
State Water Resources Control Board

WATER CODE SECTIONS 13267 AND 13383 ORDER FOR THE DETERMINATION OF THE PRESENCE OF PER- AND POLYFLUOROALKYL SUBSTANCES AT PUBLICLY OWNED TREATMENT WORKS

ORDER WQ 2020-0015-DWQ

Pursuant to Water Code sections 13267 and 13383, the State Water Resources Control Board (State Water Board) requires you to submit information as described herein. Failure to comply with this Order may subject you to civil liability of up to \$10,000 per day for each day in which the violation occurs.

Publicly owned treatment works (POTWs) are potentially significant receivers of per- and polyfluoroalkyl substances (PFAS) and have the potential to discharge these wastes to the environment. Potential discharges include, but are not limited to, wastewater effluent to surface waters and/or percolation basins, biosolids, and reverse osmosis concentrate/retentate from some treatment facilities. **Attachment 1** presents a conceptual model of PFAS emissions from a POTW (Interstate Technical Regulatory Council (ITRC), Per-and Polyfluoroalkyl Substances, March 2020). Your agency has been identified as owning or operating one or more POTWs in California that have a design capacity at or exceeding one million gallons per day (mgd), which is the scope of this Order. Additional orders may be issued in the future for facilities with less than an average dry weather design flow of 1 mgd capacity. **Attachment 2** presents a list of agencies and facilities required to comply with under this Order.

This Order requires completion of the following tasks:

1. Conduct sampling and analysis for each POTW listed in **Attachment 2** and submit the results of the sampling according to the requirements found in **Attachment 3**, Technical Sampling and Reporting Requirements.
2. Complete the questionnaire in **Attachment 3 (Sections C.3 and D)** for each of the POTWs listed in **Attachment 2**. The information required by the questionnaire shall be submitted electronically.

I. FINDINGS

A. WHAT ARE PFAS?

PFAS are a family of more than 5,000 man-made and mostly unregulated chemicals that have been produced since the mid-1900s. They are mobile, persistent, and bioaccumulative. They are resistant to degradation in the environment and when degradation occurs, it often results in the formation of other PFAS compounds. The PFAS compounds have very different physical and chemical properties. Currently, the key classes of concern are perfluoroalkyl sulfonic acids such as the long-chain perfluorooctanesulfonate (PFOS) and perfluorooctanoic acid (PFOA).

PFAS are manufactured globally and have been used in the production of a wide range of industrial and household products. Discharges to sewer systems from these sources, including disposal of landfill leachate and firefighting foam, results in PFAS in the influent to POTWs. Typical POTW treatment systems are not designed to remove PFAS. Therefore, the discharge from POTWs, especially those with industrial inputs, are possible contributors of PFAS to the environment. The Water Boards issued investigative Orders to airports, landfills, and plating shops pursuant to Water Code section 13267 to determine the presence of PFAS in wells proximal to those facilities. Those facilities can be contributors of PFAS to a POTW. (ITRC, History and Use of Per- and Polyfluoroalkyl Substances (PFAS) Fact Sheet, November 2017).

PFAS are also found in many products such as dental floss, non-stick cookware, food packaging materials, non-stick products (e.g., Teflon™), waterproof and water repellant textiles, water repellant furniture, carpet, polishes, waxes, paints, cleaning products, medical garments, and fire-fighting foams (aqueous film-forming foams; AFFF). PFAS are used in the aerospace, automotive, chemical, electronics, metal coatings and plating, and textiles industries due to their friction-reducing characteristics. PFAS have the potential to enter the waste stream from many different sources. Potential firefighting sources of PFAS include airports and aviation facilities, military bases and training centers, petroleum refineries and terminals, and petrochemical production facilities. Non-industrial PFAS sources include waste disposal facilities, wastewater treatment plant operations, and biosolids application to land. More information on PFAS chemicals can be found at the United States Environmental Protection Agency (U.S. EPA) website (www.epa.gov/pfas). Additional information about PFAS can be found at the State Water Board's PFAS website at <https://www.waterboards.ca.gov/pfas/>.

PFAS are extremely persistent in the environment and highly mobile in water. People can be exposed to PFAS through food, food packaging, consumer products, house dust, and drinking water. Since these chemicals have been used in an array of consumer products, scientists have found PFOA and PFOS and other PFAS compounds in the blood of nearly all people tested. Exposure through drinking water

has become an increasing concern due to the tendency of PFAS to accumulate in groundwater.

Based on current available peer-reviewed studies on laboratory animals and epidemiological evidence in human populations, the U.S. EPA released the following statement:

“These studies indicate that exposure to PFOA and PFOS over certain levels may result in adverse health effects, including developmental effects to fetuses during pregnancy or to breastfed infants (e.g., low birth weight, accelerated puberty, skeletal variations), cancer (e.g., testicular, kidney), liver effects (e.g., tissue damage), immune effects (e.g., antibody production and immunity), thyroid effects and other effects (e.g., cholesterol changes).”

Please see U.S. EPA Technical Note (www.epa.gov/sites/production/files/2017-12/documents/ffrrofactsheet_contaminants_pfos_pfoa_11-20-17_508_0.pdf) for more information.

B. WHICH PFAS MUST BE ANALYZED?

The Water Boards are concerned about all PFAS that exist in the environment. Due to analytical limitations, the focus of this Order is on 31 PFAS analytes listed in **Attachment 3**. The PFAS analyte list is not exhaustive but is intended to serve as a minimum requirement for sampling pursuant to this Order. Some laboratories may be capable of analyzing additional PFAS that are not included on the list.

C. WHY IS THE WATER BOARD REQUIRING THIS SAMPLING AND ANALYSIS?

The State Water Board and the Regional Water Boards are charged with the protection of the beneficial uses of water in California, including water used or that could potentially be used as drinking water. If PFAS-bearing wastes were discharged into the wastewater collection system, then it is likely that PFAS were discharged from the POTS in the effluent (including brine) and biosolids. The discharge of effluent may pose a threat to water quality if the effluent was discharged directly to surface waters or allowed to percolate to groundwater. PFAS in effluent discharges entering receiving waters also have the potential to bioaccumulate in aquatic food webs. Land application of biosolids may pose a threat to water quality by constituents percolating to groundwater or through water (such as irrigation water or storm water) carrying constituents to surface waters. The activities included in this Order are part of a statewide effort to 1) evaluate PFAS groundwater and surface water impacts and 2) conduct a preliminary investigation of the mass loading of PFAS into the POTW and then leaving the POTW in different media (treated wastewater, brine, biosolids). The State Water Board intends to direct other dischargers identified as potential PFAS sources in the state to perform PFAS testing. The State Water Board and the Regional Water Boards will evaluate the data collected to make informed decisions in implementing appropriate regulatory action.

D. WHAT LEVELS ARE A PUBLIC HEALTH CONCERN?

In May 2016, the U.S. EPA established drinking water Health Advisory Levels of 70 parts per trillion (ppt) (0.07 micrograms per liter (µg/L)) for PFOA and PFOS, individually or combined. These concentrations are now considered a preliminary remediation goal. The U.S. EPA *Draft Interim Recommendations to Address Groundwater Contaminated with Perfluorooctanoic Acid and Perfluorooctane Sulfonate* released in April 2019 suggested setting a remedial screening level at 40 ppt for PFOA and PFOS (individually). For more information on these advisories see the U.S. EPA PFAS website (www.epa.gov/pfas).

In August 2019, the State Water Board lowered the drinking water notification levels for PFOS and PFOA to 6.5 ppt and 5.1 ppt, respectively. In February 2020, the State Water Board lowered the response levels for PFOA and PFOS from 70 ppt combined to 10 ppt for PFOA and 40 ppt for PFOS based on a running four quarter average. More information on notification levels for PFAS compounds can be found on the State Water Board's Division of Drinking Water PFOA and PFOS website (https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/PFOA_PFOS.html).

Water Code section 106.3 indicates it is the policy of the State of California that every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes. This Order promotes that policy by directing investigations to determine the presence of PFAS in and near waters that could be used for drinking water purposes.

II. WATER CODE SECTIONS 13267 AND 13383 ORDER FOR TECHNICAL OR MONITORING REPORTS

Water Code section 13267(b), authorizes the regional water boards to “require any person who has discharged, discharges, or is suspected of having discharged or discharging, or who proposes to discharge waste within its region... or is suspected of having discharged or discharging, or who proposes to discharge, waste outside of its region that could affect the quality of water within its region shall furnish, under penalty of perjury, technical or monitoring reports which the regional board requires... In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports and shall identify the evidence that supports requiring that person to provide the reports.”

Water Code section 13267(f) authorizes the State Water Board to require this information if it consults with the Regional Water Boards and determines that it will not duplicate the efforts of the Regional Water Boards. The State Water Board has consulted with the Regional Water Boards and made this determination.

Water Code section 13383(a) authorizes the Water Boards to “establish monitoring, inspection, entry, reporting, and recordkeeping requirements... for any person who discharges, or proposes to discharge, to navigable waters, any person who introduces pollutants into a publicly owned treatment works, any person who owns or operates, or proposes to own or operate, a publicly owned treatment works or other treatment works treating domestic sewage, or any person who uses or disposes, or proposes to use or dispose, of sewage sludge.” Section 13383(b) continues, “the state board or the regional boards may require any person subject to this section to establish and maintain monitoring equipment or methods, including, where appropriate, biological monitoring methods, sample effluent as prescribed, and provide other information as may be reasonably required.”

The release of PFAS into the environment or the disposal of wastes containing PFAS constitutes a discharge of waste as defined in Water Code section 13050(d). The discharge of wastewater containing PFAS to a sanitary sewer system constitutes the introduction of pollutants into a POTW as described in Water Code sections 13383 and 13373, and Clean Water Act section 502.

Pursuant to Water Code sections 13267 and 13383, **you are hereby ordered to submit the reports identified in Attachment 3.**¹ Additional information regarding requirements for submitting reports under these sections of the Water Code is included as **Attachment 4**. Any requests for extensions must be submitted to the Regional Water Board identified in the cover letter of this Order for approval by the Executive Officer.

III. COST AND BENEFIT OF TECHNICAL OR MONITORING REPORTS

Water Code section 13267(b) specifies that the burden, including costs, of these reports must bear a reasonable relationship to the State Water Board’s need for the reports and the benefits to be obtained from the reports. The total cost of conducting the sampling and preparing the reports required by this Order is estimated to be in the range of \$5,000 to \$25,000 for sampling and reporting.

The cost of the reports bears a reasonable relationship to the benefit to be gained because, in terms of public health and environmental harm, contamination of groundwater and surface water must be identified before corrective action can be taken, if appropriate. As described further in this Order and in **Attachment 3**, the recipients of this Order are likely discharging PFAS, which EPA has determined may cause adverse health effects.

¹ Monitoring and reporting for groundwater and discharges to land are required pursuant to Water Code section 13267. Monitoring and reporting for discharges to surface water are required pursuant to Water Code section 13383.

IV. CALIFORNIA ENVIRONMENTAL QUALITY ACT

The issuance of this Order is an action to protect the environment and is categorically exempt from the provisions of the California Environmental Quality Act pursuant to sections 15304 and 15308, Chapter 3, Title 14 of the California Code of Regulations.

V. PENALTIES

Water Code section 13268 provides that failure to submit the required groundwater monitoring/reporting information by the specified compliance date, or falsifying any information provided therein, is a misdemeanor and may subject you to administrative civil liability of up to \$5,000 for each day of violation.

Water Code section 13385 provides that failure to comply with surface water monitoring/reporting information may result in administrative civil liability of up to \$10,000 for each day of violation. Please be advised that compliance with this Order is not a substitute for compliance with other applicable laws.

Therefore, pursuant to Water Code sections 13267 and 13383, you are hereby ordered to:

1. Complete the questionnaire in **Attachment 3 (Sections C.3 and D)** for each of the POTWs listed in **Attachment 2** for which your agency is identified as the responsible agency. The questionnaire shall be completed by the responsible agency and submitted **no later than the submittal of the second quarter analytical results from the treatment system sampling**. The information required by the questionnaire shall be submitted electronically using the form accessed through Geotracker and required supplemental information should be submitted electronically in a pdf format to the same website as the questionnaire.
2. Conduct sampling and analysis for each POTW listed in **Attachment 2** for which your agency is identified as the responsible agency and submit sampling results according to the requirements found in **Attachment 3**, as outlined below.
 - For POTWs with an existing groundwater monitoring and reporting program under an order issued by the State or Regional Board, submit **within 60-days prior to conducting the first groundwater monitoring event** the rationale and location of proposed groundwater monitoring wells for a one-time sampling event (refer to **Attachment 3, Section 3.b** for specific details).

- Analytical results from the treatment system and groundwater sampling events shall be uploaded into the Water Board's GeoTracker system **within 30 days of receiving the laboratory analytical report.**
- One monitoring report summarizing the treatment system and groundwater monitoring shall be uploaded into the Water Board's GeoTracker system **no later than 60 days following the receipt of the last analytical laboratory report.**

Perjury Statement

Pursuant to Water Code section 13267(b)(1), the State Water Board requires you to include the following perjury statement, signed by a duly authorized representative, in all reports submitted pursuant to this Order:

"I, Eileen Sobeck, certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision, and the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant civil penalties for submitting false information."

July 9, 2020
Date



EILEEN SOBECK, Executive Director

ATTACHMENTS:

Attachment 1 – Conceptual Site Model for Per and Polyfluoroalkyl Substances at POTWs

Attachment 2 – List of Facilities

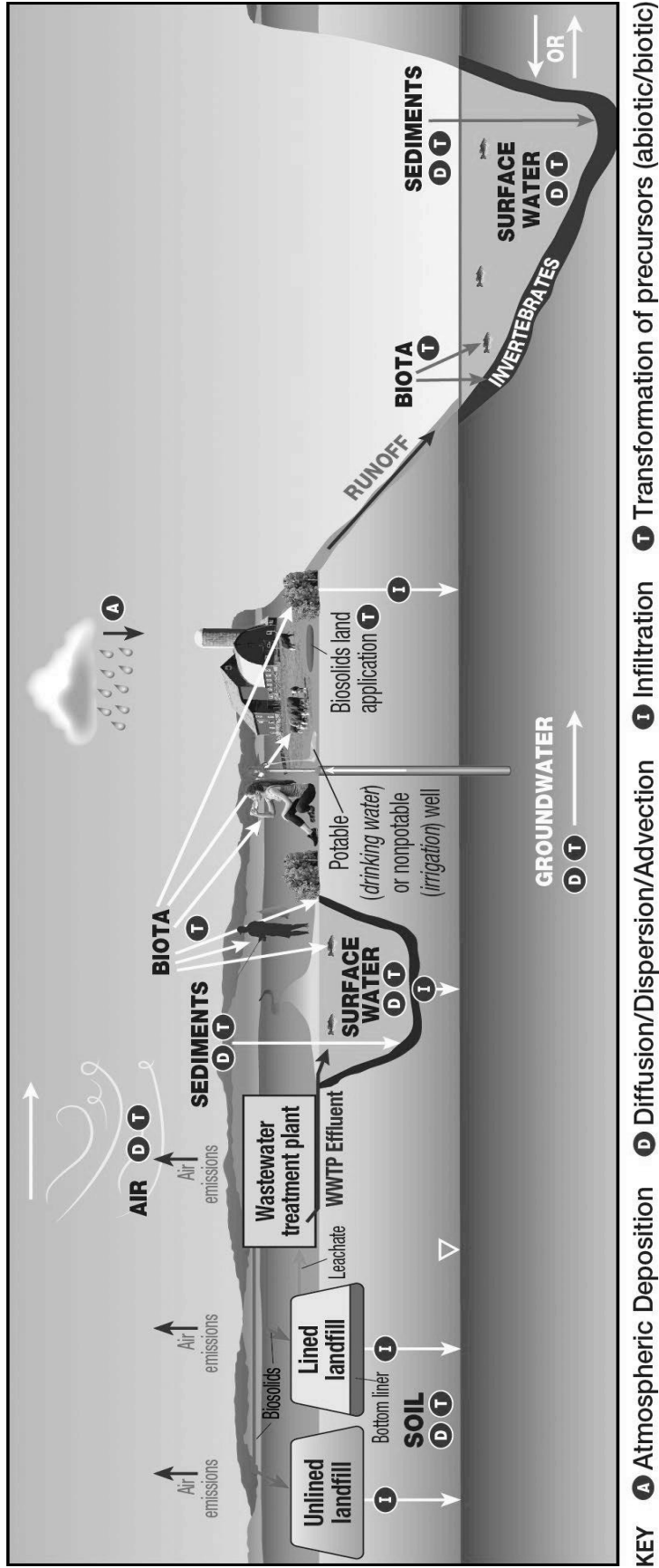
Attachment 3 - Technical Sampling and Reporting Requirements

Attachment 4 – Fact Sheet – Requirements for Submitting Reports under Section 13267 and 13383 of the Water Code

ATTACHMENT 1

Conceptual Site Model for Per and Polyfluorakyl Substances at POTWs

WATER CODE SECTION 13267/13383 ORDER FOR THE
DETERMINATION OF THE PRESENCE OF PER- AND POLYFLUOROALKYL SUBSTANCES



From Interstate Technical Regulatory Council, Per-and Polyfluoroalkyl Substances, March 2020

ATTACHMENT 2 - LIST OF FACILITIES
 WATER CODE SECTION 13267/13383 ORDER FOR THE
 DETERMINATION OF THE PRESENCE OF PER-AND POLYFLUOROALKYL SUBSTANCES AT PUBLICLY

Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
255703	1	North Coast	Santa Rosa Laguna Subregional WRF	Santa Rosa City Dept of Public Works	4300 Llano Road	Santa Rosa	95407
229922	1	North Coast	Healdsburg City WWTP	Healdsburg City	340 Foreman Lane	Healdsburg	95448
240093	1	North Coast	McKinleyville WWTP	McKinleyville CSD	675 Hiller Road	McKinleyville	95521
225055	1	North Coast	Fort Bragg City WWTP	Fort Bragg City	281 Jere Melo Street	Fort Bragg	95437
268960	1	North Coast	Ukiah City WWTP	Ukiah City	300 Treatment Plant Road	Ukiah	95482
272790	1	North Coast	Windsor Town WWTP	Windsor Water District	8400 Windsor Road	Windsor	95492
216106	1	North Coast	Crescent City WWTP	Crescent City	210 Battery Street	Crescent City	95531
206164	1	North Coast	Arcata City WWTF	Arcata City	600 South G Street	Arcata	95521
272646	1	North Coast	Willits City WWTP	Willits City	300 North Lenore Street	Willits	95490
214888	1	North Coast	Cloverdale City WWTP	Cloverdale City	700 Asti Road	Cloverdale	95425
225089	1	North Coast	Fortuna City WWTP	Fortuna City	180 Dinsmore	Fortuna	95540
223010	1	North Coast	Eureka City Elk River WWTP	Eureka City	4301 Hilfiker Lane	Eureka	95501
274538	1	North Coast	Yreka City WWTP	Yreka City	856 North Main Street	Yreka	96897
212858	3	Central Coast	Cambria Community Services District WWTP	Cambria Community Services District	1316 Tamsom Dr, Ste 201	Cambria	93428
248519	3	Central Coast	Pismo Beach WWTP	Pismo Beach City	550 Frady Ln	Pismo Beach	93449
213281	3	Central Coast	Carmel Area WWTP	Carmel Area Wastewater District	3945 Rio Road	Carmel	93922
237315	3	Central Coast	Lompoc Regional WRP	Lompoc City	West 1801 Central Avenue	Lompoc	93436
241740	3	Central Coast	Monterey One Water Regional WWTP	Monterey One Water	14811 Del Monte Boulevard	Marina	93933

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
247750	3	Central Coast	Paso Robles WWTP	City of El Paso de Robles	3400 Sulphur Springs Rd	Paso Robles	93446
255380	3	Central Coast	San Luis Obispo WWTP	San Luis Obispo City	35 Prado Road	San Luis Obispo	93401
227568	3	Central Coast	Goleta SD WWTP	Goleta SD	1 Moffett Place	Goleta	93117
271872	3	Central Coast	Watsonville WWTP	Watsonville City	401 Panabaker Lane	Watsonville	95077
222443	3	Central Coast	El Estero Water Resource Center NPDES	Santa Barbara City PWD	520 East Yanonali Street	Santa Barbara	93103
255632	3	Central Coast	Santa Cruz WWTP	Santa Cruz City	110 California Street	Santa Cruz	95060
206653	3	Central Coast	Atascadero WWTP	Atascadero City	8005 Gabarda	Atascadero	93422
255678	3	Central Coast	City of Santa Maria WWTP	City of Santa Maria	601 Black Road	Santa Maria	93458
235021	3	Central Coast	King City Domestic WWTF	King City	212 South Vanderhurst Ave	Salinas	93930
236124	3	Central Coast	Laguna County Sanitation District WWRF	Laguna Sanitation	620 West Foster Rd	Santa Maria	93455
227893	3	Central Coast	City of Greenfield WWTP	Greenfield City	599 El Camino Real	Greenfield	93960
230555	3	Central Coast	Hollister Domestic WWTP	Hollister City	2690 San Juan Road	Hollister	95023
227602	3	Central Coast	City of Gonzales WWTP	Gonzales City	P.O. Box 647, 147 Fourth Street	Gonzales	93926
731257	3	Central Coast	Pajaro Valley WMA and City of Watsonville WRF	Pajaro Valley Water Management Agency	401 Panabaker Lane	Watsonville	95076
256483	3	Central Coast	Soledad Sewage Treatment Plant	Soledad City	34520 Morisoli Rd	Soledad	93960
257687	3	Central Coast	Solvang WWTP	Solvang City	1644 Oak Street	Solvang	93463

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
271054	4	Los Angeles	Ventura WRF	Ventura City	1400 Spinnaker Drive	Ventura	93002
267130	4	Los Angeles	Terminal Island Water Reclamation Plant	Los Angeles City Bureau of Sanitation	445 Ferry Street	San Pedro	90731
246616	4	Los Angeles	Ojai Valley WWTP	Ojai Valley Sanitary District	6363 North Ventura Avenue	Ventura	93001
208276	4	Los Angeles	Avalon WWTF	Avalon City	123 Pebbly Beach Road	Avalon	90704
234156	4	Los Angeles	Joint Water Pollution Control Plant	County Sanitation Districts of Los Angeles County	24501 South Figueroa Street	Carson	90745
212135	4	Los Angeles	Burbank WRP	Burbank City DPW	740 North Lake Street	Burbank	91502
216832	4	Los Angeles	Camrosa Water Reclamation Facility	Camrosa Water District	1900 South Lewis Road	Camarillo	93012
246946	4	Los Angeles	Oxnard Wastewater Treatment Plant	Oxnard City Wastewater Division	6001 Perkins Rd	Oxnard	93033
261253	4	Los Angeles	Simi Valley WQCP	Simi Valley City	600 West Los Angeles Avenue	Simi Valley	93065
266940	4	Los Angeles	Tapia WRF	Las Virgenes MWD	731 Malibu Canyon Road	Calabasas	91302
260156	4	Los Angeles	San Jose Creek Water Reclamation Plant	County Sanitation Districts of Los Angeles County	1965 South Workman Mill Road	Whittier	90601
260494	4	Los Angeles	Saugus Water Reclamation Plant	Santa Clarita Valley SD of Los Angeles Cnty	26200 Springbrook Avenue	Santa Clarita	91350
270849	4	Los Angeles	Valencia WRP	Santa Clarita Valley SD of Los Angeles Cnty	28185 The Old Road	Valencia	91355
267571	4	Los Angeles	Donald C. Tillman WWRP	Los Angeles City Bureau of Sanitation	6100 Woodley Avenue	Van Nuys	91406
222062	4	Los Angeles	Huncheon WWTP	Los Angeles City	12000 Vista del	Blaine del Rey	90202

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
238562	4	Los Angeles	Long Beach WRP	County Sanitation Districts of Los Angeles County	7400 East Willow Street	Long Beach	90815
238646	4	Los Angeles	Los Coyotes WRP	County Sanitation Districts of Los Angeles County	16515 Piuma Avenue	Cerritos	90703
250700	4	Los Angeles	Pomona Water Reclamation Plant	County Sanitation Districts of Los Angeles County	295 Humane Way	Pomona	91766
216719	4	Los Angeles	Camarillo WRP	Camarillo Sanitary District	150 East Howard Road	Camarillo	93012
273142	5F	Central Valley (Fresno)	Kern Sanitation Authority WWTF	Kern Sanitation Authority	4101 Kimber Ave	Bakersfield	93307
273143	5F	Central Valley (Fresno)	North of River WWTF	North of River SD #1	28970 7th Standard Road	Shafter	93264
214899	5F	Central Valley (Fresno)	Clovis WWTF	Clovis City	9700 East Ashlan Avenue	Clovis	93619
214652	5F	Central Valley (Fresno)	Merced WWTF	Merced City	10260 Gove Road	Merced	95340
222491	5F	Central Valley (Fresno)	El Portal WWTF	USDI National Park Service Yosemite National Park	5083 Foresta Road, #BLDG 750	El Portal	95318
273166	5F	Central Valley (Fresno)	Cutler-Orosi WWTF	Cutler-Orosi JT Powers WW Authority	40401 Road 120	Cutler	93615
747519	5F	Central Valley (Fresno)	Atwater Regional WWTF	Atwater City	530 South Bert Crane Road	Atwater	95340
273104	5F	Central Valley (Fresno)	Arvin WWTF	Arvin City	2401 El Camino Real	Arvin	93203
273208	5F	Central Valley (Fresno)	Bakersfield WWTP #2	Bakersfield City	1700 E Planz Road	Bakersfield	93307
273209	5F	Central Valley (Fresno)	Bakersfield WWTP #3	Bakersfield City	6901 McCutchen Road	Bakersfield	93313

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
273113	5F	Central Valley (Fresno)	Farmersville WWTF	Farmersville City	909 W Visalia Rd	Farmersville	93223
273106	5F	Central Valley (Fresno)	Chowchilla WWTF	Chowchilla City	130 S Second Street	Chowchilla	93610
273108	5F	Central Valley (Fresno)	Corcoran WWTF	Corcoran City	832 Whitley Avenue	Corcoran	93212
233460	5F	Central Valley (Fresno)	Jamestown Sanitary District WWTF	Jamestown SD	17600 Highway 108	Jamestown	95327
273174	5F	Central Valley (Fresno)	Lamont WWTF	Lamont PUD	6525 East Bear Mountain Road	Lamont	93307
273123	5F	Central Valley (Fresno)	Madera WWTF	Madera City	13048 Rd 21 1/2	Madera	93637
201068	5F	Central Valley (Fresno)	Madera County #2 - Bass Lake WWTF	Madera County Public Works Department - Special Districts	40601 Rd 274	Bass Lake	93604
234841	5F	Central Valley (Fresno)	Kerman WWTF	Kerman City	15485 W. Church Ave	Kerman	93630
273121	5F	Central Valley (Fresno)	Lindsay WWTF	Lindsay City	23611 Road 196	Lindsay	93247
273122	5F	Central Valley (Fresno)	Los Banos WWTF	Los Banos City	411 Madison Ave	Los Banos	93635
220469	5F	Central Valley (Fresno)	Livingston Domestic WWTF	Livingston City	7160 North Gallo Road	Livingston	95334
273119	5F	Central Valley (Fresno)	Huron WWTF	Huron City	P.O. Box 339, 36311 S Lassen Ave	Huron	93234
273116	5F	Central Valley (Fresno)	Gustine WWTF	Gustine City	26501 Carnation Road	Gustine	95322
273118	5F	Central Valley (Fresno)	Hanford WWTF	Hanford City	10555 Houston	Hanford	93230
273127	5F	Central Valley (Fresno)	Orange Cove WWTF	Orange Cove City	633 Sixth Street	Orange Cove	93646

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
817457	5F	Central Valley (Fresno)	Tesoro Viejo Wastewater Treatment Plant	Tesoro Viejo Master Mutual Water Company	2042 Second Street	Madera	93636
273133	5F	Central Valley (Fresno)	Sanger WWTF	Sanger City	1700 7th Street	Sanger	93657
273187	5F	Central Valley (Fresno)	Selma-Kingsburg-Fowler CSD WWTF	Selma-Kings-Fowler CSD	11301 East Conejo Ave	Kingsburg	93631
273131	5F	Central Valley (Fresno)	Reedley WWTF	Reedley City	1701 West Huntsman	Reedley	93654
273140	5F	Central Valley (Fresno)	Woodlake WWTF	Woodlake City	811 South Valencia Boulevard	Woodlake	93286
273196	5F	Central Valley (Fresno)	Wasco WWTF	Wasco City	746 8th Street	Wasco	93280
273138	5F	Central Valley (Fresno)	Visalia WWTF	Visalia City	7579 Ave 288	Visalia	93277
273137	5F	Central Valley (Fresno)	Tulare WWTF	Tulare City	1875 South West Street	Tulare	93274
257763	5F	Central Valley (Fresno)	Sonora Regional WWTF	Tuolumne Utilities District	1400 Southgate	Sonora	95370
273180	5F	Central Valley (Fresno)	Malaga CWD WWTF	Malaga CWD	3601 S Maple Ave	Fresno	93725
246203	5R	Central Valley (Redding)	Orland WWTP	Orland City	6917 Co Rd 200	Orland	95963
214802	5R	Central Valley (Redding)	Clear Creek WWTP	Redding City	2220 Metz Road	Anderson	96007
246251	5R	Central Valley (Redding)	Sewerage Commission Oroville Region WWTP	Sewerage Commission Oroville Region	2880 South 5th Avenue	Oroville	95965
215750	5R	Central Valley (Redding)	City of Corning WWTP	Corning City	25010 Gardiner Ferry Road	Corning	96021
252119	5R	Central Valley (Redding)	Red Bluff WW Reclamation Plant	Red Bluff City	700 Messer Drive	Red Bluff	96080
256627	5R	Central Valley	Scheata Lake WWTF	Scheata Lake City	3700 Tibbits	Scheata Lake	96040

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
846487	5R	Central Valley (Redding)	American Valley WWTP	American Valley CSD	900 Spanish Creek Road	Quincy	95971
254981	5S	Central Valley (Sacramento)	Sacramento Regional WWTP	Sacramento Regional CSD	8521 Laguna Station Road	Elk Grove	95758
215236	5S	Central Valley (Sacramento)	Sac City Combined WW Collection/TRT Sys	Sacramento City	1395 35th Avenue	Sacramento	95822
219223	5S	Central Valley (Sacramento)	City of Davis WWTP	Davis City	45400 County Road 28H	Davis	95776
214647	5S	Central Valley (Sacramento)	Live Oak City WWTP	Live Oak City	3450 Treatment Road	Live Oak	95953
220315	5S	Central Valley (Sacramento)	Discovery Bay WWTP	Town of Discovery Bay CSD	1800 Willow Lake Road	Discovery Bay	94514
268926	5S	Central Valley (Sacramento)	UC Davis Main WWTP	UC Davis	1140 Old Davis Road	Davis	95620
241146	5S	Central Valley (Sacramento)	City of Modesto WQCF	Modesto City	1221 Sutter Avenue	Modesto	95351
206733	5S	Central Valley (Sacramento)	Auburn WWTP	Auburn City	10441 Ophir Road	Auburn	95603
266439	5S	Central Valley (Sacramento)	Northwest WWTF	Rio Vista City	3000 Airport Road	Rio Vista	94571
229595	5S	Central Valley (Sacramento)	Hangtown Creek WRF	Placerville City	2300 Coolwater Creek Road	Placerville	95667
258739	5S	Central Valley (Sacramento)	Stockton Regional WW Control Facility	Stockton City	2500 Navy Drive	Stockton	95206
227818	5S	Central Valley (Sacramento)	Grass Valley City WWTP	Grass Valley City	556 C Freeman Lane	Grass Valley	95949
266737	5S	Central Valley (Sacramento)	Turlock Regional Water Quality Control Facility	Turlock City	901 South Walnut Road	Turlock	95380
248706	5S	Central Valley (Sacramento)	Pleasant Grove WWTP	Roseville City	5051 Westpark Drive	Roseville	95747
245949	5S	Central Valley (Sacramento)	Olivehurst WWTP	Olivehurst PUD	3908 Mary Avenue	Olivehurst	95961

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
222434	5S	Central Valley (Sacramento)	El Dorado Hills WWTP	El Dorado Irrigation District	4625 Latrobe Road	El Dorado Hills	95762
255180	5S	Central Valley (Sacramento)	San Andreas SD WWTP	San Andreas SD	675 Gold Oak Road	San Andreas	95249
222916	5S	Central Valley (Sacramento)	Escalon Treatment Plant	Escalon City	25100 West River Road	Escalon	95320
220396	5S	Central Valley (Sacramento)	Dixon WWTF	Dixon City PWD	6915 Pedrick Road	Dixon	95620
214812	5S	Central Valley (Sacramento)	Clearlake Oaks Co WTR Dis WWTP	Clearlake Oaks Cnty Water Dist	13705 Jensen Road	Clearlake Oaks	95423
213947	5S	Central Valley (Sacramento)	Ceres WWTP	Ceres City	4200 Morgan	Ceres	95307
271781	5S	Central Valley (Sacramento)	City of Lathrop Consolidated Treatment Facility	Lathrop City	18800 Christopher Way	Lathrop	95330
257927	5S	Central Valley (Sacramento)	Southeast Regional WW System	Lake Cnty	2485 Old Hwy 53	Clearlake	95422
238365	5S	Central Valley (Sacramento)	Lincoln City WWTF	Lincoln City	1245 Fiddymnt Road	Lincoln	95648
272444	5S	Central Valley (Sacramento)	White Slough Water Pollution Control Facility	Lodi City	12751 North Thornton Road	Lodi	95242
230812	5S	Central Valley (Sacramento)	Hughson WWTF	Hughson City	6700 Leedom Road	Hughson	95326
226690	5S	Central Valley (Sacramento)	Galt WWTP & Reclamation Facility	Galt City	10059 Twin Cities Road	Galt	95632
232656	5S	Central Valley (Sacramento)	Ironhouse WWTF	Ironhouse Sanitary District	450 Walnut Meadows Drive	Oakley	94561
245602	5S	Central Valley (Sacramento)	Oakdale WWTF	Oakdale City	9700 Liberini	Oakdale	95361
247782	5S	Central Valley (Sacramento)	City of Patterson WQCF	Patterson City	14901 Poplar Avenue	Patterson	95363
244250	5S	Central Valley (Sacramento)	City of Newman Wastewater Treatment Facility	Newman City	2600 Hill Ferry Road	Newman	95360

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
220768	5S	Central Valley (Sacramento)	Dry Creek WWTP	Roseville City	1800 Booth Road	Roseville	95747
271836	5S	Central Valley (Sacramento)	Waterford WWTP	Waterford City	335 South Western Avenue	Waterford	95386
272960	5S	Central Valley (Sacramento)	Woodland Water Pollution Control Facility	Woodland City	42929 County Road 24	Woodland	95776
239343	5S	Central Valley (Sacramento)	City of Manteca WW Quality Control Facility	Manteca City	2450 West Yosemite Avenue	Manteca	95337
241598	5S	Central Valley (Sacramento)	Mountain House WWTP	Mountain House CSD	17103 West Bethany Road	Mountain House	95391
204475	6	Lahontan	Adelanto WWTP	Adelanto Public Utility Authority	19101 Jonathan Street P.O. Box 771	Adelanto	92301
209662	6	Lahontan	Bishop Sewage Treatment Plant	Bishop City	377 W. Line Street	Bishop	93514
259230	6	Lahontan	STPUD Wastewater Treatment Plant	South Tahoe PUD	1275 Meadow Crest Drive	South Lake Tahoe	96150
262840	6	Lahontan	Martis Valley Water Reclamation Plant	Tahoe-Truckee Sanitation Agency	13720 Butterfield Drive	Truckee	96161
761913	6	Lahontan	VVWRA Sub-Regional Plant-Apple Valley	Victor Valley Wastewater Reclamation Authority	21012 Otoe Road	Apple Valley	92307
761903	6	Lahontan	VVWRA- Sub-Regional Plant-Hesperia	Victor Valley Wastewater Reclamation Authority	14269 Mojave St	Hesperia	92345
270419	6	Lahontan	Victor Valley Wastewater Reclamation Authority WTP	Victor Valley Wastewater Reclamation Authority	20111 Shay Road	Victorville	92394
747480	6	Lahontan	SCLA Central WWTP-Victorville Water Dist	Victorville City	14343 Civic Center Drive	Victorville	92392
236378	6	Lahontan	Lancaster Water Reclamation Plant	Los Angeles County Sanitation District 14	1865 West Avenue D	Lancaster	93534

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
236181	6	Lahontan	Lake Arrowhead CSD WTFS	Lake Arrowhead Community Services District	P.O. Box 700	Lake Arrowhead	92352
253293	6	Lahontan	Rosamond WTF (Ponds)	Rosamond CSD	875 Patterson Road	Rosamond	93560
230011	6	Lahontan	Helendale Silverlakes STP	Helendale CSD	Wild Road and Helendale Road	Helendale	92342
212648	6	Lahontan	California City WTF	City of California City	10835 Nelson Dr.	California City	93595
234123	6	Lahontan	June Lake PUD STP	June Lake PUD	45125 Highway 395	June Lake	93529
259689	6	Lahontan	Susanville CSD	Susanville Consol SD	476-200 Paul Bunyan Road	Susanville	96130
214933	7	Colorado River	Coachella SD WWTP	Coachella SD	87075 Avenue 54	Coachella	92236
232297	7	Colorado River	Imperial City WWTP	Imperial City	701 East 14th Street	Imperial	92251
210272	7	Colorado River	Brawley City WWTP	Brawley City	5015 Best Road	Brawley	92227
270096	7	Colorado River	Valley SD WWTP	Valley Sanitary District	45500 Van Buren Street	Indio	92201
222407	7	Colorado River	El Centro City WWTP	El Centro City	2255 La Brucherie Road	El Centro	92243
216446	7	Colorado River	Coachella Valley WD WWTP	Coachella Valley WD	63-002 Filmore Street	Thermal	92274
212739	7	Colorado River	Calipatria City WWTP	Calipatria City	106 Lindsey Road	Calipatria	92233
208668	7	Colorado River	City of Banning WWTP	Banning City	2242 East Charles Street	Banning	92220
209847	7	Colorado River	Blythe Regional WW Reclamation Facilities	Blythe City	15901 South Broadway	Blythe	92225
208930	7	Colorado River	BB Reg WWA-Lucerne Vly	Big Bear Area Regional WW Agency	122 Palomino Drive	Big Bear City	92314

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
244080	7	Colorado River Basin	Needles WWTP	Needles City	516 Broadway	Needles	92363
259156	8	Santa Ana	Michelson WWRF	Irvine Ranch Water District	3512 Michelson Drive	Irvine	92612
259209	8	Santa Ana	Perris Valley RWRF	Eastern Municipal Water District	1301 Case Road	Perris	92570
259193	8	Santa Ana	San Jacinto Valley RWRF	Eastern Municipal Water District	770 North Sanderson	San Jacinto	92582
758392	8	Santa Ana	OCSD Plant 1	Orange CSD	10844 Ellis Ave	Fountain Valley	92708
259158	8	Santa Ana	OCSD Plant 2	Orange CSD	22212 Brookhurst St	Huntington Beach	92646
259150	8	Santa Ana	Riverside City WWRF	Riverside City	5950 Acorn Street	Riverside	92504
259178	8	Santa Ana	Colton/San Bernardino STP, RIX	Colton/San Bernardino RTT&WRA	1990 Agua Mansa Road	Colton	92324
259220	8	Santa Ana	Margaret H Chandler WWRF	San Bernardino City Municipal Water Dept	399 Chandler Place	San Bernardino	92408
259171	8	Santa Ana	Corona WWRF #1	Corona City DWP	2205 Railroad Street	Corona	92880
259205	8	Santa Ana	WRCRWA Regional WWRF	Western Riverside County Regional Wastewater Authority	14634 River Rd	Corona	92880
259184	8	Santa Ana	IEUA Carbon Canyon WWRF	Inland Empire Utilities Agency	14950 Telephone Avenue	Chino	91708
259161	8	Santa Ana	Henry N. Wochholz WWRF	Yucaipa Valley Water District	880 W County Line Ln	Calimesa	92320
259214	8	Santa Ana	EVMWD Regional WWRF	Elsinore Valley Municipal Water Dist	14980 Strickland Road	Lake Elsinore	92531
259216	8	Santa Ana	Temescal Valley WD WWRF	Temescal Valley Water District	22646 Temescal Canyon Road	Corona	92883
259149	8	Santa Ana	Rialto WWRF	Rialto City	501 East Santa Ana Avenue	Bloomington	92316

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
259203	8	Santa Ana	Moreno Valley RWRF	Eastern Municipal Water District	17140 Kitching Street	Moreno Valley	92551
259173	8	Santa Ana	Corona WWRF #2	Corona City DWP	650 Harrison Street	Corona	92879
643085	8	Santa Ana	Lytle Creek North WWTP	San Bernardino Cnty Special Districts	18100 Institution Road	San Bernardino	92321
259148	8	Santa Ana	Redlands WWRF	Redlands City	1950 Nevada Street	Redlands	92373
259160	8	Santa Ana	Running Springs WWTP	Running Springs Water Dist	3400 Sewer Plant Road	Running Springs	92382
259174	8	Santa Ana	Corona WWRF #3	Corona City DWP	3997 Temescal Canyon Road	Corona	92883
259165	8	Santa Ana	IEUA Regional Plant No. 1	Inland Empire Utilities Agency	2450 Philadelphia Street	Ontario	91761
742794	8	Santa Ana	IEUA Regional Plant No. 4	Inland Empire Utilities Agency	12811 Sixth Street	Rancho Cucamonga	91729
259169	8	Santa Ana	IEUA Regional Plant No. 5	Inland Empire Utilities Agency	6068 Kimball Avenue	Chino	91710
257520	9	San Diego	SMWD Oso Creek WRP	SOCWA-Recycled Water Use	27204 La Paz Rd	Mission Viejo	92692
262995	9	San Diego	TCWD Goren WTP	SOCWA-Recycled Water Use	Live Oak Canyon Road	Trabuco Canyon	92679
262996	9	San Diego	TCWD Robinson Ranch WRF	SOCWA-Recycled Water Use	21397 Heritage Rd	Trabuco Canyon	92679
229726	9	San Diego	HARRF DISCH to San Elijo Ocean Outfall	Escondido City	1521 Hale Avenue	Escondido	92029
236019	9	San Diego	La Salina WWTP, Oceanside Ocean Outfall	Oceanside City	1330 South Tait Street	Oceanside	92054
255392	9	San Diego	San Luis Rey Water Reclamation Facility	Oceanside City	3950 North River Road	Oceanside	92058
237396	9	San Diego	IRWD Los Alisos WRP	SOCWA-Aliso Creek Ocean O/F	15600 Sand Canyon Avenue	Irvine	92618

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Facility ID	Region #	Regional Board	Facility Name	Agency Name	Address	City	Zip
257821	9	San Diego	South Bay International WTP	IBWC-US & Mexico Section	2995 Clearwater Way	San Diego	92154
248796	9	San Diego	Point Loma WWTP & Ocean Outfall	San Diego City Metropolitan Wastewater Dept (Public Utilities)	1902 Gatchell Road	San Diego	92106
224137	9	San Diego	Fallbrook Water Reclamation Plant	Fallbrook Public Utility District	1425 South Alturas Street	Fallbrook	92028
222758	9	San Diego	Encina WRCPF	Encina Wastewater Authority	6200 Avenida Encinas	Carlsbad	92009
213270	9	San Diego	Carlsbad WRF	Carlsbad MWD	6200 Avenida Encinas	Carlsbad	92009
202611	9	San Diego	4-S Ranch WRF	Olivenhain Municipal Water District	16595 Dove Canyon Road	San Diego	92127
247351	9	San Diego	Ray Stoyer Water Recycling Facility	Padre Dam Municipal Water District	12001 North Fanita Parkway	Santee	92071
251548	9	San Diego	Ralph W Chapman WRF	Otay MWD	11901 Singer Lane	Spring Valley	91978
255265	9	San Diego	San Elijo Water Reclamation Facility	San Elijo Joint Powers	2695 Manchester Avenue	Encinitas	92007
241054	9	San Diego	3A Treatment Plant	SOCWA-Recycled Water Use	26801 Camino Capistrano	Laguna Niguel	92677
257850	9	San Diego	SOCWA Coastal TP	SOCWA-Recycled Water Use	28303 Alicia Pkwy	Laguna Niguel	92677
255218	9	San Diego	City of San Clemente WRP	SOCWA-San Juan Creek Ocean O/F	380 Avenida Pico	San Clemente	92672
244506	9	San Diego	North City WRP	San Diego City Metropolitan Wastewater Dept (Public Utilities)	4949 Eastgate Mall	San Diego	92121
257831	9	San Diego	South Bay WRP	San Diego City Metropolitan	2411 Dairy Mart	San Diego	92154

ATTACHMENT 3

TECHNICAL SAMPLING AND REPORTING REQUIREMENTS

WATER CODE SECTION 13267/13383 ORDER FOR THE DETERMINATION OF THE PRESENCE OF PER-AND POLYFLUOROALKYL SUBSTANCES AT PUBLICLY OWNED TREATMENT WORKS (POTWs)

Content:

- A. Justification*
- B. Sampling and Analysis Requirements*
- C. Reporting Requirements*

California Water Code Section 13267b (1) requires a written explanation of the need for reports and the evidence that supports requiring the reports. This justification is provided in Section A. The technical requirements for this Order include Sampling and Analysis (Section B) and Reporting (Section C). Section B describes the general sampling and analysis requirements with specifics about the types and frequency of sample collection for the POTW and groundwater monitoring wells. Groundwater monitoring well sampling is only required for those POTWs with an existing groundwater monitoring program approved by the Regional Board. Section C describes the reports required for the submittal of completed sampling and analysis conducted pursuant to Section B, below. Section D requires a questionnaire to be completed for each POTW by the responsible agency. The completed questionnaire provides various information about the processes of the POTW, including wastewater and biosolids – commonly associated with the presence of PFAS at POTWs, based on recent studies across the US and the world.

A. JUSTIFICATION

Studies being conducted across the nation are linking consumer and industrial use of PFAS-containing materials, including disposal of landfill leachate and firefighting foam, to PFAS results in the influent and effluent discharge at POTWs. Two examples are provided below based on a January 2020 POTW study in Vermont and a 2014 study performed in the San Francisco (SF) Bay Area in California.

The State of Vermont's recently published January 2020 results¹ indicate widespread presence of PFAS at their POTWs. Sampling and analysis were performed from 1) landfill leachate at four landfills and 2) POTW influent, effluent, and sludge, and septage at 30 POTWs. Some of the key take-aways from this report are:

¹ 2020. Poly- and Perfluoroalkyl Substances at Wastewater Treatment Facilities and Landfill Leachate – 2019 Summary Report. Weston & Sampson. January 30.
(https://dec.vermont.gov/sites/dec/files/wmp/SolidWaste/Documents/02.03.20_PFAS%20in%20LF%20and%20WWTF%20Final%20Report.pdf)

- PFAS are present in all landfill leachate (correlates to data being reported from statewide PFAS Orders sent to California landfills in March 2019)
- PFAS are also present in all POTW influent, effluent, and sludge tested.
- Reductions in PFAS concentrations between influent and effluent samples implies sorption to sludges may be occurring.
- Concentrations of PFAS “replacement” compounds exceed the concentrations of the original compounds of PFOA and PFOS.
- Correlations between leachate and sludges (includes biosolids) were challenged by analytical method limitations and collection of uniform percent solid samples.

In California, wastewater effluent samples were collected from eight POTWs in 2009 and 2014 that discharge into the SF Bay². All samples contained PFAS among the 20 compounds analyzed. The study summarized that PFAS concentrations were about the same in the effluent since the 2009 sampling efforts except for two POTWs where the effluent concentrations were significantly higher since 2009 suggesting recent contributions from PFAS in the POTW’s influent.

B. SAMPLING AND ANALYSIS REQUIREMENTS

1. General Sampling and Analysis Requirements

- a. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge per their existing monitoring and reporting program. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance.
- b. Samples of the influent and effluent from the treatment system shall be a 24-hour composite for each sample. When using a composite sampler, information on the type of tubing used must be provided. Fluoropolymer tubing, parts, valves, and other parts should be avoided. Preferable materials include high-density, polyethylene (HDPE), polypropylene, silicone, stainless steel, nylon, PVC, and acetate. Equipment that contains fluoropolymer parts can be used if those parts are internal to the equipment and does not contact the sample. If a composite sampler is used that has fluoropolymer parts, then an equipment blank sample must be collected for each composite sampler used and analyzed for PFAS to determine the potential contribution by the sampler of fluoropolymers in the sample.
- c. For POTWs that also sample effluent after advanced treatment to meet a Surface Water Source Augmentation Project (SWSAP) (California Code of Regulations Title 22 Sections 60320.300 through 60320.330), the sample location specified in

² 2016. Poly- and perfluoroalkyl substances in wastewater: Significance of unknown precursors, manufacturing shifts, and likely AFFF impacts. Erika F. Houtz, Rebecca Sutton, June-Soo Park, Margaret Sedlak. Water Research, Volume 95, 15 May 2016, Pages 142-149.

this Order can be the same location of the representative sample collected of the recycled municipal wastewater in the SWSAP.

- d. Influent samples shall be taken from locations prior to primary settling, which include but are not limited to the headworks of the inlet to the grit chamber or prior to any biological treatment. Samples shall be collected at such a point and in such a manner to ensure a representative sample of influent containing all wastes accepted by the facility prior to any treatment.
- e. Effluent samples shall be taken following completion of all treatment processes and prior to mixing with the receiving waters. (i.e., surface water, groundwater, or ocean). Samples shall be collected at such a point and in such a manner to ensure a representative sample of the discharge. For POTWs that also sample effluent per Title 22 requirements, the effluent sample mentioned in this Order may be taken at the same location.

If, following completion of treatment, the effluent is placed into storage pond(s) and not discharged into receiving waters, , then the effluent sample shall be collected from the treatment system discharge following completion of treatment and prior to the entering the effluent storage pond(s).

- f. Sample of the reverse osmosis concentrate/retentate shall be collected via grab sample method and must be representative of the volume and nature of the discharge.
- g. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. All monitoring instruments and devices used by the responsible agency to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary, at least yearly, to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices.
- h. Sampling for biosolids after all treatment processes have been completed shall be made either prior to or post biosolids harvesting for dewatering and disposal/reuse. Samples may be collected from biosolids storage ponds, biosolids drying beds, post-processing storage piles or other similar points after processing and prior to disposal/reuse. When reporting the data, the concentrations of PFAS in the sample as provided to the laboratory and the percent moisture shall be reported. Also include the class of biosolids sampled in the report. A representative whole sample aliquot (both fractions) will be collected, analyzed by the laboratory, and reported in nanograms per kilogram.
- i. Sample results from liquid samples shall be reported in units of nanograms per liter (ng/L). Sample results for biosolids shall be reported in units of nanograms per kilogram (ng/kg).

- j. Monitoring results shall be reported at intervals and in a manner specified below in Section C.2 and C.3.
- k. A laboratory providing sample analyses must hold a valid certificate of accreditation from the State of California Environmental Laboratory Accreditation Program (ELAP) for the analytes selected in Table 1 in compliance with Department of Defense (DoD) Table B-15 of Quality Systems Manual (QSM), dated 2017, version 5.1 or later. The laboratory must be capable of achieving the quality control/quality assurance requirements specified in Table B-15 of the DoD QSM, version 5.1 or later. The DoD QSM can be found at: <https://denix.osd.mil/edqw/documents/> as well as on the State Water Board's PFAS informational website: <https://www.waterboards.ca.gov/pfas/background.html/>.

A list of laboratories that are accredited by ELAP can be found on the State Water Board's PFAS webpage: <https://www.waterboards.ca.gov/pfas/>.

Analytical reporting limits for sample matrices can be found on the Water Board's PFAS webpage: <https://www.waterboards.ca.gov/pfas/> (under non-drinking water tab, then Documents folder).

- l. PFAS sample collection protocol shall follow the guidance located at: https://www.waterboards.ca.gov/pfas/docs/march_pfas_sampling_guidelines.pdf.
- m. Collection of biosolid samples shall follow U.S. EPA's Sampling Procedures and Protocols for the National Sewage Sludge Survey located at: https://www.epa.gov/sites/production/files/2015-04/documents/nsss1988_sampling_procedures.pdf

2. Treatment System Sampling Locations and Frequencies

- a. For POTWs with average dry weather design flows of five mgd or greater:
 - i. Sampling shall commence with the Fourth Quarter 2020 sampling period (October-December 2020).
 - ii. Sampling and analysis for PFAS of the POTW influent, effluent, and reverse osmosis concentrate/retentate shall occur quarterly for a one-year period.
 - iii. Biosolids shall be sampled to determine its PFAS and moisture content quarterly for a one-year period.
- b. For POTWs with average dry weather design flows less than five mgd, but greater than or equal to one mgd:
 - i. Sampling shall commence with the Fourth Quarter 2020 sampling period (October-December 2020).

- ii. Sampling and analysis for PFAS of the POTW influent, effluent, and reverse osmosis concentrate/retentate shall occur quarterly for a one-year period.
- iii. Biosolids shall be sampled to determine its PFAS and moisture content once during the first year of this Order.

3. Groundwater Monitoring Well Sampling and Analysis

- a. One-time groundwater monitoring for PFAS is required for POTWs with existing groundwater monitoring and reporting programs under an order (e.g., monitoring and reporting program) issued by the State or Regional Board.
- b. Within **60-days prior to conducting the first groundwater monitoring event**, the responsible agency shall provide to the appropriate Regional Water Board the following information:
 - i. A figure of the groundwater monitoring well network, groundwater flow direction, and indicate of the monitoring wells proposed to be sampled.
 - ii. Rationale for the selection of the groundwater monitoring wells to be used for representative sampling for PFAS. A minimum of three wells in the upper water bearing zone shall be selected.
 - i. After the Regional Board approves the PFAS groundwater monitoring proposal, monitoring shall commence during the next groundwater monitoring period as specified in the POTWs existing groundwater monitoring and reporting program but **no sooner than the Fourth Quarter 2020 sampling period (October-December 2020)**.
 - ii. The PFAS analytes mentioned in Section B.1.j will be analyzed from the samples collected from selected groundwater monitoring wells once within the first year of implementation of this order.
- c. The collection of samples shall comply with the standard operating procedures for sample collection established for the existing groundwater monitoring program (including the field parameters and general chemistry parameters in Table 2 of this Attachment) and supplemented by the PFAS-specific adjustments required under Section B.1.l.

C. REPORTING REQUIREMENTS

1. General Reporting Requirements

- a. All documentation, including but not limited to, the groundwater monitoring proposal, reports (treatment sampling and analysis and/or groundwater analysis)

and analytical reports must be uploaded into GeoTracker via the Electronic Submittal of Information (ESI) Portal, as stipulated by California State law (California Code of Regulations Title 23, Division 3, Chapter 30). The groundwater monitoring proposal and final report must be submitted in a searchable portable document format (pdf) with transmittal letter, text, tables, figures, laboratory analytical data, and appendices (one PDF for the entire report) as well as analytical data in electronic data deliverable (EDD) format.

Instructions on how to log into GeoTracker and upload reports and documents into the ESI portal is available at:

https://www.waterboards.ca.gov/ust/electronic_submittal/index.html. Step by step instructions are provided in the ESI Guide for Responsible Parties under the "Getting Started" section of this webpage.

GeoTracker Help Desk assistance can be found on the ESI homepage (www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal).

Note: The EDD requirement includes all analytical data, sampling location information, monitoring well information (e.g. latitudes, longitudes, elevations, and depth to water, well construction information, site maps, and boring logs).

- b. The report must provide a description of the sampling activities, summary of the analytical results, copy of the chain of custody, and a copy of the laboratory analytical results.
- c. In the monitoring report, the responsible agency must certify that the sampling for PFAS was conducted according to the guidance documents in Section B.1.l and B.1.m. If deviations from the guidance occurred, details on those deviations need to be included in the report.
- d. The responsible agency must acknowledge compliance with the guidance documents listed in Section B.1.l and B.1.m, and if not, provide rationale for any variations in the report.

2. Monitoring Report for the Treatment System Sampling and Groundwater Sampling Analysis Results

- a. Analytical results from the treatment system sampling and groundwater sampling event will be uploaded within **30 days** of receiving laboratory analytical report into GeoTracker's ESI portal.
- b. One monitoring report for the treatment system and groundwater monitoring shall be submitted into GeoTracker's ESI portal no later than **60 days** following the receipt of the last analytical laboratory report.

- c. The monitoring report shall include text describing the sampling locations utilized and a figure of the facility with locations of the influent and effluent samples (include locations of representative sampling points (e.g. sampling points for more than one influent or effluent line)), groundwater monitoring wells, biosolids samples, brine line samples (if applicable), and flow measurement devices (mentioned in Section B.1.d).
- d. The report shall include all reported data (analytical results, flow measurements, groundwater monitoring well measurements (if applicable) in a tabular format.
- e. The report shall include all laboratory analysis sheets, including quality assurance/quality control information for which sample analyses were performed.
- f. The report shall include a description of any variations in sampling from what was provided to the Regional Water Board as part of Section C.3.b.

3. POTW Informational Questionnaire

- a. A link to an Adobe Acrobat-fillable questionnaire will be sent via email to the responsible agency when the Order is issued. The format of the questionnaire and instructions on how to complete the questionnaire is provided in **Section D**.
- b. The questionnaire shall be completed by the responsible agency and submitted **no later than the submittal of the second quarter analytical results** from the treatment system sampling.
- c. The responsible agency shall upload the completed questionnaire and attachments requested in the questionnaire as separate ESI files in GeoTracker using the responsible party's GeoTracker Global ID number (Attachment 2).
- d. Instructions on how to log into GeoTracker is available at:
https://www.waterboards.ca.gov/ust/electronic_submittal/index.html. Step by step instructions are provided in the *ESI Guide for Responsible Parties* under the "Getting Started" section of this webpage.

GeoTracker Help Desk assistance can be found on the ESI homepage at:
www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal.

- e. The minimum information identified below is included in the questionnaire. The questionnaire spreadsheet will be pre-populated with information since the responsible agency has already submitted the same information to the State Water Board (those items are shown in bracket [] form).
 - i. Waste Discharger Identification (WDID) Number [WDID].
 - ii. GeoTracker Global ID.

- iii. Name of Responsible Agency [AGENCY NAME].
- iv. Address of Responsible Agency.
- v. Name of POTW [FACILITY NAME].
- vi. Address of POTW [FACILITY ADDRESS/PLACE ADDRESS].
- vii. Mailing address of POTW.
- viii. Name and title of POTW Point of Contact.
- ix. POTW Point of Contact phone number.
- x. POTW Point of Contact email address.
- xi. Current average annual flow (mgd).
- xii. Average flow during June-Sept 2019 (mgd).
- xiii. Types of wastewaters (e.g. industrial, domestic) received and estimated percentages of total flow (mgd) based on calendar year 2019.
- xiv. If wastewaters are received from industrial sources, provide a list of industry types contributing flow to the POTW and estimated percentage of flow for each type for the calendar year of 2019. Provide for each industrial type if the flow is continuous, periodic, and/or non-routine.
- xv. Any storage basins (non-percolation) in use? If so, how many, any unlined, how many with leak detections systems, and their frequency of use.
- xvi. Plans to recycle water to Title 22 standards within the next 5 years.
- xvii. Amount of sewage sludge and biosolids (by class type) produced in the calendar year of 2019.
- xviii. Disposal options used for sewage sludge and biosolids and estimate volume percentage for the calendar year of 2019.
- xix. Landfill leachate accepted at the facility and if so, provide the name of landfill, years accepted, and estimated volumes for the past 5 years.
- xx. Reverse osmosis concentrate/retentate produced at the facility and if so, the volume produced in 2019 and annual average produced for the past 5 years.
- xxi. PFAS sampling prior to this Order, PFAS sampling been performed in compliance with an Order/Permit/Monitoring Reporting Program and submitted to a Regional Water Quality Control Board, and PFAS sampling been performed for internal/informal testing by others for research.

Section D. POTW Online Questionnaire and Instructions

1. This questionnaire will need to be filled out on **Adobe Acrobat** Software. This will ensure that your responses are correctly recorded. Please install this software prior to starting the questionnaire.

1. A free download of the Adobe Acrobat Reader software is available at the following link from Adobe's official website: <https://acrobat.adobe.com/us/en/acrobat/pdf-reader.html>. You can also fill this form out with Adobe Acrobat Pro DC software.
2. You will receive this questionnaire as an attachment in an email from PFAS@waterboards.ca.gov. Download and save the file locally to your computer and open with Adobe Acrobat software. The questionnaire will also be available in GeoTracker to your GeoTracker Account using your GeoTracker Global ID.
3. Fill out the questionnaire using Adobe Acrobat. Please type your answers into the fillable spaces as provided in the questionnaire and **save** it. You can print this file for your records.
4. **Upload the completed questionnaire and any associated attachments (if necessary) using the following instructions into GeoTracker.**
 1. Go to the GeoTracker ESI login page:
<https://geotracker.waterboards.ca.gov/esi/login.asp>
 - i. If you do not have an account, you can create one by clicking on the "Password Request" link.
 2. If you already have upload access to your facility record, please skip to step 7. If not, please continue to step 3.
 3. Once you are in your account, please go to the "Facility Management" section and click "Request Additional Facilities".



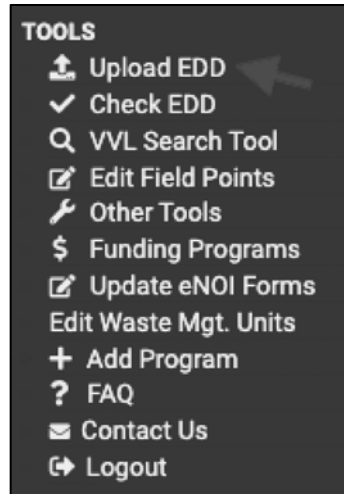
4. In the Global ID box, please type in the Global ID for the site and click the Search button. You can also search by facility name or address, but Global ID tends to be more reliable.

Global ID	Facility Name	Status	Street Name	City	County		
						Search	Reset

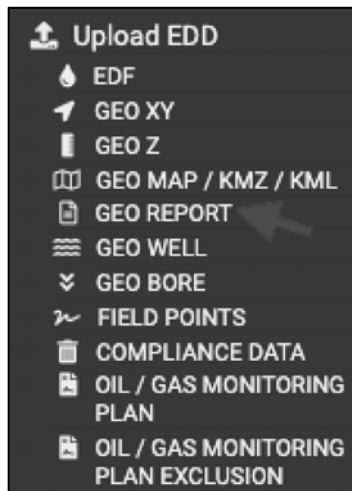
5. Select the box next to the Global ID for the site and click the "Request Checked Facilities" button.

☒	AGW080012673	-1
Request Checked Facilities		

6. Once your request has been approved, you should be able to upload the document.
7. Go to the "Tools" section and click on "Upload EDD".



8. Click on "GEO_REPORT".



9. Locate and click on the name of the facility listed in the middle of the page.
10. Fill out the electronic form and upload the file.

REPORT TITLE
REPORT TYPE
v
REPORT DATE - Enter the actual date (m/d/yyyy) of the written report being uploaded
6/30/2020
FILE - PDFS ARE LIMITED TO 400MB
Choose File No file chosen
Please link your report to a submitted EDF file below. If there is no EDF file associated with this report, please ignore this section.
NO EDFS HAVE BEEN UPLOADED TO THIS FACILITY
☐ IS YOUR FILE LESS THAN 400MB IN SIZE?
Upload File

i. Note for "Report Title"

1. For the Questionnaire, title the file with the format "[*Name of POTW*]_Questionnaire".

For example, if the name of the facility is California Wastewater Treatment Plant, your file name should be "California Wastewater Treatment Plant_Questionnaire".

2. For the Questionnaire attachments, title the file with the format "[*Name of POTW*]_QuestionnaireAttachment_[*Question #*]"

For example, if the name of the facility is California Wastewater Treatment Plant and the attachment is associated with Question #8, your file name should be "California Wastewater Treatment Plant_QuestionnaireAttachment_Question 8".

ii. Note for "Report Type"

1. For uploading the completed Questionnaire, select "POTW Questionnaire", which is located under the "Other" section.
2. For the Attachments to the Questionnaire, select "POTW Questionnaire Attachment" which is located under the "Other" section.

5. If you have any further questions or need assistance, please email PFAS@waterboards.ca.gov.

PER- AND POLY-FLUOROALKYL SUBSTANCES (PFAS) – GENERAL INFORMATION
POTW-specific State Water Board ID #s
Waste Discharger Identification (WDID) Number:
GeoTracker Global ID:
Responsible Agency Information
Name of Responsible Agency:
Address of Responsible Agency:
City:
County:
State:
Zip:
POTW Information
Name of POTW:
Address of POTW:
City:
County:
State:
Zip:
POTW Mailing Address:
POTW Point of Contact Name:
POTW POC Title:
POTW POC Phone Number:
POTW POC Email Address:
Annual Average Flow (365-day calendar year)
1(a). What is the current's average annual flow at the facility? _____ MGD
1(b). What was the average flow during June-September 2019 at the facility? _____ MGD

Types of Wastewater Inflow and Volume Percentages				
2(a). Estimate relative contribution for each type of wastewater (e.g. Residential/Commercial, industrial) entering the treatment plant based on calendar year 2019 flows. _____ % Residential/Commercial _____ % Industrial				
2(b). If wastewaters are received from industrial sources, provide the types of industries that are contributing flow and the estimated percentage for the calendar year of 2019 in the following table. If the types of industries are not correlative to the data collected at your facility, please provide the industry types and correlative volume percentages in the blank lines provided.				
Industry Types – Influent Flow	Continuous Flow? (Yes/No/)	Periodic Flow? (Yes/No)	Non-Routine Influent Flow? (Yes/No)	2019 - Estimated Industrial Total Volume by Percentage (>5% of the total volume)
Airports				
Agricultural				
Automatic Vehicle Washing				
Breweries and Wineries				
Electronic Manufacturing (e.g., electronic components, semiconductors, capacitors, batteries)				
Fabricated Metal Products (e.g. chrome plating, electroplating, plating, polishing, anodizing, and coloring)				
Fire Training Centers				
Food Industry (e.g. processing plants)				
Industrial Laundries				
Landfills				
Leather Tanning and Finishing				
Military				
Oil and Gas Production				
Textiles and Carpet Finishing				
Pulp and Paper Manufacturing				
Other Industries (please fill in):				

3(d). Treated Wastewater Storage Basins Comments

Recycled/Reclaimed Wastewater

4. Are you planning to recycle water to Title 22 standards within the next 5 years?

- ☐ Yes
☐ No
☐ Other (Please Specify) _____

Sewage Sludge and Biosolids

5(a). What is the amount of sewage sludge and biosolids (by class type) produced in the calendar year of 2019?

Type	Amount Produced in Calendar Year 2019
Sewage Sludge – Any solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a municipal wastewater treatment facility. It includes solids removed or used during primary, secondary, or advanced wastewater treatment processes. It does not include grit or screening material generated during preliminary treatment of domestic sewage at a municipal wastewater treatment facility. Sewage sludge does not include biosolids that meet the criteria in Table 1 of 40 Code of Federal Regulations section 503.13.	_____ dry metric tons
Class A – Biosolids meeting the vector attraction, and meeting pollution concentration limits specified in 40 CFR Part 503 and pathogen reduction standards specified in 40 CFR Part 503.32(a).	_____ dry metric tons
Class A EQ (Exceptional Quality) – Biosolids which meet metals standards, Class A pathogen reduction standards, and vector attraction reduction standards contained in 40 CFR Part 503.13(3), 40 CFR Part 503.32(a), and 40 CFR Part 503.33(b)(1-8), respectively.	_____ dry metric tons
Class B – Biosolids which meet the vector attraction and meeting pollution concentration limits specified in 40 CFR Part 503 and pathogen reduction standards specified in 40 CFR Part 503.32(b).	_____ dry metric tons

- **Vector attraction reduction requirement for Class A, Class A EQ, and Class B:** One of the vector attraction reduction requirements in CFR Part 503.33 (b)(1) through (b)(10) shall be met.

- **Pollution concentration for Class A and Class B:** Biosolids that do not meet pollutant concentration limits in 40 CFR Part 503.13 (Table 3), but meet the ceiling limits in 40 CFR Part 503.13 (Table 1), can only be applied until the amount of metals on the site have accumulated up to the cumulative limits in 40 CFR Part 503.13 (Table 2).

5(b). What are the disposal options for sewage sludge and biosolids that were used at your facility and estimate volume percentage for the calendar year of 2019?

Note: The POTW may not know the final disposition of biosolids if sent to a composting facility for further treatment. It is not necessary to determine the final disposition after it leaves the POTW to complete the table below.

Disposal Options	Sewage Sludge - Estimated Volume Percentage for 2019	Biosolids – Estimated Volume Percentage for 2019
Agricultural land application		
Composting Facilities		
Forest lands		
Incineration		
Landfill Alternative Daily or Final Cover		
Landfill Disposal		
Mine reclamation sites		
Public distribution		
Use on Public lands		
Onsite dedicated land disposal		
Onsite long term storage		
Sent for further treatment (end use not for compost)		
Other (please fill in):		

5(c). Sewage Sludge and Biosolids Comments

Landfill Leachate																				
6(a). Has your facility accepted landfill leachate? ☐ YES ☐ NO																				
6(b). If yes to 6(a)., please use the table below to provide the name of landfill, years accepted, and estimated volumes for the past 5 years. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr style="background-color: #cccccc;"> <th style="width: 35%; text-align: center; padding: 5px;">Landfill Name</th> <th style="width: 25%; text-align: center; padding: 5px;">Years Accepted</th> <th style="width: 40%; text-align: center; padding: 5px;">Estimated Volumes per year (gallons per 365-day period)</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">1.</td> <td style="text-align: center; padding: 5px;">_____ to _____</td> <td style="text-align: center; padding: 5px;">_____ gallons/year</td> </tr> <tr> <td style="padding: 5px;">2.</td> <td style="text-align: center; padding: 5px;">_____ to _____</td> <td style="text-align: center; padding: 5px;">_____ gallons/year</td> </tr> <tr> <td style="padding: 5px;">3.</td> <td style="text-align: center; padding: 5px;">_____ to _____</td> <td style="text-align: center; padding: 5px;">_____ gallons/year</td> </tr> <tr> <td style="padding: 5px;">4.</td> <td style="text-align: center; padding: 5px;">_____ to _____</td> <td style="text-align: center; padding: 5px;">_____ gallons/year</td> </tr> <tr> <td style="padding: 5px;">5.</td> <td style="text-align: center; padding: 5px;">_____ to _____</td> <td style="text-align: center; padding: 5px;">_____ gallons/year</td> </tr> </tbody> </table> <i>If you need more space, please provide by attachment and upload to GeoTracker. Please refer to instructions at the end of this document for instructions on how to upload this attachment.</i>			Landfill Name	Years Accepted	Estimated Volumes per year (gallons per 365-day period)	1.	_____ to _____	_____ gallons/year	2.	_____ to _____	_____ gallons/year	3.	_____ to _____	_____ gallons/year	4.	_____ to _____	_____ gallons/year	5.	_____ to _____	_____ gallons/year
Landfill Name	Years Accepted	Estimated Volumes per year (gallons per 365-day period)																		
1.	_____ to _____	_____ gallons/year																		
2.	_____ to _____	_____ gallons/year																		
3.	_____ to _____	_____ gallons/year																		
4.	_____ to _____	_____ gallons/year																		
5.	_____ to _____	_____ gallons/year																		
6(c). Landfill Leachate Comments																				
Reverse Osmosis Concentrate/Retentate																				
7(a). Does your facility produce reverse osmosis concentrate/retentate? ☐ YES ☐ NO																				

7(b). If yes to 7(a), what is the volume of reverse osmosis concentrate/retentate produced in 2019 and annual average produced for the past 5 years?

_____ gallons in 2019

_____ gallons/year for the past 5 years

Note: Report volumes that are received directly at the coastal outfalls (not into the headworks) should be excluded.

PFAS Sampling

8(a). Has your facility performed PFAS sampling of influent, effluent, reverse osmosis concentrate/retentate, or biosolids prior to receiving this Order?

- ☐ YES
- ☐ NO

8(b). If yes to 8(a), was this sampling performed in compliance with an Order/Permit/Monitoring Reporting Program and submitted to a Regional Water Quality Board?

- ☐ YES
- ☐ NO

8(c). Has PFAS sampling been performed at your facility by others for research?

- ☐ YES
- ☐ NO

If yes, please provide by attachment and upload to GeoTracker. Please refer to instructions at the end of this document for instructions on how to upload this attachment.

8(d). Has your facility performed PFAS sampling for internal/informal testing?

- ☐ YES
- ☐ NO

If yes, please provide by attachment and upload to GeoTracker. Please refer to instructions at the end of this document for instructions on how to upload this attachment.

8(e). Has your facility been supplied with data or information that you possess concerning PFAS sampling conducted of samples collected for your facility's influent or effluent flow standards?

- ☐ YES
☐ NO

If yes, please provide by attachment and upload to GeoTracker. Please refer to instructions at the end of this document for instructions on how to upload this attachment.

CERTIFICATION

I, _____, certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision, and the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant civil penalties for submitting false information.

Contact Person: _____ Title: _____

Email Address: _____ Phone Number: _____

Chief Operator: _____ Title: _____

Email Address: _____ Phone Number: _____

Date: _____

Use this space to provide any further explanations for your questionnaire, if needed:

TABLE 1
PFAS ANALYTES SUBJECT TO ANALYSIS
AND THEIR RESPECTIVE REPORTING LIMITS

Chemical Name/ Abbreviation	GeoTracker PARLABEL	Fluorinated Alkane Carbon Chain Length*	Chemical Abstracts Service (CAS) No.	Required Reporting Limit for Liquids: Groundwater and Effluent (ng/L)	Required Reporting Limit for Solid: Soil/ Biosolids (µg/kg)
Perfluoroalkylcarboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)	PFBTA	C4	375-22-4	8.0	2.0
Perfluoropentanoic acid (PFPeA)	PFPA	C5	2706-90-3	5.0	1.0
Perfluorohexanoic acid (PFHxA)	PFHA	C6	307-24-4	5.0	1.0
Perfluoroheptanoic acid (PFHpA)	PFHPA	C7	375-85-9	5.0	1.0
Perfluorooctanoic acid (PFOA)	PFOA	C8	335-67-1	5.0	1.0
Perfluorononanoic acid (PFNA)	PFNA	C9	375-95-1	5.0	1.0
Perfluorodecanoic acid (PFDA)	PFNDCA	C10	335-76-2	5.0	1.0
Perfluoroundecanoic acid (PFUnDA)	PFUNDCA	C11	2058-94-8	5.0	1.0
Perfluorododecanoic acid (PFDoDA)	PFDOA	C12	307-55-1	5.0	1.0
Perfluorotridecanoic acid (PFTTrDA)	PFTRIDA	C13	72629-94-8	5.0	1.0
Perfluorotetradecanoic acid (PFTeDA)	PFTEDA	C14	376-06-7	8.0	2.0
Perfluorohexadecanoic acid (PFHxDA)	PFHxDA	C16	67905-19-5	8.0	2.0
Perfluorooctadecanoic acid (PFODA)	PFODA	C18	16517-11-6	8.0	2.0
Perfluorinated sulfonic acids (PFSAAs)					
Perfluorobutane sulfonic acid (PFBS)	PFBSA	C4	375-73-5	5.0	1.0
Perfluoropentane sulfonic acid (PFPeS)	PFPeS	C5	2706-91-4	5.0	2.0
Perfluorohexane sulfonic acid (PFHxS)	PFHxSA	C6	355-46-4	5.0	1.0
Perfluoroheptane sulfonic acid (PFHpS)	PFHPSA	C7	375-92-8	5.0	1.0
Perfluorooctane sulfonic acid (PFOS)	PFOS	C8	1763-23-1	5.0	1.0
Perfluorononane sulfonic acid (PFNS)	PFNS	C9	474511-07-4	8.0	5.0

Chemical Name/ Abbreviation	GeoTracker PARLABEL	Fluorinated Alkane Carbon Chain Length*	Chemical Abstracts Service (CAS) No.	Required Reporting Limit for Liquids: Groundwater and Effluent (ng/L)	Required Reporting Limit for Solid: Soil/ Biosolids (µg/kg)
Perfluorodecane sulfonic acid (PFDS)	PFDSA	C10	335-77-3	5.0	1.0
Perfluorooctane Sulfonamide and Derivatives (PFOSA, FOSEs, FOSAs, and FOSAAs)					
Perfluorooctanesulfonamide (PFOSA)	PFOSA	C8	754-91-6	8.0	1.0
N-Ethyl perfluorooctane sulfonamide ethanol (EtFOSE)	ETFOSE	C8 Precursor	1691-99-2	8.0	2.0
N-Methyl perfluorooctane sulfonamide ethanol (MeFOSE)	MEFOSE	C8 Precursor	24448-09-7	8.0	2.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	ETFOSA	C8 Precursor	4151-50-2	8.0	2.0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	MEFOSA	C8 Precursor	31506-32-8	8.0	2.0
N-Methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	NMEFOSAA	C8 Precursor	2355-31-9	20.0	2.0
N-Ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	NETFOSAA	C8 Precursor	2991-50-6	20.0	2.0
Fluorotelomer sulfonates (FTS)					
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	4:2FTS	C4* Precursor	757124-72-4	20.0	2.0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	6:2FTS	C6* Precursor	27619-97-2	20.0	2.0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	8:2FTS	C8* Precursor	39108-34-4	20.0	2.0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	10:2FTS	C10* Precursor	120226-60-0	8.0	2.0
Fluorotelomer carboxylic acids (FTCA)					
2H,2H,3H,3H-Perfluorohexanoic acid (3:3 FTCA)	3:3 FTCA	C4* Precursor	356-02-5	8.0	5.0
2H,2H,3H,3H-Perfluorooctanoic acid (5:3 FTCA)	5:3 FTCA	C6* Precursor	914637-49-3	8.0	5.0
2H,2H,3H,3H-Perfluorodecanoic acid (7:3 FTCA)	7:3 FTCA	C8* Precursor	812-70-4	8.0	5.0

Chemical Name/ Abbreviation	GeoTracker PARLABEL	Fluorinated Alkane Carbon Chain Length*	Chemical Abstracts Service (CAS) No.	Required Reporting Limit for Liquids: Groundwater and Effluent (ng/L)	Required Reporting Limit for Solid: Soil/ Biosolids (µg/kg)
Perfluoroalkyl ether carboxylic acids (PFECA)					
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	HFPO-DA	--	13252-13-6	20.0	5.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ADONA	--	919005-14-4	8.0	5.0
Chlorinated Polyfluoroalkyl Ether Sulfonic Acids (CI-PFESAs)					
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	9-Cl-PF3ONS	--	756426-58-1	8.0	5.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	11-Cl-PF3OUdS	--	763051-92-9	8.0	5.0
Other					
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	NFDHA	C5	151772-58-6	8.0	5.0
Perfluoro(2-ethoxyethane) sulfonic acid (PFEEESA)	PFEEESA	--	113507-82-7	8.0	5.0
Perfluoro-3-methoxypropanoic acid (PFMPA)	PFMPA	C4	377-73-1	8.0	5.0
Perfluoro-4-methoxybutanoic acid (PFMBA)	PFMBA	C5	863090-89-5	8.0	5.0
Optional analytes are shaded gray.					

ng/L = nanograms per liter

µg/kg = micrograms per kilogram

* = and shorter carbon chain length terminal degradation products

-- = carbon chain length shorthand naming conventions not currently defined for PFECAs and PFESAs

TABLE 2

Field Parameters and General Chemistry for Groundwater

Parameter	Units
Field Parameters	
Depth to Groundwater	Feet, bgs
Temperature	Degrees C
Electrical Conductivity	µmhos/cm
pH	pH units
Turbidity	NTU
General Chemistry	
Total Dissolved Solids	mg/L

Notes:

bgs – below ground surface

C – Celsius

µmhos/cm – micromhos per centimeter

NTU – nephelometric turbidity units

mg/L – milligrams per Liter

State Water Resources Control Board

ATTACHMENT 4

Fact Sheet – Requirements for Submitting Reports Under Section 13267 and 13383 of the Water Code

What does it mean when the Regional Water Board or the State Water Board (jointly referred to as the Water Boards) require a technical report?

Section 13267ⁱ of the Water Code provides that “...the regional board may require that any person who has discharged, discharges, or who is suspected of having discharged or discharging, or who proposes to discharge waste...that could affect the quality of waters...shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires.” Additionally, the state water board may carry out the authority granted to a regional board pursuant to Section 13267 if, after consulting with the regional board, the state board determines that it will not duplicate the efforts of the regional board.

Water Code section 13383 provides that the state board or a regional board may establish monitoring and reporting requirements for any person who discharges, or proposes to discharge, to navigable waters, any person who introduces pollutants into a publicly owned treatment works, any person who owns or operates, or proposes to own or operate, a publicly owned treatment works or other treatment works treating domestic sewage, or any person who uses or disposes, or proposes to use or dispose, of sewage sludge.

This requirement for a technical report seems to mean that I am guilty of something, or at least responsible for cleaning something up. What if that is not so?

The requirement for a technical report is a tool the Water Boards use to investigate water quality issues or problems. The information provided can be used by the Regional Water Board to clarify whether a given party has responsibility.

Are there limits to what the Water Boards can ask for?

Yes. Under Section 13267 the information required must relate to an actual or suspected or proposed discharge of waste (including discharges of waste where the initial discharge occurred many years ago), and the burden of compliance must bear a reasonable relationship to the need for the report and the benefits obtained. The Water Boards are required to explain the reasons for its request.

What if I can provide the information, but not by the date specified?

A time extension may be given for good cause. Your request should be promptly submitted in writing, giving reasons.

Are there penalties if I don’t comply?

Depending on the situation, the Water Boards can impose a fine of up to \$10,000 per day, and a court can impose fines of up to \$25,000 per day as well as criminal penalties pursuant to Water Code section 13268. A person who submits false information or fails to comply with a requirement to submit a technical report may be found guilty of a misdemeanor. For some reports, submission of false information may be a felony.

Do I have to use a consultant or attorney to comply?

There is no legal requirement for this, but as a practical matter, in most cases the specialized nature of the information required makes use of a consultant and/or attorney is advisable.

If I have more questions, whom do I ask?

Requirements for technical reports include the name, telephone number, and email address of the Regional Water Board staff contact.

ⁱ All code sections referenced herein can be found by going to www.leginfo.ca.gov.