



BRACEWELL ENGINEERING, INC.

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December 9, 2022

Mr. Eric Lacy
State Water Resources Control Board-Division of Drinking Water
850 Marina Bay Parkway, Building P, 2nd Floor
Richmond, CA 94804

Re: November 2022 Monthly Report to the Office of Drinking Water
La Honda Water System (County Service Area No. 7), No. CA4100509

Dear Mr. Lacy:

Attached are the Monthly Summary of Distribution System Coliform Monitoring and the Monthly Summary of Monitoring for Surface Water Treatment Regulations, and the Coliform Reporting Form for the La Honda Water System. The monthly distribution system treated water bacteriological sample showed an absence of total coliforms and E. coli

Chlorine residuals were maintained as required and turbidity levels did not exceed 0.3 NTU when treating water for domestic use. The minimum disinfection CT ratio was 1.6 for a DDW required 1-log removal for Giardia. The treated water was monitored for aluminum and iron and the results were below their respective MCLs.

During the month we repaired two leaks in the Trailer Park/Memory Lane area of the system. These leaks caused some of the customers in that area to experience low/no water pressure at various points during the time it took to locate the leaks and complete repairs. Shut off notices were issued, when possible, before water was shut off for repairs and a Boil Water Notice was issued to customers in that area of the system. After the final repair was made two sets of bacteriological samples were collected and when all the samples came back negative for total coliforms a DDW approved BWN Cancellation Notice was distributed. There was also a leak on the Alpine Road portion of the system that was handled in the same manner.

Please do not hesitate to contact me if you have any questions.

Respectfully submitted,
BRACEWELL ENGINEERING, INC.

Alan Bracewell
Staff Engineer

cc: BEI Office

WATER SYSTEM MONITORING REPORT

La Honda Water System (CSA No. 7)
 555 County Center, 5th Floor
 Redwood City, CA 94063
 System No. 4100509

Water Resources Control Board
 Division of Drinking Water
 850 Marina Bay Parkway, Bldg P
 Richmond, CA 98804

Station: Test: Units: Type: Frequency: Date	Finish Wtr FLOW gal/day calculated daily	Finish Wtr TEMP deg C grab weekly	Finish Wtr PH std units grab weekly	Finish Wtr CL2 RESID mg/L continuous daily	ContctPipe CT VALUE min-mg/L calculated daily	Finish Wtr CT REQUIRD min-mg/L calculated daily	ContctPipe CT RATIO ratio calculated daily	Finish Wtr TURBIDITY NTU continuous daily	Raw Water TURBIDITY NTU continuous daily	Finish Wtr TRB/PH/CL2 initials calib check weekly
11/01/22	8867	13.2	7.96	1.27	35.77	22.0	1.6	0.11	3.91	
11/02/22	8867	13.2	7.55	1.29	36.33	19.1	1.9	0.04	0.99	
11/03/22	8867	13.2	7.62	1.30	36.62	19.6	1.9	0.03	0.84	KB
11/04/22	0									
11/05/22	0									
11/06/22	0									
11/07/22	0									
11/08/22	0									
11/09/22	0									
11/10/22	0									
11/11/22	0									
11/12/22	0									
11/13/22	0									
11/14/22	0									
11/15/22	49367	13.9	7.68	2.53	71.26	21.1	3.4	0.06	0.40	KB
11/16/22	49367	13.9	7.76	2.83	79.71	22.1	3.6	0.06	0.42	
11/17/22	49367	13.9	7.68	2.60	73.23	21.2	3.5	0.02	0.37	
11/18/22	54075	10.4	7.66	2.60	73.23	26.8	2.7	0.02	0.41	KB
11/19/22	54075	10.4	7.70	2.35	66.19	26.8	2.5	0.02	0.38	
11/20/22	54075	10.4	7.66	2.25	63.37	26.3	2.4	0.02	0.35	
11/21/22	54075	10.4	7.64	2.23	62.81	26.0	2.4	0.02	0.36	
11/22/22	35833	11.9	7.72	2.33	65.63	24.3	2.7	0.02	0.34	KB
11/23/22	35833	11.9	7.65	2.38	67.04	23.8	2.8	0.02	0.37	
11/24/22	35833	11.9	7.65	2.24	63.09	23.6	2.7	0.02	0.33	
11/25/22	0									
11/26/22	0									
11/27/22	36240	10.1	7.65	2.52	70.98	27.2	2.6	0.02	0.34	
11/28/22	36240	10.1	7.71	2.42	68.16	27.6	2.5	0.02	0.37	
11/29/22	36240	10.1	7.77	2.24	63.09	27.8	2.3	0.02	0.31	
11/30/22	36240	10.1	7.57	2.43	68.44	26.3	2.6	0.02	0.28	
Average:	21449	11.7	7.68	2.22	62.64	24.2	2.6	0.03	0.63	
High:	54075	13.9	7.96	2.83	79.71	27.8	3.6	0.11	3.91	
Low:	0	10.1	7.55	1.27	35.77	19.1	1.6	0.02	0.28	
Total:	643461									

Method:	SM2550B	SM4500-H+ B	SM4500-C1 G		SM2130B	SM2130B
Limit1:			mn d >= 0.20		mn d >= 1.0	mx d <= 0.3
Over/Total:			0/17		0/17	0/17

WATER SYSTEM MONITORING REPORT

La Honda Water System (CSA No. 7)
 555 County Center, 5th Floor
 Redwood City, CA 94063
 System No. 4100509

Water Resources Control Board
 Division of Drinking Water
 850 Marina Bay Parkway, Bldg P
 Richmond, CA 98804

Station:	Raw Water	Raw Water	Raw Water	APN 240070	APN 240070	APN 240070	APN 240070	01dC12Sta	01dC12Sta	01dC12Sta	01dC12Sta
Test:	SAMPL TYPE	COLIFORM	E. COLI	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID
Units:	TYPE	MPN/100mL	MPN/100mL	TYPE	pres./abs.	pres./abs.	mg/L	TYPE	pres./abs.	pres./abs.	mg/L
Type:	observation	grab	grab	observation	grab	grab	grab	observation	grab	grab	grab
Frequency:	as needed	monthly	monthly	Mar/May/Oct	Mar/May/Oct	Mar/May/Oct	Mar/May/Oct	Apr/Jun/Nov	Apr/Jun/Nov	Apr/Jun/Nov	Apr/Jun/Nov
Date											
11/01/22	Other	48.7	3.1	due 03/23	due 03/23	due 03/23	due 03/23	Routine	Absence	Absence	1.07
11/02/22											
11/03/22											
11/04/22											
11/05/22											
11/06/22											
11/07/22											
11/08/22											1.18
11/09/22											
11/10/22											
11/11/22											
11/12/22											
11/13/22											
11/14/22											
11/15/22											
11/16/22											
11/17/22											
11/18/22											1.35
11/19/22											
11/20/22											
11/21/22											
11/22/22											
11/23/22											
11/24/22											
11/25/22											1.07
11/26/22											
11/27/22											
11/28/22											
11/29/22											1.69
11/30/22											
Average:		48.7	3.1						0	0	1.27
High:		48.7	3.1						0	0	1.69
Low:		48.7	3.1						0	0	1.07
DL/RL:		1.0/1.0	1.0/1.0								
Method:		SM9223 B-18	SM9223 B-18		SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1:					mx d < 1	mx d < 1	mn d >= 0.05		mx d < 1	mx d < 1	mn d >= 0.05
Over/Total:					0/0	0/0	0/0		0/1	0/1	0/5

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 Division of Drinking Water
 850 Marina Bay Parkway, Bldg P
 Richmond, CA 98804

Station:	251 PescCr	251 PescCr	251 PescCr	251 PescCr	460 Pescdr	460 Pescdr	460 Pescdr	460 Pescdr	Raw Water	TreatedWtr
Test:	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	ALUMINUM	ALUMINUM
Units:	TYPE	pres./abs.	pres./abs.	mg/L	TYPE	pres./abs.	pres./abs.	mg/L	ug/L	ug/L
Type:	observation	grab	grab	grab	observation	grab	grab	grab	grab	grab
Frequency:	Jul/Dec	Jul/Dec	Jul/Dec	Jul/Dec	Jan/Aug	Jan/Aug	Jan/Aug	Jan/Aug	every 12 mo	every 3 mo
Date										
11/01/22	due 12/22	due 12/22	due 12/22	due 12/22	due 01/23	due 01/23	due 01/23	due 01/23	due 07/23	< 15
11/02/22					Other	Absence	Absence	1.77		
11/03/22					Other	Absence	Absence	1.10		
11/04/22										
11/05/22										
11/06/22										
11/07/22										
11/08/22										
11/09/22										
11/10/22										
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11/25/22										
11/26/22										
11/27/22										
11/28/22										
11/29/22										
11/30/22										
Average:					0	0	0	1.44		< 15
High:					0	0	0	1.77		< 15
Low:					0	0	0	1.10		< 15
DL/RL:									10/5	5/15
Method:	SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G	EPA 200.8	EPA 200.8	
Limit1:	mx d < 1	mx d < 1	mn d >= 0.05		mx d < 1	mx d < 1	mn d >= 0.05			
Over/Total:	0/0	0/0	0/0		0/2	0/2	0/2			

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 850 Marina Bay Parkway, Bldg P
 Richmond, CA 98804

Station:	400 Ranch	400 Ranch	400 Ranch	400 Ranch	LaHondaRd	LaHondaRd	LaHondaRd	LaHondaRd
Test:	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID
Units:	TYPE	pres./abs.	pres./abs.	mg/L	TYPE	pres./abs.	pres./abs.	mg/L
Type:	observation	grab	grab	grab	observation	grab	grab	grab
Frequency:	Feb/Sep	Feb/Sep	Feb/Sep	Feb/Sep	as needed	as needed	as needed	as needed
Date								
11/01/22	due 02/23	due 02/23	due 02/23	due 02/23				

11/02/22
 11/03/22
 11/04/22
 11/05/22
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 11/27/22
 11/28/22
 11/29/22
 11/30/22

Average:
 High:
 Low:

Method:	SM9223B-18	SM9223B-18	SM4500-C1 G	SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1:	mx d < 1	mx d < 1	mn d >= 0.05	mx d < 1	mx d < 1	mn d >= 0.05
Over/Total:	0/0	0/0	0/0	0/0	0/0	0/0

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 850 Marina Bay Parkway, Bldg P
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Station:	LHW OPERATOR	LHW ACTIONS	Raw Water PH	Raw Water ALKALINITY	Raw Water IRON	TreatedWtr IRON	Raw Water NITRATE-N
Test:	units	comments	std units	mg/L-CaCO3	ug/L	ug/L	mg/L
Units:	observation	observation	grab	grab	grab	grab	grab
Type:	as needed	as needed	weekly	as needed	every 3 mo	every 3 mo	every 3 mo
Frequency:							
Date							
11/01/22					47	< 30	due 01/23
11/02/22							
11/03/22	KB		8.49				
11/04/22							
11/05/22							
11/06/22							
11/07/22							
11/08/22							
11/09/22							
11/10/22							
11/11/22							
11/12/22							
11/13/22							
11/14/22	KB		8.38				
11/15/22							
11/16/22							
11/17/22							
11/18/22							
11/19/22							
11/20/22							
11/21/22	KB		8.45				
11/22/22							
11/23/22							
11/24/22							
11/25/22							
11/26/22							
11/27/22							
11/28/22							
11/29/22							
11/30/22							
Average:			8.44		47	< 30	
High:			8.49		47	< 30	
Low:			8.38		47	< 30	
DL/RL:				3/2	10/30	10/30	0.030/0.40
Method:			SM4500-H+ B	SM2320 B	EPA 200.7	EPA 200.7	SM4500-N03 D
Limit1:							mx d <= 10
Over/Total:							0/0

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 850 Marina Bay Parkway, Bldg P
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Station:	TrailerPrk	TrailerPrk	TrailerPrk	TrailerPrk
Test:	SAMPL TYPE	CL2 RESID	COLIFORM	E. COLI
Units:	TYPE	mg/L	pres./abs.	pres./abs.
Type:	observation	grab	grab	grab
Frequency:	as needed	as needed	as needed	as needed

Date

11/01/22
 11/02/22
 11/03/22
 11/04/22
 11/05/22
 11/06/22
 11/07/22
 11/08/22
 11/09/22
 11/10/22
 11/11/22
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 11/22/22
 11/23/22
 11/24/22
 11/25/22
 11/26/22
 11/27/22
 11/28/22
 11/29/22
 11/30/22

Other	1.69	Absence	Absence
Other	1.62	Absence	Absence

Average:	1.66	0	0
High:	1.69	0	0
Low:	1.62	0	0

Method:	SM4500-C1 G	SM9223B-18	SM9223B-18
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Limit1:	mn d >= 0.05	mx d < 1	mx d < 1
Over/Total:	0/2	0/2	0/2

WATER SYSTEM MONITORING REPORT

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Station:	90 Memory	90 Memory	90 Memory	90 Memory
Test:	SAMPL TYPE	CL2 RESID	COLIFORM	E. COLI
Units:	TYPE	mg/L	pres./abs.	pres./abs.
Type:	observation	grab	grab	grab
Frequency:	as needed	as needed	as needed	as needed

Date

11/01/22
 11/02/22
 11/03/22
 11/04/22
 11/05/22
 11/06/22
 11/07/22
 11/08/22
 11/09/22
 11/10/22
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 11/22/22
 11/23/22
 11/24/22
 11/25/22
 11/26/22
 11/27/22
 11/28/22
 11/29/22
 11/30/22

Other	1.49	Absence	Absence
Other	1.48	Absence	Absence

Average:	1.49	0	0
High:	1.49	0	0
Low:	1.48	0	0

Method:	SM4500-C1 G	SM9223B-18	SM9223B-18
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Limit1:	mn d >= 0.05	mx d < 1	mx d < 1
Over/Total:	0/2	0/2	0/2

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Station:	10875 Alp	10875 Alp	10875 Alp	10875 Alp
Test:	SAMPL TYPE	CL2 RESID	COLIFORM	E. COLI
Units:	TYPE	mg/L	pres./abs.	pres./abs.
Type:	observation	grab	grab	grab
Frequency:	as needed	as needed	as needed	as needed

Date				
11/01/22	Other	0.40	Absence	Absence
11/02/22				
11/03/22				
11/04/22				
11/05/22				
11/06/22				
11/07/22				
11/08/22				
11/09/22				
11/10/22				
11/11/22				
11/12/22				
11/13/22				
11/14/22				
11/15/22				
11/16/22				
11/17/22				
11/18/22				
11/19/22				
11/20/22				
11/21/22				
11/22/22				
11/23/22				
11/24/22				
11/25/22				
11/26/22				
11/27/22				
11/28/22				
11/29/22				
11/30/22				

Average:	0.40	0	0
High:	0.40	0	0
Low:	0.40	0	0

Method:	SM4500-C1 G	SM9223B-18	SM9223B-18
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Limit1:	mn d >= 0.05	mx d < 1	mx d < 1
Over/Total:	0/1	0/1	0/1

WATER SYSTEM MONITORING REPORT

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Station:	13750Pesca	13750Pesca	13750Pesca	13750Pesca
Test:	SAMPL TYPE	COLIFORM	E. COLI	CL2 RESID
Units:	TYPE	pres./abs.	pres./abs.	mg/L
Type:	observation	grab	grab	grab
Frequency:	as needed	as needed	as needed	as needed

Date				
11/01/22				
11/02/22	Other	Absence	Absence	1.17
11/03/22	Other	Absence	Absence	1.34
11/04/22				
11/05/22				
11/06/22				
11/07/22				
11/08/22				
11/09/22				
11/10/22				
11/11/22				
11/12/22				
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11/22/22				
11/23/22				
11/24/22				
11/25/22				
11/26/22				
11/27/22				
11/28/22				
11/29/22				
11/30/22				

Average:	0	0.0	1.26
High:	0	0.0	1.34
Low:	0	0.0	1.17

Method:	SM9223B-18	SM9223B-18	SM4500-C1 G
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Limit1:	mx d < 1	mx d < 1	mn d >= 0.05
Over/Total:	0/2	0/2	0/2

State of California
Water Resources Control Board
Division of Drinking Water
Coliform Reporting Form

Date of Report: 12/9/2022

System Name: La Honda Water System (CSA #7)

System Number: 4100509

Laboratory: BEI Analytical Laboratory

Elap No: 3019

Signature of Lab Director: *Gregory W. Bracewell*

Report Period from: 11/1/2022 to 11/30/2022

Sampler: Keefe Brennan

Employed by: Bracewell Engineering, Inc.

Collection Date	Laboratory Number	Bottle Number	Site Name or Street Address	Sample Type	Total Coliform	E. Coli	Remarks
11/1/2022			Old Chlorination Station	1	A	A	SM 9223B-18
11/1/2022			Raw Water	4	48.7	3.1	SM 9223 B-18 (MPN)
11/2/2022			460 Pescadero	4	A	A	SM 9223B-18
11/3/2022			460 Pescadero	4	A	A	SM 9223B-18
11/29/2022			Trailer Park	4	A	A	SM 9223B-18
11/30/2022			Trailer Park	4	A	A	SM 9223B-18
11/29/2022			90 Memory	4	A	A	SM 9223B-18
11/30/2022			90 Memory	4	A	A	SM 9223B-18
11/1/2022			10875 Alpine	4	A	A	SM 9223B-18
11/2/2022			13750 Pescadero	4	A	A	SM 9223B-18
11/3/2022			13750 Pescadero	4	A	A	SM 9223B-18

1 = Routine
2 = Repeat
3 = Replacement
4 = Other

P = Present
A = Absent

**Monthly Summary of Monitoring
For Surface Water Treatment Regulations**

System Name: La Honda Water System (CSA #7)

System Number: 4100509

Treatment Plant Name: La Honda Water System (CSA #7)

Month: November Year: 2022

Treated Water Turbidities Every Four Hours (NTU)*

Date	Peak Raw Water Turbidity	Peak Settled Water Turbidity	Midnight to 0400	0400 to 0800	0800 to Noon	Noon to 1600	1600 to 2000	2000 to Midnight	Average Treated Water	Minimum Ct. Ratio
1	3.91		0.12	0.02	0.07	0.02	0.03	0.04	0.05	1.6
2	0.99				0.05	0.03	0.04		0.04	1.9
3	0.84				0.05	0.03			0.04	1.9
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15	0.40				0.05	0.06	0.06	0.06	0.06	3.4
16	0.42		0.06	0.06	0.06	0.02	0.02	0.03	0.04	3.6
17	0.37		0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.5
18	0.41		0.02	0.02	0.09	0.02	0.02	0.02	0.03	2.7
19	0.38		0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.5
20	0.35		0.02	0.02	0.02	0.09	0.02	0.06	0.04	2.4
21	0.36		0.02	0.03	0.02	0.02	0.02	0.02	0.02	2.4
22	0.34		0.01	0.02		0.02	0.09	0.02	0.03	2.7
23	0.37		0.03	0.02	0.02	0.02	0.02	0.02	0.02	2.8
24	0.33		0.02	0.02	0.02	0.04	0.02	0.02	0.02	2.7
25										
26										
27	0.34						0.03	0.02	0.02	2.6
28	0.37		0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.5
29	0.31		0.02	0.10	0.02	0.02	0.02	0.02	0.03	2.3
30	0.28		0.02	0.02	0.02				0.02	2.6
31										
Ave.	0.63								0.03	

*If a continuous monitoring turbidimeter is used, determine discrete turbidity value for the same times during each 24-hour period

Total No. of Samples: 85 No. of Readings ≤ 0.3 NTU: 85

% Readings ≤ 0.3 NTU = [(No. Readings ≤ 0.3 NTU) / (Total No. Samples)] x 100 = 100%

Meets Standard (i.e. more than 95% of readings are ≤ 0.3 NTU) (Y/N)? Y

Percent reduction during the month = [(Average Raw NTU - Average Effluent NTU) / (Average Raw NTU)] x 100 = 95%

Meets Standard (i.e. reduction is greater than 80%) (Y/N)? Y

95th Percentile Value of all turbidity readings (95% of all turbidity readings are less than this value): 0.085

Incidents of turbidity greater than 1.0 NTU

Date of Incident				
Value				
Duration				

Total Number of incidents where turbidity is > 1.0 NTU: _____ 0
 Total Number of incidents where turbidity is > 5.0 NTU: _____ 0
 Meets Standards (i.e. NTU is not > 1.0 for more than eight consecutive hours) (Y/N)? _____ Y

After placing a filter back into service after any interruption (e.g. backwashing), did the filter effluent comply with the following criteria:

- a. < 2.0 NTU after all events (Y/N)? _____ Y
- b. < 1.0 NTU after 90% of events (Y/N)? _____ Y
- c. < 0.5 NTU after 4 hours (Y/N)? _____ Y

Indicate the date that the turbidimeters that are used for regulatory monitoring purposes were calibrated

Date	Which Turbidimeter	Standard used (primary/secondary)	Date	Which Turbidimeter	Standard Used (primary/secondary)
1/29/2021	Hach, raw wtr	0/20 Formazin	1/29/2021	Hach, treated	0/20 Formazin
4/22/2021	Hach, raw wtr	0/20 Formazin	4/22/2021	Hach, treated	0/20 Formazin
7/28/2021	Hach, raw wtr	0/20 Formazin	7/28/2021	Hach, treated	0/20 Formazin
10/27/2021	Hach, raw wtr	0/20 Formazin	10/27/2021	Hach, treated	0/20 Formazin
1/28/2022	Hach, raw wtr	0/20 Formazin	1/28/2022	Hach, treated	0/20 Formazin
4/28/2022	Hach, raw wtr	0/20 Formazin	4/28/2022	Hach, treated	0/20 Formazin
7/22/2022	Hach, raw wtr	0/20 Formazin	7/22/2022	Hach, treated	0/20 Formazin
10/26/2022	Hach, raw wtr	0/20 Formazin	10/26/2022	Hach, treated	0/20 Formazin

Disinfection Process Data

Disinfectant residual type: free chlorine: X combined chlorine: _____ other (specify) _____

Incidents of chlorine residuals less than 0.2 ppm at the plant effluent:

Date of Incident			
Duration			
Date Dept. Notified			

Total number of incidents where residual is < 0.2 ppm: _____ 0
 Meets standard (i.e. not less than 0.2 ppm for more than four hours) (Y/N)? _____ Y

No. of distribution system residual samples collected:	1
No of distribution system samples for HPC only:	
Total No. residual and/or HPC samples collected:	1
No. of samples with no detectable residual and HPC is not measured:	0
No. of samples with no residual and HPC > 500 CFU/ml:	
No. of samples for HPC only and HPC > 500 CFU/ml:	
Total No. Samples with no residual and/or HPC > 500 CFU/ml:	0

Compute V where $V = [1 - (\text{Total number of samples with no residual and/or HPC} > 500) / (\text{Total number of residual and/or HPC samples collected})] \times 100 =$ _____ 100%

Meets Standard (i.e V > 95%) (Y/N) _____ Y

Summary of Water Quality Complaints

General Complaints

Type of Complaint	Number	Corrective Actions Taken
Taste/Odor	0	
Color	0	
Turbidity	0	
Suspended Solids	0	
Other (describe)	0	

Reports of Gastrointestinal Illness (Attach additional sheets if necessary):

Person Reporting	Date	Corrective Actions Taken

Attach explanation of any failure of the performance standards or operating criteria and corrective action taken or planned

Signature:



Date:

12/9/2022