



**BRACEWELL ENGINEERING, INC.**

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September 10, 2024

District Engineer  
State Water Resources Control Board-Division of Drinking Water  
850 Marina Bay Parkway, Building P, 2nd Floor  
Richmond, CA 94804

Re: August 2024 Monthly Report to the Office of Drinking Water  
La Honda Water System (County Service Area No. 7), No. CA4100509

Dear District Engineer:

Attached are the following:

1. Monitoring Report
2. Lab Results
3. Coliform Reporting Form
4. Surface Water Reports

- The monthly distribution system treated water bacteriological sample showed an absence of total coliforms and E. coli.
- Chlorine residuals were maintained as required.
- The minimum Disinfection CT ratio was 2.6 for a DDW required 1- log removal for Giardia.
- The aeration pump to control disinfection byproducts in the storage tank has been experiencing recurring faults on startup. County staff are aware of the issue and their electrician has investigated the issue multiple times. However, the pump continues to malfunction. We are working with the County to get the issue resolved and will provide an update once the system is properly functioning.

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

Respectfully submitted,  
BRACEWELL ENGINEERING, INC.

Alan Bracewell  
Staff Engineer

La Honda Water System (CSA No. 7)  
 555 County Center, 5th Floor  
 Redwood City, CA 94063  
 System No. CA4100509

WATER SYSTEM MONITORING REPORT

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

Location			Plant On	Raw Water	Raw Water	Treated Water	Backwash
Parameter			SW Plant	Tank	Flow	Average Flow	Flow
frequency			daily	daily	calculation	calculation	calculation
Units			Y/N	ft	gal/d	gal/d	gal/d
Type				level	flow		flow
High Limit							
Low Limit							
Date	Initials	Time					
8/1/2024			Y		20,257	49,100	2,300
8/2/2024			Y		20,257	49,100	2,300
8/3/2024			N		20,257	-	2,300
8/4/2024			N		20,257	-	2,300
8/5/2024			N		20,257	-	2,300
8/6/2024			N		22	-	-
8/7/2024			N		22	-	-
8/8/2024			N		22	-	-
8/9/2024			N		22	-	-
8/10/2024			N		22	-	-
8/11/2024			N		22	-	-
8/12/2024	KB	1300	Y	14.47	22	500	-
8/13/2024			Y			40,833	1,517
8/14/2024			Y			40,833	1,517
8/15/2024			Y			40,833	1,517
8/16/2024			Y			40,833	1,517
8/17/2024			N			-	1,517
8/18/2024			N			-	1,517
8/19/2024			N			-	1,517
8/20/2024			N			-	1,517
8/21/2024			N			-	1,517
8/22/2024			N			-	1,517
8/23/2024			N			-	1,517
8/24/2024			N			-	1,517
8/25/2024			N			-	1,517
8/26/2024			N			-	1,517
8/27/2024			N			-	1,517
8/28/2024			N			-	1,517
8/29/2024			Y			40,833	1,517
8/30/2024	KB	1115	Y	13.91		40,833	1,517
8/31/2024			Y			50,575	4,975

Min				13.91	22	0	0
Max				14.47	20,257	50,575	4,975
Average				14.19	8,453	12,719	1,412
Total					101,436	394,275	43,775



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Location	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe	Contact Pipe
Parameter	turbidity	Max Turbidity	Min Temp	Min CL2	pH	Turbidity	Temp
frequency	daily	daily	daily	daily	weekly	weekly	weekly
Units	units	ntu	C	mg/L	units	ntu	C
Type	Analyzer	Analyzer	Analyzer	Analyzer	Grab	Grab	Grab
High Limit							
Low Limit							
Date							
8/1/2024							
8/2/2024							
8/3/2024							
8/4/2024							
8/5/2024							
8/6/2024							
8/7/2024							
8/8/2024							
8/9/2024							
8/10/2024							
8/11/2024							
8/12/2024	7.7	0.11	17.7		7.80	0.19	17.3
8/13/2024							
8/14/2024							
8/15/2024							
8/16/2024							
8/17/2024							
8/18/2024							
8/19/2024							
8/20/2024							
8/21/2024							
8/22/2024							
8/23/2024							
8/24/2024							
8/25/2024							
8/26/2024							
8/27/2024							
8/28/2024							
8/29/2024							
8/30/2024	7.6	0.09	17.8	1.64	7.81	0.15	17.3
8/31/2024							

Min	7.6	0.09	17.7	1.64	7.80	0.15	17.3
Max	7.7	0.11	17.8	1.64	7.81	0.19	17.3
Average	7.7	0.10	17.8	1.64	7.81	0.17	17.3
Total							

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WATER SYSTEM MONITORING REPORT

Water Resources Control Board  
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 Richmond, CA 98804

Location		TW Storage Tank	TW Storage Tank	TW Storage Tank	TW Storage Tank
Parameter		Level	Temp	pH	cl2 residual
frequency		weekly	weekly	weekly	weekly
units		ft	C	Units	ppm
Type		Visual			
High Limit			17.0	8.50	2.00
Low Limit			6.5	7.50	0.30
Date	Oper. Initials				
8/1/2024					
8/2/2024					
8/3/2024					
8/4/2024					
8/5/2024					
8/6/2024					
8/7/2024					
8/8/2024					
8/9/2024					
8/10/2024					
8/11/2024					
8/12/2024					
8/13/2024					
8/14/2024					
8/15/2024	KB	29.2	19	8.07	1.43
8/16/2024					
8/17/2024					
8/18/2024					
8/19/2024					
8/20/2024					
8/21/2024					
8/22/2024					
8/23/2024					
8/24/2024					
8/25/2024					
8/26/2024					
8/27/2024					
8/28/2024					
8/29/2024					
8/30/2024	KB	23.1	17.6	7.99	0.85
8/31/2024					

Min		23.1	17.6	7.99	0.85
Max		29.2	19.0	8.07	1.43
Average		26.2	18.3	8.03	1.14
Total					

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Location		Routine Sample Site
Parameter		Cl2 Residual
frequency		as needed
units		mg/L
Type		grab
High Limit		
Low Limit		
Date	Oper. Initials	
8/1/2024	KB	1.22
8/2/2024		
8/3/2024		
8/4/2024		
8/5/2024		
8/6/2024		
8/7/2024		
8/8/2024		
8/9/2024		
8/10/2024		
8/11/2024		
8/12/2024		
8/13/2024	KB	1.13
8/14/2024		
8/15/2024		
8/16/2024		
8/17/2024		
8/18/2024		
8/19/2024		
8/20/2024	KB	0.97
8/21/2024		
8/22/2024		
8/23/2024		
8/24/2024		
8/25/2024		
8/26/2024		
8/27/2024		
8/28/2024	KB	0.46
8/29/2024		
8/30/2024		
8/31/2024		

Min		0.46
Max		1.22
Average		0.95
Total		

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Date	RW - Flow (gal/d): calculation	TW - Flow (gal/d): calculation	BW - Flow (gal/d): calculation
<b>2022</b>	<b>291,637</b>	<b>19,843</b>	<b>3,443</b>
Jan	30,036	27,571	4,179
Feb	3,526,066	18,586	2,911
Mar	17,774	14,952	2,179
Apr	20,752	17,809	2,742
May	18,380	16,865	2,728
Jun	16,072	18,541	2,826
Jul	16,543	19,370	3,465
Aug	16,569	19,313	4,046
Sep	23,330	23,743	4,477
Oct	21,121	23,098	4,773
Nov	26,008	22,087	3,851
Dec	19,834	16,895	3,160
<b>2023</b>	<b>13,176</b>	<b>12,295</b>	<b>1,574</b>
Jan	5,776	4,419	887
Feb	3,481	6,396	1,489
Mar	0	3,389	991
Apr	22,903	22,033	3,360
May	9,422	9,047	1,534
Jun	20,446	20,264	1,993
Jul	11,519	9,875	1,246
Aug	24,440	21,556	2,158
Sep	30,522	17,247	1,807
Oct	9,636	8,906	926
Nov	16,491	15,513	1,512
Dec	11,023	9,156	1,053
<b>2024</b>	<b>15,967</b>	<b>15,334</b>	<b>2,089</b>
Jan	3,508	2,253	313
Feb	10,982	15,300	2,068
Mar	17,368	11,945	1,647
Apr	28,934	25,130	3,873
May	25,106	20,039	3,229
Jun	19,161	19,248	2,621
Jul	9,817	13,069	1,296
Aug	8,453	12,719	1,412
Sep		50,575	4,975
Oct			
Nov			
Dec			
<b>Average</b>	<b>121,196</b>	<b>15,871</b>	<b>2,400</b>

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Row Labels	TW Storage Tank - Level (ft): weekly	TW Storage Tank - Temp (C): weekly	TW Storage Tank - cl2 residual (ppm): weekly
<b>2022</b>	<b>26</b>	<b>15</b>	<b>1.00</b>
Jan	22	13	0.56
Feb	26	10	0.80
Mar	29	11	0.99
Apr	27	12	0.74
May	29	15	1.17
Jun	27	17	0.88
Jul	24	18	1.09
Aug	25	17	1.17
Sep	28	19	1.28
Oct	27	18	0.98
Nov	22	13	1.50
Dec	25	12	0.77
<b>2023</b>	<b>21</b>	<b>15</b>	<b>0.80</b>
Jan	16	11	0.49
Feb	26	11	0.52
Mar	13	12	0.24
Apr	18	14	1.19
May	26	15	0.72
Jun	20	17	0.78
Jul	26	18	0.68
Aug	22	19	0.93
Sep	23	18	0.93
Oct	22	18	0.65
Nov	26	15	1.04
Dec	26	13	1.51
<b>2024</b>	<b>23</b>	<b>15</b>	<b>1.15</b>
Jan	24	12	0.58
Feb	17	13	1.39
Mar	20	13	1.25
Apr	19	15	1.58
May	24	16	1.20
Jun	29	18	0.97
Jul	25	20	0.98
Aug	26	18	1.14
Sep			
Oct			
Nov			
Dec			
<b>Average</b>	<b>23</b>	<b>15</b>	<b>0.95</b>



# LHW

August

La Honda Water System (W4100509)

CHLORINE RESIDUAL	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	13460 Pescadero Creek	AA08725	8/13/24	1.13	mg/L		SM 4500-CI G	0.02	0.02	Routine
COLIFORM MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA08724	8/13/24	770.1	MPN/100mL		SM9223B-18 (MPN)	1.0	1.0	Other
COLIFORM PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	13460 Pescadero Creek	AA08725	8/13/24	A	P/A		SM9223B-18			Routine
E COLI MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA08724	8/13/24	14.6	MPN/100mL		SM9223B-18 (MPN)	1.0	1.0	Other
E COLI PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	13460 Pescadero Creek	AA08725	8/13/24	A	P/A		SM9223B-18			Routine
UV254 PERF	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA08812	8/8/24	74.7	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA08865	8/13/24	76.5	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA08918	8/22/24	107.4	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA08955	8/29/24	93.2	1/cm		SM 5910B			
				HIGH 107.40	AVG 87.95	LOW 74.70				
	Treated Water	AA08813	8/8/24	87.8	1/cm		SM 5910B			
	Treated Water	AA08866	8/13/24	82.3	1/cm		SM 5910B			
	Treated Water	AA08919	8/22/24	120.8	1/cm		SM 5910B			
	Treated Water	AA08956	8/29/24	100.6	1/cm		SM 5910B			
				HIGH 120.80	AVG 97.88	LOW 82.30				

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

Date of Report: September 06, 2024

Laboratory: BEI Analytical Laboratory (ELAP 3019)

Report Period: August, 2024

System Name: **La Honda Water System**

System Number: **CA4100509**

Collection Date	Site Name	Analyte	Sample Type	Result	Remarks	Sampler
8/13/2024	Alpine Creek - Raw Water	Coliform	Other	770.1	SM9223B-18 (MPN)	Keefe Brennan
8/13/2024	Alpine Creek - Raw Water	E. Coli	Other	14.6	SM9223B-18 (MPN)	Keefe Brennan
8/13/2024	13460 Pescadero Creek	COLIFORM	Routine	A	SM9223B-18	Keefe Brennan
8/13/2024	13460 Pescadero Creek	E. COLI	Routine	A	SM9223B-18	Keefe Brennan

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: CA4100509

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

Month: August Year: 2024

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	7.70		0.09	0.08	0.12	0.09	0.08	0.14	0.10	4.4
2	3.36		0.08	0.08					0.08	3.2
3										
4										
5										
6										
7										
8										
9										
10										
11										
12	14.00					0.14	0.09	0.09	0.11	4.8
13	4.41		0.08	0.09	0.09	0.08	0.10	0.09	0.09	4.4
14	5.26		0.08	0.09	0.09	0.08	0.10	0.08	0.09	4.6
15	6.21		0.08	0.10	0.09	0.08	0.10	0.09	0.09	4.6
16	3.61		0.08	0.10	0.09				0.09	3.9
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29	18.25					0.09	0.08	0.15	0.11	2.6
30	14.14		0.08	0.08	0.19	0.08	0.08	0.08	0.10	4.1
31	2.13		0.09	0.08	0.08	0.09	0.08	0.15	0.10	4.3
Ave.	7.91								0.09	2.6

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

Total No. of Samples: 47 No. of Readings ≤ 0.3 NTU: 47

% 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 = 99%

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) 0.150

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)
1/27/2023	Hach, raw wtr	0/20 Formazin	1/27/2023	Hach, treated	0/20 Formazin
6/2/2023	Hach, raw wtr	0/20 Formazin	6/2/2023	Hach, treated	0/20 Formazin
9/27/2023	Hach, raw wtr	0/20 Formazin	9/27/2023	Hach, treated	0/20 Formazin
12/28/2023	Hach, raw wtr	0/20 Formazin	12/28/2023	Hach, treated	0/20 Formazin
3/28/2024	Hach, raw wtr	0/20 Formazin	3/28/2024	Hach, treated	0/20 Formazin
6/25/2024	Hach, raw wtr	0/20 Formazin	6/25/2024	Hach, treated	0/20 Formazin
6/25/2024	Hach, raw wtr	0/20 Formazin	6/25/2024	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



