



BRACEWELL ENGINEERING, INC.

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November 9, 2023

Ms. Van Tsang
State Water Resources Control Board-Division of Drinking Water
850 Marina Bay Parkway, Building P, 2nd Floor
Richmond, CA 94804

Re: October 2023 Monthly Report to the Office of Drinking Water
La Honda Water System (County Service Area No. 7), No. CA4100509

Dear Ms. Tsang:

Attached are the Monthly Summary of Distribution System Coliform Monitoring and the Monthly Summary of Monitoring for Surface Water Treatment Regulations for the La Honda Water System.

- Boil Water Notices were issued due to water main breaks and outages on 10/3/2023, 10/14/2023, and 10/24/2023. DDW approved Cancellation Notices were distributed after the repairs, flushing and sampling were completed.
 - Extra coliform samples were collected, and they all showed an absence of total coliforms and E. coli.
- 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 3.2 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.

Lloyd W. Bracewell, PhD., RCE
Water System Engineer

cc: San Mateo County, CSA #7
BEI Office

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					
10/1/2023			N		8,765	-	800
10/2/2023	KB	1430	Y	14.83	8,765	27,000	800
10/3/2023			Y		9,811	8,850	1,400
10/4/2023	KB	1440	Y	13.90	9,811	8,850	1,400
10/5/2023			Y		45,242	40,350	4,200
10/6/2023	KB	1330	Y	13.18	45,242	40,350	4,200
10/7/2023			Y		4,688	33,767	471
10/8/2023			Y		4,688	33,767	471
10/9/2023			N		4,688	-	471
10/10/2023			N		4,688	-	471
10/11/2023			N		4,688	-	471
10/12/2023			N		4,688	-	471
10/13/2023			N		4,688	-	471
10/14/2023			N		4,688	-	471
10/15/2023			N		4,688	-	471
10/16/2023			N		4,688	-	471
10/17/2023			N		4,688	-	471
10/18/2023			N		4,688	-	471
10/19/2023			N		4,688	-	471
10/20/2023			N		4,688	-	471
10/21/2023			N		4,688	-	471
10/22/2023			N		4,688	-	471
10/23/2023			N		4,688	-	471
10/24/2023			N		4,688	-	471
10/25/2023			N		4,688	-	471
10/26/2023			N		4,688	-	471
10/27/2023			N		4,688	-	471
10/28/2023			N		4,688	-	471
10/29/2023			N		4,688	-	471
10/30/2023	KB	1330	Y	12.84	4,688	33,767	471
10/31/2023			Y		58,588	49,400	4,600

Min	-	1330	-	12.84	4,688	-	471
Max	-	1440	-	14.83	58,588	49,400	4,600
Average				13.69	9,636	8,906	926
Total					298,725	276,100	28,700

La Honda Water System (CSA No. 7)
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WATER SYSTEM MONITORING REPORT

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

Location	Contact Pipe	Contact Pipe	Contact Pipe
Parameter	pH	Turbidity	Temp
frequency	weekly	weekly	weekly
Units	units	ntu	C
Type	Grab	Grab	Grab
High Limit			
Low Limit			
Date			
10/1/2023			
10/2/2023	7.75	0.14	17.7
10/3/2023			
10/4/2023			
10/5/2023			
10/6/2023			
10/7/2023			
10/8/2023			
10/9/2023			
10/10/2023			
10/11/2023			
10/12/2023			
10/13/2023			
10/14/2023			
10/15/2023			
10/16/2023			
10/17/2023			
10/18/2023			
10/19/2023			
10/20/2023			
10/21/2023			
10/22/2023			
10/23/2023			
10/24/2023			
10/25/2023			
10/26/2023			
10/27/2023			
10/28/2023			
10/29/2023			
10/30/2023	7.89	0.11	16.3
10/31/2023			

Min	7.75	0.11	16.30
Max	7.89	0.14	17.70
Average	7.82	0.13	17.00
Total			

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WATER SYSTEM MONITORING REPORT

Water Resources Control Board
 Division of Drinking Water
 850 Marina Bay Parkway, Bldg P
 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				
10/1/2023					
10/2/2023					
10/3/2023					
10/4/2023	KB	24.3	18.7	8.3	0.88
10/5/2023					
10/6/2023					
10/7/2023					
10/8/2023					
10/9/2023					
10/10/2023					
10/11/2023	KB	27.8	18.3	8.23	0.67
10/12/2023					
10/13/2023					
10/14/2023					
10/15/2023					
10/16/2023					
10/17/2023					
10/18/2023	KB	21.7	17.7	8.33	0.59
10/19/2023					
10/20/2023					
10/21/2023					
10/22/2023					
10/23/2023					
10/24/2023					
10/25/2023					
10/26/2023					
10/27/2023	KB	16.1	16.9	8.39	0.46
10/28/2023					
10/29/2023					
10/30/2023					
10/31/2023					

Min	-	16.1	16.9	8.23	0.46
Max	-	27.8	18.7	8.39	0.88
Average		22.5	17.9	8.31	0.65
Total					

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WATER SYSTEM MONITORING REPORT

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

Location		Routine Sample Site
Parameter		Cl2 Residual
frequency		as needed
units		mg/L
Type		grab
High Limit		
Low Limit		
Date	Oper. Initials	
10/1/2023		
10/2/2023		
10/3/2023		
10/4/2023	KB	0.77
10/5/2023		
10/6/2023		
10/7/2023		
10/8/2023		
10/9/2023		
10/10/2023		
10/11/2023	KB	1.09
10/12/2023		
10/13/2023		
10/14/2023		
10/15/2023		
10/16/2023		
10/17/2023		
10/18/2023	KB	0.69
10/19/2023		
10/20/2023		
10/21/2023		
10/22/2023		
10/23/2023		
10/24/2023		
10/25/2023		
10/26/2023		
10/27/2023	KB	0.46
10/28/2023		
10/29/2023		
10/30/2023		
10/31/2023		

Min	-	0.46
Max	-	1.09
Average		0.75
Total		

LHW

October

La Honda Water System (W4100509)

CHLORINE RESIDUAL	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	1 Memory	AA05894	10/3/23	0.7	mg/L		SM 4500-CI G		0.02	
	1 Memory	AA05956	10/18/23	0.2	mg/L		SM 4500-CI G		0.02	
			HIGH 0.70	AVG 0.45	LOW 0.20					
	11043 Alpine Rd	AA05895	10/3/23	1.0	mg/L		SM 4500-CI G		0.02	
	11043 Alpine Rd	AA05957	10/18/23	0.2	mg/L		SM 4500-CI G		0.02	
			HIGH 1.00	AVG 0.60	LOW 0.20					
	13460 Pescadero Creek	AA05958	10/18/23	1.8	mg/L		SM 4500-CI G		0.02	
	13460 Pescadero Creek	AA06030	10/27/23	0.3	mg/L		SM 4500-CI G		0.02	
		AA06031	10/26/23	1.8	mg/L		SM 4500-CI G		0.02	
			HIGH 1.80	AVG 1.30	LOW 0.30					
	14251 Pescadero Road	AA05896	10/3/23	1.0	mg/L		SM 4500-CI G		0.02	
	14251 Pescadero Road	AA05959	10/18/23	0.3	mg/L		SM 4500-CI G		0.02	
			HIGH 1.00	AVG 0.65	LOW 0.30					
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA05897	10/3/23	1.1	mg/L		SM 4500-CI G		0.02	
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA05960	10/18/23	0.4	mg/L		SM 4500-CI G		0.02	
			HIGH 1.10	AVG 0.75	LOW 0.40					
	APN 240070	AA05757	10/11/23	0.2	mg/L		SM 4500-CI G		0.02	
	Old Chlorination Station- Sam McDonald Park	AA05898	10/3/23	0.4	mg/L		SM 4500-CI G		0.02	
	Old Chlorination Station- Sam McDonald Park	AA05961	10/18/23	0.5	mg/L		SM 4500-CI G		0.02	
			HIGH 0.50	AVG 0.45	LOW 0.40					

COLIFORM MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	ALPINE CREEK - RAW	AA05756	10/11/23	>2419.6	MPN/100mL		SM9223B-18		1.0	

COLIFORM PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	1 Memory	AA05894	10/3/23	A	P/A		SM9223B-18			
	1 Memory	AA05956	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	11043 Alpine Rd	AA05895	10/3/23	A	P/A		SM9223B-18			
	11043 Alpine Rd	AA05957	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	13460 Pescadero Creek	AA05958	10/18/23	A	P/A		SM9223B-18			
	13460 Pescadero Creek	AA06030	10/27/23	A	P/A		SM9223B-18			
		AA06031	10/26/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	14251 Pescadero Road	AA05896	10/3/23	A	P/A		SM9223B-18			
	14251 Pescadero Road	AA05959	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA05897	10/3/23	A	P/A		SM9223B-18			

October

400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA05960	10/18/23	A	P/A	SM9223B-18
		HIGH	AVG	LOW	
APN 240070	AA05757	10/11/23	A	P/A	SM9223B-18
Old Chlorination Station- Sam McDonald Park	AA05898	10/3/23	A	P/A	SM9223B-18
Old Chlorination Station- Sam McDonald Park	AA05961	10/18/23	A	P/A	SM9223B-18
		HIGH	AVG	LOW	

E COLI MPN	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	ALPINE CREEK - RAW	AA05756	10/11/23	22.3	MPN/100mL		SM9223B-18		1.0	

E COLI PA	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	1 Memory	AA05894	10/3/23	A	P/A		SM9223B-18			
	1 Memory	AA05956	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	11043 Alpine Rd	AA05895	10/3/23	A	P/A		SM9223B-18			
	11043 Alpine Rd	AA05957	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	13460 Pescadero Creek	AA05958	10/18/23	A	P/A		SM9223B-18			
	13460 Pescadero Creek	AA06031	10/26/23	A	P/A		SM9223B-18			
		AA06030	10/27/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	14251 Pescadero Road	AA05896	10/3/23	A	P/A		SM9223B-18			
	14251 Pescadero Road	AA05959	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA05897	10/3/23	A	P/A		SM9223B-18			
	400 Ranch Rd. La Honda - Glenwood Boy's Ranch	AA05960	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					
	APN 240070	AA05757	10/11/23	A	P/A		SM9223B-18			
	Old Chlorination Station- Sam McDonald Park	AA05898	10/3/23	A	P/A		SM9223B-18			
	Old Chlorination Station- Sam McDonald Park	AA05961	10/18/23	A	P/A		SM9223B-18			
			HIGH	AVG	LOW					

IRON	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	ALPINE CREEK - RAW	AA05760	10/11/23	1360	µg/L		EPA 200.7	10	30	

NITRATE	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	ALPINE CREEK - RAW	AA05761	10/11/23	0.4	mg/L as N	10	SM 4500-NO3-D	0.08	0.40	

UV254	SAMPLE POINT	SAMPLE ID	DATE	RESULT	UNIT	LIMIT	METHOD	DL	RL	TYPE
	ALPINE CREEK - RAW	AA05856	10/4/23	0.087	Abs/Tran		SM 5910B			
	ALPINE CREEK - RAW	AA05921	10/11/23	0.040	Abs/Tran		SM 5910B			

October

La Honda Water System (W4100509)

ALPINE CREEK - RAW	AA05947	10/18/23	0.090	Abs/Tran	SM 5910B
		HIGH 0.09	AVG 0.07	LOW 0.04	
TREATMENT PLANT - TREATED	AA05857	10/4/23	0.040	Abs/Tran	SM 5910B
TREATMENT PLANT - TREATED	AA05922	10/11/23	0.149	Abs/Tran	SM 5910B
TREATMENT PLANT - TREATED	AA05948	10/18/23	0.010	Abs/Tran	SM 5910B
		HIGH 0.15	AVG 0.07	LOW 0.01	

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

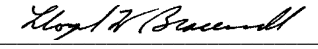
Date of Report: 11/9/2023

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

System Number: CA4100509

Laboratory: BEI Analytical Laboratory

Elap No: 3019

Signature of Lab Director: 

Report Period from: 10/1/2023 to 10/31/2023

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
10/11/2023			APN 240070	1	A	A	SM 9223B-18
10/11/2023			Alpine Creek Raw Water	4	>2419.6	22.3	SM 9223 B-18 (MPN)
10/3/2023			1 MEMORY	4	A	A	SM 9223B-18
10/3/2023			11043 ALPINE RD	4	A	A	SM 9223B-18
10/3/2023			14251 PESCADERO	4	A	A	SM 9223B-18
10/3/2023			400 RANCH	4	A	A	SM 9223B-18
10/3/2023			OLDCL2STA	4	A	A	SM 9223B-18
10/4/2023			OLDCL2STA	4	A	A	SM 9223B-18
10/4/2023			400 RANCH	4	A	A	SM 9223B-18
10/4/2023			14251 PESCADERO	4	A	A	SM 9223B-18
10/4/2023			11043 ALPINE RD	4	A	A	SM 9223B-18
10/4/2023			1 MEMORY	4	A	A	SM 9223B-18
10/18/2023			1 MEMORY	4	A	A	SM 9223B-18
10/18/2023			11043 ALPINE RD	4	A	A	SM 9223B-18
10/18/2023			13460 PESCCR	4	A	A	SM 9223B-18
10/18/2023			14251 PESCADERO	4	A	A	SM 9223B-18
10/18/2023			400 RANCH	4	A	A	SM 9223B-18
10/18/2023			OLDCL2STA	4	A	A	SM 9223B-18
10/19/2023			OLDCL2STA	4	A	A	SM 9223B-18
10/19/2023			400 RANCH	4	A	A	SM 9223B-18
10/19/2023			14251 PESCADERO	4	A	A	SM 9223B-18
10/19/2023			13460 PESCCR	4	A	A	SM 9223B-18
10/19/2023			11043 ALPINE RD	4	A	A	SM 9223B-18
10/19/2023			1 MEMORY	4	A	A	SM 9223B-18
10/26/2023			13460 PESCCR	4	A	A	SM 9223B-18
10/27/2023			13460 PESCCR	4	A	A	SM 9223B-18

1 = Routine

P = Present

2 = Repeat

A = Absent

3 = Replacement

4 = Other

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: October Year: 2023

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	4.97						0.05		0.05	3.2
4	4.52						0.05	0.05	0.05	3.8
5	5.16		0.05	0.06	0.05	0.06	0.05	0.04	0.05	3.6
6	1.13		0.06			0.04	0.04		0.05	3.2
7	1.28		0.05	0.04	0.04	0.05	0.05	0.04	0.05	4.5
8	1.21		0.05	0.05	0.05				0.05	4.1
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30	0.74						0.05	0.05		3.8
31	0.97		0.08	0.05	0.05		0.05	0.05		4.4
Ave.	2.50								0.05	3.2

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

Total No. of Samples: 28 No. of Readings ≤ 0.3 NTU: 28

% 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) 0.062

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)
1/28/2022	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
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

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

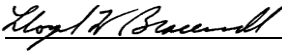
General Complaints

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: 11/9/2023

