>		Total gal	lons NaC	CL Used:	
MGD ave	rage :	13.31						
PPM ave	PM average : .30					NaOCL or Shed + CS2)	n Hand:	

Date	6 1/		6-7111	Feed Ra	LESUI	and the second se	[
Date:	6-16-16			_			on of NaOCL	
	NaOCL	CS 2	NaO CL	Pump S	Setting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallon	is on Hand	
0:00	65	15.4	.31	47	60		1980	M
1:00	65	15.4	.31	47	60		1	M
2:00	62	14,7	,30	44	60			MJ
3:00	62	14.8	.30	44	60			MV
4:00	62	14.7	.30	44	60			M
5:00	62	14.7	.30	44	60			M
6:00	62	14.4	.31	44	60	22		M
7:00	62	14.5	.31	44	60		1980	M
8:00	54	13.2	.30	37	60		1980	MS
9:00	54	13.3	.30	37	60		,	DS
10:00	54	3.3	,30	37	60		1ª	DS
11:00	54	13.2	.30	37	60			PS
12:00	52	12.5	1306	35	60			05
13:00 4	Det SABAD	12.2	30 27	2536	60			AG
14:00	51	12.3	. 31	36	60			nG
15:00	49	11.7	.30	= 34	60		1580	AB
16:00	47	11.5	,30	34	60		1580	TTS
17:00	47	11.9	,29	34	60	ŧ	· · · · ·	TB
18:00	47	11.8	.29	34	60			TB
19:00	47	11.7	-29	34	1.0			77
20:00	47	11.5	,30	34	60			TO
21:00	47	11.5	,30	34	60			TB
22:00	47	11.5	,30	34	60			TB
23:00	48	11.6	.30	34	60		1980	TB
nl/min a	verage :	54	<u></u>		Total ga	lons NaC	CL Used:	<u>in an an</u>
MGD ave	rage :	13.05						
PM ave	rage :	, 30			Days of	NaOCL or	Hand:	-
					(Train	Shed + CS2)		

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Date: (0-17-1	6				Locatio	on of NaOCL	
han 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 19	NaOCL	CS 2	NaO CL	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallor	is on Hand	
0:00	48	11.7	.30	34	60		1980	BE
1:00	51	12.3	.30	35.	60	·····		BE
2:00	49	1217	.28	35	60	an alternation of the second second		de
3:00	56	13,3	031	40	60			BE
4:00	56	13.3	.31	40	60			BE
5:00	60	14.4	.30	42	60			BE
6:00	60	14.7	.30	42	60			BE
7:00	58	14.2	-30	42	60		1980	BE
8:00	58	14.1	.30	42	60		1980	TB
9:00	56	137	.30	90	60			AG
10:00	50	11.3	. 31	34	60			AG
11:00	44	10.2	, 30	30	60			DS
12:00	44	10.2	.30	30	60			PB
13:00	43,	10.0	. 30	AG6-17-16 22 29	60			AC
14:00	43	10.0	.30	29	60			AC
15:00	43	10.0	:30	29	60		1980	15
16:00	41	10.2	.28	79-17-16	60		1980	TB
17:00	43	10.0	.31	31	60			TO
18:00	42	10.0	,29	31	60			TB
19:00	42	9.9	.29	31	60			73
20:00	42	9.9	.29	31	60	and the second		TB
21:00	42	9.9	.29	31	60			TB
22:00	42	10.4	. 28	31	60			TB
23:00	51	12.4	.28	36	60		1980	TIS
nl/min a	verage :	48	5.5 B		Total ga	llons Na	OCL Used:	
VIGD ave	erage :	11.61					and the second second	
PM ave	erage :	.29			Days of	NaOCL o	n Hand:	
				A server in the server of the		Shed + CS2)	ан сайтаан ал сайтаан а а	ander an der annen open 18 - 1985 - Lander ander ander

	-18-16	(r	4			on of NaOCL	
15.2%	NaOCL	CS 2	NaO CL	Pump S	etting	CS 2	Train Shed	Operato
1*	ml/min	MGD	PPM	Speed	Stroke	Gallor	is on Hand	
0:00	60	14.4	,29	44	60	****	1980	BE
1:00	62	14.8	129	44	60			BE
2:00	62	14.7	029	44	60			BE
3:00	68	15.9	.30	50	60			BE
4:00	20	-16.5	.29	51	60			BE
5:00 6-1	7376	18.0	.29	55	60			BE
6:00	76	18.1	.29	55	60			BE BE
7:00	72	17.0	.29	52	60		1980	BE
8:00	71	16.7	, 29	52	60		1980	TS
9:00	72	16.7	,30	52	60			T
10:00	72	16.9	,29	52	60			TB
11:00	70	16.4	.30	52	60			TO
12:00	72	15.1	.33	52	60			TB
13:00	61	14,9	.28	45	60			TB
14:00	63	14.9	.29	145	60			TB
15:00	63	14.9	,29	45	60		1980	TIS
16:00	63	14.9	,29	45	66		1980	TB
17:00	63	14.9	,29	45	60			SB
18:00	63	14.9	,29	45	60			SB
19:00	63	14.9	,29	45	60			SB
20:00	62	14.9	. 29	45	60			SB
21:00	63	14.8	.30	45	60			3B
22:00	60 4	14 139 14 17 56	.30	45	60			SB
23:00	60	15.B	.26	45	60		1980	SB
ml/min av	erage :	66	Ju	TO 50		lons Na	OCL Used:	
MGD aver	age :	15.6		FLOW WENT TO				in the second
PPM aver	age :	,29		15.8	Days of I	NaOCL o Shed + CS2)	n Hand:	

			24hr	Feed Ra	ates of	NaOCL		
Date: 💪	119/14					Locatio	on of NaOCL	
15.2%	NaOCL	CS 2	NaO CL	Pump	Setting	CS 2	Train Shed	Operator
15.	ml/min	MGD	PPM	Speed	Stroke	Gallor	is on Hand	
0:00	67	17.0	.27	50	60		1980	TB
1:00	70	17.0	:28	51	60			TIS
2:00	69	17.0	.28	51	60			TB
3:00	69	17.5	,27	51	60			TIS
4:00	72	17.7	,28	52	60			TB
5:00	69	15:6	.31	50	60			TB
6:00	61	14.4	.29	44	60			TB
7:00	60	14.0	.30	44	60		1980	TB
8:00	56	13.5	.29	41	60		1980	BE
9:00	54	13.2	129	41	60		1.125	BE
10:00	56	13.2	.29	41	60			BE
11:00	58	13:3	:30	42	60			BE
12:00	56	13.1	.30	41	60			BE
13:00	56	13.0	,30	41	60			BE
14:00	58	13.2	.29	42	60			BE
15:00	58	13.2	129	42	60		1980	BE
16:00	58	13.4	.30	42	60		1980	BE
17:00	57	13,3	,30	42	60			BE
18:00	59	13,6	.30	43	60			BE
19:00	60	13.7	.30	43	60			BE
20:00	57	13.3	.30	42	60			
21:00	58	13.2	-31	42	60			ISE ISE BE
22:00	55	12.6	,30	40	60			BE
23:00	68	196,5	,29	49	60		1980	BE
nl/min a		60.9	58		Total ga	allons NaC	OCL Used:	
VIGD ave	rage :	14.40						
PPM ave	rage :	,29				NaOCL OI Shed + CS2)	n Hand:	
Notes:							~ [

Date: 6	-20 11				tes of		of NaOCL	
	-20 -16 NaOCL	C5 2	NaO	Duran	Cotting			Oreanche
BE 16	Naucl	CS 2	NaO CL	Pump	Setting	CS 2	Train Shed	Operator
150	ml/min	MGD	PPM	Speed	Stroke		on Hand	
0:00	78	18.4	.29	57	60	225	1980	MI
1:00	78	18.6	,29	57	60	70	1700	W
2:00	78	18.6	129	57	60			
3:00	78	18.7	.29	57	60			M
4:00	79	18.3	.29	59	60			M
5:00	79	18.8	.29	57	60			M
6:00	68	15.3	.31	48	60			MV
7:00	68	15.2	.31	48	60	28620-16	1980	M
8:00	65	14.9	.30	47	60	- 4	1980	BE
9:00	65	14.2	-32	47	60			BE
10:00	56	13.3	.29	40	60			BE
11:00	55	13,2	-29	40	60			BE
12:00	56	13.5	.29	40	60			BE
13:00	58	13.6	.30	4Z	60			BE
14:00	52	12.0	.30	38	60			BE
15:00	52	12,0	.30	38	60		1980	BE
16:00	50	11.6	,29	37	60		1980	BE
17:00	50	11,21	.30	37	60			BE
18:00	50	11.7	,29	37	60			BE
19:00	40	9.3	.29	30	60		3 7	BE
20:00	40	9,2	.30	30	60			BE
21:00	55	13.2	.29	41	60			BE
22:00	55	13.3	.28	41	60			BE
23:00	78	18.3	029	58	60	55	1980	BE
ml/min a		61.79			Total ga	allons NaO	CL Used: -	
MGD ave	erage :	14-46						- new 6-26
PPM ave	erage :	• 20	1			NaOCL on Shed + CS2)	Hand: 19	30 galo
Notes:								

Date: 6	-21-16					Locatio	on of NaOCL	
,150	NaOCL	CS 2	NaO CL	Pump	Setting	CS 2	Train Shed	Operator
3 10	ml/min	MGD	PPM	Speed	ed Stroke Gallons on Hand		is on Hand	
0:00	76	18,4	.28	58	60		1980	M
1:00	81	19.7	.28	61	60		1100	Mal
2:00	81	19.5	.28	61	60			M
3:00	82	19.4	.29	61	60			M
4:00	79	19.5	.28	61	60			M
5:00	80	18.4	,30	61	60	5 15 and 17 20 10 10 10 10 10 10 10 10 10 10 10 10 10		M
6:00	69	16.0	.29	49	60			
7:00 5	850 -214	13,0	.28	44			1980	
8:00	51	12.3	,28	38			1980	RF
9:00	40	12.1	. 28	38				Km
10:00	49	11.6	.29	38				DE
11:00	49	11.5	.29	38				
12:00	49	11.5	. 29	38	1			
13:00	50	1115	.30	38	60			
14:00	49	11.6	.29	38	60			
15:00	49	11.6	.29	38			1980	RF
16:00	48	11.4	,29	38		-		57
17:00	48	11.4	.29	38				
18:00	48	11.6	129	38				and the second se
19:00	49	11.5	,29	38				97
20:00	48	11.4	,29	38				57
21:00	48	11.4	,29	38		,		57
22:00	58	13.0	031	45				5-
23:00	58	13.2	• 30	45	60	165	1840	5-
nl/min av	verage : .	58.62			Total gal	lons NaC	CL Used:	
MGD ave		13,85						
PM ave	PM average : ,28					60 1980 MV 60 1980 RF 60 Sm Sm 60 $I980$ Sm 60 $I05$ $I840$ Sm $I00$ $I05$ $I840$ Sm $I00$ $I05$ $I840$ Sm Days of NaOCL on Hand: Sm Sm Sm		
					make a second se	Shed + CS2)		

Date: 6	-22-16					Locatio	n of NaOCL	
.151	NaOCL	CS 2	NaO CL	Pump	Setting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallon	s on Hand	
0:00	28	18.3	.29	61	60	165	1840	M
1:00	79	18.2	.30	61	60			Ŵ
2:00	79	18.5	. 29	61	60			M
3:00	79	18.3	.29	61	60			W
4:00	78	18.4	.29	61	60			M
5:00	79	18.6	.29	61	60			MN
6:00	79	18.7	,29	61	60			MV
7:00	51	12.1	.29	40	60	157	1840	M
8:00	49	12.9	,26	40	60	155	1840	RF
9:00	52	12.0	. 30	42	60			TIS
10:00	54	12.4	.30	42	60			SM
11:00	52	12.5	.29	42	60			RF
12:00	52	11.7	.31	43	60			JA
13:00	51	11.8	. 30	41	60			5M
14:00	53	12.2	.30	41	60			Sm
15:00	50	12.4	. 29	41	60	149	1840	SM
16:00	50	11.4	.30	38	60	148	1840	53
17:00	48	11.2	.30	38	60			Et
18:00	44	10.1	130	35	60			E
19:00	44	10.1	.30	35	60			Ð
20:00	44	10.0	,30	35	60			57
21:00	45	10.3	.30	35	60			63
22:00	44	10.5	129	35	60			E
23:00	70	14.7	. 29	57	60	144	1840	E
nl/min av	verage :	58.58)		Total ga	llons NaC	CL Used: 2	lgal
MGD ave	rage :	13.72						
PM ave	rage :	.29					Hand: 94 a	lavs
					(Train	Shed + CS2)		

Date: 6	-23-16					Locatio	n of NaOCL	
151	NaOCL	CS 2	NaO CL	Pump S	Setting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallon	s on Hand	
0:00	78	18,0	.30	63	60	143	1840	M
1:00	78	18.1	.30	63	60		1010	W
2:00	79	18.2	.30	63	60			M
3:00	79	17.9	.30	63	60			W
4:00	79	18.0	.30	63	60			M
5:00	79	17.9	.30	63	60			MV.
6:00	78	1707	.30	63	60			MU
7:00	56	12.7	.30	44	60	135	1840	m
8:00	55	12.6	.30	44	60	134	1840	RF
9:00	51	124	.28	44	60			SM
10:00	55	13.2	.29	45	60			done
11:00	57 GZEF	13,2	.30	45	60			RF
12:00	55	13.3	.28	45	60			SM
13:00	57	13.6	.29	46	60	270°	+700	RF
14:00	57	13.6	,29	46	60			RF
15:00	58	12.7	.31	46	60	127	1840	JM
16:00	48	11.6	.29	39	60	126	1840	E
17:00	49	11.5	.30	39	60			S
18:00	49	11.5	.30	39	60			57
19:00	418	11.1	130	39	60			53
20:00	48	11.1	. 30	39	60			5
21:00	54	13.4	-29	46	60			Ð
22:00	60	14.7	.29	51	60			57
23:00	73	16.3	.31	57	60	121	1840	0
ml/min av		01.75	•		Total ga	llons NaO	CL Used: Za	2941
MGD ave	the state	13.63	5					
PPM ave	rage : ,	296				NaOCL on Shed + CS2)	Hand: 89	days

mgd 13.1

Date: 6	-24-16					Locatio	on of NaOCL	
141	NaOCL	CS 2	NaO CL	Pump	Setting	CS 2	Train Shed	Operator
, XS	ml/min	MGD	PPM	Speed	Stroke	Gallon	is on Hand	
	Г	1			-1	·····	BE 6-24-16	
0:00	74	16.9	.30	60	60	120	-1940	BE
1:00	74	17.3	,29	60	60		1840	BE
2:00	74	17.0	.30	60	60			BE
3:00	74	17.0	:30	60	60			BE
4:00	74	17.2	.30	61	60			BIE
5:00	74	17.1	.30	61	60			BE
6:00	70	16.4	129	59	60		6-24-16 BE 1840	BE
7:00	55	12.7	.30	46	60	112	1990	BE
8:00	57	13.1	.30	46	60	112	1940	RF
9:00	\$5	12.4	. 28	45	60			SM
10:00	54	12.5	,27	45	60			RF
11:00	58	13.1	. 28	47	60			Jm
12:00	57	13.0	,28	47	60			RF
13:00	57	13.0	.28	47	60			JM
14:00	56	13.0	.28	47	60			In
15:00	57	13,2	.28	47	60	105	1940	RF
16:00	58	13.8	- 28	48	60	104	1840	85
17:00	58	13.6	-39	48	60			A
18:00	59	13.5	.28	48	60			63
19:00	61	13.6	.29	49	60		-	E
20:00	62	14.0	129	51	60			C+
21:00	62	13.6	.30	51	60			57
22:00	62	14.1	,29	51	60			57
23:00	64	15.3		57	60	98	1840	S
		120	2	- and the second second	Tak-1	llaur NI-C		
ml/min av	Frank and the second	62.8			l otal ga	alions Nac	DCL Used:	9 gr1
MGD ave		14.43		en e	Dave of	NaOCL a	a Hand. 00	12 Aste
PPM ave	age :	•28	1		Trair	Shed + CS2)	n Hand: <u>88</u>	15
Notes:								

% 13.8

%14.1

Date: 6	-25-16	,				Location	n of NaOCL	
141	NaOCL	CS 2	NaO CL	Pump	Setting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallon	s on Hand	
0:00	70	16.3	+30	59	60	97	1840	BE
1:00	75	17.1	.28	61	60			BE
2:00	77	17.4	.29	63	60			BE
3:00	77	17.0	.29	64	60			BE
4:00	77	16.9	.30	63	60			BE
5:00	72	16.0	.29	60	60			BE
6:00	64	13,9	.30	53	60	89	1840	BE
7:00	58	12.4	:30	49	60	88	1840	BE
8:00	58	12.1	. 31	49	60	87	1840	TB
9:00	54	11.5	.31	48	60			TB
10:00	54	11.5	.30	46	60		e	TB
11:00	55	11.5	, 31	35	80			73
12:00	53	11.5	,30	34	80			73
13:00	51	10.8	130	32	80			TB
14:00	49	10.8	. 29	31	80	TB 6/25/16		TB
15:00	55	12.0	.29	34	80	82	1840	TS
16:00	55	12.3	.29	34	80	81	1840	63
17:00	55	12.1	,29	34	80	161	1760	53
18:00	55	12.1	.29	34	80			57
19:00	54	11.9	,29	34	80			53
20:00	54	11.7	,30	34	80			53
21:00	54	11.9	.29	34	80		-	67
22:00	54	11.7	.30	34	80			67
23:00	65	13,9	.30	40	80	158	1760	8
ml/min av	/erage :	58			Total ga	llons NaO	CL Used: 19	Igal
MGD avei	rage :	13.17						
PM ave	rage :	,29			Days of	NaOCL on	Hand: 101	days
					in the second seco	Shed + CS2)		-unys

Date: 6	-26-16					Locatio	on of NaOCL	
	NaOCL	CS 2	NaO	Pump	Setting	CS 2	Train Shed	Operato
्राम्।	1/ 1		CL		1			
	ml/min	MGD	PPM	Speed	Stroke	Gallor	ns on Hand	
0:00	72	14.0	,33	40	80	156	1760	M
1:00	69	15.2	,29	58	60			M
2:00	69	15.2	.29	58	60			MV ·
3:00	69	15.4	.29	58	60			M
4:00	69	15.3	=29	58	60			M
5:00	69	15.4	.29	58	60			M
6:00	66	14.5	.29	55	60			M
7:00	67	14.4	.30	55	60	148	1760	M
8:00	67	15.0	,29	55	60	147	1760	BE
9:00	62	14.4	.28	53	60			BE
10:00	64	1414	, 29	54	60			BE
11:00	62	14.0	.29	52	60			BE
12:00	60	13.6	.29	51	60			BE
13:00	58	12.7	. 30	99	60			BE
14:00	58 54 BETERN	11.4	.30	45	60			13E
15:00	54	11.7	.30	45	60	141	1760	BE
16:00	54	12.1	.29	46	60	140	1760	3
17:00	58	12.6	230	49	60			5
18:00	58	124	.30	49	60.			57
19:00	58	12.4	.30	49	60			Et
20:00	52	11.2	.30	44	60			Et
21:00	52	11.3	.30	44	60			E3
22:00	52	1.1	.30	44	60			27
23:00	58	13.5	.28	51	60	134	1760	Et
ml/min av	/erage :	61.37	7		Total ga	llons NaC	DCL Used: 2	2
MGD aver		13.4)					
PPM aver	and the second sec	,20			Days of	NaOCL or	n Hand: 🔗	6
÷.,		······································	·····			Shed + CS2)	0	¥

N

Date:	6-27-	16				Locatio	n of NaOCL	
2180	NaOCL	CS 2	NaO CL	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallon	s on Hand	
0:00	66	13.8	.31	55	60	133	1760	63
1:00	63	135	.30	53	60			57
2:00	63	13.8	,30	63	60			A
3:00	63	13.7	,30	53	60			5
4:00	64	14.2	,29	53	60		2	27
5:00	64	13.6	.31	53	60			57
6:00	60	12.9	.30	50	60			67
7:00	60	12.9	.30	50	60	126	1760	57
8:00	60	13.1	,29	50	60	175	1760	PF
9:00	60	11.6	.33	50	60	100		RF
10:00	57	11.4	.35	48	100	1		ZF
11:00		11.0	.31	35	60			RF
12:00		11.9	,28	.34	60			RF
13:00		12.1	128	33	60			SM
14:00	43	12.3	.29	36	60			JM
15:00	46	12,4	.31	38	60	120	1760	RE
16:00		12.8	.29	38	60	119	1760	57
17:00	44	12.4	.30	38	60		2	5-
18:00	45	123	.31	38	60		-1	Ð
19:00	45	12.6	.30	38	60			9-
20:00	44	13.0	-28	38	60			57
21:00	50	14.2	.30	42	60			57
22:00	56	15.6	.30	48	60			E
23:00	58	16.1	.30	50	60	114	1760	EF
ml/min	average :	53.2	a Marina da Balaria.		Total ga	llons NaO	CL Used:	9
MGD a	verage :	13.05	5					
PPM a	verage :	,30		ne estatute de la constante	Days of	NaOCL or	Hand: 9	2
				1	(Train	Shed + CS2)		· .

Date: (6-28-16	>				Locatio	n of NaOCL	
, 182	NaOCL	CS 2	NaO CL	Pump S	Setting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	Speed	Stroke	Gallon	s on Hand	
0:00	66	18.4	.30	56	60	113	1760	57
1:00	66	19.1	.29	56	60			EZ
2:00	66	19.3	.29	56	60		· · · · · · · · · · · · · · · · · · ·	57
3:00	66	19.4	, 29	56	60			57
4:00	66	19.4	.29	56	60			57
5:00	68	19.7	.29	57	60			ET
6:00	68	19.3	.30	57	60			E
7:00	46	12.5	.31	36	60	105	1760	E)-
8:00	41	11.9	.29	36	60	105	1760	RF
9:00	42	11.7	.30	36	60	,		JM
10:00	41	11.7	.29	36	60			SM
11:00	41	11.5	, 30	36	60			Jm
12:00	42	11.7	. 30	36	60			JM
13:00	43	12.1	.29	36	60			TB
14:00	43	12.2	,29	36	60			RF
15:00	45	12.3	.30	36	60	97	1760	RF
16:00	45	10.8	.35	36	60	100	1760	TA
17:00	43	12.2	.29	36	60			TB
18:00	44	12.2	.30	36	60			TB
19:00	43	12.2	. 29	36	60			TB
20:00	44	12.3	.30	36	60			TB
21:00	43	12.6	.28	36.	60			TB
22:00	43	12.6	.28	36	60	tostu =a		TB
23:00	54	15.5	.29	46	60	428/16 TB 89 94	1760	TS
ml/min a	verage :	50			Total ga	allons NaO	CL Used: /	9gal
MGD ave	erage :	14.2						/
PPM ave	erage :	,29			and the second s	NaOCL on	Hand: 97	days
					(Trair	n Shed + CS2)		

Date: 6							ohate Used	M
Date.	-22-16	CC 2	DO	Duran C			1	
	PO ₄	CS 2	PO ₄	Pump S		CS 2	Train Shed	Operator
	ml/min	MGD	PPM		Stroke	Gallon	s on Hand	
0:00	90	18.3	2.21	10.0 38	80	172	798	M
1:00	90	18.2	2.22	10.138	80		~	MV
2:00	90	18.5	2.18	10:2 39	80			M
3:00	90	18.3	2.21	10.0 38	80			M
4:00	90	18.4	2.19	10,1 38	80			M
5:00	90	18.6	2.17	10.2 39	80			M
6:00	95	18.7	2.28	10,3 39	80			M
7:00	60	12.1	2.22	8,1 26	80	162	798	M
8:00	65	12.9	2.30	8.3 27	80	161	298	SM
9:00	60	12.0	2.24	8:1 25	80			TIS
10:00	61	12.4	2.21	8.1 26	80			Sm
11:00	62	12.5	2,23	8.2 24	80			IM
12:00	58	11.7	2.22	8.1 36	80			RF
13:00	60	11.7	2,28	8.0 26	80			RF
14:00	61	12.2	2.24	8.1 26	80			SM
15:00	61	12.4	2.21	8.1 26	80	154	798	SM
16:00	55	11.4	2.17	7.5 24	80	153	798	57
17:00	55	11.2	2.20	7.5 25	8-0			53
18:00	50	10,1	2.23	7.4 21	80			53
19:00	50	10.1	2.23	7.421	80			53
20:00	50	10.0	a.25	7.421	80			53
21:00	50	10.3	2.18	7,4 20	80			57
22:00	50	10.5	2,13	7,422	80			57
23:00	80	16.7	2.15	9.635		147	798	83
ml/min a	vorago :	171	<u>า</u>		Total		llood Or	
ml/min av MGD ave	and the state of the local designment of the state of the	67.6			rotarga	Illons PO ₄	Used: 25 g	<u>31</u>
PPM ave		2.2			Days of	PO ₄ on Ha	nd: 27	
		9,9	ι.			Shed + CS2)	and: 37 d	ays
Notes:								······

Date: 6-	23-16					Locati	on of PO4	
	PO ₄	CS 2	PO ₄	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	MA \ MA EXT	Stroke	Gallon	s on Hand	
0:00	90	18.0	2.24	9,9 37	80	146	798	M
1:00	90	18.1	2.23	10 37	80		-	M
2:00	90	18.2	2.23	10 38	80			M
3:00	88	17.9	2.20	9,9 37	80			Mal
4:00	88	18.0	2.19	9,9 37	80			M
5:00	90	17.9	2.25	9.9 38	80			M
6:00	85	17.7	2.15	9,8 36	80			MW
7:00	65	12.7	2.30	200	80	136	798	M
8:00	61	12.4	2.17	8.2 36	80	136	798	RF
9:00	61	12.4	2.24	8.1 26	the second s			SM
10:00	60	623 Ret	2.06	70	80			done
11:00	42	13.2	2,11	8,5 28	80			PE
12:00	64	13:3	2.16	8.4 28	80			SM
13:00	109	13.6	2.28	8.6 29	80	130		DE
14:00	68	13.6	2,24	8.6 29	80	770	1058	RF
15:00	61	12.7	2.16	8.3 22	80	269	658	SM
16:00	60	11.6	2.32	7.9 24	80	267	658	57
17:00	55	11.5	2.15	7.9 24	80		P 30	57
18:00	55	11.5	2.15	7925	80			5=7-
19:00	55	11.1	2.23	7.7 23	80			57
20:00	55	1/.1	223	2823	80			17
21:00	1,5	13.4	2,20	25	08			57
22:00	70	14.7	2.14	8.8 30	80			57
23:00	80	16.3	1	9.4 34	80	260	658	57-
ml/min av	/erage : 🏷	10,29		- Contraction -	Total ga	llons PO ₄	Used: 260	AAI
MGD ave	and the last of the second second second	4.34				and the second second		J
PPM ave		2.20	h		the state of the s	PO4 on Ha Shed + CS2)	ind: 35.	30

mgd 13.1

Date: 1	-24-16						ohate Used	
bate.	PO4	CS 2	PO ₄	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	MA \ MA EXT	Stroke		s on Hand	operator
					otroke	Gunon	5 on nana	
0:00	82	16.9	2.18	9.6 35	80	259	658	BE
1:00	.82	17.3	2,13	9,8 36	80		5.4. I	BE
2:00	80	17.0	2.11	917 35	80			BE
3:00	82	17.0	2,17	9.8 36	80			BE
4:00	82	17,2	2.14	9.7 36	80			BE
5:00	82	17.1	2.15	9.6 36	80			BE
6:00	80	16.4	2.19	9.5 34	80			BE
7:00	60	12.7	2.12	8:1 26	80	250	658	BE
8:00	62	13.1	2,12	1	80	Z49	458	RF
9:00	62	12.4	2.25	8.2 27	80			JM
10:00	60	12.5	2.15	8.2 26	80			RF
11:00	66	13.1		8.3 27	80			In
12:00	63	13.0	2.17	8.3 27	80			RF
13:00	64	13.0	225	8.3 37	80			Im
14:00	64	13.0	2.25	8.3 27	80			JM
15:00	62	13.2	2.11	8.3 27	80	237	.658	RF
16:00	70	13,8	2.27	8.629	80	235	658	57
17:00	76	13.6	and the second sec	8.6 29	80			57
18:00	65	13.5	2.16	8.428	80			57
19:00	65	13.6	2.16	8.4 28	80			57
20:00	70	14,0	2.25	1	80			55
21:00	65	13.6	1	8.4 27	80			ED
22:00	70	14.1	2.23	8.5 28	80			ET
23:00	50	15.3	2.35	9.2 33	80	230	658	E3-
ml/min a	verage ·	70.33	2		Total	llons PO	Used: 29	
MGD ave		14.43	- totale				<u>uscu.</u> 21	
PPM ave		Z.19			Days of	PO ₄ on Ha	and: 30 %	LANS
		2.11				Shed + CS2)	10. 2020	
Notes:								

Date: 6	-25-1k	2				Locati	on of PO4	
	PO ₄	CS 2	PO ₄	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	MA \ MA EXT	Stroke	Gallons	s on Hand	
0:00	80	16.3	2.20	914 34	80	235	658	BE
1:00	85	17.1	2.23	9.7 35	80			BE
2:00	87	17.4	2.25	9.8 36	80			BE
3:00	85	17,0	2.25	9.7 36	80			BE
4:00	82	16.9	2.18	9.6 35	80			BE
5:00	75	16.0	2.10	9.2 33	80			BE
6:00	62	13,9	2.18	8.7 29	80			BE
7:00	60	12.4	2.17	8.126	80	224	658	BE
8:00	60	12.1	2.22	8.1 26	80	223	658	TB
9:00	60	11.5	2.34	7.9 24	80			TOS
10:00	55	11.5	2.15	7.9 24	80			TB
11:00	55	11.5	2.15	7.8 24	80			TA
12:00	55	11.5	2.15	7.9 24	80			713
13:00	55	10.8	2.28	7.6 23	80			TB
14:00	55	10.8	2.28	7.7 23	80			TB
15:00	60	12.0	2.24	8.1 26	80	216	658	TP
16:00	62	12.3	226	8224	80	215	658	53
17:00	60	12.1	2.23	8.2 24	80		030	Ð
18:00	60	12.1	2.23	8.20	80			57
19:00	60	11.9	2.26	8.0 25	80			53
20:00	60	11.7	2.30	8.0 25	80			S
21:00	60	11.9	2.24	8.0 23	80			57
22:00	60	11.7	230	8,0 23	80			57
23:00	70	13.9	2.27	8.4 25	80	209	658	Ð
ml/min av	/erage :	65.1	2		Total ga	Illons PO ₄	Jsed: 26	991
MGD ave	and the second se	13.17	5					J
PPM ave	rage :	2.2	2			PO4 on Ha Shed + CS2)	nd: 33 o	lays

-

0:00 1:00 2:00	PO₄ ml/min	CS 2	PO ₄					
1:00	ml/min		rU4	Pump S	etting	CS 2	Train Shed	Operator
1:00		MGD	PPM	MA \ MA EXT	Stroke	Gallon	s on Hand	
	70	14.0	2.24	8.629	80	207	658	M
2.00	75	15.2	2.21	9.0 31	80			M
2.00	75	15.2	2.21	9.0 31	80			M
3:00	80	15.4	2.33		80		-	M
4:00	80	15.3	2.35	9.1 32	80			M
5:00	80	15.4	2.33		80			M
6:00	70	14.5	2.17	8.8 30	30			M
7:00	70	14.4	2,18	8,9 31	80	199	658	M
8:00	75	15.0	2.24	910 31	80	198	658	BE
9:00	72	12/14	2,24 1,43 BE 6-26	8.8 30	80			BE
10:00	72	19.4	2.24	8.7 29	80			BE
11:00	70	14.0	2.24	8.7 29	80			BE
12:00	70	13,6	2.31	8.6 29	80			BE
13:00	62	12.7	2.19	8.2 27	80			BE
14:00	58	11.6	2.24	7.9 24	80			BE
15:00	60	11.7	2:30	8.0 25	80	190	658	BE
16:00	60	12.1	2.23	8.0 au	80		055	C7-
17:00	60	12.6		8.1 20	80			53
18:00	60	12.4	2.17	8.126	80			0
19:00	60	12.4	2.17	8.127	80			57
20:00	55	11.2	2.20	7624	80			57
21:00	55	11.3	2.20	7.8 25	80			A
22:00	55	11.1	2.22	7.726	80			57
23:00	65	13.5	2.16	8.5 28	80	183	658	EF
ml/min ave	erage :	67.0	<u>1998 (6)</u> 1		Total ga	Illons PO4		
MGD avera		13.4			i o cui gu		<u> </u>	
PPM avera		2.2	· ····································		Days of	PO ₄ on Ha	nd: 35	
			<u></u>	1.000 Million (1990) (1990) (1990)		Shed + CS2)	20	

Date: 🅻	-27-1	6				Locati	on of PO4	
	PO ₄	CS 2	PO ₄	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	MA \ MA EXT	Stroke	Gallon	s on Hand	
0:00	70	13.8	2-28	8.6 29	80	182	(058	63
1:00	65	13.5	2.16	8.527	80			E
2:00	70	13.8	228	8.628	80			FZ
3:00	-70	13.7	2.29	8.6 29	80			57
4:00	70	14.2	2.23	8.7 29	80			53
5:00	70	13,6	2.32	8.4 27	80			5
6:00	65	12.9	2.26	8.728	80			es
7:00	65	12.9	2.26	8.7 27	80	175	658	E)-
8:00	63	13.1	2.16	8.4 28	80	175	458	RF
9:00	53	11.6	2.05	7.9 24	80			RF
10:00	60	11.4	7.36	7.8 24	80			RF
11:00	60	11.0	2.45	7.8 24	80			RF
12:00	60	11.9	2.26	8.0 25	80			RF
13:00	62	12.1	2.30	9.0 25	62			JM
14:00	64	12.3	2:34	8.1 26	80			In
15:00	64	12.4	2.30	8.2 36	80	169	658	JM
16:00	65	12.8	2.30	8:3 27	80	168	658	57
17:00	65	12.4	2.36	8:328	80			Eng
18:00	45	12.3	2.37	8.226	80			0
19:00	65	12.4	2.32	8.3 27	80			5-2-
20:00	45	13.0	2.25		80			0-
21:00	70	14.2	2.23		80			E
22:00	80	15.6	2.31	9.2 33	80			57
23:00	\$ 80	16,1	2.23	9.3 33	80	159	658	Ð
ml/min av	/erage : (66.08			Total ga	llons PO ₄	Used: 23	
MGD aver	the second s	13.0			<u>0</u>			
PPM aver		2.2			the second se	PO4 on Ha Shed + CS2)	ind: 28.6	

Date:	6-28-1	6				Locati	on of PO4	
	PO ₄	CS 2	PO ₄	Pump S	etting	CS 2	Train Shed	Operator
	ml/min	MGD	PPM	MA \ MA EXT	Stroke	Gallons	s on Hand	
			T	> 26			28-14	
0:00	90	18.4	2.20		80	1810	658	E
1:00	95	19.1	2.23	10.3 39	80			57
2:00	95	19.3	2.21	10.5 40	80			E
3:00	100	19.4	2.31	10.8 41	80			Et
4:00	100	19.4	2.31	10.8 41	80			E
5:00	100	19.7	2.28	10.6 41	80			5t
6:00	100	19.3	2.33	10.340	80			57
7:00	60	12.5	2.15	81120	80	147	658	E
8:00	60	11.9	2,26	8.0 25	80	147	658	RF
9:00	58	11.7	7.23	8.0 25	80			SM
10:00	56	11.7	2.15	7.9 24	80			JM
11:00	59	11.5	2.31	7.9 24	80			Im
12:00	55	11.7	2.11	8.0 25	80			JM
13:00	60	12.1	2.22	8.0 25	80			TB
14:00	61	12.2	2.24	8.1 26	80	10-28-18		ZF
15:00	61	12.3	2.22	1.	80	140	658	R#
16:00	50	10.8	2.08	7.2 23	80	139	658	TB
17:00	60	12.2	2.21	8.1 25	80			TIS
18:00	60	12.2	2.21	8.1 26	80			TD
19:00	60	12.2	2.21	8.1 26	80	136		73
20:00	60	12.3	2.19	8.1 26	80	265	532	TB
21:00	60	12.4	2.14	8.2 27	80			73
22:00	60	12.4	2.14	8.2 26	80			TIS
23:00	75	15.5		9.2 33	80	256	532	TIS
nl/min a	verage :	5-						
MGD ave		70			Total ga	Illons PO4 I	Used: 31gs	/
	and the second s	14.2			Dave of	DO. on Ha	nd: 2-	
PPM ave	age .	2.21			the same of	PO ₄ on Ha	nd: 7 0	
lotes:								