

November 10, 2021

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

Re: October 2021 Monthly Report to the Office of Drinking Water La Honda Water System (County Service Area No. 7), No. W4100509

Dear Mr. Lacy:

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. 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.

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

Respectfully submitted, BRACEWELL ENGINEERING, INC.

Llog / V Bracendo

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

cc: San Mateo County, CSA #7 BEI Office

La Honda Wa 555 County Redwood Cit System No.	ter System (CS Center, 5th F1 y, CA 94063 4100509	WATER SYSTEM MO A No. 7) oor	NITORING REPORT Water R Divisio 850 Mar Richmon	esources Control n of Drinking Wa ina Bay Parkway, d, CA 98804	Board ter Bldg P					
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
10/01/21 10/02/21 10/03/21 10/04/21 10/05/21 10/06/21 10/07/21 10/08/21 10/09/21 10/10/21	0 0 31100 31100 21200 21200 21200 0 0	16.6 16.6 16.6 16.6 16.6	7.68 7.82 7.48 7.74 7.71	1.70 1.72 1.65 1.90 2.05	47.88 48.45 46.47 53.52 57.74	16.5 17.3 15.3 17.1 17.1	2.9 2.8 3.0 3.1 3.4	0.02 0.02 0.02 0.02 0.02 0.02	0.54 0.32 0.30 0.31 0.31	KB
10/11/21 10/12/21 10/13/21 10/14/21 10/16/21 10/16/21 10/17/21 10/18/21 10/19/21 10/20/21 10/21/21 10/21/21	0 51100 20067 20067 20067 0	14.0 14.0 14.0 14.0	7.52 7.55 7.46 7.98	1.65 1.42 1.68 1.25	46.47 40.00 47.32 35.21	18.6 18.4 18.2 20.9	2.5 2.2 2.6 1.7	0.02 0.07 0.02 0.02	0.69 0.39 0.36 0.37	KB
10/17/21 10/18/21 10/19/21 10/20/21 10/21/21 10/22/21 10/23/21 10/23/21	0 26620 26620 26620 26620 26620 0 0 0	14.3 14.3 14.3 14.3 14.3	7.84 7.48 7.75 7.85 7.93	2.07 1.74 1.66 1.12 1.36	58.30 49.01 46.76 31.55 38.31	21.1 18.1 19.8 19.3 20.4	2.8 2.7 2.4 1.6 1.9	0.02 0.02 0.02 0.13 0.03	1.04 0.44 1.22 4.15	KB
10/21/21 10/23/21 10/23/21 10/25/21 10/25/21 10/26/21 10/27/21 10/28/21 10/29/21 10/30/21 10/31/21	0 26650 26650 32200 32200 32200	14.9 14.9 14.9 14.9 14.9	7.84 7.78 7.77 7.43 8.05	1.27 1.72 1.57 1.96 2.45	35.77 48.45 44.22 55.21 69.01	18.8 19.2 18.9 17.3 22.2	1.9 2.5 2.3 3.2 3.1	0.02 0.06 0.06 0.05 0.05 0.06	15.38 1.59 1.55 1.11 1.03	KB
Average: High: Low: Total:	16777 51100 0 520101	15.0 16.6 14.0	7.72 8.05 7.43	1.68 2.45 1.12	47.35 69.01 31.55	18.7 22.2 15.3	2.6 3.4 1.6	0.04 0.13 0.02	1.73 15.38 0.30	
Method: Limit1: Over/Total:		SM2550B	SM4500-H+ B	SM4500-C1 G mn d >= 0.20 0/19			mn d >= 1.0 0/19	SM2130B mx d <= 0.3 0/19	SM2130B	

La Honda W 555 County Redwood Ci System No.	ater System (C Center, 5th F ty, CA 94063 4100509	WATER SYSTEM SA No. 7) loor	Wate Divi 850	PORT er Resources Cc ision of Drink ⁻¹ Marina Bay Par umond, CA 98804	ontrol Board ing Water rkway, Bldg P 4						
Date 10/01/21	Raw Water SAMPL TYPE TYPE observation as needed	Raw Water COLIFORM MPN/100mL grab monthly	Raw Water E. COLI MPN/100mL grab monthly	APN 240070 SAMPL TYPE TYPE observation Mar/May/Oct	APN 240070 COLIFORM pres./abs. grab Mar/May/Oct	APN 240070 E. COLI pres./abs. grab Mar/May/Oct	APN 240070 CL2 RESID mg/L grab Mar/May/Oct	OldCl2Sta SAMPL TYPE TYPE observation Apr/Jun/Nov due 11/21	OldCl2Sta COLIFORM pres./abs. grab Apr/Jun/Nov due 11/21	OldCl2Sta E. COLI pres./abs. grab Apr/Jun/Nov due 11/21	OldCl2Sta CL2 RESID mg/L grab Apr/Jun/Nov due 11/21
10/02/21 10/03/21 10/05/21 10/06/21 10/06/21 10/08/21 10/09/21 10/10/21 10/11/21 10/12/21 10/13/21 10/13/21 10/15/21 10/16/21 10/17/21 10/17/21											
10/10/21 10/11/21 10/12/21 10/13/21 10/14/21 10/15/21 10/15/21 10/16/21 10/18/21 10/19/21 10/20/21 10/22/21 10/23/21 10/25/21 10/26/21 10/26/21 10/27/21 10/28/21 10/29/21 10/30/21 10/31/21	Other	186.0	6.3	Routine	Absence	Absence	1.03				
Average: High: Low: DL/RL: Method:		186.0 186.0 186.0 1.0/1.0 SM9223 B-18	6.3 6.3 6.3 1.0/1.0 SM9223 B-18		0 0 SM9223B-18	0 0 0 SM9223B-18	1.03 1.03 1.03 SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1: Over/Total	:				mx d < 1 0/1	mx d < 1 0/1	mn d >= 0.05 0/1		mx d < 1 0/0	mx d < 1 0/0	mn d >= 0.05 0/0

La Honda Wa 555 County Redwood Ci1 System No.	ater System (CS Center, 5th Fl ty. CA 94063	A No. 7)	NITORING REPORT Water R Divisio 850 Mar Richmon	esources Contro n of Drinking Wa ina Bay Parkway d, CA 98804	l Board ater , Bldg P					
Station: Test: Units: Type: Frequency:	251 PescCr SAMPL TYPE TYPE observation Jul/Dec	251 PescCr COLIFORM pres./abs. grab Jul/Dec	251 PescCr E. COLI pres./abs. grab Jul/Dec	251 PescCr CL2 RESID mg/L grab Jul/Dec	460 Pescdr SAMPL TYPE TYPE observation Jan/Aug	460 Pescdr COLIFORM pres./abs. grab Jan/Aug	460 Pescdr E. COLI pres./abs. grab Jan/Aug	460 Pescdr CL2 RESID mg/L grab Jan/Aug	Raw Water ALUMINUM ug/L grab every 12 mo	TreatedWtr ALUMINUM ug/L grab every 3 mo
Date 10/01/21 10/02/21 10/03/21 10/05/21 10/06/21 10/08/21 10/08/21 10/10/21 10/10/21 10/11/21 10/12/21 10/14/21 10/15/21 10/16/21 10/15/21 10/16/21 10/16/21 10/22/21 10/22/21 10/22/21 10/22/21 10/25/21 10/26/21 10/26/21 10/28/21 10/29/21 10/30/21 10/31/21	due 12/21	due 12/21	due 12/21	due 12/21	due 01/22	due 01/22	due 01/22	due 01/22	due 07/22	due 11/21
Average: High: Low: DL/RL: Method:		SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G	10/5 EPA 200.8	10/5 EPA 200.8
Limitl: Over/Total	:	mx d < 1 0/0	mx d < 1 0/0	mn d >= 0.05 0/0		mx d < 1 0/0	mx d < 1 0/0	mn d >= 0.05 0/0		

La Honda Wa 555 County Redwood Ci1 System No.	ater System (CS Center, 5th Fl cy. CA 94063	A No. 7)	Divisic 850 Mar	Resources Contro on of Drinking W ina Bay Parkway d, CA 98804	later			
Station: Test: Units: Type: Frequency: Date	400 Ranch SAMPL TYPE TYPE observation Feb/Sep	400 Ranch COLIFORM pres./abs. grab Feb/Sep	400 Ranch E. COLI pres./abs. grab Feb/Sep	400 Ranch CL2 RESID mg/L grab Feb/Sep	LaHondaRd SAMPL TYPE TYPE observation as needed	LaHondaRd COLIFORM pres./abs. grab as needed	LaHondaRd E. COLI pres./abs. grab as needed	LaHondaRd CL2 RESID mg/L grab as needed
10/01/21 10/02/21 10/03/21 10/06/21 10/06/21 10/06/21 10/07/21 10/08/21 10/10/21 10/11/21 10/12/21 10/12/21 10/13/21 10/16/21 10/15/21 10/16/21 10/15/21 10/16/21 10/22/21 10/22/21 10/22/21 10/22/21 10/22/21 10/22/21 10/22/21 10/26/21 10/26/21 10/26/21 10/26/21 10/28/21 10/29/21 10/30/21 10/31/21	due 02/22	due 02/22	due 02/22	due 02/22				
Average: High: Low:								
Method:		SM9223B-18	SM9223B-18	SM4500-C1 G		SM9223B-18	SM9223B-18	SM4500-C1 G
Limit1: Over/Total		mx d < 1 0/0	mx d < 1 0/0	mn d >= 0.05 0/0		mx d < 1 0/0	mx d < 1 0/0	mn d >= 0.05 0/0

555 County	ater System (CS Center, 5th Fl cy. CA 94063		Water R Divisio 850 Mar	esources Contro n of Drinking W ina Bay Parkway d, CA 98804	ater		
Station: Test: Units: Type: Frequency: Date	LHW OPERATOR units observation as needed	LHW ACTIONS comments observation as needed	Raw Water PH std units grab weekly	Raw Water ALKALINITY mg/L-CaCO3 grab as needed	Raw Water IRON ug/L grab every 3 mo	TreatedWtr IRON ug/L grab every 3 mo	Raw Water NITRATE-N mg/L grab every 3 mo
10/01/21 10/02/21 10/03/21	КВ				due 11/21	due 11/21	
10/04/21 10/05/21 10/06/21	KB KB		8.32				< 0.4
10/07/21 10/08/21 10/09/21 10/10/21	KB						
10/11/21 10/12/21 10/13/21 10/14/21 10/15/21 10/15/21	KB KB		8.46				
10/17/21 10/18/21 10/19/21	KB		8.23				
10/20/21 10/21/21 10/22/21	KB KB						
10/23/21 10/24/21 10/25/21	ND						
10/26/21 10/27/21 10/28/21 10/29/21	KB KB		8.29				
10/29/21 10/30/21 10/31/21	ND						
Average: High: Low: DL/RL: Method:			8.32 8.46 8.23 SM4500-H+ B	3/2 SM2320B	20/20 EPA 200.8	20/10 EPA 200.8	< 0.4 < 0.4 < 0.4 0.03/0.4 SM4500-NO3 D
Limit1: Over/Total:							mx d <= 10 0/1

La Honda Wa 555 County Redwood Cit System No.	ter System (CS, Center, 5th Fl y, CA 94063	WATER SYSTEM MON A No. 7) oor	Water R Divisio 850 Mar	esources Control Board n of Drinking Water ina Bay Parkway, Bldg P d, CA 98804
Station: Test: Units: Type: Frequency: Date 10/01/21 10/02/21 10/03/21 10/06/21 10/06/21 10/06/21 10/08/21 10/08/21 10/10/21 10/10/21 10/12/21 10/13/21 10/15/21 10/15/21 10/15/21 10/15/21 10/15/21 10/15/21 10/22/21 10/22/21 10/22/21 10/22/21 10/28/21 10/28/21 10/28/21 10/28/21	10875 Alp SAMPL TYPE observation as needed	10875 Alp CL2 RESID mg/L grab as needed	10875 Alp COLIFORM pres./abs. grab as needed	10875 Alp E. COLI pres./abs. grab as needed
10/20/21 10/30/21 10/31/21	other	1.14	Absence	Absence
Average: High: Low:		1.14 1.14 1.14	0 0 0	0 0 0
Method:		SM4500-C1 G	SM9223B-18	SM9223B-18
Limit1: Over/Total:		mn d >= 0.05 0/1	mx d < 1 0/1	mx d < 1 0/1

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

Date of Repo	ort:	11/10/2021		System Name:	La Honda Water System (CSA #7)		System Nur		
Laboratory:	Laboratory: BEI Analytical Laboratory				3019		Signature o	f Lab Directo	or: Klog 1 & Baund
Report Perio	d from:	10/1/2021	to	10/31/2021	Sampler: Keefe Brennan		Employed b	y: Bracewel	ll Engineering, Inc.
Collection Date	Laboratory Number	Bottle Number		Site N	ame or Street Address	Sample Type	Total Coliform	E. Coli	Remarks
10/19/2021			APN 240	070		1	А	А	SM 9223B-18
10/19/2021			Raw Wat	er		4	186	6.3	SM 9223 B-18 (MPN)
10/29/2021			10875 Al	pine		4	А	А	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: <u>4100509</u>

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

Month: October Year: 2021

Treated Water Turbidities Every Four Hours (NTU)*

	Peak Raw	Peak Settled		0400	0800	Noon	1600	2000	Average	Minimum
D.	Water	Water	to	to	to	to	to	to	Treated	Ct.
Date	Turbidity	Turbidity	0400	0800	Noon	1600	2000	Midnight	Water	Ratio
1										
2 3										
4	0.54					0.02	0.02		0.02	2.9
5	0.32					0.02	0.02	0.02	0.02	2.9
6	0.30		0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.0
3 7	0.31		0.02	0.02	0.02	0.02	0.02	0.02	0.02	3.1
8	0.31		0.02	0.02	0.02				0.02	3.4
9										
10										
11										
12	0.69				0.02	0.02	0.02	0.02	0.02	2.5
13	0.39		0.02	0.02	0.02	0.02	0.02		0.02	2.2
14	0.36					0.02	0.02	0.02	0.02	2.6
15	0.37		0.02						0.02	1.7
16										
17										
18	1.04					0.02	0.02	0.02	0.02	2.8
19	0.44		0.02	0.02	0.02	0.02	0.02	0.02	0.02	2.7
20							0.02	0.02	0.02	
21	1.22				0.02	0.02			0.02	1.6
22	4.15					0.02			0.02	1.9
23										
24										
25										
26										
27	15.38				0.02	0.02			0.02	1.9
28	1.59						0.05	0.05	0.05	2.5
29	1.55					0.06	0.06	0.03	0.05	2.3
30	1.11					0.04	0.04	0.04	0.04	3.2
31	1.03 1.73					0.05	0.04	0.04	0.04 0.02	3.1
Ave. *If a con	1./3 tinuous monitoring	turbidimeter is u	sed, determir	e discrete ti	urbidity valu	e for the sam	e times duri	ng each 24-hou		<u> </u>
	e	,	,					0	I	
Total N	lo. of Samples:		54		No. of Re	adings ≤ ().3 NTU:		54	
% Read	lings ≤ 0.3 NTU	= [(No. Readi	ngs ≤ 0.3 ľ	VTU) / (T	otal No. Sa	mples)] x	100 =		100%	
	Meets Standard	(i.e. more that	n 95% of re	adings ar	e ≤ 0.3 NT	U) (Y/N)?			Y	
Percent reduction during the month = $[(Average Raw NTU - Average Effluent NTU)] \times 100 = 99\%$										
(Average Raw NTU)										
	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): 0.050

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

	Which	Standard used	Date	Which	Standard Used
Date	Turbidimeter	(primary/secondary)		Turbidimeter	(primary/secondary)
5/17/2019	Hach, raw wtr	0/20 Formazin	5/17/2019	Hach, treated	0/20 Formazin
7/15/2019	Hach, raw wtr	0/20 Formazin	7/15/2019	Hach, treated	0/20 Formazin
10/17/2019	Hach, raw wtr	0/20 Formazin	10/17/2019	Hach, treated	0/20 Formazin
4/3/2020	Hach, raw wtr	0/20 Formazin	4/3/2020	Hach, treated	0/20 Formazin
7/2/2020	Hach, raw wtr	0/20 Formazin	7/2/2020	Hach, treated	0/20 Formazin
10/28/2020	Hach, raw wtr	0/20 Formazin	10/28/2020	Hach, treated	0/20 Formazin
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

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:
 Incident
 Incident
 Incident

 Date of Incident
 Incident
 Incident
 Incident
 Incident
 Incident

 Duration
 Incident
 Incident
 Incident
 Incident
 Incident
 Incident

 Date Dept. Notified
 Incidents where residual is < 0.2 ppm:</td>
 0
 Incidents
 Incident
 <

2
0
0

Compute V where V = [1 - (Total number of samples with no residual and/or HPC > 500) / (Total number of residual or d/or HPC samples collected) by 100

(Total number of residual and/or HPC samples collected)] x 100 =

Y

100%

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

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:

Hog 17 Brand 11/10/2021