

DDW FLUORIDATION REPORTING REQUIREMENTS

Please submit via email this completed form and attachments by September 1, 2025 to:
Local DDW office.

Water System Name: City of Huntington Beach Utilities

Water System Number: 3010053

Current number of Service Connections: 54,970

Population Served: 200,000

1. Year Fluoridation Began Early 1970's

2. Type(s) of fluoride used Hydrofluosilicic Acid

3. What were the actual Operation and Maintenance Costs for FY 2024/2025 (7/1/2024 thru 6/30/2025)? (Please attach Calculations) \$ 147,173

4. What are your anticipated Operation and Maintenance costs for the next fiscal year (7/1/2025 thru 6/30/2026)? (Please attach Calculations) \$ 150,755

{Note: This information can be submitted later (by January 1, 2024) if not yet available. This information is not required if system size is less than 10,000 connections}

5. What is your Optimal Fluoridation Range?

- Optimal Level = 0.7, Range = 0.6 – 1.2

6. On what date was the Optimal Fluoridation Range last calculated? 6/1/15

7. What is the date of your Fluoride Monitoring Plan? Revised June 2015; Attached copy from the Comprehensive WQ Monitoring Plan dated November 2018.

8. What is the date of your Operations Contingency Plan? June 2015

9. What is the Result and Date of your last raw water Fluoride Analysis?

Dates: 5/14/25, 5/15/25, 5/21/25 and 6/26/25 Results: See Attachment- D

Name of person submitting this report Kristen Schroeder

Email kristen.schroeder@surfcity-hb.org Phone (714) 960-8802

Signature  Title Water Quality Supervisor

Date 7/15/2025

- Past Operation and Maintenance Costs (Question 3 on first page)

See Attachment-A

For water systems that fluoridated the previous fiscal year (July 1 through June 30), the water supplier shall report the operations and maintenance costs for that year to the Department by August 1. (Section 64433.7(b), T22, CCR)

- Anticipated Operation and Maintenance Costs (Question 4 on first page)

See Attachment-B

Any public water system required to install a fluoridation system pursuant to subsection (a) or required to fluoridate pursuant to subsection (b) shall annually submit an estimate of anticipated fluoridation operations and maintenance costs for the next fiscal year (July 1 through June 30) to the Department by the January 1 preceding that fiscal year. (Section 64433(c), T22, CCR)

- Anticipated Optimal Fluoridation Range:

~Not included~ As of June 2015 Fluoride is no longer temperature-based

Any public water system that is fluoridating shall comply with the temperature-appropriate fluoride levels in Table 64433.2-A. The system shall determine, and submit to the Department, its annual average of maximum daily air temperatures based on the five calendar years immediately preceding the current calendar year. (Section 64433.2, T22, CCR)

- Monitoring Plan: (Question 7 on first page)

See Attachment-C

If a water system has a single fluoridation system which treats all the water distributed to consumers, the supplier shall collect a daily sample for fluoride analysis, pursuant to §64415(b), either in the distribution system or at the entry point. If a water system does not fluoridate all its water and/or has more than one fluoridation system, the supplier shall collect one sample daily in the distribution system and rotate the sample sites in order to be representative of the water throughout the distribution system according to a monitoring plan the Department has determined to be representative. (Section 64433.3(a), T22, CCR)

- Operations Contingency Plan: (Question 8 on first page)

See Attachment-C

Water systems fluoridating as of July 1, 1996 shall submit a fluoridation system operations contingency plan by July 1, 1998. All other water systems shall submit the plan at least three months before initiating fluoridation treatment. All fluoridating water systems shall operate in accordance with a fluoridation system operations contingency plan determined by the Department to include the elements in subsection (b). (Section 64433.8(a), T22, CCR)

- Annual Raw Source Water Analysis for fluoride: (Question 9 on first page)
See Attachment-D

Any water system with an operating fluoridation system shall sample the raw source waters annually and analyze for fluoride pursuant to §64415(a); samples collected pursuant to §64432(b)(1) may be used toward satisfying this requirement. All raw source water samples collected under this subsection are subject to compliance with the fluoride MCL in Table 64431-A. (Section 64433.3(d), T22, CCR)

ATTACHMENTS:

- Enclosure-A:** Fluoride Operations & Maintenance Costs Worksheet – Fiscal Year 2024-25.
Enclosure-B: Fluoride Operations & Maintenance Projected Cost Worksheet – FY 2025-26.
Enclosure-C: City's Fluoridation Plan and Operations Contingency Plan.
Enclosure-D: Sierra Laboratory's Source Raw Fluoride Analysis Reports for 2025.

ENCLOSURE-A:

**Fluoride Operations & Maintenance
Costs Worksheet
Fiscal Year 2024-2025**

ENCLOSURE-B:

**Fluoride Operations & Maintenance
Projected Cost Worksheet
Fiscal Year 2025-26**

**Huntington Beach Utilities Division
Fluoride Operations Maintenance Projected Cost for Year 2025-26**

Operations

Fluoride	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	5% Increase	This Year Totals	Next Yr Projected Total
24-25 Lbs Used	11,416	10,791	11,094	10,299	9,566	8,710	8,931	7,599	8,939	9,695	10,396	11,604		119,040	116,410
25-26 Lbs Est'd	11,610	11,701	10,924	10,044	9,299	8,943	9,004	7,083	8,022	9,257	10,603	9,920			\$51,220
Projected Cost	\$5,108	\$5,148	\$4,807	\$4,419	\$4,092	\$3,935	\$3,962	\$3,117	\$3,530	\$4,073	\$4,665	\$4,365			
Delivery Labor													\$624	\$12,480	\$13,104
Equip Cost													\$1,395	\$27,907	\$29,302
Analysis Labor													\$1,606	\$32,120	\$33,726
Operations Total													\$3,625	\$72,507	\$127,353
	2,263	2,371	2,411	2,261	2,026	1,965	1,764	1,829	1,704	2,053	2,247	2,285			

Maintenance

Maintenance Labor													\$259	\$5,170	\$5,429
Maintenance Materials													\$93	\$1,855	\$1,948
Lab Supplies													\$360	\$7,190	\$7,550
Equipment Usage													\$276	\$5,528	\$5,804
D.O.T Certification													\$127	\$2,545	\$2,672
Maintenance Total													\$1,114	\$22,288	\$23,402

Program Total													\$4,740	\$94,795	\$150,755
---------------	--	--	--	--	--	--	--	--	--	--	--	--	---------	----------	-----------

ENCLOSURE-C:

**City of Huntington Beach
Fluoridation Plan and
Operations Contingency Plan**

(Copy from 2018 Comprehensive Water Quality Monitoring Plan)



CITY OF HUNTINGTON BEACH UTILITIES DIVISION



Fluoridation Plan

~ Revised June, 2015 ~

FLUORIDE OVERVIEW

Fluoride occurs naturally in the City of Huntington Beach drinking water wells at an average annual level of 0.4 mg/L. In addition to this natural level the City adds a small amount of fluoride to the water to promote dental benefits per a majority vote of the community during the early 1970s. The City’s water has previously been fluoridated at the existing California Water Fluoridation Standards temperature-dependent optimal level of 0.8 mg/L and control range of 0.7 to 1.3 mg/L. In the Spring of 2015, the Centers for Disease Control recommended water systems adjust their fluoride content optimal level to 0.7 mg/L, and the State Water Resources Control Board – Division of Drinking Water (DDW) advised public water systems in California to implement this change. In June, 2015 the City initiated a new water fluoridation standard optimal level of 0.7 mg/L, and control range of 0.6 to 1.2 mg/L.

FLUORIDE MONITORING

All “active” wells and import connections are monitored daily for fluoride concentration after fluoride treatment. In addition, one fluoride sample in the distribution system is monitored daily at one of fourteen locations on a rotating basis as identified on Distribution System Fluoride Sampling Locations list (Page 9-3), and shown on Water System and Sampling Stations map (Page 9-4). All of the daily source and distribution samples are collected and analyzed by trained City water system personnel, including weekends and holidays.

Once a month, all “active” wells are sampled and analyzed by City personnel prior to fluoride treatment to measure the natural fluoride concentration. Also, a monthly Split Sample is collected by the City personnel at one of the fourteen distribution system fluoride locations. Half of the sample is analyzed by trained City personnel and the other half analyzed by a State certified laboratory. This is done pursuant to the City’s Fluoridation System Operations Contingency Plan (Page 9-5).

Once per year all wells and import connections are sampled by City personnel and analyzed by a State certified laboratory for the natural fluoride concentration.

FLUORIDE MONITORING SUMMARY

Frequency	Sample Locations	Type	Analyzed By
Daily	Active Wells and Imported Water Connections	Treated	City
Daily	Distribution Fluoride Sample (1 of 14 Rotating Sites)	Distribution	City
Monthly	Split Sample (1 of 14 Distribution Fluoride Sites)	Distribution	City & Lab
Monthly	Active Wells	Raw	City
Annual	All Wells	Raw	Lab

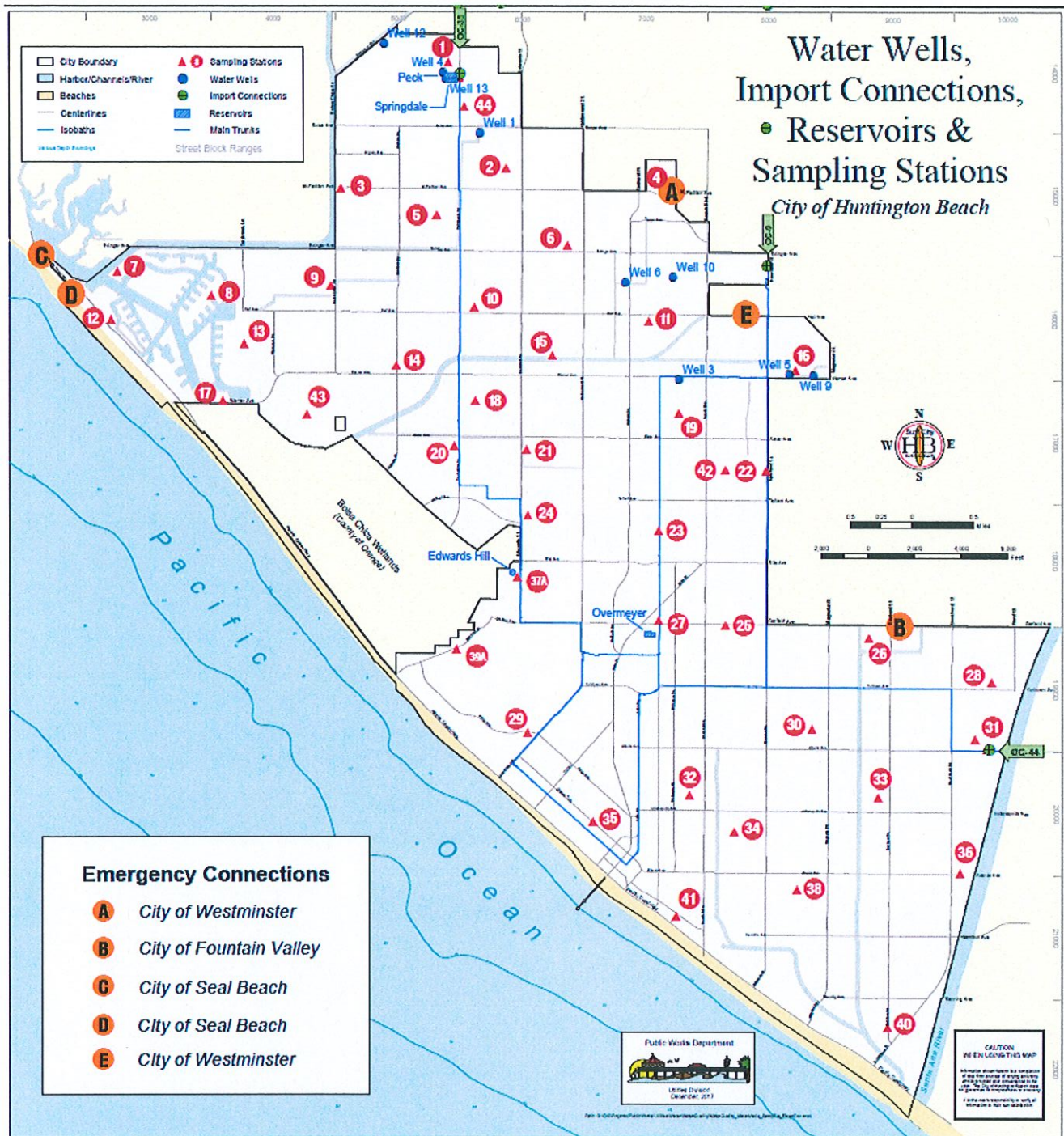
DISTRIBUTION SYSTEM FLUORIDE SAMPLING LOCATIONS

(Collected daily on a rotating basis including weekends and holidays)

	Day	Sample Locations	Route No.*
1.	Mon	Sample Site @ Bushard St. & Leilani Dr.	40
2.	Tue	Sample Site @ 4952 Oahu Dr.	9
3.	Wed	Sample Site @ 19412 Pitcairn Ln.	28
4.	Thur	Sample Site @ 17581 Wrightwood Ln.	20
5.	Fri	Sample Site @ 20651 Farnsworth Ln.	34
6.	Sat	Sample Site @ 5882 Croupier Dr.	1
7.	Sun	Sample Site @ 16441 Bradbury Ln.	10
8.	Mon	Sample Site @ 9392 Hazelbrook Dr.	33
9.	Tue	Sample Site @ 5022 McFadden Ave.	3
10.	Wed	Sample Site @ 19081 Pauline Ln.	26
11.	Thur	Sample Site @ Sceptre Ln. & Warner Ave.	17
12.	Fri	Sample Site @ Palm Ave. @ Island Bay Ln.	29
13.	Sat	Sample Site @ 16921 Ross Ln.	16
14.	Sun	Sample Site @ Paseo Cr. & Newland St.	22

* Corresponding numbers on the Bacteriological Examination Route.

Huntington Beach Water System Map



Fluoridation System Operations Contingency Plan

City water system personnel will collect one sample on a daily basis, including weekends and holidays, at one of fourteen fixed locations that are representative of the water throughout the distribution system, and will rotate them on a continuous cycle. The fourteen locations are individual sample sites included in our Bacteriological Examination Route in the Comprehensive Water Quality Monitoring Plan, and are also identified in the Distribution System Fluoride Sampling Locations list in this Fluoridation Plan (Page 9-3).

Once per month water system personnel will collect one fluoride sample from one of the fourteen fixed locations and divide the sample. Half will be analyzed by the City and half will be analyzed by a laboratory certified by DDW pursuant to Section 64433.3 of the California Code of Regulations, Title 22, Chapter 15.

Each raw water source for Huntington Beach will be sampled and analyzed annually for the natural fluoride content by a DDW certified laboratory, and results sent to DDW via Electronic Data Transfer. The annual fluoride monitoring results must be in compliance with the fluoride Maximum Contaminant Level of 2.0 mg/L. Each active raw water source will also be sampled and analyzed for the natural fluoride content once per month by water system personnel and will be included in the Monthly Fluoridation Self-Monitoring Reports. If any source has been inactive for the month that is being reported then results of the most recent analysis will be included.

By the tenth day of each month following the month being reported, the City shall send operational reports to DDW which will include: 1) The fluoride compounds used and the calculated fluoride dose in mg/L; 2) Information on any interruptions in the fluoridation treatment which may have occurred during the month, including the duration of the interruption, an explanation of the causes and what corrective actions were taken to assure that fluoridation treatment was resumed in a timely manner; 3) The results of the daily monitoring for fluoride in the distribution system reported in terms of daily results, as well as ranges and number of samples collected; 4) The results of monthly split sample(s) analyzed by a DDW certified laboratory and City water system personnel.

The appropriate Fluoride levels for the City are summarized below:

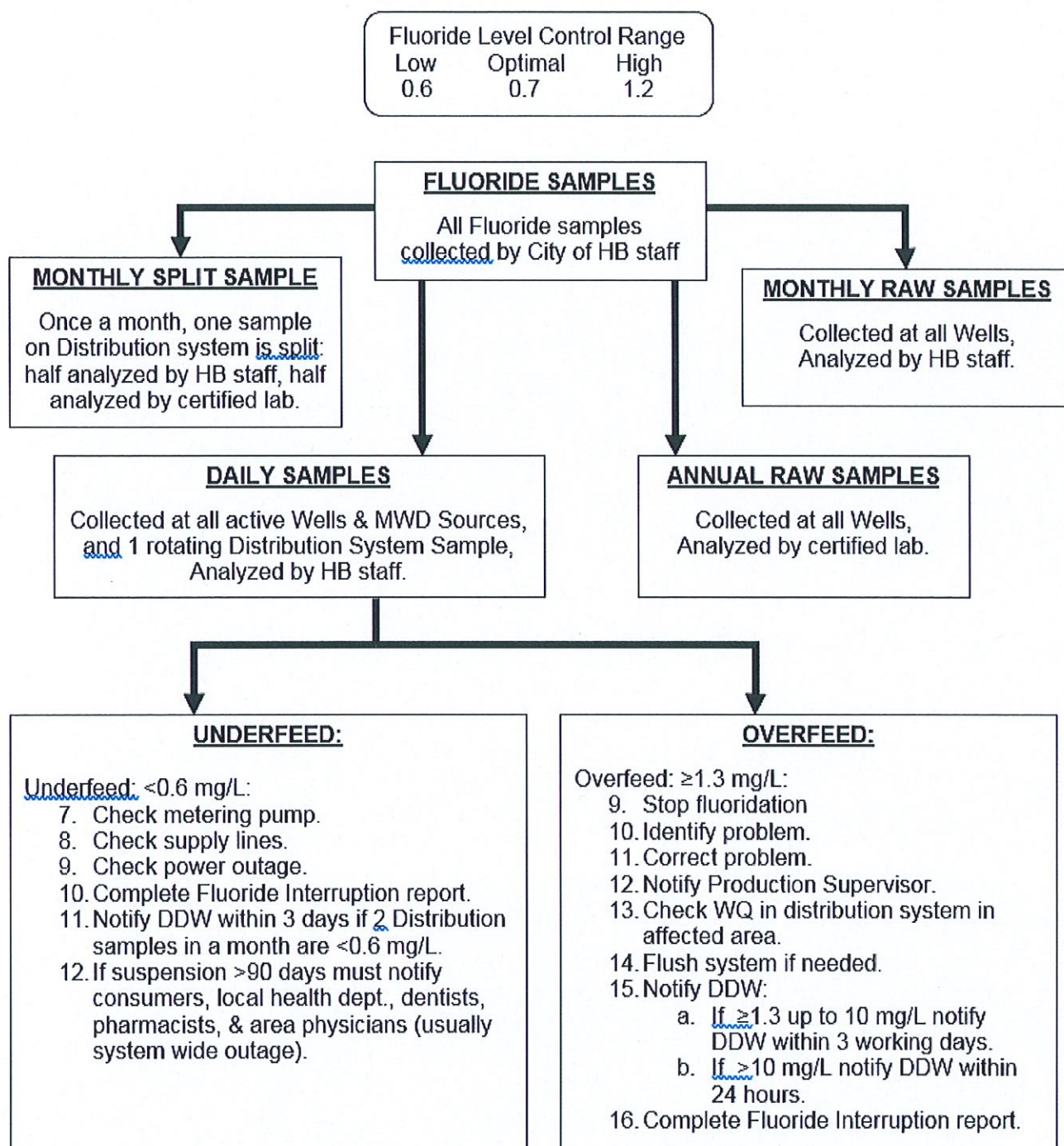
City of Huntington Beach Required Fluoride Levels Control Range – mg/L		
Low 0.6	Optimal Level 0.7	High 1.2

1. If at any time the fluoride level in the distribution system is found to be less than the control range, 0.1 mg/L above the control range up to a fluoride level of 2.0 mg/L, from 2.1 to a level of 4.0 mg/L, from 4.1 to a level of 10.0 mg/L or above a level of 10.0 mg/L, water system personnel will respond immediately. A site visit will be conducted to determine if there has been a malfunction or failure of the metering pumps. All necessary actions to correct any problems will be carried out without delay.
2. The procedure for shutting down the fluoridation equipment in the event of a fluoride overfeed, if the need to do so is identified by DDW and/or the water supplier, will be performed by City water system personnel as instructed by the Production Supervisor (see Operator's Emergency Plan for Overfeed of Fluoride).
3. The procedure for investigating the cause of an underfeed or overfeed will consist of checking the metering pumps to ascertain if they are working correctly. The supply lines and injection lines will be checked to make sure there is no obstruction, such as an air pocket, that may have caused an underfeed. An investigation would be conducted to determine if a power outage may have occurred that resulted in an underfeed or interruption.
4. A list of water system and DDW personnel, with day and evening telephone numbers is included in the City of Huntington Beach Water Quality Emergency Notification Plan. Also listed in the Plan is the telephone number for Orange County Healthcare Agency personnel at (714) 433-6000.
5. The procedure for notifying the public, if instructed to do so by DDW, in the event of a fluoride underfeed extending for more than three months, or an overfeed exceeding 10.0 mg/L, is included on Page 2 of our Water Quality Emergency Notification Plan.

Operator's Emergency Plan for Overfeed of Fluoride

If any operator notices, or is notified of a fluoride overfeed which is defined as a fluoride level in excess of 2.0 mg/L, he is to respond to the site in question and STOP fluoridation until the problem is identified and corrected. The operator will notify the Water Production Supervisor whenever an overfeed situation occurs. Notification will be ASAP once fluoridation has been suspended. If the Supervisor is unavailable, notification will be to the Water Quality Supervisor, Water Quality Coordinator, Production Crewleader, etc. Notification will be via telephone, radio or Pagenet System.

Fluoridation Procedures Flow Chart



ENCLOSURE-D:

**Sierra Laboratory
Source Raw Fluoride Analysis Reports
For Calendar Year 2025**



City of Huntington Beach - Utilities
P.O. Box 190
Huntington Beach CA, 92648

Project: Annual Raw Fluoride
Project Number: [none]
Project Manager: Jennifer Reyes

Reported:
05/21/25 17:09

Conventional Chemistry Parameters by APHA/EPA Methods
Sierra Analytical Labs, Inc

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Well 1A (2505224-01) Water Sampled: 05/14/25 09:17 Received: 05/14/25 12:15									
Fluoride	0.412	0.300	mg/L	1	B5E1407	05/15/25	05/16/25 13:30	EPA 300.0	
Well 5 (2505224-02) Water Sampled: 05/14/25 08:35 Received: 05/14/25 12:15									
Fluoride	0.655	0.300	mg/L	1	B5E1407	05/15/25	05/16/25 13:30	EPA 300.0	
Well 6 (2505224-03) Water Sampled: 05/14/25 08:50 Received: 05/14/25 12:15									
Fluoride	0.499	0.300	mg/L	1	B5E1407	05/15/25	05/16/25 13:30	EPA 300.0	
Well 9 (2505224-04) Water Sampled: 05/14/25 08:29 Received: 05/14/25 12:15									
Fluoride	0.509	0.300	mg/L	1	B5E1407	05/15/25	05/16/25 13:30	EPA 300.0	
Well 13 (2505224-05) Water Sampled: 05/14/25 09:45 Received: 05/14/25 12:15									
Fluoride	0.457	0.300	mg/L	1	B5E1407	05/15/25	05/16/25 13:30	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



City of Huntington Beach - Utilities
P.O. Box 190
Huntington Beach CA, 92648

Project: Annual Raw Fluoride
Project Number: [none]
Project Manager: Jennifer Reyes

Reported:
05/21/25 17:13

Conventional Chemistry Parameters by APHA/EPA Methods
Sierra Analytical Labs, Inc

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Well 7 (2505241-01) Water Sampled: 05/15/25 10:23 Received: 05/15/25 11:58									
Fluoride	0.514	0.300	mg/L	1	B5E1407	05/15/25	05/16/25 13:30	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



City of Huntington Beach - Utilities
P.O. Box 190
Huntington Beach CA, 92648

Project: Annual Raw Fluoride
Project Number: [none]
Project Manager: Jennifer Reyes

Reported:
05/29/25 11:48

Conventional Chemistry Parameters by APHA/EPA Methods
Sierra Analytical Labs, Inc

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Well 4 (2505329-01) Water Sampled: 05/21/25 09:37 Received: 05/21/25 11:39									
Fluoride	0.669	0.300	mg/L	1	B5E2027	05/21/25	05/23/25 14:39	EPA 300.0	
Well 10 (2505329-02) Water Sampled: 05/21/25 08:17 Received: 05/21/25 11:39									
Fluoride	0.579	0.300	mg/L	1	B5E2027	05/21/25	05/23/25 14:39	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



City of Huntington Beach - Utilities
P.O. Box 190
Huntington Beach CA, 92648

Project: Annual Raw Fluoride
Project Number: [none]
Project Manager: Jennifer Reyes

Reported:
07/02/25 08:53

Conventional Chemistry Parameters by APHA/EPA Methods
Sierra Analytical Labs, Inc

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Well 3 (2506426-01) Water Sampled: 06/26/25 08:11 Received: 06/26/25 10:24										
Fluoride	0.682	0.300		mg/L	1	B5F2609	06/26/25	06/26/25 18:20	EPA 300.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.