



**BRACEWELL ENGINEERING, INC.**

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May 9, 2024

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

Re: April 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 2.7 for a DDW required 1- log removal for Giardia.

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					
4/1/2024			N		7,234	-	862
4/2/2024			N		7,234	-	862
4/3/2024	JP/KB	1330	Y	14.12	7,234	26,100	862
4/4/2024			Y		8,606	25,800	1,186
4/5/2024			N		8,606	-	1,186
4/6/2024			N		8,606	-	1,186
4/7/2024			N		8,606	-	1,186
4/8/2024			N		8,606	-	1,186
4/9/2024			N		8,606	-	1,186
4/10/2024	JP	1330	Y	13.43	8,606	25,800	1,186
4/11/2024			Y		57,179	48,050	8,250
4/12/2024	KB	1100	Y	13.19	57,179	48,050	8,250
4/13/2024			Y		16,956	29,100	2,075
4/14/2024			N		16,956	-	2,075
4/15/2024			N		16,956	-	2,075
4/16/2024	KB	1200	Y	14.69	16,956	29,100	2,075
4/17/2024			Y		62,299	53,400	8,250
4/18/2024	KB	1445	Y	14.30	62,299	53,400	8,250
4/19/2024			Y		44,999	39,340	8,325
4/20/2024			Y		44,999	39,340	8,325
4/21/2024			Y		44,999	39,340	8,325
4/22/2024	KB	1200	Y		44,999	39,340	8,325
4/23/2024			Y	13.07	44,999	39,340	7,675
4/24/2024			Y		84,730	72,800	7,675
4/25/2024			Y		84,730	72,800	7,675
4/26/2024	KB	1200	Y	13.04	84,730	72,800	7,675
4/27/2024			N		27	-	-
4/28/2024			N		27	-	-
4/29/2024			N		27	-	-
4/30/2024			N		27	-	-

Min				13.04	27	0	0
Max				14.69	84,730	72,800	8,325
Average				13.69	28,934	25,130	3,873
Total					868,017	753,900	116,185



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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							
4/1/2024							
4/2/2024							
4/3/2024	7.6	0.06	15.1	1.66	7.56	0.12	15.2
4/4/2024							
4/5/2024							
4/6/2024							
4/7/2024							
4/8/2024							
4/9/2024							
4/10/2024	7.5	0.05	14.5	1.66	7.51	0.17	14.5
4/11/2024							
4/12/2024	7.5	0.05	15.6	2.33			
4/13/2024							
4/14/2024							
4/15/2024							
4/16/2024	7.4	0.06	15.9	1.74	7.59	0.20	14.3
4/17/2024							
4/18/2024	7.7	0.04	14.9	2.47			
4/19/2024							
4/20/2024							
4/21/2024							
4/22/2024	7.7	0.08	15.2	1.89			
4/23/2024							
4/24/2024							
4/25/2024							
4/26/2024	8.1	0.05	14.8	2.18	7.97	0.17	14.3
4/27/2024							
4/28/2024							
4/29/2024							
4/30/2024							

Min	7.4	0.04	14.5	1.66	7.51	0.12	14.3
Max	8.1	0.08	15.9	2.47	7.97	0.20	15.2
Average	7.6	0.05	15.1	1.99	7.66	0.17	14.6
Total							

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WATER SYSTEM MONITORING REPORT

Water Resources Control Board  
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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				
4/1/2024					
4/2/2024					
4/3/2024					
4/4/2024	KB	18.8	14.8	7.82	1.83
4/5/2024					
4/6/2024					
4/7/2024					
4/8/2024					
4/9/2024					
4/10/2024					
4/11/2024					
4/12/2024	KB	15.2	14.1	7.8	1.26
4/13/2024					
4/14/2024					
4/15/2024					
4/16/2024					
4/17/2024					
4/18/2024	KB	16.9	14.6	8.02	1.88
4/19/2024					
4/20/2024					
4/21/2024					
4/22/2024					
4/23/2024	KB	23.6	14.6	7.97	1.35
4/24/2024					
4/25/2024					
4/26/2024					
4/27/2024					
4/28/2024					
4/29/2024					
4/30/2024					

Min		15.2	14.1	7.80	1.26
Max		23.6	14.8	8.02	1.88
Average		18.6	14.5	7.90	1.58
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	
4/1/2024		
4/2/2024		
4/3/2024		
4/4/2024	KB	1.56
4/5/2024		
4/6/2024		
4/7/2024		
4/8/2024		
4/9/2024		
4/10/2024		
4/11/2024		
4/12/2024	KB	0.92
4/13/2024		
4/14/2024		
4/15/2024		
4/16/2024		
4/17/2024	KB	1.64
4/18/2024		
4/19/2024		
4/20/2024		
4/21/2024		
4/22/2024		
4/23/2024		
4/24/2024		
4/25/2024		
4/26/2024	KB	1.39
4/27/2024		
4/28/2024		
4/29/2024	KB	1.02
4/30/2024		

Min		0.92
Max		1.64
Average		1.31
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>5,011</b>	<b>4,475</b>	<b>636</b>
Jan	3,508	2,253	313
Feb	10,982	15,300	2,068
Mar	17,368	11,945	1,538
Apr	28,934	25,130	3,873
May	6	0	0
Jun	0	0	0
Jul	0	0	0
Aug	0	0	0
Sep	0	0	0
Oct	0	0	0
Nov	0	0	0
Dec	0	0	0
<b>Average</b>	<b>103,745</b>	<b>12,176</b>	<b>1,880</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>20</b>	<b>13</b>	<b>1</b>
Jan	24	12	1
Feb	17	13	1
Mar	20	13	1
Apr	19	15	2
May			
Jun			
Jul			
Aug			
Sep			
Oct			
Nov			
Dec			
<b>Average</b>	<b>23</b>	<b>15</b>	<b>0.93</b>



# LHW

April

La Honda Water System (W4100509)

CHLORINE RESIDUAL	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Old Chlorination Station- Sam McDonald Park	AA07342	4/17/24	1.64	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	AA07341	4/17/24	290.9	MPN/100mL		SM9223B-18 (MPN)	1.0	1.0	Other
COLIFORM PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Old Chlorination Station- Sam McDonald Park	AA07342	4/17/24	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	AA07341	4/17/24	51.2	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
	Old Chlorination Station- Sam McDonald Park	AA07342	4/17/24	A	P/A		SM9223B-18			Routine
NITRATE	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA07475	4/29/24	<0.4	mg/L as N	10	SM 4500-NO3-D	0.16	0.40	
NITRITE	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA07476	4/29/24	<0.10	mg/L	1	SM 4500-NO2-B	0.02	0.10	
UV254	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA07346	4/3/24	63.9	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA07507	4/10/24	56.7	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA07548	4/17/24	73.1	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA07577	4/25/24	80.2	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA07618	4/29/24	78.2	1/cm		SM 5910B			
				HIGH 80.20	AVG 70.42	LOW 56.70				
	Treated Water	AA07347	4/3/24	87.5	1/cm		SM 5910B			
	Treated Water	AA07508	4/10/24	85.3	1/cm		SM 5910B			
	Treated Water	AA07549	4/17/24	87.3	1/cm		SM 5910B			
	Treated Water	AA07578	4/25/24	97.5	1/cm		SM 5910B			
	Treated Water	AA07619	4/29/24	94.0	1/cm		SM 5910B			
				HIGH 97.50	AVG 90.32	LOW 85.30				

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

Date of Report: May 02, 2024

Laboratory: BEI Analytical Laboratory (ELAP 3019)

Report Period: April, 2024

System Name: **La Honda Water System**

System Number: **CA4100509**

Collection Date	Site Name	Analyte	Sample Type	Result	Remarks	Sampler
4/17/2024	Alpine Creek - Raw Water	Coliform	Other	290.9	SM9223B-18 (MPN)	Keefe Brennan
4/17/2024	Alpine Creek - Raw Water	E. Coli	Other	51.2	SM9223B-18 (MPN)	Keefe Brennan
4/17/2024	Old Chlorination Station- Sam McDonald	COLIFORM	Routine	A	SM9223B-18	Keefe Brennan
4/17/2024	Old Chlorination Station- Sam McDonald	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: April 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										
2										
3	15.76					0.05	0.05	0.05	0.05	3.4
4	10.58		0.05	0.05	0.05	0.04			0.05	3.4
5										
6										
7										
8										
9										
10	8.56						0.05	0.04	0.04	3.3
11	9.33		0.05	0.05	0.06	0.04	0.06	0.04	0.05	3.7
12	8.23		0.07	0.04	0.09	0.04	0.06	0.04	0.06	3.4
13	8.46		0.04	0.04	0.04	0.11			0.06	3.1
14										
15										
16	19.98					0.07	0.06	0.04	0.06	3.3
17	8.98		0.06	0.05	0.05	0.05	0.05	0.04	0.05	3.5
18	8.62		0.05	0.04	0.09	0.04	0.12	0.04	0.06	3.2
19	4.61		0.04	0.05	0.04	0.05	0.04	0.04	0.04	3.4
20	6.60		0.04	0.04	0.04	0.05	0.04	0.05	0.04	3.5
21	6.59		0.04	0.06	0.04	0.06	0.04	0.06	0.05	3.1
22	6.88		0.05	0.07	0.04	0.09	0.05	0.12	0.07	3.4
23	6.72		0.05	0.04	0.05	0.04	0.05	0.04	0.05	2.7
24	5.46		0.05	0.04	0.05	0.04	0.05	0.05	0.05	2.7
25	5.70		0.05	0.05	0.05	0.04	0.06	0.05	0.05	2.7
26	5.75		0.06	0.04	0.06				0.06	2.7
27										
28										
29										
30										
Ave.	8.64								0.05	2.7

\*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 = 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) 0.086

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

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

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Signature:

*Greg W. Bascall*

Date:

5/9/2024

