



BRACEWELL ENGINEERING, INC.

155 MAST STREET, UNIT 114, MORGAN HILL, CA 95037

(669) 258-5820 FAX (408) 498-7045

www.bracewellengineering.com

June 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: May 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 3.1 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					
5/1/2024			N		27	-	-
5/2/2024			N		27	-	-
5/3/2024			N		27	-	-
5/4/2024			N		27	-	-
5/5/2024			N		27	-	-
5/6/2024			N		27	-	-
5/7/2024	KB	900	N	14.41	27	-	-
5/8/2024			N		261	-	-
5/9/2024			N		261	-	-
5/10/2024	KB	1200	Y	14.43	261	23,533	-
5/11/2024			Y		27,502	23,533	3,667
5/12/2024			N		27,502	-	3,667
5/13/2024	KB	900	Y	14.62	27,502	23,533	3,667
5/14/2024			Y		65,055	55,150	8,300
5/15/2024	KB	1045	Y	13.12	65,055	55,150	8,300
5/16/2024			Y		62,141	52,150	8,350
5/17/2024	KB	945	Y	14.32	62,141	52,150	8,350
5/18/2024			Y		47,072	40,300	5,567
5/19/2024			Y		47,072	40,300	5,567
5/20/2024	KB	1100	Y	13.74	47,072	40,300	5,567
5/21/2024			Y		63,828	54,400	8,400
5/22/2024	KB	1100	Y	14.20	63,828	54,400	8,400
5/23/2024			Y		7,326	22,150	800
5/24/2024			N		7,326	-	800
5/25/2024			N		7,326	-	800
5/26/2024			N		7,326	-	800
5/27/2024			N		7,326	-	800
5/28/2024			N		7,326	-	800
5/29/2024	KB	1200	Y	14.57	7,326	22,150	800
5/30/2024			Y		60,135	51,150	8,350
5/31/2024	KB	930	Y	14.28	60,135	51,150	8,350

Min				13.12	27	0	0
Max				14.62	65,055	55,150	8,400
Average				14.19	25,106	21,339	3,229
Total					778,286	661,500	100,100

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Water Resources Control Board
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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							
5/1/2024							
5/2/2024							
5/3/2024							
5/4/2024							
5/5/2024							
5/6/2024							
5/7/2024							
5/8/2024							
5/9/2024							
5/10/2024	8.0	0.09	14.7	1.30	7.92	0.23	15.2
5/11/2024							
5/12/2024							
5/13/2024	7.7	0.08	15.4	2.50	7.75	0.19	14.9
5/14/2024							
5/15/2024	7.8	0.08	15.5	2.45			
5/16/2024							
5/17/2024	7.9	0.10	15.7	2.38			
5/18/2024							
5/19/2024							
5/20/2024	7.7	0.08	15.8	1.99			
5/21/2024							
5/22/2024	7.8	0.08	15.7	1.85	7.75	0.13	15.3
5/23/2024							
5/24/2024							
5/25/2024							
5/26/2024							
5/27/2024							
5/28/2024							
5/29/2024	7.8	0.16	16.2	1.70	7.80	0.14	17.8
5/30/2024							
5/31/2024	7.9	0.09	17.5	2.34			

Min	7.7	0.08	14.7	1.30	7.75	0.13	14.9
Max	8.0	0.16	17.5	2.50	7.92	0.23	17.8
Average	7.8	0.09	15.8	2.06	7.81	0.17	15.8
Total							

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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				
5/1/2024					
5/2/2024					
5/3/2024	KB	22	14.8	7.88	0.67
5/4/2024					
5/5/2024					
5/6/2024					
5/7/2024					
5/8/2024					
5/9/2024					
5/10/2024	KB	15.8	15.2	8.01	1.22
5/11/2024					
5/12/2024					
5/13/2024					
5/14/2024					
5/15/2024					
5/16/2024					
5/17/2024	KB	23	15.7	8.1	1.34
5/18/2024					
5/19/2024					
5/20/2024					
5/21/2024					
5/22/2024	KB	29.2	15.3	7.9	1.29
5/23/2024					
5/24/2024					
5/25/2024					
5/26/2024					
5/27/2024					
5/28/2024					
5/29/2024					
5/30/2024					
5/31/2024	KB	27.5	16.8	7.93	1.49

Min		15.8	14.8	7.88	0.67
Max		29.2	16.8	8.10	1.49
Average		23.5	15.6	7.96	1.20
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	
5/1/2024		
5/2/2024		
5/3/2024		
5/4/2024		
5/5/2024		
5/6/2024		
5/7/2024		
5/8/2024		
5/9/2024		
5/10/2024	KB	0.52
5/11/2024		
5/12/2024		
5/13/2024		
5/14/2024		
5/15/2024	KB	1.09
5/16/2024		
5/17/2024		
5/18/2024		
5/19/2024		
5/20/2024		
5/21/2024	KB	0.91
5/22/2024		
5/23/2024		
5/24/2024		
5/25/2024		
5/26/2024		
5/27/2024		
5/28/2024		
5/29/2024		
5/30/2024		
5/31/2024	KB	1.21

Min		0.52
Max		1.21
Average		0.93
Total		

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Date	RW - Flow (gal/d): calculation	TW - Flow (gal/d): calculation	BW - Flow (gal/d): calculation
2022	291,637	19,843	3,443
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
2023	13,176	12,295	1,574
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
2024	7,461	6,560	948
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	25,106	21,339	3,229
Jun	3,959	3,393	467
Jul	0	0	0
Aug	0	0	0
Sep	0	0	0
Oct	0	0	0
Nov	0	0	0
Dec	0	0	0
Average	104,575	12,874	1,984

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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
2022	26	15	1.00
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
2023	21	15	0.80
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
2024	21	14	1
Jan	24	12	1
Feb	17	13	1
Mar	20	13	1
Apr	19	15	2
May	24	16	1
Jun			
Jul			
Aug			
Sep			
Oct			
Nov			
Dec			
Average	23	15	0.95

LHW

May

La Honda Water System (W4100509)

CHLORINE RESIDUAL	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	APN 083-240-070 (No site address)	AA07698	5/21/24	0.91	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	AA07697	5/21/24	235.9	MPN/100mL		SM9223B-18 (MPN)	1.0	1.0	Other
COLIFORM PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	APN 083-240-070 (No site address)	AA07698	5/21/24	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	AA07697	5/21/24	18.7	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
	APN 083-240-070 (No site address)	AA07698	5/21/24	A	P/A		SM9223B-18			Routine
UV254	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA07786	5/9/24	76.2	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA07846	5/17/24	84.3	1/cm		SM 5910B			
	Alpine Creek - Raw Water	AA07879	5/21/24	85.3	1/cm		SM 5910B			
			HIGH 85.30	AVG 81.93	LOW 76.20					
	Treated Water	AA07787	5/9/24	99.3	1/cm		SM 5910B			
	Treated Water	AA07847	5/17/24	93.2	1/cm		SM 5910B			
	Treated Water	AA07880	5/21/24	80.2	1/cm		SM 5910B			
			HIGH 99.30	AVG 90.90	LOW 80.20					
UV254 PERF	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	Alpine Creek - Raw Water	AA07913	5/29/24	83.2	1/cm		SM 5910B			
	Treated Water	AA07914	5/29/24	90.0	1/cm		SM 5910B			

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

Date of Report: June 05, 2024

Laboratory: BEI Analytical Laboratory (ELAP 3019)

Report Period: May, 2024

System Name: **La Honda Water System**

System Number: **CA4100509**

Collection Date	Site Name	Analyte	Sample Type	Result	Remarks	Sampler
5/21/2024	Alpine Creek - Raw Water	Coliform	Other	235.9	SM9223B-18 (MPN)	Keefe Brennan
5/21/2024	Alpine Creek - Raw Water	E. Coli	Other	18.7	SM9223B-18 (MPN)	Keefe Brennan
5/21/2024	APN 083-240-070 (No site address)	COLIFORM	Routine	A	SM9223B-18	Keefe Brennan
5/21/2024	APN 083-240-070 (No site address)	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: May 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										
4										
5										
6										
7										
8										
9										
10	5.53					0.09	0.07	0.07	0.07	3.1
11	4.89		0.07	0.07	0.08	0.07	0.10		0.08	3.2
12										
13	3.77					0.06	0.08	0.06	0.07	3.6
14	4.11		0.08	0.07	0.08	0.07	0.09	0.06	0.07	3.8
15	4.51		0.09	0.07	0.10	0.07	0.12	0.07	0.09	3.8
16	5.95		0.14	0.07	0.13	0.07	0.12	0.07	0.10	3.6
17	7.16		0.07	0.07	0.06	0.08	0.07	0.07	0.07	3.6
18	3.14		0.07					0.07	0.07	3.5
19	3.19		0.08	0.07	0.08	0.07	0.08	0.07	0.07	3.6
20	2.80		0.08	0.07	0.08	0.07	0.09	0.07	0.08	3.4
21	2.85		0.09	0.07	0.10	0.07	0.12	0.08	0.09	3.4
22	2.75		0.14	0.08	0.17	0.08	0.12	0.07	0.11	3.4
23	2.50			0.07					0.07	3.3
24										
25										
26										
27										
28										
29	4.85					0.07	0.08	0.08	0.08	3.9
30	3.69		0.09	0.08	0.09	0.08	0.11	0.08		3.8
31	3.77		0.11	0.08	0.14	0.08	0.17	0.08		4.1
Ave.	4.09								0.08	3.1

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

Total No. of Samples: 77 No. of Readings ≤ 0.3 NTU: 77

% 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 = 98%

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) 0.140

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

Signature: *Logan B. Baccus*
 Date: 6/10/2024

