

Heber Public Utility District

Report to the Board of Directors

Date: March 19, 2020
From: Laura Fischer, General Manager
Subject: General Manager's Report to Board of Directors

HPUD EVENTS

At this time we are still planning the Fall Fiesta 2020. Hopefully the state will be open for business and large group activities will be allowed.

HPUD OPERATIONS AND ADMINISTRATION

Finance Manager Retirement. Our Finance Manager, Ms. Graciela Lopez, will be retiring on June 5, 2020. Graciela has worked for the District since August 2005 (15 years) and has proven to be a great employee who is able to succeed at any task presented to her. Her work has kept the HPUD on solid financial ground and has taken us from a District with limited reserves, past due audits, a manual meter reading system, and loose internal controls to a District that has a robust Annual Net Revenue in all funds, several Capital Improvement projects completed each year, funding to renovate and increase capacity at the Wastewater Treatment Plant, Water Treatment Plant, raw water lines, water distribution lines and sewer lift stations and collection system. Graciela's hard work and strict watch over the budget has allowed the District and our community to grow, she has improved the lives of our residents, the service we provide and has done an excellent job of managing our financial resources.

Join me in wishing Graciela good luck in her retirement. Once the state has reopened we will hold a celebration in her honor.

Graciela and I have selected a new Finance Manager, Ms. Lexandra Carmelo, who will join us on June 3rd. Graciela and Lexandra will work together to train (practicing social distancing) through the month of June.

Board Elections in December 2020

The deadline to call for an election are due to the County Registrar of Voters before August 7, 2020. The Resolution will be on the June agenda as we have two seats up for re-election. The terms for Directors Martin Nolasco, Jr., and Pompeyo Tabarez, Jr. expired this December. Please plan on pulling papers for reelection.

Construction Customer Border Wall/Fence. We had some interest from a customer wanting to buy water for the construction of the border fence/wall. They wanted to use the same set up as the last group that constructed the wall closer to the El Centro section, however, this construction site is near Campo which is in San Diego County. I put the question before LAFCO as I don't believe we can sell water to customers outside of our district without LAFCO's approval and especially to another county. I am waiting to hear from LAFCO before we start to supply this project with water.

I am working to design some “**Thank you**” banners to medical professionals, first responders and HPUD employees. They will be from the HPUD Board and I’ll let you know when they are ready and up.

Return to Work Practices. I am preparing policy and procedures for employees as they return to work. These will be on the agenda in May.

Response to State Water Board Sanitary Survey at Water Treatment Plant. Staff prepared a response to the State Water Board and submitted within the required time period for response. It is attached for your review.

HPUD PROJECTS

Shop Shade at Water Treatment Plant

The request for proposal to construct (install) a fabric shade at the shop was completed and submitted for advertisement. The selected company will be brought to you in June for approval.

Children’s Park

I will attend a web conference regarding the Statewide Park Grant projects on Wednesday regarding the project requirements. I will have a report on the next Board agenda along with an update on the project.

Recreation Center Sign

The Recreation Center sign should be up by Thursday’s Board meeting. I would like to have a couple of Board Members meet out at the site for pictures (with masks and social distancing) so we can advertise in the paper and send thank you communications out to the IID Local Entity.

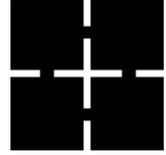
DEVELOPER UPDATES

Del Sol Apartments (Pitzer and Desert Sunrise) are moving forward with planning and permitting. HPUD is working to ensure they have sufficient deposits to cover our services and that they will pay the appropriate impact and capacity fees.

Heberwood 5a is moving quickly through construction and the remaining phases are in the final stage of approval by HPUD for waters, sewer, lighting, fire hydrants, and retention basin construction. Staff is working to ensure they are up to date with deposits and fees.

Family Dollar the consultant working with Family Dollar needs to issue a response and acceptance of the conditions placed on the development. After that HPUD can approve the plans and it would be up to the County to issue the permits.

The Holt Group, Inc.
Engineering Department



Municipal Design ■ Infrastructure Engineering ■ Construction Management ■ Land Surveying

May 15, 2020

Mr. Sean Sterchi, P.E.
San Diego District Engineer
State of California Water Resources Control Board
Division of Drinking Water
San Diego Field Office
1350 Front Street, Room 2050
San Diego, CA 92101

RE: Heber Public Utility District, System No. 1310007
2019 Sanitary Survey –
Response to Action Items

Dear Mr. Sterchi,

The Heber Public Utility District (HPUD) is preparing this correspondence in response to action items required of the 2019 Sanitary Survey dated April 17, 2020. There are various deficiencies noted in the 2019 Sanitary Survey. The deficiencies require action items to be addressed by HPUD. This letter is a response to action items that required immediate and 30 day response. The action items that allowed for 60 days of response are to be responded within the 60 day time period (June 17, 2020).

Action Item No. 1: Within 60 days of this letter, Heber PUD must repair the leak in the raw water intake line and submit photo documentation to the Division. If infeasible to repair the leak in the raw water line, Heber PUD may also install a pump to remove water from the raw water intake vault.

Response to Action Item No. 1: Water leaking into the vault is ground water that seeps between the pipe and the concrete wall. The HDPE pipe expands and contracts with the atmospheric temperatures; as such, a watertight seal cannot be accomplished. HPUD has installed a permanent submersible pump that will discharge the water within the vault. The pump is on a float system that will constantly pump out the ground water. Please see attached photo labeled Action Item No. 1.

Action Item No. 2: Within 60 days of this letter, Heber PUD must obtain a level indicator for the ferric sulfate storage tank at the RWCF and submit photo documentation to the Division.

Response to Action Item No. 2: HPUD is working on this Action Item and will follow up by June 17, 2020.

Action Item No. 3: Within 60 days of this letter, Heber PUD must obtain a level indicator for the ferric sulfate storage tank at the RWPS and submit photo documentation to the Division.

Response to Action Item No. 3: HPUD is working on this Action Item and will follow up by June 17, 2020.

Action Item No. 4: Within 60 days of this letter, Heber PUD must obtain a level indicator for the polymer storage tank at the RWPS and submit photo documentation to the Division.

Response to Action Item No. 4: HPUD is working on this Action Item and will follow up by June 17, 2020.

Action Item No. 5: Within 30 days of this letter, Heber PUD must obtain and install new graduated cylinders on the polymer feed systems.

Response to Action Item No. 5: HPUD has installed new graduated cylinders for the polymer feed systems. Please see attached photo labeled Action Item No. 5.

Action Item No. 6: Within 30 days of this letter, Heber PUD must ensure that the filter backwash cycle is operating as intended and provide a report on corrective actions taken.

Response to Action Item No. 6: Filter No. 1 was the filter that was not operating as intended during the sanitary survey. Filter Nos. 2 and 3 were and have continued to operate as intended. HPUD diagnosed the issue with the backwash cycle for Filter No. 1 and found a defective float, which triggers the backwash cycle. HPUD has replaced the float. HPUD took Filter No. 1 offline on February 14, 2020 to conduct repairs to the underdrain. At this time, the Filter backwash cycle will confirmed to run properly when the Filter underdrain repairs are made and the filter is placed into operation.

Action Item No. 7: Within 60 days of this letter, Heber PUD must revise their operations plan to include procedures and a schedule for inspecting filter media and begin maintaining filter inspection reports.

Response to Action Item No. 7: HPUD is working on this Action Item and will follow up by June 17, 2020.

Action Item No. 8: Effective immediately, Heber PUD must calculate CT using the chlorine residual measurements from the effluent of Tank 2.

Response to Action Item No. 8: HPUD has changed to calculating the CT using Tank 2. This change was conducted on February 29th, 2020, as illustrated in the monthly reports to Division.

Action Item No. 9: Begin using the revised CT calculation spreadsheet, which is included as **Enclosure 5**. The revised spreadsheet no longer requires increased inactivation based on raw water E. coli concentration with the monthly Surface Water Treatment Rule Report. Within 60 days of this letter, submitted a revised Operations Plan to more accurately reflect these new CT requirements i.e. omit the increased inactivation requirements.

Response to Action Item No. 9: HPUD is working on this Action Item and will follow up by June 17, 2020.

Action Item No. 10: Within 30 days of this letter, Heber PUD must ensure that the indicator light for submersible mixer #2 is operable and send photo documentation to the Division.

Response to Action Item No. 10: HPUD has verified for mixer No. 2 light to be on, which indicates operation of the mixer. Please see attached photo labeled Action Item No. 10.

Action Item No. 11: Within 30 days of this letter, Heber PUD must submit daily operation records from May 2019 to the Division.

Response to Action Item No. 11: HPUD has acknowledged that there was a typo in the previously submitted report. HPUD has confirmed operation of two (2) aerators in operation. HPUD daily records for TTHM System Aerators / Blower Hours for the month of May 2019 indicate that Aerator Nos. 3 and 4 were in operation (as compared by the hourly run time from one day to the previous day). Please find attached daily records indicating for May 2019 (there are 31 sheets) and the cover sheet is labeled Action Item 11.

Action Item No. 12: Within 30 days of this letter, Heber PUD must submit a quarterly report by the 10th day of the month following the previous quarter that summarizes the valves flushed in the previous quarter. The report must include the valve identification number or name, valve type, and size, number of turns, date exercised, and any notes on repairs made or needed.

Response to Action Item No. 12: HPUD has recently acquired valve exercising equipment. HPUD is expecting to receive training for the valve exercising equipment on June 23, 2020. HPUD will submit a quarterly report by July 10th, 2020 illustrating the valves exercised in the previous quarter.

Action Item No. 13: Within 30 days of this letter, Heber PUD must seal the openings on the air gap device on the overflow pipe for Tank 2 and submit photo documentation to the Division.

Response to Action Item No. 13: HPUD has sealed the air openings of the air gap device by placing bolts and nuts in the bolt holes. Please see attached photo labeled Action Item 13.

Action Item No. 14: Within 30 days of this letter, Heber PUD must replace the Tank 3 vent screens with #24 mesh vent screens and submit photo documentation to the Division.

Response to Action Item No. 14: HPUD has placed a #20 mesh screen over the vent. Please see attached photo labeled Action Item 14.

Action Item No. 15: Within 30 days of this letter, Heber PUD must ensure the flapper valve for the Tank 3 overflow pipe can open as intended and submit photo documentation to the Division.

Response to Action Item No. 15: HPUD has cleaned and opened the flapper valve as intended for operation. Please see attached photo labeled Action Item 15.

Action Item No. 16: Within 30 days of this letter, Heber PUD must ensure that the Tank 1 overflow pipe opening is screened or equipped with a flapper valve.

Response to Action Item No. 16: HPUD has installed a screen for the overflow pipe opening. Please see attached photo labeled Action Item 16.

Action Item No. 17: Effective immediately, Heber PUD must record the quantity of water that is recycled from the BWPS to the water treatment plant headworks. A spreadsheet for tracking the percentage of water that is recycled from the backwash settling basins is included as **Enclosure 8**. Heber PUD must fill out the spreadsheet each month and submit it to the Division as part of the Surface Water Treatment Rule (SWTR) report by the 10th day of the following month.

Response to Action Item No. 17: HPUD has commenced (on April 26th, 2020) to record and submit the water backwash as per the spreadsheet. HPUD will submit the spreadsheet by the 10th day of the following month.

Please contact me or Francisco Rodriguez with any questions, comments or further coordination.

Respectfully,

Juny Marmolejo

Juny Marmolejo

Project Engineer

The Holt Group, Inc., HPUD Engineers

Cc: Joseph Guzman, Division, Sanitary Engineer
Jeff Lamoure, Deputy Director – Imperial County Division of Environmental Health
Laura Fischer, HPUD, General Manager
Francisco Rodriguez, HPUD, Chief Operator
James G. “Jack” Holt, P.E., The Holt Group, Principal Engineer

HPUD 2019 SS Action Item 1:
For the RWCF, a permanent submersible pump has been installed in a sump and pumps via float system.



HPUD 2019 SS Action Item 5:
A smaller and new 100 ML graduated cylinder has been installed for the polymer feed system.



HPUD 2019 SS Action Item 10:
Please find Mixer No. 2 light to be on and
operational.

THM
SUBMERSIBLE
MIX-02

WARNING
ELECTRICAL SHOCK HAZARD
More than one disconnect switch may be
required to de-energize the equipment
before servicing.
RISQUE D'ÉLECTROCUTION
Il est possible que ce panneau de contrôle
soit alimenté par plusieurs sources. Assurez-
vous que toutes les alimentations sont débranchées
avant d'ouvrir.



MIXER ON HAND OFF AUTO MIXER

GridBee[®]
Submersible Circulators

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This product may be patented.



HEBER DIVISION WATER TREATMENT PLANT

PROCESS CONTROL

HPUD 2019 SS Action Item 11:
Daily Records which indicate Aerators
Nos. 3 and 4 hourly operation times.

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-1-19</u> Day of The Week <u>WEDNESDAY</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>16.4</u> Ft. #2 _____ Ft. #3 <u>15.9</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 Auto Manual OFF		
Filtration Rate	<u>0</u> <u>1,900</u> Gal/ Min <u>0</u> <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.1</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-3</u>		
Hypochlorite System	Auto Standby Manual <u>3508</u> Hrs Run Time <u>1</u> <u>51</u> Tank Level% <u>1</u> Cell Amps _____		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.4</u> mg/l Cl2 Demand <u>1.4</u> mg/l Total <u>3150</u> Mls/Min <u>RV</u>		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> OFF Stroke <u>X</u> % Speed <u>X</u> % Total _____ Mls/Min		
Distribution Pumps	# 101	Auto OFF <u>889</u> Gpm <u>49</u> Hz <u>3286</u> Hrs <u>51</u> Psi	
	# 102	Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 103	Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 104	Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
Distribution Flow Meter	Reading <u>9,884,000</u> Gal. Demand: <u>0.903</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>3.0</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>20.6</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>10,994</u> #4 Run Time <u>10,738</u>		
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,068</u> Mixer #1 <input checked="" type="radio"/> OFF Mixer #2 <input checked="" type="radio"/> OFF		
Finish Water Pumps	#1 Auto OFF <u>2,873</u> Hrs #2 Auto OFF <u>2,280</u> Hrs #3 Auto OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 Auto OFF <u>4,001</u> Hrs #2 Auto OFF <u>3,994</u> Hrs #3 Auto OFF <u>3,999</u> Hrs		
Upstream Clarifier	Turbidity <u>3.4</u> Ntu's Turbidity _____ Ntu's		
Downstream Clarifier	Turbidity <u>.43</u> Ntu's Turbidity _____ Ntu's PH <u>7.67</u>		
Removal Efficiency %	IN(ntu's) - <u>.43</u> OUT(ntu's) _____ $\frac{IN(ntu's)}{OUT(ntu's)} \times 100 = \frac{1}{1} \times 100 = 100\%$ % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>N/A</u> Ntu's PH <u>N/A</u> Units Temperature <u>N/A</u> C	
	# 2	Turbidity <u>1.4</u> Ntu's PH <u>8.24</u> Units Temperature <u>21</u> C	
	# 3	Turbidity <u>2.0</u> Ntu's PH <u>8.13</u> Units Temperature <u>22</u> C	
Storage Tanks	# 1	Turbidity <u>.10</u> Ntu's CL2 Residual ^{1.67} <u>1.77</u> Mg/L PH <u>7.8</u> Units Temp <u>22</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL2 Residual ^{1.44} <u>1.23</u> Mg/L PH <u>7.78</u> Units Temp <u>23</u>	
	# 3	Turbidity <u>.11</u> Ntu's CL2 Residual ^{1.94} <u>.80</u> Mg/L PH <u>8.08</u> Units Temp <u>24</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>.99</u> Mg/L PH <u>8.06</u> Temp. <u>26</u> C		
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>1.7</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>6.25</u> Ntu's _____ PH <u>8.26</u> Temp. <u>23</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G. Verdugo</u> Date: <u>5-2-19</u> Day of The Week: <u>Thursday</u>	
Plant Mode	Storage Tanks Water Level: #1 <u>17.1</u> Ft. #2 _____ Ft. #3 <u>16.4</u> Ft.	
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 Auto Manual OFF	
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min <u>0</u> / <u>2.9</u> Gal/ Sq. Ft. (GPM/280 sq ft.)	
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>0.1</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-2</u>	
Hypochlorite System	Auto Standby Manual / <u>3515</u> Hrs Run Time / <u>52</u> Tank Level% / <u>68</u> Cell Amps <u>105</u>	
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.4</u> mg/l Cl2 Demand <u>1.4</u> mg/l Total <u>3150</u> Mls/Min	
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> OFF Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min	
Distribution Pumps	# 101 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 102 Auto OFF <u>910</u> Gpm _____ Hz _____ Hrs _____ Psi	
	# 103 <input checked="" type="radio"/> Auto OFF <u>3292</u> Gpm <u>48</u> Hz <u>3292</u> Hrs <u>49</u> Psi	
	# 104 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
Distribution Flow Meter	Reading <u>10,971,000</u> Gal. Demand: <u>1.087</u> Mgd	
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>3.0</u> mg/l	
Ferric Feed Rate @ Static Mixer	Speed <u>20.6</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l	
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,020</u> #4 Run Time <u>10,760</u>	
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,094</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF	
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,292</u> Hrs #3 Auto OFF <u>2,873</u> Hrs	
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4007</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4005</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4007</u> Hrs	
Upstream Clarifier	Turbidity <u>5.2</u> Ntu's Turbidity _____ Ntu's	
Downstream Clarifier	Turbidity <u>.43</u> Ntu's Turbidity _____ Ntu's PH <u>7.64</u>	
Removal Efficiency %	<u>5.2</u> / <u>X</u> IN(ntu's) - <u>.43</u> / <u>X</u> OUT(ntu's) <u>5.2</u> / <u>X</u> IN(ntu's) X 100 = <u>X</u> % Removal Average _____ %	
Raw Water Ponds	# 1 Turbidity <u>N/A</u> Ntu's PH <u>N/A</u> Units Temperature <u>N/A</u> C	
	# 2 Turbidity <u>1.18</u> Ntu's PH <u>8.17</u> Units Temperature <u>23</u> C	
	# 3 Turbidity <u>1.85</u> Ntu's PH <u>8.05</u> Units Temperature <u>23</u> C	
Storage Tanks	# 1 Turbidity <u>.10</u> Ntu's ^{1.96} CL2 Residual <u>2.3</u> Mg/L PH <u>7.74</u> Units Temp <u>23</u>	
	# 2 Turbidity <u>.14</u> Ntu's ^{1.42} CL2 Residual <u>1.36</u> Mg/L PH <u>7.79</u> Units Temp <u>23</u>	
	# 3 Turbidity <u>.13</u> Ntu's ^{.98} CL2 Residual <u>.94</u> Mg/L PH <u>8.12</u> Units Temp <u>24</u>	
Tap Water	Turbidity <u>.11</u> Ntu's CL2 <u>1.07</u> Mg/L PH <u>8.10</u> Temp. <u>25</u> C	
Combined Filter Eff	Turbidity <u>.04</u> Ntu's CL2 <u>1.8</u> Mg/L PH <u>7.7</u> Temp. <u>24</u> C	
Central Main Canal	Turbidity <u>8.61</u> Ntu's _____ PH <u>8.22</u> Temp. <u>23</u> C	

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-3-19</u> Day of The Week <u>Friday</u>	
Plant Mode	Storage Tanks Water Level: #1 <u>18.4</u> Ft. #2 _____ Ft. #3 <u>17.9</u> Ft.	
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF	
Filtration Rate	<u>X</u> <u>1,900</u> Gal/ Min <u>X</u> <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)	
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.4</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-3</u>	
Hypochlorite System	<input checked="" type="radio"/> Auto Standby Manual <u>13521</u> Hrs Run Time <u>153</u> Tank Level% <u>1</u> Cell Amps _____	
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.4</u> mg/l Cl2 Demand <u>1.4</u> mg/l Total <u>3150</u> Mls/Min	
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> OFF Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min	
Distribution Pumps	# 101 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 102 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 103 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 104 <input checked="" type="radio"/> Auto OFF <u>913</u> Gpm <u>49</u> Hz <u>3294</u> Hrs <u>52</u> Psi	
Distribution Flow Meter	Reading <u>11,798,000</u> Gal. Demand: <u>.827</u> Mgd	
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>3.0</u> mg/l	
Ferric Feed Rate @ Static Mixer	Speed <u>20.6</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l	
THM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,042</u> #4 Run Time <u>10,782</u>	
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,116</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF	
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,302</u> Hrs #3 Auto OFF <u>2,873</u> Hrs	
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,013</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,014</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,014</u> Hrs	
Upstream Clarifier	Turbidity <u>3.43</u> Ntu's Turbidity <u>X</u> Ntu's	
Downstream Clarifier	Turbidity <u>.59</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.65</u>	
Removal Efficiency %	<u>3.43</u> , <u>X</u> IN(ntu's) - <u>.59</u> , <u>X</u> OUT(ntu's)	
	<u>3.43</u> , <u>X</u> IN(ntu's) X 100 = <u>1</u> , <u>X</u> % Removal Average _____ %	
Raw Water Ponds	# 1 Turbidity <u>2.06</u> Ntu's PH <u>8.12</u> Units Temperature <u>24</u> C	
	# 2 Turbidity <u>1.32</u> Ntu's PH <u>8.12</u> Units Temperature <u>24</u> C	
	# 3 Turbidity <u>2.08</u> Ntu's PH <u>8.07</u> Units Temperature <u>24</u> C	
Storage Tanks	# 1 Turbidity <u>.11</u> Ntu's CL2 Residual <u>2.06</u> Mg/L PH <u>7.73</u> Units Temp <u>23</u>	
	# 2 Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.45</u> <u>1.32</u> Mg/L PH <u>7.75</u> Units Temp <u>23</u>	
	# 3 Turbidity <u>.12</u> Ntu's CL2 Residual <u>.96</u> <u>.93</u> Mg/L PH <u>8.13</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.04</u> Mg/L PH <u>8.13</u> Temp. <u>25</u> C	
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>1.9</u> Mg/L PH <u>7.7</u> Temp. <u>24</u> C	
Central Main Canal	Turbidity <u>6.63</u> Ntu's _____ PH <u>8.23</u> Temp. <u>24</u> C	
Comments:		

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Manuel Carcel</u> Date: <u>6/14/19</u> Day of The Week <u>Saturday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.3</u> Ft. #2 _____ Ft. #3 <u>19</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="checkbox"/> Filter #2 AUTO MANUAL <input checked="" type="checkbox"/> Filter #3 <input checked="" type="checkbox"/> Manual OFF		
Filtration Rate	<u>898</u> / _____ Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>.1</u> / _____ Filter Head Loss Gauge Reading <u>-1</u> / _____		
Hypochlorite System	Auto Standby Manual / <u>35292</u> Hrs Run Time / <u>55</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total <u>3600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand Off Stroke _____ % Speed _____ % Total _____ Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz <u>3302.77</u> Hrs _____ Psi
	# 102	<input checked="" type="checkbox"/> OFF	<u>586</u> Gpm <u>47</u> Hz <u>3309.14</u> Hrs <u>50</u> Psi
	# 103	Auto OFF	_____ Gpm _____ Hz <u>3307.29</u> Hrs _____ Psi
	# 104	Auto OFF	_____ Gpm _____ Hz <u>3311.12</u> Hrs _____ Psi
Distribution Flow Meter	Reading <u>12684.000</u> Gal. Demand: <u>886</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>3.0</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>20.6</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11549</u> #2 Run Time <u>11088</u> #3 Run Time <u>11066</u> #4 Run Time <u>10806</u>		
Blowers Hours	Blower #1 Run Time <u>6277</u> Blower #2 Run Time <u>9140</u> Mixer #1 ON <input checked="" type="checkbox"/> Mixer #2 <input checked="" type="checkbox"/> OFF		
Finish Water Pumps	#1 Auto OFF _____ Hrs #2 Auto OFF _____ Hrs #3 Auto OFF _____ Hrs		
Raw Water Pumps	#1 Auto OFF <u>2873.66</u> Hrs #2 Auto OFF <u>2313.95</u> Hrs #3 Auto OFF <u>2873.69</u> Hrs		
Upstream Clarifier	Turbidity <u>3.24</u> Ntu's Turbidity _____ Ntu's		
Downstream Clarifier	Turbidity <u>.35</u> Ntu's Turbidity _____ Ntu's PH <u>7.71</u>		
Removal Efficiency %	_____ / _____ IN(ntu's) - _____ / _____ OUT(ntu's) _____ / _____ IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.67</u> Ntu's PH <u>8.12</u> Units Temperature <u>22</u> C	
	# 2	Turbidity <u>1.46</u> Ntu's PH <u>8.16</u> Units Temperature <u>22</u> C	
	# 3	Turbidity <u>2.29</u> Ntu's PH <u>8.06</u> Units Temperature <u>22</u> C	
Storage Tanks	# 1	Turbidity <u>.13</u> Ntu's CL2 Residual <u>2.5</u> Mg/L PH <u>7.73</u> Units Temp <u>23</u>	
	# 2	Turbidity <u>.15</u> Ntu's CL2 Residual <u>1.62</u> Mg/L PH <u>7.76</u> Units Temp <u>23</u>	
	# 3	Turbidity <u>.14</u> Ntu's CL2 Residual <u>.98</u> Mg/L PH <u>8.14</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.11</u> Ntu's CL2 <u>1.17</u> Mg/L PH <u>8.11</u> Temp. <u>24</u> C		
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>2.32</u> Mg/L PH <u>7.7</u> Temp. <u>23.6</u> C		
Central Main Canal	Turbidity <u>4.17</u> Ntu's _____ PH <u>8.21</u> Temp. <u>22</u> C		

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Manuel Carer</u> Date: <u>5/5/19</u> Day of The Week <u>Sunday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.4</u> Ft. #2 _____ Ft. #3 <u>19.2</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="checkbox"/> OFF Filter #2 AUTO MANUAL <input checked="" type="checkbox"/> OFF Filter #3 <input checked="" type="checkbox"/> Auto Manual OFF		
Filtration Rate	<u>902</u> / _____ Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>.1</u> / _____ Filter Head Loss Gauge Reading <u>-.2</u> / _____		
Hypochlorite System	Auto Standby Manual / <u>3532.5</u> Hrs Run Time / <u>51</u> Tank Level% / <u>3600</u> Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total _____ Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand Off Stroke _____ % Speed _____ % Total _____ Mls/Min		
Distribution Pumps	# 101	<input checked="" type="checkbox"/> Auto OFF	<u>470</u> Gpm <u>47</u> Hz <u>3309.79</u> Hrs <u>51</u> Psi
	# 102	<input checked="" type="checkbox"/> Auto OFF	_____ Gpm _____ Hz <u>3326.03</u> Hrs _____ Psi
	# 103	<input checked="" type="checkbox"/> Auto OFF	_____ Gpm _____ Hz <u>3307.29</u> Hrs _____ Psi
	# 104	<input checked="" type="checkbox"/> Auto OFF	_____ Gpm _____ Hz <u>3311.12</u> Hrs _____ Psi
Distribution Flow Meter	Reading <u>13517000</u> Gal. Demand: <u>833</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>3.0</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>20.6</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
THM System Aerators/	#1 Run Time <u>11549</u> #2 Run Time <u>11088</u> #3 Run Time <u>11089</u> #4 Run Time <u>10830</u>		
Blowers Hours	Blower #1 Run Time <u>6777</u> Blower #2 Run Time <u>9164</u> Mixer #1 ON <input checked="" type="checkbox"/> OFF Mixer #2 ON <input checked="" type="checkbox"/> OFF		
Finish Water Pumps	#1 <input checked="" type="checkbox"/> Auto OFF <u>2873.66</u> Hrs #2 <input checked="" type="checkbox"/> Auto OFF <u>2323.02</u> Hrs #3 Auto <input checked="" type="checkbox"/> OFF <u>2873.69</u> Hrs		
Raw Water Pumps	#1 Auto OFF <u>4026.44</u> Hrs #2 Auto OFF <u>4025.68</u> Hrs #3 Auto OFF <u>4030.29</u> Hrs		
Upstream Clarifier	Turbidity <u>5.9</u> Ntu's Turbidity _____ Ntu's		
Downstream Clarifier	Turbidity <u>.30</u> Ntu's Turbidity _____ Ntu's PH <u>7.76</u>		
Removal Efficiency %	_____ / _____ IN(ntu's) - _____ / _____ OUT(ntu's) _____ / _____ IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.10</u> Ntu's PH <u>8.18</u> Units Temperature <u>23.0</u> C	
	# 2	Turbidity <u>.88</u> Ntu's PH <u>8.21</u> Units Temperature <u>22.5</u> C	
	# 3	Turbidity <u>1.22</u> Ntu's PH <u>8.15</u> Units Temperature <u>22.2</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL2 Residual <u>2.5</u> Mg/L PH <u>7.73</u> Units Temp <u>23.4</u>	
	# 2	Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.64</u> Mg/L PH <u>7.75</u> Units Temp <u>23.6</u>	
	# 3	Turbidity <u>.12</u> Ntu's CL2 Residual <u>.99</u> Mg/L PH <u>8.14</u> Units Temp <u>23.5</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.19</u> Mg/L PH <u>8.14</u> Temp. <u>24.7</u> C		
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>2.11</u> Mg/L PH <u>7.8</u> Temp. <u>23.9</u> C		
Central Main Canal	Turbidity <u>3.95</u> Ntu's _____ PH <u>8.23</u> Temp. <u>22.8</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G. Verdugo</u> Date: <u>5-6-19</u> Day of The Week: <u>MONDAY</u>	
Plant Mode	Storage Tanks Water Level: #1 <u>19.0</u> Ft. #2 _____ Ft. #3 <u>19.2</u> Ft.	
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF	
Filtration Rate	<u>0</u> / <u>900</u> Gal/Min <u>0</u> / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)	
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>3</u> Filter Head Loss Gauge Reading <u>X</u> / <u>2</u>	
Hypochlorite System	Auto Standby Manual <u>13540</u> Hrs Run Time / <u>55</u> Tank Level% / <u>1</u> Cell Amps	
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total _____ Mls/Min	
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>V</u> % Total <u>X</u> Mls/Min	
Distribution Pumps	# 101 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 102 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 103 <input checked="" type="radio"/> Auto OFF <u>821</u> Gpm <u>48</u> Hz <u>3314</u> Hrs <u>51</u> Psi	
	# 104 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
Distribution Flow Meter	Reading <u>14,391,000</u> Gal. Demand: <u>874</u> Mgd	
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>12.0</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l	
Ferric Feed Rate @ Static Mixer	Speed <u>206</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l	
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,120</u> #4 Run Time <u>10,870</u>	
Blowers Hours	Blower #1 Run Time _____ Blower #2 Run Time _____ Mixer #1 ON OFF Mixer #2 ON OFF	
Finish Water Pumps	#1 Auto OFF _____ Hrs #2 Auto OFF _____ Hrs #3 Auto OFF _____ Hrs	
Raw Water Pumps	#1 Auto OFF _____ Hrs #2 Auto OFF _____ Hrs #3 Auto OFF _____ Hrs	
Upstream Clarifier	Turbidity <u>1.35</u> Ntu's Turbidity <u>X</u> Ntu's	
Downstream Clarifier	Turbidity <u>.53</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>8.27</u>	
Removal Efficiency %	<u>1.35</u> / <u>X</u> IN(ntu's) - <u>.53</u> / <u>X</u> OUT(ntu's) <u>1.35</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %	
Raw Water Ponds	# 1 Turbidity <u>.94</u> Ntu's PH <u>8.34</u> Units Temperature <u>21</u> C	
	# 2 Turbidity <u>1.11</u> Ntu's PH <u>8.32</u> Units Temperature <u>21</u> C	
	# 3 Turbidity <u>1.48</u> Ntu's PH <u>8.25</u> Units Temperature <u>22</u> C	
Storage Tanks	# 1 Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.07</u> <u>2.11</u> Mg/L PH <u>7.83</u> Units Temp <u>23</u>	
	# 2 Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.67</u> <u>1.49</u> Mg/L PH <u>7.78</u> Units Temp <u>23</u>	
	# 3 Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.08</u> <u>1.03</u> Mg/L PH <u>8.16</u> Units Temp <u>23</u> <u>10:45</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.11</u> Mg/L PH <u>8.13</u> Temp. <u>25</u> C	
Combined Filter Eff	Turbidity _____ Ntu's CL2 <u>2.07</u> Mg/L PH <u>7.97</u> Temp. <u>23</u> C	
Central Main Canal	Turbidity <u>9.50</u> Ntu's _____ PH <u>8.24</u> Temp. <u>23</u> C	
Comments:	<u>Closed Gate H-1</u> <u>Turn Off Ferric @ Static Mixer</u>	
McCabe	<u>.11</u>	<u>.79 mg/l</u> <u>8.18</u> <u>25.5</u> <u>12:25 pm</u>
Littlefield	<u>.10</u>	<u>.95 mg/l</u> <u>8.16</u> <u>25.6</u> <u>12:50 pm</u>

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-7-19</u> Day of The Week <u>TUESDAY</u>	
Plant Mode	Storage Tanks Water Level: #1 <u>18.8</u> Ft. #2 <u>19.0</u> Ft. #3 <u>19.0</u> Ft.	
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF	
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min <u>0</u> / <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)	
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>Y</u> / <u>1.5</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-3</u>	
Hypochlorite System	<input checked="" type="radio"/> Auto Standby Manual / <u>3545</u> Hrs Run Time / <u>57</u> Tank Level% / _____ Cell Amps	
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total <u>3600</u> Mls/Min <u>22</u>	
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Off Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min	
Distribution Pumps	# 101 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 102 Auto <input checked="" type="radio"/> OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 103 Auto <input checked="" type="radio"/> OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
	# 104 <input checked="" type="radio"/> Auto OFF <u>1043</u> Gpm <u>48</u> Hz <u>3318</u> Hrs <u>49</u> Psi	
Distribution Flow Meter	Reading <u>15,270,000</u> Gal. Demand: <u>0.879</u> Mgd	
Ferric/Polymer Feed Rate	(F) Total _____ Mls/Min Dosage _____ mg/l (P) Total _____ Mls/Min Dosage _____ mg/l	
Ferric Feed Rate @ Static Mixer	Speed _____ % Stroke _____ % Total _____ Mls/Min Dosage _____ mg/l	
PHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,137</u> #4 Run Time <u>10,878</u>	
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,212</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF	
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,342</u> Hrs #3 Auto OFF <u>2,873</u> Hrs	
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,041</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,036</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,039</u> Hrs	
Upstream Clarifier	Turbidity <u>4.40</u> Ntu's Turbidity <u>X</u> Ntu's	
Downstream Clarifier	Turbidity <u>.28</u> Ntu's Turbidity <u>X</u> Ntu's PH _____	
Removal Efficiency %	<u>4.40</u> / <u>X</u> IN(ntu's) - <u>.28</u> / <u>X</u> OUT(ntu's) <u>4.40</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %	
Raw Water Ponds	# 1 Turbidity <u>.57</u> Ntu's PH <u>8.40</u> Units Temperature <u>21</u> C	
	# 2 Turbidity <u>1.0</u> Ntu's PH <u>8.38</u> Units Temperature <u>21</u> C	
	# 3 Turbidity <u>.76</u> Ntu's PH <u>8.37</u> Units Temperature <u>21</u> C	
Storage Tanks	# 1 Turbidity <u>.10</u> Ntu's CL2 Residual <u>2.18</u> Mg/L PH <u>7.88</u> Units Temp <u>22</u>	
	# 2 Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.89</u> <u>1.76</u> Mg/L PH <u>7.83</u> Units Temp <u>22</u>	
	# 3 Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.14</u> <u>1.13</u> Mg/L PH <u>8.21</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.19</u> Mg/L PH <u>8.18</u> Temp. <u>25</u> C	
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>2.09</u> Mg/L PH <u>7.9</u> Temp. <u>24</u> C	
Central Main Canal	Turbidity <u>8.40</u> Ntu's _____ PH <u>8.28</u> Temp. <u>23</u> C	

Comments: Open Gate H-1
Turn on Ferric @ Static Mixer

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-8-19</u> Day of The Week <u>WEDNESDAY</u>		
Plant Mode	Storage Tanks Water Level: # 1 <u>18.9</u> Ft. # 2 _____ Ft. #3 <u>19.1</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF		
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min _____ <u>0</u> / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>.3</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-2</u>		
Hypochlorite System	<input checked="" type="radio"/> Auto Standby Manual / <u>3552</u> Hrs Run Time / <u>58</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total <u>3600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> OFF Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	<input checked="" type="radio"/> Auto OFF	<u>856</u> Gpm <u>48</u> Hz <u>3334</u> Hrs <u>50</u> Psi
	# 103	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>16,212,000</u> Gal. Demand: <u>0942</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,163</u> #4 Run Time <u>10,903</u>		
Blowers Hours	Blower #1 Run Time <u>6777</u> Blower #2 Run Time <u>9,237</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,353</u> Hrs #3 Auto OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,043</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,046</u> Hrs #3 Auto OFF <u>4,048</u> Hrs		
Upstream Clarifier	Turbidity <u>1.85</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.49</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.86</u>		
Removal Efficiency %	<u>1.85</u> / <u>X</u> IN(ntu's) - <u>1.85</u> / <u>X</u> OUT(ntu's)		
	<u>.49</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.40</u> Ntu's PH <u>8.36</u> Units Temperature <u>22</u> C	
	# 2	Turbidity <u>.72</u> Ntu's PH <u>8.42</u> Units Temperature <u>22</u> C	
	# 3	Turbidity <u>1.21</u> Ntu's PH <u>8.33</u> Units Temperature <u>22</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL2 Residual <u>2.10</u> <u>2.13</u> Mg/L PH <u>7.89</u> Units Temp <u>22</u>	
	# 2	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.83</u> <u>1.69</u> Mg/L PH <u>7.86</u> Units Temp <u>23</u>	
	# 3	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.21</u> <u>1.03</u> Mg/L PH <u>1.21</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.11</u> Ntu's CL2 <u>1.26</u> Mg/L PH <u>8.18</u> Temp. <u>24</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>2.10</u> Mg/L PH <u>8.0</u> Temp. <u>23</u> C		
Central Main Canal	Turbidity <u>7.10</u> Ntu's _____ PH <u>8.27</u> Temp. <u>24</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Gustavo Pantoja</u> Date: <u>5-9-19</u> Day of The Week <u>Thursday</u>		
Plant Mode	Storage Tanks Water Level: # 1 <u>19.1</u> Ft. # 2 <u>18</u> Ft. # 3 <u>18.7</u> Ft.		
	Filter #1	AUTO MANUAL <input checked="" type="radio"/> OFF	Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF
	Filter #3	<input checked="" type="radio"/> Auto Manual OFF	
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>-</u> / <u>.2</u> Filter Head Loss Gauge Reading <u>43</u> / <u>-</u>		
Hypochlorite System	<input checked="" type="radio"/> Standby Manual / <u>3558.3</u> Hrs Run Time / <u>60</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.50</u> mg/l Cl2 Demand <u>1.50</u> mg/l Total _____ Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>7</u> % Speed <u>X</u> % Total _____ Mls/Min		
Distribution Pumps	# 101	<input checked="" type="radio"/> Auto OFF	<u>1140</u> Gpm <u>49</u> Hz <u>3332</u> Hrs <u>50</u> Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>17,176,000</u> Gal. Demand: <u>0.964</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>100</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
PHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,184</u> #4 Run Time <u>10,925</u>		
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,259</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873.66</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,361.95</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>2,873.69</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,049.42</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,054.65</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,052.12</u> Hrs		
Upstream Clarifier	Turbidity <u>-</u> Ntu's Turbidity <u>3.20</u> Ntu's		
Downstream Clarifier	Turbidity _____ Ntu's Turbidity <u>0.29</u> Ntu's PH <u>7.77</u>		
Removal Efficiency %	<u>-</u> / <u>3.2</u> IN(ntu's) - <u>-</u> / <u>0.29</u> OUT(ntu's) <u>X</u> / <u>3.2</u> IN(ntu's) X 100 = <u>90</u> % Removal Average <u>90</u> %		
Raw Water Ponds	# 1	Turbidity <u>1.5</u> Ntu's PH <u>8.24</u> Units Temperature <u>22.4</u> C	
	# 2	Turbidity <u>1.1</u> Ntu's PH <u>8.31</u> Units Temperature <u>22</u> C	
	# 3	Turbidity <u>0.8</u> Ntu's PH <u>8.36</u> Units Temperature <u>22</u> C	
Storage Tanks	# 1	Turbidity <u>0.10</u> Ntu's CL2 Residual <u>2.6</u> Mg/L PH <u>8.01</u> Units Temp <u>23</u>	
	# 2	Turbidity <u>0.15</u> Ntu's CL2 Residual <u>1.47</u> Mg/L PH <u>7.91</u> Units Temp <u>22</u>	
	# 3	Turbidity <u>0.16</u> Ntu's CL2 Residual <u>1.15</u> Mg/L PH <u>8.17</u> Units Temp <u>22</u>	
Tap Water	Turbidity <u>0.11</u> Ntu's CL2 <u>1.25</u> Mg/L PH <u>8.18</u> Temp. <u>24.3</u> C		
Combined Filter Eff	Turbidity <u>0.052</u> Ntu's CL2 <u>2.16</u> Mg/L PH <u>7.92</u> Temp. <u>23</u> C		
Central Main Canal	Turbidity <u>4.14</u> Ntu's _____ PH <u>8.28</u> Temp. <u>22.2</u> C		

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G. Pantoja</u> Date: <u>5-10-19</u> Day of The Week <u>Friday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.6</u> Ft. #2 _____ Ft. #3 <u>19.2</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF		
Filtration Rate	<u>900</u> Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X / 0</u> Filter Head Loss Gauge Reading <u>-2 / X</u>		
Hypochlorite System	<input checked="" type="radio"/> Standby Manual <u>3564.5</u> Hrs Run Time / <u>59</u> Tank Level% / <u>0</u> Cell Amps <u>83</u> *X		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total <u>3600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Off Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	<input checked="" type="radio"/> Auto OFF	<u>970</u> Gpm <u>49</u> Hz <u>3337.87</u> Hrs <u>50</u> Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>18,152,000</u> Gal. Demand: <u>0976</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,209</u> #4 Run Time <u>10,949</u>		
Blowers Hours	Blower #1 Run Time <u>6777</u> Blower #2 Run Time <u>9283</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2873.66</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2373.77</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>2873.69</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4057.80</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4063.05</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4058.53</u> Hrs		
Upstream Clarifier	Turbidity <u>2.86</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>0.28</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.71</u>		
Removal Efficiency %	<u>2.86</u> , <u>X</u> IN(ntu's) - <u>0.28</u> , <u>X</u> OUT(ntu's) <u>2.86</u> , <u>X</u> IN(ntu's) X 100 = _____, <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>2.0</u> Ntu's PH <u>8.06</u> Units Temperature <u>23</u> C	
	# 2	Turbidity <u>1.17</u> Ntu's PH <u>8.18</u> Units Temperature <u>23</u> C	
	# 3	Turbidity <u>0.92</u> Ntu's PH <u>8.25</u> Units Temperature <u>23</u> C	
Storage Tanks	# 1	Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.2</u> Mg/L PH <u>7.80</u> Units Temp <u>23</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.59</u> Mg/L PH <u>7.83</u> Units Temp <u>23</u>	
	# 3	Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.08</u> Mg/L PH <u>8.15</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.22</u> Mg/L PH <u>8.13</u> Temp. <u>25</u> c		
Combined Filter Eff	Turbidity <u>0.61</u> Ntu's CL2 <u>2.24</u> Mg/L PH <u>8.12</u> Temp. <u>24</u> c		
Central Main Canal	Turbidity <u>5.73</u> Ntu's _____ PH <u>8.24</u> Temp. <u>24</u> c		

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Guillermo Verdugo</u> Date: <u>5-11-19</u> Day of The Week <u>Saturday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.7</u> Ft. #2 <u> </u> Ft. #3 <u>19.3</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> Filter #2 AUTO MANUAL <input checked="" type="radio"/> Filter #3 <input checked="" type="radio"/> Auto Manual OFF		
Filtration Rate	<u>X</u> <u>1,900</u> Gal/Min <u>X</u> <u>1.28</u> Gal/Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.1</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-3</u>		
Hypochlorite System	<input checked="" type="radio"/> Standby Manual / <u> </u> Hrs Run Time / <u> </u> Tank Level% / <u> </u> Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u> </u> mg/l Cl2 Demand <u> </u> mg/l Total <u> </u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	<u> </u> Gpm <u> </u> Hz <u> </u> Hrs <u> </u> Psi
	# 102	Auto OFF	<u> </u> Gpm <u> </u> Hz <u> </u> Hrs <u> </u> Psi
	# 103	Auto OFF	<u> </u> Gpm <u> </u> Hz <u> </u> Hrs <u> </u> Psi
	# 104	<input checked="" type="radio"/> Auto OFF	<u>704</u> Gpm <u>47</u> Hz <u>3,343</u> Hrs <u>50</u> Psi
Distribution Flow Meter	Reading <u>19,036,000</u> Gal. Demand: <u>0.884</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
IM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,235</u> #4 Run Time <u>10,975</u>		
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,309</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,383</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,067</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,066</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,063</u> Hrs		
Upstream Clarifier	Turbidity <u>3.01</u> Ntu's Turbidity <u> </u> Ntu's		
Downstream Clarifier	Turbidity <u>.31</u> Ntu's Turbidity <u> </u> Ntu's PH <u>7.73</u>		
Removal Efficiency %	<u>3.01</u> , <u>X</u> IN(ntu's) - <u>.31</u> , <u>X</u> OUT(ntu's) <u>3.01</u> , <u>X</u> IN(ntu's) X 100 = <u> </u> , <u>X</u> % Removal Average <u> </u> %		
Raw Water Ponds	# 1	Turbidity <u>1.9</u> Ntu's PH <u>8.07</u> Units Temperature <u> </u> C	
	# 2	Turbidity <u>1.30</u> Ntu's PH <u>8.18</u> Units Temperature <u>24</u> C	
	# 3	Turbidity <u>.99</u> Ntu's PH <u>8.24</u> Units Temperature <u> </u> C	
Storage Tanks	# 1	Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.5</u> Mg/L PH <u>7.80</u> Units Temp <u>23</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.51</u> Mg/L PH <u>7.82</u> Units Temp <u>23</u>	
	# 3	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.10</u> Mg/L PH <u>8.16</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.13</u> Ntu's CL2 <u>1.18</u> Mg/L PH <u>8.19</u> Temp. <u>24</u> C		
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>2.5</u> Mg/L PH <u>7.9</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>4.21</u> Ntu's <u> </u> PH <u>8.21</u> Temp. <u>23</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-12-19</u> Day of The Week <u>SUM Day</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.6</u> Ft. #2 _____ Ft. #3 <u>19.1</u> Ft. Filter #1 AUTO MANUAL <input checked="" type="radio"/> Filter #2 AUTO MANUAL <input checked="" type="radio"/> Filter #3 <input checked="" type="radio"/> Auto Manual OFF		
Filtration Rate	<u>X</u> <u>1,900</u> Gal/Min <u>X</u> <u>1.28</u> Gal/Sq. Ft. (GPM/280 sq. ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.03</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-2</u>		
Hypochlorite System	<input checked="" type="radio"/> Standby Manual <u>13572</u> Hrs Run Time <u>153</u> Tank Level% <u>1</u> Cell Amps _____		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total <u>3,600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	<input checked="" type="radio"/> OFF	<u>743</u> Gpm <u>47</u> Hz <u>3359</u> Hrs <u>49</u> Psi
	# 103	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>19,887,000</u> Gal. Demand: <u>0.851</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,259</u> #4 Run Time <u>11,000</u>		
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,334</u> Mixer #1 <input checked="" type="radio"/> OFF Mixer #2 <input checked="" type="radio"/> OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> OFF <u>2,393</u> Hrs #3 Auto <input checked="" type="radio"/> <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> OFF <u>4,072</u> Hrs #2 <input checked="" type="radio"/> OFF <u>4,071</u> Hrs #3 <input checked="" type="radio"/> OFF <u>4,072</u> Hrs		
Upstream Clarifier	Turbidity <u>2.73</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.31</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.78</u>		
Removal Efficiency %	<u>2.73</u> <u>X</u> IN(ntu's) - <u>.31</u> <u>X</u> OUT(ntu's) <u>2.73</u> <u>X</u> IN(ntu's) X 100 = <u>1</u> <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>2.1</u> Ntu's PH <u>8.11</u> Units Temperature <u>23</u> C	
	# 2	Turbidity <u>1.11</u> Ntu's PH <u>8.21</u> Units Temperature <u>23</u> C	
	# 3	Turbidity <u>.98</u> Ntu's PH <u>8.28</u> Units Temperature <u>25</u> C	
Storage Tanks	# 1	Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.3</u> Mg/L PH <u>7.82</u> Units Temp <u>25</u>	
	# 2	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.49</u> Mg/L PH _____ Units Temp _____	
	# 3	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.04</u> Mg/L PH _____ Units Temp _____	
Tap Water	Turbidity <u>.12</u> Ntu's CL2 <u>1.11</u> Mg/L PH <u>8.17</u> Temp. <u>24</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>2.13</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>4.73</u> Ntu's _____ PH <u>8.24</u> Temp. <u>24</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-13-19</u> Day of The Week <u>MONDAY</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.5</u> Ft. #2 _____ Ft. #3 <u>19.1</u> Ft.		
	Filter #1 AUTO MANUAL OFF Filter #2 AUTO MANUAL OFF Filter #3 Auto Manual OFF		
Filtration Rate	<u>0</u> / <u>900</u> Gal/Min <u>X</u> / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq. ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>.8</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-3</u>		
Hypochlorite System	<u>Auto</u> Standby Manual <u>3577</u> Hrs Run Time / <u>51</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <u>Auto</u> Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total <u>3,600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <u>OFF</u> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101 <u>Auto</u> OFF <u>733</u> Gpm <u>48</u> Hz <u>3359</u> Hrs <u>51</u> Psi		
	# 102 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
	# 103 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
	# 104 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
Distribution Flow Meter	Reading <u>20,794,000</u> Gal. Demand: <u>.907</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>12.1</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
HM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,283</u> #4 Run Time <u>11,023</u>		
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,357</u> Mixer #1 <u>ON</u> OFF Mixer #2 <u>ON</u> OFF		
Finish Water Pumps	#1 <u>Auto</u> OFF <u>2,873</u> Hrs #2 <u>Auto</u> OFF <u>2,403</u> Hrs #3 Auto OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <u>Auto</u> OFF <u>4,078</u> Hrs #2 <u>Auto</u> OFF <u>4,079</u> Hrs #3 <u>Auto</u> OFF <u>4,076</u> Hrs		
Upstream Clarifier	Turbidity <u>4.22</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.21</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.70</u>		
Removal Efficiency %	<u>4.22</u> / <u>X</u> IN(ntu's) - <u>.21</u> / <u>X</u> OUT(ntu's)		
	<u>4.22</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1 Turbidity <u>1.71</u> Ntu's PH <u>8.10</u> Units Temperature <u>26</u> C		
	# 2 Turbidity <u>1.05</u> Ntu's PH <u>8.20</u> Units Temperature <u>26</u> C		
	# 3 Turbidity <u>.81</u> Ntu's PH <u>8.31</u> Units Temperature <u>26</u> C		
Storage Tanks	# 1 Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.95</u> Mg/L PH <u>7.78</u> Units Temp <u>26</u>		
	# 2 Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.46</u> <u>1.44</u> Mg/L PH <u>7.79</u> Units Temp <u>25</u>		
	# 3 Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.02</u> <u>1.0</u> Mg/L PH <u>8.170</u> Units Temp <u>25</u>		
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.08</u> Mg/L PH <u>8.16</u> Temp. <u>25</u> C		
Combined Filter Eff	Turbidity <u>.04</u> Ntu's CL2 <u>1.86</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>3.67</u> Ntu's _____ PH <u>8.16</u> Temp. <u>25</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-14-19</u> Day of The Week <u>TUESDAY</u>		
Plant Mode	Storage Tanks Water Level: # 1 <u>19.3</u> Ft. # 2 <u>19.4</u> Ft. # 3 <u>18.9</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 Auto Manual OFF		
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min <u>0</u> / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>0.8</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-2</u>		
Hypochlorite System	Auto Standby Manual / <u>3583</u> Hrs Run Time / <u>54</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.5</u> mg/l Cl2 Demand <u>1.5</u> mg/l Total <u>3600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>V</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	<input checked="" type="radio"/> Auto OFF	<u>1060</u> Gpm <u>49</u> Hz <u>3362</u> Hrs <u>50</u> Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>21,625,000</u> Gal. Demand: <u>831</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,304</u> #4 Run Time <u>11,045</u>		
Blowers Hours	Blower #1 Run Time <u>6,777</u> Blower #2 Run Time <u>9,379</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2411</u> Hrs #3 Auto OFF <u>2873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4080</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4083</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4085</u> Hrs		
Upstream Clarifier	Turbidity <u>4.4</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.21</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.69</u>		
Removal Efficiency %	<u>4.4</u> / <u>X</u> IN(ntu's) - <u>.21</u> / <u>X</u> OUT(ntu's) <u>4.4</u> / <u>X</u> IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.70</u> Ntu's PH <u>8.07</u> Units Temperature <u>26</u> C	
	# 2	Turbidity <u>1.10</u> Ntu's PH <u>8.19</u> Units Temperature <u>27</u> C	
	# 3	Turbidity <u>.84</u> Ntu's PH <u>8.26</u> Units Temperature _____ C	
Storage Tanks	# 1	Turbidity <u>.09</u> Ntu's CL2 Residual <u>1.95</u> Mg/L PH <u>7.77</u> Units Temp <u>26</u>	
	# 2	Turbidity <u>.10</u> Ntu's CL2 Residual <u>1.28</u> Mg/L PH _____ Units Temp _____	
	# 3	Turbidity <u>.11</u> Ntu's CL2 Residual <u>.94</u> Mg/L PH <u>8.14</u> Units Temp <u>25</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.04</u> Mg/L PH <u>8.13</u> Temp. <u>26</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>1.85</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>4.95</u> Ntu's _____ PH <u>8.21</u> Temp. <u>24</u> C		
Comments:	<u>OPEN H-1 1/4 inch</u>		
	<u>Increase cl2 1.7/1.7 4050 ml/min</u>		

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-15-19</u> Day of The Week <u>Wednesday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>18.7</u> Ft. #2 _____ Ft. #3 <u>18.7</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="checkbox"/> Filter #2 AUTO MANUAL <input checked="" type="checkbox"/> Filter #3 <input checked="" type="checkbox"/> Auto Manual OFF		
Filtration Rate	<u>0</u> / <u>900</u> Gal/Min <u>0</u> / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq. ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>.0</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-4</u>		
Hypochlorite System	<input checked="" type="checkbox"/> Auto Standby Manual / <u>3587</u> Hrs Run Time / <u>50</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="checkbox"/> Auto Hand Set Point <u>1.7</u> mg/l Cl ₂ Demand <u>1.7</u> mg/l Total <u>4050</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="checkbox"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	<input checked="" type="checkbox"/> Auto OFF	<u>1182</u> Gpm <u>50</u> Hz <u>3366</u> Hrs <u>51</u> Psi
Distribution Flow Meter	Reading <u>22,794,000</u> Gal. Demand: <u>1,169</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
HM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,329</u> #4 Run Time <u>11,069</u>		
Blowers Hours	Blower #1 Run Time <u>6,795</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="checkbox"/> OFF Mixer #2 <input checked="" type="checkbox"/> OFF		
Finish Water Pumps	#1 <input checked="" type="checkbox"/> Auto OFF <u>2873</u> Hrs #2 <input checked="" type="checkbox"/> Auto OFF <u>2421</u> Hrs #3 <input checked="" type="checkbox"/> Auto OFF <u>2873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="checkbox"/> Auto OFF <u>4,092</u> Hrs #2 <input checked="" type="checkbox"/> Auto OFF <u>4088</u> Hrs #3 <input checked="" type="checkbox"/> Auto OFF <u>4089</u> Hrs		
Upstream Clarifier	Turbidity <u>3.39</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.36</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.67</u>		
Removal Efficiency %	<u>3.39</u> / <u>X</u> IN(ntu's) - <u>.36</u> / <u>X</u> OUT(ntu's)		
	<u>3.39</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>2.42</u> Ntu's PH <u>8.07</u> Units Temperature <u>26</u> C	
	# 2	Turbidity <u>1.49</u> Ntu's PH <u>8.13</u> ^{8.16} Units Temperature <u>26</u> ²⁷ C	
	# 3	Turbidity <u>.98</u> Ntu's PH <u>8.23</u> Units Temperature <u>26</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL ₂ Residual ^{1.87} <u>2.17</u> Mg/L PH <u>7.74</u> Units Temp <u>27</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL ₂ Residual ^{1.41} <u>1.39</u> Mg/L PH <u>7.77</u> Units Temp <u>26</u>	
	# 3	Turbidity <u>.10</u> Ntu's CL ₂ Residual ^{.93} <u>.94</u> Mg/L PH <u>8.12</u> Units Temp <u>25</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL ₂ <u>1.01</u> Mg/L PH <u>8.11</u> Temp. <u>26</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL ₂ <u>2.17</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>6.4</u> Ntu's _____ PH <u>8.16</u> Temp. <u>25</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-16-19</u> Day of The Week <u>Thursday</u>	
Plant Mode	Storage Tanks Water Level: #1 <u>19.2</u> Ft. #2 _____ Ft. #3 <u>18.7</u> Ft.	
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> Filter #2 AUTO MANUAL <input checked="" type="radio"/> Filter #3 <input checked="" type="radio"/> Auto Manual OFF	
Filtration Rate	<u>0</u> <u>1,900</u> Gal/ Min <u>0</u> <u>1,2.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)	
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.9</u> Filter Head Loss Gauge Reading <u>X</u> <u>1.2</u>	
Hypochlorite System	Auto Standby Manual <u>3592</u> Hrs Run Time <u>44</u> Tank Level% <u>66</u> Cell Amps <u>100</u>	
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.7</u> mg/l Cl2 Demand <u>1.7</u> mg/l Total <u>3600</u> Mls/Min	
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min	
Distribution Pumps	# 101 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi # 102 <input checked="" type="radio"/> OFF <u>936</u> Gpm <u>49</u> Hz <u>3381</u> Hrs <u>52</u> Psi # 103 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi # 104 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi	
Distribution Flow Meter	Reading <u>23,752,000</u> Gal. Demand: <u>0,958</u> Mgd	
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l	
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l	
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,352</u> #4 Run Time <u>11,093</u>	
Blowers Hours	Blower #1 Run Time <u>6,819</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="radio"/> OFF Mixer #2 <input checked="" type="radio"/> OFF	
Finish Water Pumps	#1 <input checked="" type="radio"/> OFF <u>2873</u> Hrs #2 <input checked="" type="radio"/> OFF <u>2432</u> Hrs #3 Auto <input checked="" type="radio"/> <u>2873</u> Hrs	
Raw Water Pumps	#1 <input checked="" type="radio"/> OFF <u>4098</u> Hrs #2 <input checked="" type="radio"/> OFF <u>4097</u> Hrs #3 <input checked="" type="radio"/> OFF <u>4096</u> Hrs	
Upstream Clarifier	Turbidity <u>3.67</u> Ntu's Turbidity <u>X</u> Ntu's	
Downstream Clarifier	Turbidity <u>.25</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.68</u>	
Removal Efficiency %	<u>3.67</u> , <u>X</u> IN(ntu's) - <u>.25</u> , <u>X</u> OUT(ntu's) $\frac{3.67}{.25} \times 100 = 1,468$ % Removal Average _____ %	
Raw Water Ponds	# 1 Turbidity <u>2.40</u> Ntu's PH <u>8.13</u> Units Temperature <u>23</u> C # 2 Turbidity <u>1.53</u> Ntu's PH <u>8.17</u> Units Temperature <u>24</u> C # 3 Turbidity <u>1.13</u> Ntu's PH <u>8.27</u> Units Temperature <u>24</u> C	
Storage Tanks	# 1 Turbidity <u>.10</u> Ntu's CL2 Residual <u>2.6</u> Mg/L PH <u>7.75</u> Units Temp <u>25</u> # 2 Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.53</u> Mg/L PH <u>7.75</u> Units Temp <u>26</u> # 3 Turbidity <u>.11</u> Ntu's CL2 Residual <u>.96</u> Mg/L PH <u>8.12</u> Units Temp <u>25</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.02</u> Mg/L PH <u>8.11</u> Temp. <u>26</u> C	
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>2.2</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> C	
Central Main Canal	Turbidity <u>8.80</u> Ntu's _____ PH <u>8.19</u> Temp. <u>25</u> C	

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-17-19</u> Day of The Week <u>Friday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>18.7</u> Ft. #2 _____ Ft. #3 <u>19.2</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> Filter #2 AUTO MANUAL <input checked="" type="radio"/> Filter #3 <input checked="" type="radio"/> Manual OFF		
Filtration Rate	<u>0,900</u> Gal/Min <u>0,2.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading _____ / _____ Filter Head Loss Gauge Reading <u>X</u> <u>1-4</u>		
Hypochlorite System	<input checked="" type="radio"/> Auto Standby Manual / <u>3602</u> Hrs Run Time / <u>56</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.7</u> mg/l Cl2 Demand <u>1.7</u> mg/l Total <u>3600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke _____ % Speed _____ % Total _____ Mls/Min		
Distribution Pumps	# 101 <input checked="" type="radio"/> Auto OFF <u>1134</u> Gpm <u>49</u> Hz <u>3381</u> Hrs <u>50</u> Psi		
	# 102 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
	# 103 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
	# 104 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
Distribution Flow Meter	Reading <u>24,552,000</u> Gal. Demand: <u>.800</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
PHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,350</u> #4 Run Time <u>11,120</u>		
Blowers Hours	Blower #1 Run Time <u>6,846</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,442</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,105</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,102</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,104</u> Hrs		
Upstream Clarifier	Turbidity <u>364</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.30</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.75</u>		
Removal Efficiency %	<u>3.64</u> / <u>X</u> IN(ntu's) <u>.30</u> / <u>X</u> OUT(ntu's) <u>3.64</u> / <u>X</u> IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %		
Raw Water Ponds	# 1 Turbidity <u>3.37</u> Ntu's PH <u>8.17</u> Units Temperature <u>21</u> C		
	# 2 Turbidity <u>1.34</u> Ntu's PH <u>8.29</u> Units Temperature <u>21</u> C		
	# 3 Turbidity <u>.96</u> Ntu's PH <u>8.35</u> Units Temperature <u>22</u> C		
Storage Tanks	# 1 Turbidity <u>.11</u> Ntu's CL2 Residual <u>2.5</u> Mg/L PH <u>7.8</u> Units Temp <u>23</u>		
	# 2 Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.96</u> Mg/L PH <u>7.79</u> Units Temp <u>24</u>		
	# 3 Turbidity <u>.10</u> Ntu's CL2 Residual <u>1.04</u> Mg/L PH <u>8.17</u> Units Temp <u>25</u>		
Tap Water	Turbidity <u>.09</u> Ntu's CL2 <u>1.07</u> Mg/L PH <u>8.08</u> Temp. <u>28</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 _____ Mg/L PH <u>7.9</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>8.16</u> Ntu's _____ PH <u>8.26</u> Temp. <u>23</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Manuel Carraz</u> Date: <u>5/18/19</u> Day of The Week <u>Saturday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.6</u> Ft. #2 _____ Ft. #3 <u>19.6</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF		
Filtration Rate	<u>901</u> / _____ Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>0</u> / _____ Filter Head Loss Gauge Reading <u>-2</u> / _____		
Hypochlorite System	Auto Standby Manual / <u>3609.5</u> Hrs Run Time / <u>56</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.7</u> mg/l Cl2 Demand <u>1.7</u> mg/l Total <u>3600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand Off Stroke _____ % Speed _____ % Total _____ Mls/Min		
Distribution Pumps	# 101 <input checked="" type="radio"/> Auto OFF _____ Gpm _____ Hz <u>3398.39</u> Hrs _____ Psi		
	# 102 <input checked="" type="radio"/> Auto OFF _____ Gpm _____ Hz <u>3397.75</u> Hrs _____ Psi		
	# 103 <input checked="" type="radio"/> Auto OFF <u>676</u> Gpm <u>47</u> Hz <u>3386.51</u> Hrs <u>49</u> Psi		
	# 104 <input checked="" type="radio"/> Auto OFF _____ Gpm _____ Hz <u>3382.84</u> Hrs _____ Psi		
Distribution Flow Meter	Reading <u>25389000</u> Gal. Demand: <u>837</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11549</u> #2 Run Time <u>11088</u> #3 Run Time <u>11401</u> #4 Run Time <u>11141</u>		
Blowers Hours	Blower #1 Run Time <u>6867</u> Blower #2 Run Time <u>9388</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2873.66</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2481.25</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2873.69</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4113.43</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4107.36</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4109.20</u> Hrs		
Upstream Clarifier	Turbidity <u>5.1</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.51</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.80</u>		
Removal Efficiency %	_____ / _____ IN(ntu's) - _____ / _____ OUT(ntu's) _____ / _____ IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %		
Raw Water Ponds	# 1 Turbidity <u>1.20</u> Ntu's PH <u>8.26</u> Units Temperature <u>21.8</u> C		
	# 2 Turbidity <u>1.14</u> Ntu's PH <u>8.30</u> Units Temperature <u>21.4</u> C		
	# 3 Turbidity <u>.90</u> Ntu's PH <u>8.33</u> Units Temperature <u>21.4</u> C		
Storage Tanks	# 1 Turbidity <u>.15</u> Ntu's CL2 Residual <u>2.9</u> Mg/L PH <u>7.88</u> Units Temp <u>22.5</u>		
	# 2 Turbidity <u>.16</u> Ntu's CL2 Residual <u>2.23</u> Mg/L PH <u>7.82</u> Units Temp <u>23.1</u>		
	# 3 Turbidity <u>.15</u> Ntu's CL2 Residual <u>1.2</u> Mg/L PH <u>8.17</u> Units Temp <u>24.4</u>		
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.44</u> Mg/L PH <u>8.09</u> Temp. <u>25.5</u> C		
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>2.27</u> Mg/L PH <u>7.9</u> Temp. <u>23.9</u> C		
Central Main Canal	Turbidity <u>9.81</u> Ntu's _____ PH _____ Temp. _____ C		

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Manuel Cariez</u> Date: <u>5/19/19</u> Day of The Week <u>Sunday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.3</u> Ft. #2 _____ Ft. #3 <u>19.2</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF		
Filtration Rate	<u>893</u> / _____ Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>.8</u> / _____ Filter Head Loss Gauge Reading <u>-4</u> / _____		
Hypochlorite System	Auto Standby Manual / <u>3614.0</u> Hrs Run Time / <u>55</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point _____ mg/l Cl2 Demand _____ mg/l Total _____ Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand Off Stroke _____ % Speed _____ % Total _____ Mls/Min		
Distribution Pumps	# 101	<input checked="" type="radio"/> Auto OFF	_____ Gpm _____ Hz <u>3398.39</u> Hrs _____ Psi
	# 102	<input checked="" type="radio"/> Auto OFF	_____ Gpm _____ Hz <u>3392.75</u> Hrs _____ Psi
	# 103	<input checked="" type="radio"/> Auto OFF	_____ Gpm _____ Hz <u>3402.92</u> Hrs _____ Psi
	# 104	<input checked="" type="radio"/> Auto OFF	<u>506</u> Gpm <u>46</u> Hz <u>3390.41</u> Hrs <u>49</u> Psi
Distribution Flow Meter	Reading <u>26188.000</u> Gal. Demand: <u>799</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
M System Aerators/	#1 Run Time <u>11549</u> #2 Run Time <u>11088</u> #3 Run Time <u>11425</u> #4 Run Time <u>11165</u>		
Blowers Hours	Blower #1 Run Time <u>6891</u> Blower #2 Run Time <u>9385</u> Mixer #1 <input checked="" type="radio"/> ON <input checked="" type="radio"/> OFF Mixer #2 <input checked="" type="radio"/> ON <input checked="" type="radio"/> OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2873.66</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2452.37</u> Hrs #3 Auto OFF <u>2873.69</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4113.43</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4114.85</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4116.36</u> Hrs		
Upstream Clarifier	Turbidity <u>3.41</u> Ntu's Turbidity _____ Ntu's		
Downstream Clarifier	Turbidity <u>.30</u> Ntu's Turbidity _____ Ntu's PH <u>7.82</u>		
Removal Efficiency %	_____ / _____ IN(ntu's) - _____ / _____ OUT(ntu's) _____ / _____ IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.55</u> Ntu's PH <u>8.17</u> Units Temperature _____ C	
	# 2	Turbidity <u>.99</u> Ntu's PH <u>8.31</u> Units Temperature <u>21.1</u> C	
	# 3	Turbidity <u>.86</u> Ntu's PH <u>8.34</u> Units Temperature <u>21</u> C	
Storage Tanks	# 1	Turbidity <u>.16</u> Ntu's CL2 Residual <u>2.7</u> Mg/L PH <u>7.81</u> Units Temp <u>22.6</u>	
	# 2	Turbidity <u>.15</u> Ntu's CL2 Residual <u>1.95</u> Mg/L PH <u>7.82</u> Units Temp <u>22.7</u>	
	# 3	Turbidity <u>.14</u> Ntu's CL2 Residual <u>1.25</u> Mg/L PH <u>8.19</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.11</u> Ntu's CL2 <u>1.49</u> Mg/L PH <u>8.16</u> Temp. <u>25.1</u> C		
Combined Filter Eff	Turbidity <u>.07</u> Ntu's CL2 <u>2.3</u> Mg/L PH <u>7.9</u> Temp. <u>23.9</u> C		
Central Main Canal	Turbidity <u>4.73</u> Ntu's _____ PH <u>8.24</u> Temp. <u>22.8</u> C		

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-20-19</u> Day of The Week <u>Monday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.1</u> Ft. #2 _____ Ft. #3 <u>19.6</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 AUTO MANUAL OFF		
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min _____ / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq. ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>1.8</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-2</u>		
Hypochlorite System	<input checked="" type="radio"/> Auto Standby Manual / <u>3619</u> Hrs Run Time / <u>55</u> Tank Level% / <u>0</u> Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.7</u> mg/l Cl2 Demand <u>1.7</u> mg/l Total <u>3,600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> OFF Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	<input checked="" type="radio"/> Auto OFF	<u>998</u> Gpm <u>47</u> Hz <u>3404</u> Hrs <u>48</u> Psi
	# 103	Auto <input checked="" type="radio"/> OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>26,935,000</u> Gal. Demand: <u>0.747</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,448</u> #4 Run Time <u>11,188</u>		
Blowers Hours	Blower #1 Run Time <u>6,914</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,468</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,121</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,122</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,116</u> Hrs		
Upstream Clarifier	Turbidity <u>2.84</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.54</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>8.01</u>		
Removal Efficiency %	<u>2.84</u> / <u>X</u> IN(ntu's) - <u>.54</u> / <u>X</u> OUT(ntu's)		
	<u>2.84</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>2.65</u> Ntu's PH <u>8.20</u> Units Temperature <u>21</u> C	
	# 2	Turbidity <u>1.40</u> Ntu's PH <u>8.30</u> Units Temperature <u>20</u> C	
	# 3	Turbidity <u>1.06</u> Ntu's PH <u>8.36</u> Units Temperature <u>20</u> C	
Storage Tanks	# 1	Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.1</u> Mg/L PH <u>7.88</u> Units Temp <u>20</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL2 Residual <u>2.02</u> Mg/L PH <u>7.86</u> Units Temp <u>23</u>	
	# 3	Turbidity <u>.10</u> Ntu's CL2 Residual <u>1.23</u> Mg/L PH <u>8.21</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.33</u> Mg/L PH <u>8.21</u> Temp. <u>24</u> C		
Combined Filter Eff	Turbidity <u>.07</u> Ntu's CL2 <u>2.1</u> Mg/L PH <u>8.0</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>8.51</u> Ntu's _____ PH <u>8.26</u> Temp. <u>22</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G. Verdugo</u> Date: <u>5-21-19</u> Day of The Week <u>TUESDAY</u>		
Plant Mode	Storage Tanks Water Level: # 1 <u>18.4</u> Ft. # 2 _____ Ft. # 3 <u>18.8</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 Auto Manual OFF		
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min <u>0</u> / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading _____ / _____ Filter Head Loss Gauge Reading _____ / _____		
Hypochlorite System	<input checked="" type="radio"/> Standby Manual / <u>3626</u> Hrs Run Time / <u>59</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.7</u> mg/l Cl2 Demand <u>1.7</u> mg/l Total <u>3,600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	<u>932</u> Gpm <u>48</u> Hz <u>3405</u> Hrs <u>50</u> Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>27,798,000</u> Gal. Demand: <u>.863</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
IM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,475</u> #4 Run Time <u>11,216</u>		
Blowers Hours	Blower #1 Run Time <u>6,942</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,478</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 Auto OFF <u>6</u> Hrs #2 Auto OFF _____ Hrs #3 Auto OFF _____ Hrs		
Upstream Clarifier	Turbidity <u>6.64</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>0.29</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.76</u>		
Removal Efficiency %	<u>6.64</u> / <u>X</u> IN(ntu's) - <u>0.29</u> / <u>X</u> OUT(ntu's) <u>6.64</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>0.94</u> Ntu's PH <u>8.40</u> Units Temperature <u>19</u> C	
	# 2	Turbidity <u>1.27</u> Ntu's PH <u>8.35</u> Units Temperature <u>19</u> C	
	# 3	Turbidity <u>0.86</u> Ntu's PH <u>8.27</u> Units Temperature <u>19</u> C	
Storage Tanks	# 1	Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.6</u> Mg/L PH <u>7.90</u> Units Temp <u>21</u>	
	# 2	Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.03</u> <u>1.97</u> Mg/L PH <u>7.85</u> Units Temp <u>21</u>	
	# 3	Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.36</u> <u>1.33</u> Mg/L PH <u>8.22</u> Units Temp <u>21</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.40</u> Mg/L PH <u>8.20</u> Temp. <u>23</u> C		
Combined Filter Eff	Turbidity <u>.07</u> Ntu's CL2 <u>2.34</u> Mg/L PH <u>8.18</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>14.7</u> Ntu's _____ PH <u>8.29</u> Temp. <u>21</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-22-19</u> Day of The Week <u>WEDNESDAY</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.9</u> Ft. #2 _____ Ft. #3 <u>19.5</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 Auto Manual OFF		
Filtration Rate	<u>0</u> / <u>900</u> Gal/ Min <u>0</u> / <u>2.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> / <u>1.1</u> Filter Head Loss Gauge Reading <u>X</u> / <u>-2</u>		
Hypochlorite System	<input checked="" type="radio"/> Standby Manual / <u>3632</u> Hrs Run Time / <u>57</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.7</u> mg/l Cl2 Demand <u>1.7</u> mg/l Total <u>3,600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Off Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	Auto OFF	<u>819</u> Gpm <u>47</u> Hz <u>3410</u> Hrs <u>50</u> Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>28,606,000</u> Gal. Demand: <u>.808</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,501</u> #4 Run Time <u>11,242</u>		
Blowers Hours	Blower #1 Run Time <u>6,968</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,488</u> Hrs #3 Auto OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,131</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,134</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,133</u> Hrs		
Upstream Clarifier	Turbidity <u>4.12</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.48</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.84</u>		
Removal Efficiency %	<u>4.12</u> / <u>X</u> IN(ntu's) -- <u>.48</u> / <u>X</u> OUT(ntu's) <u>4.12</u> / <u>X</u> IN(ntu's) X 100 = _____ / <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>3.45</u> Ntu's PH <u>8.26</u> Units Temperature <u>19</u> C	
	# 2	Turbidity <u>2.00</u> Ntu's PH <u>8.34</u> Units Temperature <u>19</u> C	
	# 3	Turbidity <u>.80</u> Ntu's PH <u>8.32</u> Units Temperature <u>19</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL2 Residual <u>2.44</u> <u>2.9</u> Mg/L PH <u>7.91</u> Units Temp <u>19</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL2 Residual <u>2.27</u> <u>2.09</u> Mg/L PH <u>7.90</u> Units Temp <u>20</u>	
	# 3	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.44</u> <u>1.42</u> Mg/L PH <u>8.21</u> Units Temp <u>21</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.50</u> Mg/L PH <u>8.18</u> Temp. <u>23</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>2.44</u> Mg/L PH <u>7.9</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>14.10</u> Ntu's _____ PH <u>8.26</u> Temp. <u>24</u> C		

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G. Verdugo</u> Date: <u>5-23-19</u> Day of The Week <u>Thursday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.6</u> Ft. #2 _____ Ft. #3 <u>18.9</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> Filter #2 AUTO MANUAL <input checked="" type="radio"/> Filter #3 <input checked="" type="radio"/> AUTO Manual OFF		
Filtration Rate	<u>X</u> <u>1,900</u> Gal/ Min <u>X</u> <u>128</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.1</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-4</u>		
Hypochlorite System	<input checked="" type="radio"/> Auto Standby Manual <u>13639</u> Hrs Run Time <u>1</u> <u>60</u> Tank Level% <u>1</u> Cell Amps _____		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.7</u> mg/l Cl2 Demand <u>1.7</u> mg/l Total <u>3,600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	<input checked="" type="radio"/> Auto OFF	<u>1,044</u> Gpm <u>49</u> Hz <u>3,414</u> Hrs <u>51</u> Psi
Distribution Flow Meter	Reading <u>29,525,000</u> Gal. Demand: <u>919</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>27.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
PHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,520</u> #4 Run Time <u>11,261</u>		
Blowers Hours	Blower #1 Run Time <u>6,987</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,496</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,135</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,142</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,135</u> Hrs		
Upstream Clarifier	Turbidity <u>3.28</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.37</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.74</u>		
Removal Efficiency %	<u>3.28</u> , <u>X</u> IN(ntu's) - <u>.37</u> , <u>X</u> OUT(ntu's)		
	<u>3.28</u> , <u>X</u> IN(ntu's) X 100 = <u>1</u> , <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>2.83</u> Ntu's PH <u>8.15</u> Units Temperature <u>20</u> C	
	# 2	Turbidity <u>1.08</u> Ntu's PH <u>8.31</u> Units Temperature <u>20</u> C	
	# 3	Turbidity <u>.88</u> Ntu's PH <u>8.35</u> Units Temperature <u>20</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL2 Residual <u>3.3</u> Mg/L PH <u>7.91</u> Units Temp <u>19</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL2 Residual <u>2.21</u> <u>2.17</u> Mg/L PH <u>7.88</u> Units Temp <u>20</u>	
	# 3	Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.51</u> <u>1.49</u> Mg/L PH <u>8.17</u> Units Temp <u>22</u>	
Tap Water	Turbidity <u>.11</u> Ntu's CL2 <u>1.58</u> Mg/L PH <u>8.18</u> Temp. <u>21</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>2.71</u> Mg/L PH <u>7.9</u> Temp. <u>23</u> C		
Central Main Canal	Turbidity <u>10.2</u> Ntu's _____ PH <u>8.26</u> Temp. <u>22</u> C		
Comments:			
480 392 8564			
CRIS			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-24-19</u> Day of The Week <u>Friday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>18.7</u> Ft. #2 _____ Ft. #3 <u>18.8</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> Filter #2 AUTO MANUAL <input checked="" type="radio"/> Filter #3 <input checked="" type="radio"/> Manual OFF		
Filtration Rate	<u>0</u> <u>1,900</u> Gal/ Min <u>0</u> <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>1</u> Filter Head Loss Gauge Reading <u>1</u>		
Hypochlorite System	Auto Standby Manual <u>13645</u> Hrs Run Time <u>159</u> Tank Level% <u>1</u> Cell Amps _____		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.6</u> mg/l Cl2 Demand <u>1.6</u> mg/l Total _____ Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	<input checked="" type="radio"/> OFF	<u>1153</u> Gpm <u>49</u> Hz <u>3428</u> Hrs <u>49</u> Psi
	# 103	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>30,436,000</u> Gal. Demand: <u>0911</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,546</u> #4 Run Time <u>11,287</u>		
Blowers Hours	Blower #1 Run Time <u>7,012</u> Blower #2 Run Time <u>4,385</u> Mixer #1 <input checked="" type="radio"/> OFF Mixer #2 <input checked="" type="radio"/> OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> OFF <u>2,508</u> Hrs #3 Auto <input checked="" type="radio"/> <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> OFF <u>4,144</u> Hrs #2 <input checked="" type="radio"/> OFF <u>4,142</u> Hrs #3 <input checked="" type="radio"/> OFF <u>4,148</u> Hrs		
Upstream Clarifier	Turbidity <u>2.74</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.30</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.76</u>		
Removal Efficiency %	<u>2.74</u> , <u>X</u> IN(ntu's) <u>.30</u> , <u>X</u> OUT(ntu's)		
	<u>2.74</u> , <u>X</u> IN(ntu's) X 100 = <u>1</u> , <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.66</u> Ntu's PH <u>8.13</u> Units Temperature <u>21</u> C	
	# 2	Turbidity <u>1.17</u> Ntu's PH <u>8.28</u> Units Temperature <u>21</u> C	
	# 3	Turbidity <u>.83</u> Ntu's PH <u>8.33</u> Units Temperature <u>20</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL2 Residual <u>2.8</u> Mg/L PH <u>7.86</u> Units Temp <u>20</u>	
	# 2	Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.92</u> <u>1.81</u> Mg/L PH <u>7.87</u> Units Temp <u>21</u>	
	# 3	Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.57</u> <u>1.51</u> Mg/L PH <u>8.15</u> Units Temp <u>21</u>	
Tap Water	Turbidity <u>.11</u> Ntu's CL2 <u>1.66</u> Mg/L PH <u>8.10</u> Temp. <u>23</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>2.42</u> Mg/L PH <u>7.95</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>6.0</u> Ntu's _____ PH <u>8.26</u> Temp. <u>22</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Manuel Carez</u> Date: <u>5/25/19</u> Day of The Week <u>Saturday</u>	
Plant Mode	Storage Tanks Water Level: #1 <u>19.7</u> Ft. #2 _____ Ft. #3 <u>19.6</u> Ft.	
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF	
Filtration Rate	<u>899</u> / _____ Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)	
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>0</u> / _____ Filter Head Loss Gauge Reading <u>-2</u> / _____	
Hypochlorite System	Auto Standby Manual / <u>3651.4</u> Hrs Run Time / <u>59</u> Tank Level% / _____ Cell Amps	
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.6</u> mg/l Cl2 Demand <u>1.6</u> mg/l Total <u>3500</u> Mls/Min	
Hypochlorite Feed Rate	Distribution Pump Station Hand Off Stroke _____ % Speed _____ % Total _____ Mls/Min	
Distribution Pumps	# 101 <input checked="" type="radio"/> Auto OFF <u>586</u> Gpm <u>47</u> Hz <u>3429.70</u> Hrs <u>51</u> Psi	
	# 102 <input checked="" type="radio"/> Auto OFF _____ Gpm _____ Hz <u>3445.56</u> Hrs _____ Psi	
	# 103 <input checked="" type="radio"/> Auto OFF _____ Gpm _____ Hz <u>3426.82</u> Hrs _____ Psi	
	# 104 <input checked="" type="radio"/> Auto OFF _____ Gpm _____ Hz <u>3430.65</u> Hrs _____ Psi	
Distribution Flow Meter	Reading <u>31328000</u> Gal. Demand: <u>.892</u> Mgd	
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l	
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l	
TTHM System Aerators/	#1 Run Time <u>11549</u> #2 Run Time <u>11088</u> #3 Run Time <u>11568</u> #4 Run Time <u>11308</u>	
Blowers Hours	Blower #1 Run Time <u>7034</u> Blower #2 Run Time <u>9385</u> Mixer #1 ON <input checked="" type="radio"/> OFF Mixer #2 <input checked="" type="radio"/> ON OFF	
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2873.66</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2517.66</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2873.69</u> Hrs	
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4152.51</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4153.25</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4148.75</u> Hrs	
Upstream Clarifier	Turbidity <u>4.71</u> Ntu's Turbidity _____ Ntu's	
Downstream Clarifier	Turbidity <u>.56</u> Ntu's Turbidity _____ Ntu's PH <u>7.78</u>	
Removal Efficiency %	/ _____ IN(ntu's) - _____ / _____ OUT(ntu's) / _____ IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %	
Raw Water Ponds	# 1 Turbidity <u>1.91</u> Ntu's PH <u>8.18</u> Units Temperature <u>22.4</u> C	
	# 2 Turbidity <u>1.02</u> Ntu's PH <u>8.17</u> Units Temperature <u>22.4</u> C	
	# 3 Turbidity <u>.98</u> Ntu's PH <u>8.27</u> Units Temperature <u>22.5</u> C	
Storage Tanks	# 1 Turbidity <u>.11</u> Ntu's CL2 Residual <u>3.3</u> Mg/L PH <u>7.82</u> Units Temp <u>22.4</u>	
	# 2 Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.6</u> Mg/L PH <u>7.85</u> Units Temp <u>22.7</u>	
	# 3 Turbidity <u>.15</u> Ntu's CL2 Residual <u>1.5</u> Mg/L PH <u>8.16</u> Units Temp <u>21.6</u>	
Tap Water	Turbidity <u>.12</u> Ntu's CL2 <u>1.58</u> Mg/L PH <u>8.13</u> Temp. <u>21.8</u> C	
Combined Filter Eff	Turbidity <u>.07</u> Ntu's CL2 <u>2.59</u> Mg/L PH <u>7.9</u> Temp. <u>22.5</u> C	
Central Main Canal	Turbidity <u>3.85</u> Ntu's _____ PH <u>8.27</u> Temp. <u>21.6</u> C	
Comments:		

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Manuel Carier</u> Date: <u>5/26/19</u> Day of The Week <u>Sunday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.3</u> Ft. #2 _____ Ft. #3 <u>19.0</u> Ft. Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> Auto Manual OFF		
Filtration Rate	<u>905</u> / _____ Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>1</u> / _____ Filter Head Loss Gauge Reading <u>-1</u> / _____		
Hypochlorite System	Auto Standby Manual / <u>3652.9</u> Hrs Run Time / <u>52</u> Tank Level% / <u>66</u> Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.6</u> mg/l Cl2 Demand <u>1.6</u> mg/l Total <u>3500</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand Off Stroke _____ % Speed _____ % Total _____ Mls/Min		
Distribution Pumps	# 101 <input checked="" type="radio"/> OFF _____ Gpm _____ Hz <u>3446.21</u> Hrs _____ Psi		
	# 102 <input checked="" type="radio"/> OFF _____ Gpm _____ Hz <u>3445.56</u> Hrs _____ Psi		
	# 103 <input checked="" type="radio"/> OFF <u>519</u> Gpm <u>46</u> Hz <u>3434.23</u> Hrs <u>48</u> Psi		
	# 104 <input checked="" type="radio"/> OFF _____ Gpm _____ Hz <u>3430.65</u> Hrs _____ Psi		
Distribution Flow Meter	Reading <u>32146000</u> Gal. Demand: <u>818</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
THM System Aerators/	#1 Run Time <u>11549</u> #2 Run Time <u>11088</u> #3 Run Time <u>11592</u> #4 Run Time <u>11332</u>		
Blowers Hours	Blower #1 Run Time <u>7088</u> Blower #2 Run Time <u>9385</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 ON <input checked="" type="radio"/> OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> OFF <u>2873.66</u> Hrs #2 <input checked="" type="radio"/> OFF <u>2525.94</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2873.69</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> OFF <u>4156.71</u> Hrs #2 <input checked="" type="radio"/> OFF <u>4156.43</u> Hrs #3 <input checked="" type="radio"/> OFF <u>4157.15</u> Hrs		
Upstream Clarifier	Turbidity <u>5.22</u> Ntu's Turbidity _____ Ntu's		
Downstream Clarifier	Turbidity <u>.31</u> Ntu's Turbidity _____ Ntu's PH <u>7.77</u>		
Removal Efficiency %	/ _____ IN(ntu's) - / _____ OUT(ntu's) / _____ IN(ntu's) X 100 = / _____ % Removal Average _____ %		
Raw Water Ponds	# 1 Turbidity <u>1.03</u> Ntu's PH <u>8.13</u> Units Temperature <u>21.8</u> C		
	# 2 Turbidity <u>.86</u> Ntu's PH <u>8.18</u> Units Temperature <u>21.8</u> C		
	# 3 Turbidity <u>.80</u> Ntu's PH <u>8.29</u> Units Temperature <u>21.9</u> C		
Storage Tanks	# 1 Turbidity <u>.15</u> Ntu's CL2 Residual <u>2.7</u> Mg/L PH <u>7.91</u> Units Temp <u>22.4</u>		
	# 2 Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.61</u> Mg/L PH <u>7.85</u> Units Temp <u>22.6</u>		
	# 3 Turbidity <u>.14</u> Ntu's CL2 Residual <u>1.35</u> Mg/L PH <u>8.18</u> Units Temp <u>22.1</u>		
Tap Water	Turbidity <u>.12</u> Ntu's CL2 <u>1.56</u> Mg/L PH <u>8.14</u> Temp. <u>22.2</u> C		
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>1.88</u> Mg/L PH <u>7.9</u> Temp. <u>23.8</u> C		
Central Main Canal	Turbidity <u>5.48</u> Ntu's _____ PH <u>8.27</u> Temp. <u>21.6</u> C		

Comments:

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>Manuel Carraz</u> Date: <u>5/27/19</u> Day of The Week <u>Monday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>18.3</u> Ft. #2 _____ Ft. #3 <u>18.9</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="checkbox"/> OFF Filter #2 AUTO MANUAL <input checked="" type="checkbox"/> OFF Filter #3 <input checked="" type="checkbox"/> Auto Manual OFF		
Filtration Rate	/ _____ Gal/ Min _____ / _____ Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>.2</u> / _____ Filter Head Loss Gauge Reading <u>-2</u> / _____		
Hypochlorite System	Auto Standby Manual / <u>3657.8</u> Hrs Run Time / <u>54</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water Auto Hand Set Point <u>1.6</u> mg/l Cl2 Demand <u>1.6</u> mg/l Total <u>3500</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand Off Stroke _____ % Speed _____ % Total _____ Mls/Min		
Distribution Pumps	# 101 <input checked="" type="checkbox"/> Auto OFF _____ Gpm _____ Hz <u>3446.21</u> Hrs _____ Psi		
	# 102 <input checked="" type="checkbox"/> Auto OFF _____ Gpm _____ Hz <u>3445.56</u> Hrs _____ Psi		
	# 103 <input checked="" type="checkbox"/> Auto OFF _____ Gpm _____ Hz <u>3450.73</u> Hrs _____ Psi		
	# 104 <input checked="" type="checkbox"/> Auto OFF <u>653</u> Gpm <u>47</u> Hz <u>3437.97</u> Hrs <u>49</u> Psi		
Distribution Flow Meter	Reading <u>32,910,000</u> Gal. Demand: <u>764</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
M System Aerators/	#1 Run Time <u>11549</u> #2 Run Time <u>11088</u> #3 Run Time <u>11616</u> #4 Run Time <u>11356</u>		
Blowers Hours	Blower #1 Run Time <u>7082</u> Blower #2 Run Time <u>9385</u> Mixer #1 <input checked="" type="checkbox"/> ON OFF Mixer #2 <input checked="" type="checkbox"/> ON <input checked="" type="checkbox"/> OFF		
Finish Water Pumps	#1 <input checked="" type="checkbox"/> Auto OFF <u>2873.66</u> Hrs #2 <input checked="" type="checkbox"/> Auto OFF <u>2533.64</u> Hrs #3 Auto <input checked="" type="checkbox"/> OFF _____ Hrs		
Raw Water Pumps	#1 <input checked="" type="checkbox"/> Auto OFF <u>4165.08</u> Hrs #2 <input checked="" type="checkbox"/> Auto OFF <u>4161.81</u> Hrs #3 <input checked="" type="checkbox"/> Auto OFF <u>4157.21</u> Hrs		
Upstream Clarifier	Turbidity <u>5.80</u> Ntu's Turbidity _____ Ntu's		
Downstream Clarifier	Turbidity <u>.30</u> Ntu's Turbidity _____ Ntu's PH <u>7.77</u>		
Removal Efficiency %	/ _____ IN(ntu's) - _____ / _____ OUT(ntu's) / _____ IN(ntu's) X 100 = _____ / _____ % Removal Average _____ %		
Raw Water Ponds	# 1 Turbidity <u>1.55</u> Ntu's PH <u>8.20</u> Units Temperature <u>20.6</u> C		
	# 2 Turbidity <u>.91</u> Ntu's PH <u>8.29</u> Units Temperature <u>20.2</u> C		
	# 3 Turbidity <u>.74</u> Ntu's PH <u>8.33</u> Units Temperature <u>20.2</u> C		
Storage Tanks	# 1 Turbidity <u>.74</u> Ntu's CL2 Residual <u>2.15</u> Mg/L PH <u>7.82</u> Units Temp <u>21.9</u>		
	# 2 Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.62</u> Mg/L PH <u>7.81</u> Units Temp <u>21.9</u>		
	# 3 Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.3</u> Mg/L PH <u>8:18</u> Units Temp <u>22</u>		
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.48</u> Mg/L PH <u>8.15</u> Temp. <u>23.2</u> C		
Combined Filter Eff	Turbidity <u>.06</u> Ntu's CL2 <u>1.23</u> Mg/L PH <u>8.1</u> Temp. <u>23.7</u> C		
Central Main Canal	Turbidity <u>5.91</u> Ntu's _____ PH _____ Temp. _____ C		
Comments:	_____		

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-28-19</u> Day of The Week <u>Tuesday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.7</u> Ft. #2 _____ Ft. #3 <u>19.4</u> Ft.		
	Filter #1	AUTO MANUAL <input checked="" type="checkbox"/>	Filter #2 AUTO MANUAL <input checked="" type="checkbox"/> Filter #3 <input checked="" type="checkbox"/> Manual OFF
Filtration Rate	<u>0</u> <u>1,900</u> Gal/ Min <u>0</u> <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.1</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-1</u>		
Hypochlorite System	<input checked="" type="checkbox"/> Standby Manual <u>13664</u> Hrs Run Time <u>1</u> <u>52</u> Tank Level% <u>1</u> Cell Amps _____		
Hypochlorite Feed Rate	Finish Water <input checked="" type="checkbox"/> Hand Set Point <u>1.6</u> mg/l Cl2 Demand <u>1.6</u> mg/l Total <u>3500</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="checkbox"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF _____	Gpm _____ Hz _____ Hrs _____ Psi _____
	# 102	<input checked="" type="checkbox"/> OFF <u>831</u>	Gpm <u>47</u> Hz <u>3452</u> Hrs <u>49</u> Psi _____
	# 103	Auto OFF _____	Gpm _____ Hz _____ Hrs _____ Psi _____
	# 104	Auto OFF _____	Gpm _____ Hz _____ Hrs _____ Psi _____
Distribution Flow Meter	Reading <u>33,830,000</u> Gal. Demand: <u>0.920</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>12.0</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,639</u> #4 Run Time <u>11,379</u>		
Blowers Hours	Blower #1 Run Time <u>7,105</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="checkbox"/> OFF Mixer #2 <input checked="" type="checkbox"/> OFF		
Finish Water Pumps	#1 <input checked="" type="checkbox"/> OFF <u>2,873</u> Hrs #2 <input checked="" type="checkbox"/> OFF <u>2,545</u> Hrs #3 Auto <input checked="" type="checkbox"/> <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="checkbox"/> OFF <u>4,167</u> Hrs #2 <input checked="" type="checkbox"/> OFF <u>4,170</u> Hrs #3 <input checked="" type="checkbox"/> OFF <u>4,168</u> Hrs		
Upstream Clarifier	Turbidity <u>4.42</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.42</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.72</u>		
Removal Efficiency %	<u>4.42</u> , <u>X</u> IN(ntu's) - <u>.42</u> , <u>X</u> OUT(ntu's)		
	<u>4.42</u> , <u>X</u> IN(ntu's) X 100 = <u>1</u> , <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.15</u> Ntu's PH <u>8.23</u> Units Temperature <u>21</u> C	
	# 2	Turbidity <u>.95</u> Ntu's PH <u>8.30</u> Units Temperature <u>21</u> C	
	# 3	Turbidity <u>.87</u> Ntu's PH <u>8.34</u> Units Temperature <u>21</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL2 Residual <u>2.4</u> Mg/L PH <u>7.89</u> Units Temp <u>21</u>	
	# 2	Turbidity <u>.13</u> Ntu's CL2 Residual <u>1.82</u> Mg/L PH <u>7.80</u> Units Temp <u>21</u>	
	# 3	Turbidity <u>.10</u> Ntu's CL2 Residual <u>1.36</u> Mg/L PH <u>8.15</u> Units Temp <u>21</u>	
Tap Water	Turbidity <u>.11</u> Ntu's CL2 <u>1.37</u> Mg/L PH <u>8.11</u> Temp. <u>23</u> C		
Combined Filter Eff	Turbidity <u>.03</u> Ntu's CL2 <u>2.04</u> Mg/L PH <u>7.9</u> Temp. <u>24</u> C		
Central Main Canal	Turbidity <u>5.44</u> Ntu's _____ PH <u>8.21</u> Temp. <u>22</u> C		
Comments:			

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-29-19</u> Day of The Week <u>Wednesday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.0</u> Ft. #2 _____ Ft. #3 <u>19.5</u> Ft. Filter #1 AUTO MANUAL <input checked="" type="checkbox"/> Filter #2 AUTO MANUAL <input checked="" type="checkbox"/> Filter #3 <input checked="" type="checkbox"/> Auto Manual OFF		
Filtration Rate	<u>0</u> <u>1,900</u> Gal/Min <u>0</u> <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.5</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-3</u>		
Hypochlorite System	<input checked="" type="checkbox"/> Auto Standby Manual <u>3669</u> Hrs Run Time <u>1</u> <u>52</u> Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="checkbox"/> Auto Hand Set Point <u>1.6</u> mg/l Cl2 Demand <u>1.6</u> mg/l Total <u>3600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="checkbox"/> Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101 <input checked="" type="checkbox"/> Auto OFF <u>893</u> Gpm <u>49</u> Hz <u>3453</u> Hrs <u>52</u> Psi		
	# 102 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
	# 103 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
	# 104 Auto OFF _____ Gpm _____ Hz _____ Hrs _____ Psi		
Distribution Flow Meter	Reading <u>34,888,000</u> Gal. Demand: <u>1.058</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>12.0</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
THM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,663</u> #4 Run Time <u>11,403</u>		
Blowers Hours	Blower #1 Run Time <u>7,129</u> Blower #2 Run Time <u>9,385</u> Mixer #1 ON OFF Mixer #2 ON OFF		
Finish Water Pumps	#1 <input checked="" type="checkbox"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="checkbox"/> Auto OFF <u>2,556</u> Hrs #3 Auto <input checked="" type="checkbox"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="checkbox"/> Auto OFF <u>4,173</u> Hrs #2 <input checked="" type="checkbox"/> Auto OFF <u>4,175</u> Hrs #3 <input checked="" type="checkbox"/> Auto OFF <u>4,177</u> Hrs		
Upstream Clarifier	Turbidity <u>5.49</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.27</u> Ntu's Turbidity _____ Ntu's PH <u>7.75</u>		
Removal Efficiency %	<u>5.49</u> , <u>X</u> IN(ntu's) - <u>.27</u> , <u>X</u> OUT(ntu's) <u>5.49</u> , <u>X</u> IN(ntu's) X 100 = _____ , <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1 Turbidity <u>2.87</u> Ntu's PH <u>8.00</u> Units Temperature <u>23</u> C		
	# 2 Turbidity <u>1.44</u> Ntu's PH <u>8.20</u> Units Temperature <u>23</u> C		
	# 3 Turbidity <u>1.05</u> Ntu's PH <u>8.29</u> Units Temperature <u>23</u> C		
Storage Tanks	# 1 Turbidity <u>.12</u> Ntu's CL2 Residual <u>2.1</u> Mg/L PH <u>7.90</u> Units Temp <u>23</u>		
	# 2 Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.69</u> Mg/L PH <u>7.85</u> Units Temp <u>22</u>		
	# 3 Turbidity <u>.11</u> Ntu's CL2 Residual <u>1.29</u> Mg/L PH <u>8.17</u> Units Temp <u>23</u>		
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.13</u> Mg/L PH <u>8.16</u> Temp. <u>23</u> C		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>1.70</u> Mg/L PH <u>7.9</u> Temp. <u>23</u> C		
Central Main Canal	Turbidity <u>5.77</u> Ntu's _____ PH <u>8.25</u> Temp. <u>23</u> C		
Comments:	<u>lowered cl2 to 1.5/1.5</u>		

HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-30-19</u> Day of The Week <u>Thursday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>18.9</u> Ft. #2 _____ Ft. #3 <u>18.4</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #2 AUTO MANUAL <input checked="" type="radio"/> OFF Filter #3 <input checked="" type="radio"/> AUTO Manual OFF		
Filtration Rate	<u>X</u> <u>1,900</u> Gal/ Min <u>X</u> <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.7</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-2</u>		
Hypochlorite System	<input checked="" type="radio"/> Auto Standby Manual / _____ Hrs Run Time / _____ Tank Level% / _____ Cell Amps		
Hypochlorite Feed Rate	Finish Water <input checked="" type="radio"/> Auto Hand Set Point <u>1.5</u> mg/l Cl ₂ Demand <u>1.5</u> mg/l Total <u>3,600</u> Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> OFF Stroke <u>X</u> % Speed <u>X</u> % Total <u>X</u> Mls/Min		
Distribution Pumps	# 101	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	<input checked="" type="radio"/> Auto OFF	<u>1101</u> Gpm <u>49</u> Hz <u>3457</u> Hrs <u>49</u> Psi
	# 104	Auto OFF	_____ Gpm _____ Hz _____ Hrs _____ Psi
Distribution Flow Meter	Reading <u>35,844,000</u> Gal. Demand: <u>0.956</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>30</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
TTHM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,687</u> #4 Run Time <u>11,427</u>		
Blowers Hours	Blower #1 Run Time <u>7,153</u> Blower #2 Run Time <u>9,385</u> Mixer #1 ON OFF Mixer #2 ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>2,566</u> Hrs #3 Auto <input checked="" type="radio"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> Auto OFF <u>4,180</u> Hrs #2 <input checked="" type="radio"/> Auto OFF <u>4,179</u> Hrs #3 <input checked="" type="radio"/> Auto OFF <u>4,184</u> Hrs		
Upstream Clarifier	Turbidity <u>2.76</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.69</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.72</u>		
Removal Efficiency %	<u>2.76</u> IN(ntu's) - <u>.69</u> OUT(ntu's)		
	<u>2.76</u> IN(ntu's) X 100 = <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>2.15</u> Ntu's PH <u>8.09</u> Units Temperature <u>24</u> C	
	# 2	Turbidity <u>1.27</u> Ntu's PH <u>8.19</u> Units Temperature <u>25</u> C	
	# 3	Turbidity <u>.99</u> Ntu's PH <u>8.29</u> Units Temperature <u>25</u> C	
Storage Tanks	# 1	Turbidity <u>.11</u> Ntu's CL ₂ Residual ^{2.73} <u>2.14</u> Mg/L PH <u>7.82</u> Units Temp <u>24</u>	
	# 2	Turbidity <u>.12</u> Ntu's CL ₂ Residual ^{1.63} <u>1.64</u> Mg/L PH <u>7.84</u> Units Temp <u>23</u>	
	# 3	Turbidity <u>.11</u> Ntu's CL ₂ Residual ^{1.29} <u>1.12</u> Mg/L PH <u>8.17</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL ₂ <u>1.28</u> Mg/L PH <u>8.14</u> Temp. <u>25</u> c		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL ₂ <u>1.8</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> c		
Central Main Canal	Turbidity <u>7.66</u> Ntu's PH <u>8.20</u> Temp. <u>24</u> c		
Comments:	<u>cl₂ @ 1.6 / 1.6</u>		

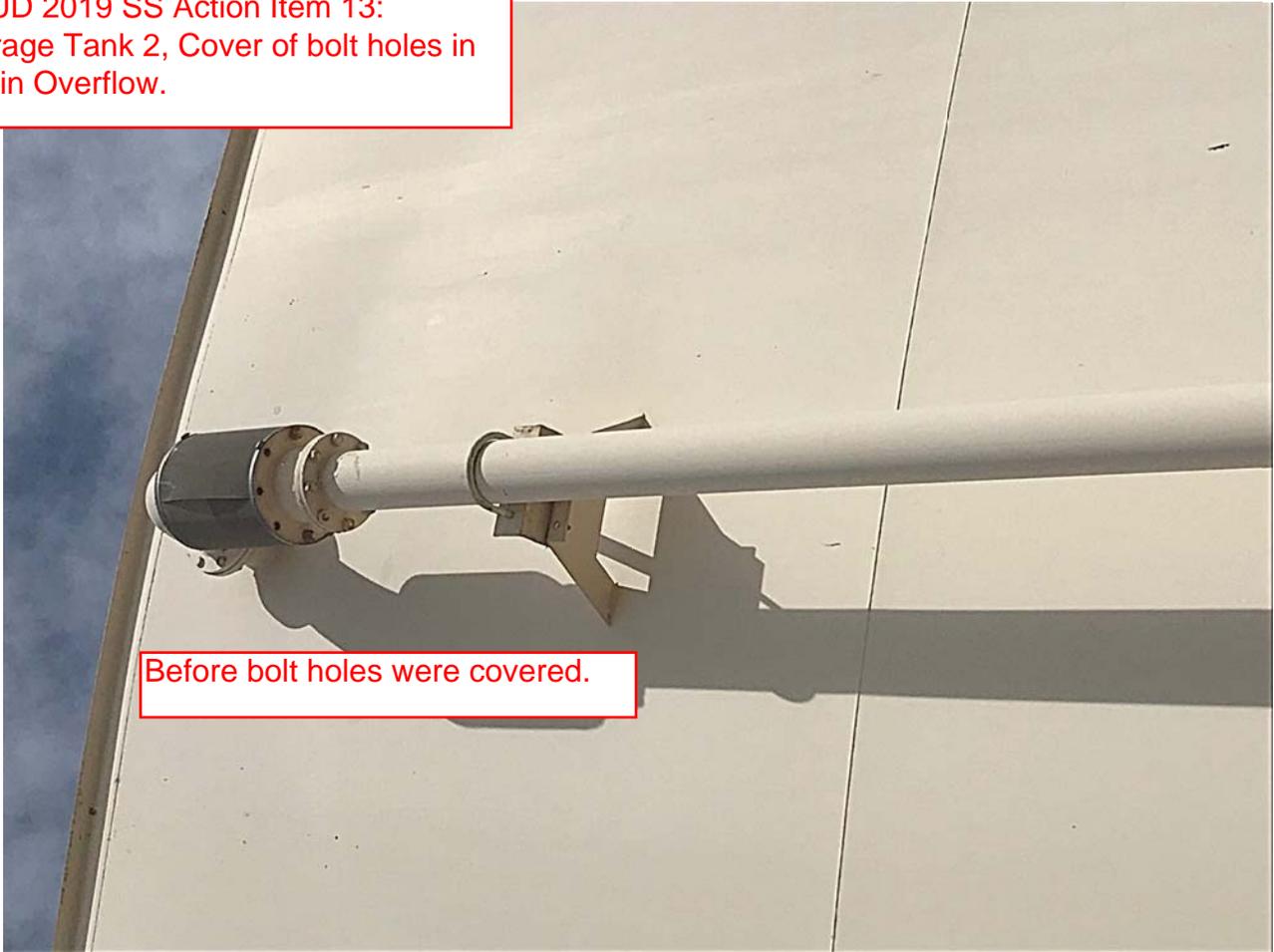
HEBER PUD WATER TREATMENT PLANT

DAILY PROCESS CONTROL

Task or Condition	Operator: <u>G Verdugo</u> Date: <u>5-31-19</u> Day of The Week <u>Friday</u>		
Plant Mode	Storage Tanks Water Level: #1 <u>19.2</u> Ft. #2 _____ Ft. #3 <u>18.3</u> Ft.		
	Filter #1 AUTO MANUAL <input checked="" type="radio"/> Filter #2 AUTO MANUAL <input checked="" type="radio"/> Filter #3 <u>Auto</u> Manual OFF		
Filtration Rate	<u>0</u> <u>1,900</u> Gal/Min <u>0</u> <u>12.8</u> Gal/ Sq. Ft. (GPM/280 sq ft.)		
Clarifier/Filter Head Loss	Clarifier Head Loss Gauge Reading <u>X</u> <u>1.1</u> Filter Head Loss Gauge Reading <u>X</u> <u>1-4</u>		
Hypochlorite System	<input checked="" type="radio"/> Standby Manual <u>13681</u> Hrs Run Time <u>1</u> <u>53</u> Tank Level% <u>1</u> Cell Amps _____		
Hypochlorite Feed Rate	Finish Water <u>Auto</u> Hand Set Point <u>1.6</u> mg/l Cl2 Demand <u>1.6</u> mg/l Total _____ Mls/Min		
Hypochlorite Feed Rate	Distribution Pump Station Hand <input checked="" type="radio"/> Stroke <u>1</u> % Speed <u>1</u> % Total <u>1</u> Mls/Min		
Distribution Pumps	# 101	Auto	<input checked="" type="radio"/> OFF _____ Gpm _____ Hz _____ Hrs _____ Psi
	# 102	Auto	<input checked="" type="radio"/> OFF _____ Gpm _____ Hz _____ Hrs _____ Psi
	# 103	Auto	<input checked="" type="radio"/> OFF _____ Gpm _____ Hz _____ Hrs _____ Psi
	# 104	<u>Auto</u>	OFF <u>1026</u> Gpm <u>49</u> Hz <u>3461</u> Hrs <u>50</u> Psi
Distribution Flow Meter	Reading <u>36,855,000</u> Gal. Demand: <u>1.011</u> Mgd		
Ferric/Polymer Feed Rate	(F) Total <u>56</u> Mls/Min Dosage <u>11.9</u> mg/l (P) Total <u>15</u> Mls/Min Dosage <u>36</u> mg/l		
Ferric Feed Rate @ Static Mixer	Speed <u>22.2</u> % Stroke <u>50</u> % Total <u>45</u> Mls/Min Dosage <u>9.2</u> mg/l		
IM System Aerators/	#1 Run Time <u>11,549</u> #2 Run Time <u>11,088</u> #3 Run Time <u>11,713</u> #4 Run Time <u>11,454</u>		
Blowers Hours	Blower #1 Run Time <u>7,180</u> Blower #2 Run Time <u>9,385</u> Mixer #1 <input checked="" type="radio"/> ON OFF Mixer #2 <input checked="" type="radio"/> ON OFF		
Finish Water Pumps	#1 <input checked="" type="radio"/> OFF <u>2,873</u> Hrs #2 <input checked="" type="radio"/> OFF <u>2,578</u> Hrs #3 <input checked="" type="radio"/> OFF <u>2,873</u> Hrs		
Raw Water Pumps	#1 <input checked="" type="radio"/> OFF <u>4,189</u> Hrs #2 <input checked="" type="radio"/> OFF <u>4,188</u> Hrs #3 <input checked="" type="radio"/> OFF <u>4,190</u> Hrs		
Upstream Clarifier	Turbidity <u>2.81</u> Ntu's Turbidity <u>X</u> Ntu's		
Downstream Clarifier	Turbidity <u>.43</u> Ntu's Turbidity <u>X</u> Ntu's PH <u>7.74</u>		
Removal Efficiency %	<u>2.81</u> / <u>X</u> IN(ntu's) - <u>.43</u> / <u>X</u> OUT(ntu's) <u>2.81</u> / <u>X</u> IN(ntu's) X 100 = <u>1</u> / <u>X</u> % Removal Average _____ %		
Raw Water Ponds	# 1	Turbidity <u>1.4</u> Ntu's PH <u>8.08</u> Units Temperature <u>24</u> c	
	# 2	Turbidity <u>1.10</u> Ntu's PH <u>8.19</u> Units Temperature <u>25</u> c	
	# 3	Turbidity <u>1.0</u> Ntu's PH <u>8.31</u> Units Temperature <u>24</u> c	
Storage Tanks	# 1	Turbidity <u>.10</u> Ntu's CL2 Residual <u>2.14</u> Mg/L PH <u>7.78</u> Units Temp <u>25</u>	
	# 2	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.60</u> <u>1.61</u> Mg/L PH <u>7.78</u> Units Temp <u>24</u>	
	# 3	Turbidity <u>.12</u> Ntu's CL2 Residual <u>1.23</u> <u>1.21</u> Mg/L PH <u>8.15</u> Units Temp <u>23</u>	
Tap Water	Turbidity <u>.10</u> Ntu's CL2 <u>1.28</u> Mg/L PH <u>8.13</u> Temp. <u>24</u> c		
Combined Filter Eff	Turbidity <u>.05</u> Ntu's CL2 <u>2.01</u> Mg/L PH <u>7.8</u> Temp. <u>24</u> c		
Central Main Canal	Turbidity <u>6.73</u> Ntu's _____ PH <u>8.21</u> Temp. <u>23</u> c		

Comments:

HPUD 2019 SS Action Item 13:
Storage Tank 2, Cover of bolt holes in
within Overflow.



Before bolt holes were covered.



After bolt holes were covered, with bolts and nuts.

HPUD 2019 SS Action Item 14:
Tank No. 3 with # 24 size Mesh Screen.



HPUD 2019 SS Action Item 15:
Flapper Valve was cleaned and is able to open.



HPUD 2019 SS Action Item 16:
Tank No. 1 Overflow Pipe with Vent Screen.

