

**NOTICE AND AGENDA
Regular Board Meeting
at Sanitary District No. 5 of Marin County
Thursday, September 16, 2021**

5:00 P.M. REGULAR BOARD MEETING

CORONA VIRUS (COVID-19) ADVISORY NOTICE

Consistent with Executive Orders No. N-25-20 and No. N-29-20 from the Executive Department of the State of California, the Meeting will not be physically open to the public and all Board Members and Staff will be teleconferencing into the meeting.

How to Submit Public Comments:

Comments submitted prior to the commencement of the meeting will be presented to the Board and included in the public record for the meeting.

Public Comments are to be submitted via email to rdohrmann@sani5.org.

In addition, members of the public who are calling in, will have the opportunity to provide public comments by following the steps below:

How to Participate in the Meeting:

Join Zoom Meeting by clicking on the following link:

<https://us02web.zoom.us/j/6230620778>

Meeting ID: 623 062 0778

or join by phone:

Call in number: (669) 900-9128 Participant Code: 623 062 0778

ROLL CALL

PUBLIC COMMENTS: The public is invited to address the Board on items that do not appear on the agenda and are within the subject matter jurisdiction of the Board. The Brown Act does not allow the Board to take action on any public comment. Please limit public comments to no more than three minutes.

DIRECTORS' COMMENTS AND/OR AGENDA REQUESTS:

CONSENT CALENDAR:

1. Approval of August 19, 2021, Regular Board Meeting Minutes (Dohrmann)
2. Review and receive all electronic fund transfers (EFTs) and approve warrants from August 11th through September 8th, 2021 (JP Morgan Chase Bank, check no. 8426 through check no. 8478, all transactions totaling \$266,081.37) and receive August 2021 payroll, in the sum of \$136,588.10 (Dohrmann)
3. Receipt of Financial Reports for August 2021 (Dohrmann)

MANAGEMENT REPORTS:

4. District Management Summary Report (Rubio)

NEW BUSINESS:

5. Review and discuss draft Request for Proposal re 2022 Sewer Rate Study – discussion only
6. Discussion re returning to in-person SD5 Board Meetings, starting in October 2021, in consideration of CA Executive Order N-29-20 expiration on September 30, 2021 (Rubio) – Action
7. Review and approve SD5 Early Exit Plan for FY21-22 (Rubio) – Action

UNFINISHED BUSINESS:

COMMITTEE REPORTS:

8. Capital Improvement Program Committee (Moody/Arias-Montez)
9. Finance & Fiscal Oversight Committee (Benediktsson/Arias-Montez)
10. Governance Committee (Moody/Carapiet)
11. Personnel Committee (Benediktsson/Snyder)
12. Renewable Energy Strategies Ad Hoc Committee (Carapiet/Moody)

OTHER BUSINESS:

ENVIRONMENTAL:

13. “Dosing the Coast: Leaking Sewage Infrastructure Delivers Large Annual Doses and Dynamic Mixtures of Pharmaceuticals to Urban Rivers,” ACS News Service Weekly PressPac: August 18, 2021

CORRESPONDENCE:

INFORMATIONAL ITEMS:

14. Renewal of Paradise Cove Treatment Plant NPDES permit – order #R2-2021-0017

ADJOURNMENT

The Board will be asked to adjourn the meeting to a Regular Board Meeting on October 21, 2021, at 5:00 P.M.

**Regular Board Meeting Minutes
at Sanitary District No. 5 of Marin County
Thursday, August 19, 2021**

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Meeting ID: 623 062 0778

or join by phone:

Call in number: (669) 900-9128 Participant Code: 623 062 0778

CALL TO ORDER by President Richard Snyder at 5:00 P.M.

ROLL CALL

Directors present: Richard Snyder, President
 Omar Arias-Montez, Secretary
 Catharine Benediktsson, Director
 Tod Moody, Director

Directors not present: John Carapiet, Vice President

Staff present: Tony Rubio, District Manager
 Robin Dohrmann, Office Manager

Others in attendance: Benjamin Stock, Burke, Williams, & Sorensen, LLC
 Mark Freiberg, Pt. Tiburon Bayside resident
 Hank McWhinny, Pt. Tiburon Bayside resident

PUBLIC COMMENTS: The public is invited to address the Board on items that do not appear on the agenda and that are within the subject matter jurisdiction of the Board. The Brown Act does not allow the Board to take action on any public comment. Please limit public comments to no more than three minutes.

Mark Freiberg & Hank McWhinny both stated interest in the feasibility of a recycled water program for irrigation at Pt. Tiburon, Bayside Condominiums, potentially to be provided by SD5.

DIRECTORS' COMMENTS AND/OR AGENDA REQUESTS:

- Secretary Arias-Montez inquired into the Regional Water Quality Control Board's upcoming changes to Oil & Grease and Chlorine Residual effluent limits in upcoming tentative order

CONSENT CALENDAR:

1. Approval of July 15, 2021, Regular Board Meeting Minutes (Dohrmann)
2. Review and receive all electronic fund transfers (EFTs) and approve warrants from July 14th through August 10th, 2021 (JP Morgan Chase Bank, check no. 8369 through check no. 8425, all transactions totaling \$305,864.99) and receive July 2021 payroll, in the sum of \$130,597.52 (Dohrmann)
3. Receipt of Financial Reports for July 2021 (Dohrmann)

Discussion by the Board. Motion (Moody/Arias-Montez) to approve Items No. 1 through No. 3 on the Consent Calendar. Passed (4-0-0-1).

MANAGEMENT REPORTS:

4. District Management Summary Report (Rubio)

District Manager, Tony Rubio, presented a written and verbal report on current District issues, responding to questions from the Board. Discussion by the Board.

NEW BUSINESS:

5. Review and discuss sampling analysis results re SD5 recycled water project feasibility (Rubio) – Action

Discussion by the Board. Direction only for Staff to work with Sewerage Agency of Southern Marin (SASM) and report back to the Board; no action taken.

6. Review and approve HDR's evaluation of SD5 Main Plant influent dry weather splitter box repairs (Rubio) – Action

Discussion by the Board. Direction only for Staff to speak with the vendor again; no action taken.

7. Discussion re returning to in-person SD5 Board Meetings, starting in October 2021, in consideration of CA Executive Order N-29-20 expiration on September 30, 2021 (Rubio) – Action

Discussion by the Board. Item #7 is to be tabled to the September 2021 Regular Board Meeting.

8. Review and approve SD5 Early Exit Plan for FY21-22 (Rubio) – Action

Discussion by the Board. Direction only for Staff to provide historical data from previous SD5 Early Exit Plan(s) and report back to the Board; no action taken. Item #8 is to be tabled to the September 2021 Regular Board Meeting.

UNFINISHED BUSINESS: None

COMMITTEE REPORTS:

- 9. Capital Improvement Program Committee (Moody/Arias-Montez) – written report provided
- 10. Finance & Fiscal Oversight Committee (Benediktsson/Arias-Montez) – verbal report provided
- 11. Governance Committee (Moody/Carapiet) – N/A
- 12. Personnel Committee (Benediktsson/Snyder) – addressed at Item #8
- 13. Renewable Energy Strategies Ad Hoc Committee (Carapiet/Moody) – N/A

OTHER BUSINESS: None

ENVIRONMENTAL: None

CORRESPONDENCE: None

INFORMATIONAL ITEMS: None

ADJOURNMENT

The Board adjourned at 5:48 p.m. to a Regular Board Meeting on September 16, 2021, at 5:00 p.m.

Approved:

Attest:

Richard Snyder
President, Board of Directors

Omar Arias-Montez
Secretary, Board of Directors

**Sanitary Distr. No.5 of Marin Co.
Warrant List Summary
August 11 through September 8, 2021**

Item #2

09/08/21

Date	Num	Name	Memo	Amount
JP Morgan Chase - Primary 7399				
09/06/21	EFT	PERS	EFT PERS Retirement, August 2021 - TDB	-17,981.14
09/06/21	EFT	CalPERS	EFT Health Premium, September 2021, Cust #4163206459	-15,882.01
09/06/21	EFT	CalPERS	#4163206459, GASB 68 Actuarial Valuation Report Fees (FY20-2...	-700.02
08/19/21	8426	AT&T	Acct #960732-76375559, July 2021	-813.97
08/19/21	8427	Comcast Business	Acct# 8155 30 011 0149465, Bus. Voice, Internet & Cable, Augus...	-566.38
08/19/21	8428	Mill Valley Refuse Service, Inc.	Acct #032945, Garbage Service + 1 yd rental, Septemeber 2021	-255.15
08/19/21	8429	Pacific Gas & Electric	Acct #2908031411-4, Utilities, July 2021	-22,667.18
08/19/21	8430	Special District Risk Management...	Member #7665, Life, Vision, DDS & LTD Ins., September 2021	-1,433.23
08/19/21	8431	Staples, Inc.	Acct #60111000714, Office & Janitorial Supplies, July 2021	-49.98
08/19/21	8432	Telstar Instrument, Inc.	Cust #SANDI, M.P. Parts & Srvc., April - July 2021 (AJE FY20-21)	-3,105.70
08/19/21	8433	Verizon Wireless	Acct #0342125502-00001: iPhones & BPS Comm, July 2021	-581.44
08/19/21	8434	Collodi, Peter	PPE / Safetywear Reimb., August 2021	-159.09
08/19/21	8435	La Torre, Daniel P.	Travel Reimb, August 2021	-507.46
08/19/21	8436	Rosser, John	S/B Reimb., July - August, 2021	-196.18
08/25/21	8437	Special District Risk Management...	Member #7665, Life, Vision, DDS & LTD Ins., September 2021	-293.92
09/08/21	8438	Access Answering Service	Acct #4080C, Answering Service, September 2021	-60.00
09/08/21	8439	Alhambra	Acct #547945611762129, Water, August 2021	-189.77
09/08/21	8440	American Textile & Supply, Inc.	M.P. Safety, August 2021	-2,052.27
09/08/21	8441	AT&T	Acct #960732-76375559, August 2021	-815.55
09/08/21	8442	Banshee Networks, Inc.	Computer/IT Support, E-Media Installations - September 2021	-217.34
09/08/21	8443	Bay Alarm	Acct #274428, August 2021	-385.00
09/08/21	8444	Burke, Williams & Sorensen, LLP	Legal Advice, July 2021	-910.50
09/08/21	8445	BWS Distributors, Inc.	Lab Safety Supplies, August 2021	-2,052.18
09/08/21	8446	Caltest Analytical Laboratory	M.P./P.C. Lab Sampling, August 2021	-1,902.85
09/08/21	8447	Central Marin Sanitation Agency	Pollution Prevention Pub Ed Costs, August 2021	-1,671.99
09/08/21	8448	Cintas Corporation #626	Acct #626-00821, PPE/Safetywear + Service, July - August+ 2021	-1,011.02
09/08/21	8449	CWEA	Membership Renewal, C Bilsborough #396032, September 2021 ...	-91.00
09/08/21	8450	DKF Solutions Group, LLC	My Safety Officer Monthly Subscription, September 2021	-350.00
09/08/21	8451	East Bay Muni Utility District	Cust #SADI3002, BACWA Membership & Prog. Fees for FY22 (A...	-4,819.50
09/08/21	8452	Fastenal Company	CASA10962, M.P. Supplies & Parts, August 2021	-1,004.73
09/08/21	8453	Goodman Building Supply Co.	Acct #20070, Truck & M.P. Maint. Supplies, August 2021	-8.62
09/08/21	8454	Grainger	Acct #810128785, M.P. Supplies, Parts & Service, August 2021	-860.45
09/08/21	8455	Harrington Industrial Plastics LLC	Cust #:044227, M.P. Supplies, Parts & Service+ , August	-26,268.69
09/08/21	8457	Home Depot Credit Services	Acct #6035 3220 0516 4334, M.P. Parts & Service + SD5 Shop R...	-1,156.08
09/08/21	8458	Jackson's Hardware, Inc.	Acct #7601, PPE + M.P. ., Sept. 2021	-410.66
09/08/21	8459	JM Integration, LLC	M.P. Parts & Service, August 2021	-11,372.31
09/08/21	8460	Kepware	Cust #619101, SCADA /Modbusware Suite, September, 2021	-247.00
09/08/21	8461	Linscott Engineering Contractors I...	BPS#5 Valve & Pump Replcmnt, August 2021	-9,534.15
09/08/21	8462	Lystek Int'l, LTD	Biosolids Transport, August 2021	-748.85
09/08/21	8463	Marin Municipal Water District	Water, July - August, 2021	-1,540.74
09/08/21	8464	McCampbell Analytical, Inc.	M.P. Monitoring, AcuteToxicity Testing, August 2021	-862.50
09/08/21	8465	MidAmerica Administrative & Retir...	HRA Retiree Health Reimb. Admin Fees, 2Q21 - September 2021	-225.00
09/08/21	8466	Roy's Sewer Service, Inc.	P&L + Small Vactor Machine Cleaning (Tib) - September 2021	-79,165.50
09/08/21	8467	Town of Tiburon	Fuel, July 2021	-984.07
09/08/21	8468	U.S. Bank	Acct#:4246-0441-0158-3635, July - August 2021	-8,047.69
09/08/21	8469	Univar	Cust ID #STDT001, Chemicals, September 2021	-8,386.56
09/08/21	8470	USA BlueBook	Cust #933682, P.C. Parts & Service, July 2021	-1,814.65
09/08/21	8471	Waste Management of Redwood ...	Acct #507-0000190-1507-2, Sludge Disposal, August 2021	-429.74
09/08/21	8472	Water Components & Building Su...	Acct #454, P&L + M.P. Maint. Supplies, August 2021	-615.62
09/08/21	8473	WorkSmart Automation, Inc.	SD5 Comm System Maintenance, August 2021	-1,860.00
09/08/21	8475	Omar Arias	Reimbursement of Travel Expenses re CASA Conference, San Di...	-1,566.94
09/08/21	8476	Lepera, Joseph	Permit Refund: 8 Rolling Hills - September 2021	-19,362.00
09/08/21	8477	Healthy Building Science, Inc.	M.P. Air Quality Sampling & Testing - August 2021	-7,062.00
09/08/21	8478	Wonderware NorCal	Cust #SANI5, SCADA Sys. Maint.& IT Support Contract Renewal,...	-825.00
Total JP Morgan Chase - Primary 7399				-266,081.37
TOTAL				-266,081.37

Sanitary Distr. No.5 of Marin Co.
Warrant List Detail
August 11 through September 8, 2021

09/08/21

Date	Num	Name	Memo	Account	Class	Paid Amount
09/06/21	EFT	PERS	EFT PERS Retirement, August 2021 - TDB	JP Morgan Chase - Primary 7399		
			Retirement June 2021(Classic 1600 Rate): ER @ 14.194 %; EE ...	8019.05 · PERS Retirement	Belvedere	-4,756.61
			Retirement June 2021(Classic 1600 Rate) (AJE FY20-21)	8019.05 · PERS Retirement	Tiburon:Paradise ...	-342.69
			Retirement June 2021(Classic 1600 Rate) (AJE FY20-21)	8019.05 · PERS Retirement	Tiburon	-8,131.89
			Retirement June 2021(PEPRA Rates: ER @ 7.732%; EE @ 6.7...	8019.05 · PERS Retirement	Belvedere	-1,707.61
			Retirement June 2021(PEPRA Rate) (AJE FY20-21)	8019.05 · PERS Retirement	Tiburon:Paradise ...	-123.02
			Retirement June 2021(PEPRA Rate) (AJE FY20-21)	8019.05 · PERS Retirement	Tiburon	-2,919.32
TOTAL						-17,981.14
09/06/21	EFT	CalPERS	EFT Health Premium, September 2021, Cust #4163206459	JP Morgan Chase - Primary 7399		
			Active Employee Health Premium - September 2021	8020.05 · Employee Health	Belvedere	-5,383.56
			Active Employee Health Premium - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-437.15
			Active Employee Health Premium - September 2021	8020.05 · Employee Health	Tiburon	-9,150.25
			Retiree Health Premium - September 2021	8022.05 · Reitree Health	Belvedere	-308.54
			Retiree Health Premium - September 2021	8022.05 · Reitree Health	Tiburon:Paradise ...	-25.05
			Retiree Health Premium - September 2021	8022.05 · Reitree Health	Tiburon	-524.41
			Active Employee Health Premium - September 2021 - Admin Fee	8020.05 · Employee Health	Belvedere	-13.46
			Active Employee Health Premium - September ust 2021 - Admi...	8020.05 · Employee Health	Tiburon:Paradise ...	-1.09
			Active Employee Health Premium - August 2021 - Admin Fee	8020.05 · Employee Health	Tiburon	-22.88
			Retiree Health Premium - September 2021 - Admin Fee	8022.05 · Reitree Health	Belvedere	-5.62
			Retiree Health Premium - September 2021 - Admin Fee	8022.05 · Reitree Health	Tiburon:Paradise ...	-0.46
			Retiree Health Premium - September 2021 - Admin Fee	8022.05 · Reitree Health	Tiburon	-9.54
TOTAL						-15,882.01
09/06/21	EFT	CalPERS	#4163206459, GASB 68 Actuarial Valuation Report Fees (FY...	JP Morgan Chase - Primary 7399		
			Inv #100000016511697, GASBY 68 Actuarial Valuation Report ...	8019.05 · PERS Retirement	Belvedere	-125.83
			Inv #100000016511697, GASBY 68 Actuarial Valuation Report ...	8019.05 · PERS Retirement	Tiburon:Paradise ...	-9.07
			Inv #100000016511697, GASBY 68 Actuarial Valuation Report ...	8019.05 · PERS Retirement	Tiburon	-215.11
			Inv #100000016511697, GASBY 68 Actuarial Valuation Report ...	8019.05 · PERS Retirement	Belvedere	-125.83
			Inv #100000016511697, GASBY 68 Actuarial Valuation Report ...	8019.05 · PERS Retirement	Tiburon:Paradise ...	-9.07
			Inv #100000016511697, GASBY 68 Actuarial Valuation Report ...	8019.05 · PERS Retirement	Tiburon	-215.11
TOTAL						-700.02
08/19/21	8426	AT&T	Acct #960732-76375559, July 2021	JP Morgan Chase - Primary 7399		
			PC Plant Telephones - July 2021	8532 · Paradise Cove Telephones	Tiburon:Paradise ...	-330.71
			PC Pumps & Lines Telephones - July 2021	8533 · Pumps & Lines Telephones	Tiburon:Paradise ...	-175.07
			Tib Pumps & Lines Telephones - July 2021	8533 · Pumps & Lines Telephones	Tiburon	-308.19
TOTAL						-813.97

Sanitary Distr. No.5 of Marin Co.
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Date	Num	Name	Memo	Account	Class	Paid Amount
08/19/21	8427	Comcast Business	Acct# 8155 30 011 0149465, Bus. Voice, Internet & Cable, Au...	JP Morgan Chase - Primary 7399		
			Bundle: Cable (\$218.25), August 2021	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-78.48
			Bundle: Cable (\$218.25), August 2021	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-6.37
			Bundle: Cable (\$218.25), August 2021	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-133.40
			Bundle: Internet (\$134.85), August 2021	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-7.17
			Bundle: Internet (\$134.85), August 2021	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-0.58
			Bundle: Internet (\$134.85), August 2021	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-12.19
			Bundle: Land Line Phones (\$249.50+ \$39.75 add'l Fees), Augus...	8531 · Main Plant Telephones	Belvedere	-113.74
			Bundle: Land Line Phones (\$249.50+ \$39.75 add'l Fees), Augus...	8532 · Paradise Cove Telephones	Tiburon:Paradise ...	-9.24
			Bundle: Land Line Phones (\$249.50+ \$39.75 add'l Fees), Augus...	8531 · Main Plant Telephones	Tiburon	-193.33
			Bundle: Taxes & Fees (+/- \$5 - varies/mo), August 2021	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-2.14
			Bundle: Taxes & Fees (+/- \$5 - varies/mo), August 2021	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-0.17
			Bundle: Taxes & Fees (+/- \$5 - varies/mo), August 2021	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-3.63
			Bundle: Taxes & Fees (+/- \$5 - varies/mo), August 2021	8531 · Main Plant Telephones	Belvedere	-2.14
			Bundle: Taxes & Fees (+/- \$5 - varies/mo), August 2021	8532 · Paradise Cove Telephones	Tiburon:Paradise ...	-0.17
			Bundle: Taxes & Fees (+/- \$5 - varies/mo), August 2021	8531 · Main Plant Telephones	Tiburon	-3.63
TOTAL						-566.38
08/19/21	8428	Mill Valley Refuse Service, I...	Acct #032945, Garbage Service + 1 yd rental, Septemeber 20...	JP Morgan Chase - Primary 7399		
			Garbage Service, Including 1 yd trash + 1 yd cardboard rental, S...	7023 · Janitorial Supplies & Servi...	Belvedere	-94.53
			Garbage Service, Including 1 yd trash + 1 yd cardboard rental, S...	7023 · Janitorial Supplies & Servi...	Tiburon	-160.62
TOTAL						-255.15
08/19/21	8429	Pacific Gas & Electric	Acct #2908031411-4, Utilities, July 2021	JP Morgan Chase - Primary 7399		
			Acct #2908031411-4, Main Plant Utilities, July 2021	8542 · Main Plant Utilities	Belvedere	-6,329.19
			Acct #2908031411-4, P.C. Plant Utilities, July 2021	8543 · Paradise Cove Utilities	Tiburon:Paradise ...	-2,083.03
			Acct #2908031411-4, Main Plant Utilities, July 2021	8542 · Main Plant Utilities	Tiburon	-10,753.65
			Acct #2908031411-4, Belv Pump St Utilities, July 2021	8544 · Pump Station Utilities	Belvedere	-1,263.66
			Acct #2908031411-4, P.C. Pump St Utilities, July 2021	8544 · Pump Station Utilities	Tiburon:Paradise ...	-259.06
			Acct #2908031411-4, Tib Pump St Utilities, July 2021	8544 · Pump Station Utilities	Tiburon	-1,978.59
TOTAL						-22,667.18
08/19/21	8430	Special District Risk Manag...	Member #7665, Life, Vision, DDS & LTD Ins., September 2021	JP Morgan Chase - Primary 7399		
			Employee Life & ADD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-44.02
			Employee Life & ADD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-3.57
			Employee Life & ADD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-74.81
			Employee LTD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-117.18
			Employee LTD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-9.52
			Employee LTD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-199.16
			Employee DDS Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-301.68
			Employee DDS Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-24.50
			Employee DDS Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-512.74
			Employee Vision Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-52.52

Sanitary Distr. No.5 of Marin Co.
Warrant List Detail
August 11 through September 8, 2021

09/08/21

Date	Num	Name	Memo	Account	Class	Paid Amount
			Employee Vision Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-4.26
			Employee Vision Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-89.27
TOTAL						-1,433.23
08/19/21	8431	Staples, Inc.	Acct #60111000714, Office & Janitorial Supplies, July 2021	JP Morgan Chase - Primary 7399		
			Inv #2887167971, Y/E Office supplies, July 2021	6047 · Office Supplies	Belvedere	-17.97
			Inv #2887167971, Y/E Office supplies, July 2021	6047 · Office Supplies	Tiburon:Paradise ...	-1.46
			Inv #2887167971, Y/E Office supplies, July 2021	6047 · Office Supplies	Tiburon	-30.55
TOTAL						-49.98
08/19/21	8432	Telstar Instrument, Inc.	Cust #SANDI, M.P. Parts & Srvc., April - July 2021 (AJE FY2...	JP Morgan Chase - Primary 7399		
			Inv #108913, BPS #13 & #14 Communication Project, April 202...	9310 · BPS Communication Proj...	Belvedere	-1,552.85
			Inv #108913, BPS #2 Communication Project, July 2021	9310 · BPS Communication Proj...	Belvedere	-1,552.85
TOTAL						-3,105.70
08/19/21	8433	Verizon Wireless	Acct #0342125502-00001: iPhones & BPS Comm, July 2021	JP Morgan Chase - Primary 7399		
			Inv #9885626299: Monthly Charges (\$301.60) New NASPO MA ...	8531 · Main Plant Telephones	Belvedere	-108.43
			Inv #9885626299: Monthly Charges (\$301.60) New NASPO MA ...	8532 · Paradise Cove Telephones	Tiburon:Paradise ...	-7.81
			Inv #9885626299: Monthly Charges (\$301.60) New NASPO MA ...	8531 · Main Plant Telephones	Tiburon	-185.36
			Inv #9885626299: NEW Monthly Charges for BPS Telephone lin...	8533 · Pumps & Lines Telephones	Belvedere	-270.91
			Inv #9885626299: Taxes, Gov't Surcharges & Fees, July 2021	8531 · Main Plant Telephones	Belvedere	-3.21
			Inv #9885626299: Taxes, Gov't Surcharges & Fees, July 2021	8532 · Paradise Cove Telephones	Tiburon:Paradise ...	-0.26
			Inv #9885626299: Taxes, Gov't Surcharges & Fees, July 2021	8531 · Main Plant Telephones	Tiburon	-5.46
TOTAL						-581.44
08/19/21	8434	Collodi, Peter	PPE / Safetywear Reimb., August 2021	JP Morgan Chase - Primary 7399		
			PPE / Safetywear Reimb., August 2021	8520 · Personal Protection/Safet...	Belvedere	-57.21
			PPE / Safetywear Reimb., August 2021	8520 · Personal Protection/Safet...	Tiburon:Paradise ...	-4.65
			PPE / Safetywear Reimb., August 2021	8520 · Personal Protection/Safet...	Tiburon	-97.23
TOTAL						-159.09
08/19/21	8435	La Torre, Daniel P.	Travel Reimb, August 2021	JP Morgan Chase - Primary 7399		
			Meals/Diem re Tri-State Seminar, LV NV, 8.8.2021 - 8.14.2021	6018.1 · Meetings & Travel	Belvedere	-97.09
			Meals/Diem re Tri-State Seminar, LV NV, 8.8.2021 - 8.14.2021	6018.1 · Meetings & Travel	Tiburon:Paradise ...	-7.88
			Meals/Diem re Tri-State Seminar, LV NV, 8.8.2021 - 8.14.2021	6018.1 · Meetings & Travel	Tiburon	-165.02
			Car Rental (tax only) reimb re Tri-State Seminar, LV NV, 8.8.202...	6018.1 · Meetings & Travel	Belvedere	-59.34
			Car Rental (tax only) reimb re Tri-State Seminar, LV NV, 8.8.202...	6018.1 · Meetings & Travel	Tiburon:Paradise ...	-4.82
			Car Rental (tax only) reimb re Tri-State Seminar, LV NV, 8.8.202...	6018.1 · Meetings & Travel	Tiburon	-100.85
			Fuel reimb re Tri-State Seminar, LV NV, 8.8.2021 - 8.14.2021	6018.1 · Meetings & Travel	Belvedere	-26.05

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			Fuel reimb re Tri-State Seminar, LV NV, 8.8.2021 - 8.14.2021	6018.1 · Meetings & Travel	Tiburon:Paradise ...	-2.12
			Fuel reimb re Tri-State Seminar, LV NV, 8.8.2021 - 8.14.2021	6018.1 · Meetings & Travel	Tiburon	-44.29
TOTAL						-507.46
08/19/21	8436	Rosser, John	S/B Reimb., July - August, 2021	JP Morgan Chase - Primary 7399		
			Standby Mileage Reimb. for July - August 2021 - Belvedere only	6018.2 · Standby Mileage Expen...	Belvedere	-98.09
			Standby Mileage Reimb. for July - August 2021 - Tiburon only	6018.2 · Standby Mileage Expen...	Tiburon	-98.09
TOTAL						-196.18
08/25/21	8437	Special District Risk Manag...	Member #7665, Life, Vision, DDS & LTD Ins., September 2021	JP Morgan Chase - Primary 7399		
			Employee Life & ADD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-9.78
			Employee Life & ADD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-0.79
			Employee Life & ADD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-16.62
			Employee LTD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-21.02
			Employee LTD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-1.71
			Employee LTD Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-35.73
			Employee DDS Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-63.78
			Employee DDS Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-5.18
			Employee DDS Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-108.40
			Employee Vision Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Belvedere	-11.11
			Employee Vision Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon:Paradise ...	-0.90
			Employee Vision Insurance - Inv #36073 - September 2021	8020.05 · Employee Health	Tiburon	-18.90
TOTAL						-293.92
09/08/21	8438	Access Answering Service	Acct #4080C, Answering Service, September 2021	JP Morgan Chase - Primary 7399		
			Inv #26574, Answering Service, September 2021- SSO & Alarm...	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-21.58
			Inv #26574, Answering Service, September 2021- SSO & Alarm...	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-1.75
			Inv #26574, Answering Service, September 2021- SSO & Alarm...	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-36.67
TOTAL						-60.00
09/08/21	8439	Alhambra	Acct #547945611762129, Water, August 2021	JP Morgan Chase - Primary 7399		
			Inv #12012314 082021 Water, 8.01.2021 - 8.18.2021	7023 · Janitorial Supplies & Servi...	Belvedere	-68.24
			Inv #12012314 082021 Water, 8.01.2021 - 8.18.2021	7042 · Paradise Supplies & Che...	Tiburon:Paradise ...	-5.54
			Inv #12012314 082021 Water, 8.01.2021 - 8.18.2021	7023 · Janitorial Supplies & Servi...	Tiburon	-115.99
TOTAL						-189.77

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09/08/21	8440	American Textile & Supply, ...	M.P. Safety, August 2021	JP Morgan Chase - Primary 7399		
			Inv #111720, Ultra IBChemical Spill Pallet - August, 2021	8515 · Safety	Belvedere	-760.37
			Inv #111720, Ultra IBChemical Spill Pallet - August, 2021	8515 · Safety	Tiburon:Paradise ...	-1,291.90
TOTAL						-2,052.27
09/08/21	8441	AT&T	Acct #960732-76375559, August 2021	JP Morgan Chase - Primary 7399		
			PC Plant Telephones - August 2021	8532 · Paradise Cove Telephones	Tiburon:Paradise ...	-332.29
			PC Pumps & Lines Telephones - August 2021	8533 · Pumps & Lines Telephones	Tiburon:Paradise ...	-175.07
			Tib Pumps & Lines Telephones - August 2021	8533 · Pumps & Lines Telephones	Tiburon	-308.19
TOTAL						-815.55
09/08/21	8442	Banshee Networks, Inc.	Computer/IT Support, E-Media Installations - September 2021	JP Morgan Chase - Primary 7399		
			Inv #15034, Installation of Microsoft 365 Bus standard & basic + ...	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-78.16
			Inv #15034, Installation of Microsoft 365 Bus standard & basic + ...	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-6.35
			Inv #15034, Installation of Microsoft 365 Bus standard & basic + ...	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-132.83
TOTAL						-217.34
09/08/21	8443	Bay Alarm	Acct #274428, August 2021	JP Morgan Chase - Primary 7399		
			Inv #2744282108311, Alarm System Inspection & Repair - Augu...	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-138.45
			Inv #2744282108311, Alarm System Inspection & Repair - Augu...	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-11.24
			Inv #2744282108311, Alarm System Inspection & Repair - Augu...	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-235.31
TOTAL						-385.00
09/08/21	8444	Burke, Williams & Sorensen...	Legal Advice, July 2021	JP Morgan Chase - Primary 7399		
			Inv #273254, SD5 VLTNS, July 2021	6039 · Legal	Tiburon	-753.00
			Inv #273254, DCS, July 2021	6039 · Legal	Belvedere	-56.64
			Inv #273254, DCS, July 2021	6039 · Legal	Tiburon:Paradise ...	-4.60
			Inv #273254, DCS, July 2021	6039 · Legal	Tiburon	-96.26
TOTAL						-910.50
09/08/21	8445	BWS Distributors, Inc.	Lab Safety Supplies, August 2021	JP Morgan Chase - Primary 7399		
			Inv #269205, #269228, #269299, Lab Safety Supplies, August 2...	8515 · Safety	Belvedere	-737.96
			Inv #269205, #269228, #269299, Lab Safety Supplies, August 2...	8515 · Safety	Tiburon	-59.92
			Inv #269205, #269228, #269299, Lab Safety Supplies, August 2...	8515 · Safety	Belvedere	-1,254.30
TOTAL						-2,052.18

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09/08/21	8446	Caltest Analytical Laboratory	M.P./P.C. Lab Sampling, August 2021	JP Morgan Chase - Primary 7399		
			M.P. - B: #3064, #3242, ##3572, #3573, #3652, #3924 - August...	7051 · Main Plant Lab Monitoring	Belvedere	-583.22
			P.C.: Inv #624274 - August 2021	7052 · Paradise Cove Monitoring	Tiburon:Paradise ...	-328.70
			M.P. - T: #3064, #3242, ##3572, #3573, #3652, #3924 - August...	7051 · Main Plant Lab Monitoring	Tiburon	-990.93
TOTAL						-1,902.85
09/08/21	8447	Central Marin Sanitation Ag...	Pollution Prevention Pub Ed Costs, August 2021	JP Morgan Chase - Primary 7399		
			Inv #00357, Shared Pollution Prevention Public Education Budg...	6059 · Pollution Prevention/Publi...	Belvedere	-601.25
			Inv #00357, Shared Pollution Prevention Public Education Budg...	6059 · Pollution Prevention/Publi...	Tiburon:Paradise ...	-48.82
			Inv #00357, Shared Pollution Prevention Public Education Budg...	6059 · Pollution Prevention/Publi...	Tiburon	-1,021.92
TOTAL						-1,671.99
09/08/21	8448	Cintas Corporation #626	Acct #626-00821, PPE/Safetywear + Service, July - August+ ...	JP Morgan Chase - Primary 7399		
			PPE/Safetwear + Service: #1902275507, #1902238382 - July 2...	8520 · Personal Protection/Safet...	Belvedere	-291.80
			PPE/Safetwear + Service: #1902275507, #1902238382 - July 2...	8520 · Personal Protection/Safet...	Tiburon:Paradise ...	-23.69
			PPE/Safetwear + Service: #1902275507, #1902238382 - July 2...	8520 · Personal Protection/Safet...	Tiburon	-495.96
			PPE/Safetywear + Service: Add'l Items, #4092239382, #409286...	8520 · Personal Protection/Safet...	Belvedere	-71.77
			PPE/Safetywear + Service: Add'l Items, #4092239382, #409286...	8520 · Personal Protection/Safet...	Tiburon:Paradise ...	-5.83
			PPE/Safetywear + Service: Add'l Items, #4092239382, #409286...	8520 · Personal Protection/Safet...	Tiburon	-121.97
TOTAL						-1,011.02
09/08/21	8449	CWEA	Membership Renewal, C Bilsborough #396032, September 2...	JP Morgan Chase - Primary 7399		
			C Bilsborough (#396032), Collection Sys Maint, Grade I, 10.31.2...	6025 · Dues & Subscriptions	Belvedere	-24.54
			C Bilsborough (#396032), Collection Sys Maint, Grade I, 10.31.2...	6025 · Dues & Subscriptions	Tiburon:Paradise ...	-1.99
			C Bilsborough (#396032), Collection Sys Maint, Grade I, 10.31.2...	6025 · Dues & Subscriptions	Tiburon	-41.72
			C Bilsborough (#396032), Collection Sys Maint, Grade I, 7.1.202...	6025 · Dues & Subscriptions	Belvedere	-8.18
			C Bilsborough (#396032), Collection Sys Maint, Grade I, 7.1.202...	6025 · Dues & Subscriptions	Tiburon:Paradise ...	-0.66
			C Bilsborough (#396032), Collection Sys Maint, Grade I, 7.1.202...	6025 · Dues & Subscriptions	Tiburon	-13.91
TOTAL						-91.00
09/08/21	8450	DKF Solutions Group, LLC	My Safety Officer Monthly Subscription, September 2021	JP Morgan Chase - Primary 7399		
			Inv #11089, My Safety Officer Monthly Subscription Fee, Septe...	8515 · Safety	Belvedere	-125.86
			Inv #11089, My Safety Officer Monthly Subscription Fee, Septe...	8515 · Safety	Tiburon:Paradise ...	-10.22
			Inv #11089, My Safety Officer Monthly Subscription Fee, Septe...	8515 · Safety	Tiburon	-213.92
TOTAL						-350.00

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09/08/21	8451	East Bay Muni Utility District	Cust #SADI3002, BACWA Membership & Prog. Fees for FY2...	JP Morgan Chase - Primary 7399		
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	7062 · Permits/Fees - General	Belvedere	-1,227.61
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	7063 · Paradise Cove Permits/F...	Tiburon:Paradise ...	-99.68
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	7062 · Permits/Fees - General	Tiburon	-2,086.53
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	6059 · Pollution Prevention/Publi...	Belvedere	-216.64
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	6059 · Pollution Prevention/Publi...	Tiburon:Paradise ...	-17.59
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	6059 · Pollution Prevention/Publi...	Tiburon	-368.20
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	7062 · Permits/Fees - General	Belvedere	-245.52
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	7062 · Permits/Fees - General	Tiburon:Paradise ...	-19.94
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	7062 · Permits/Fees - General	Tiburon	-417.30
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	6059 · Pollution Prevention/Publi...	Belvedere	-43.33
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	6059 · Pollution Prevention/Publi...	Tiburon:Paradise ...	-3.52
			Inv #EBM-BDO-01529, FY21 BACWA Membership Contribution...	6059 · Pollution Prevention/Publi...	Tiburon	-73.64
TOTAL						-4,819.50
09/08/21	8452	Fastenal Company	CASA10962, M.P. Supplies & Parts, August 2021	JP Morgan Chase - Primary 7399		
			Inv #CASA169755, M.P. Supplies, August 2021	7021 · Plant Maintenance Supplies	Belvedere	-178.74
			Inv #CASA169755, M.P. Supplies, August 2021	7021 · Plant Maintenance Supplies	Tiburon	-303.69
			Inv #CASA169709, M.P. Parts & Service, August 2021	7022 · Plant Maint. Parts & Service	Belvedere	-193.51
			Inv #CASA169709, M.P. Parts & Service, August 2021	7022 · Plant Maint. Parts & Service	Tiburon	-328.79
TOTAL						-1,004.73
09/08/21	8453	Goodman Building Supply ...	Acct #20070, Truck & M.P. Maint. Supplies, August 2021	JP Morgan Chase - Primary 7399		
			Inv #830594, P&L, TPS#5 Security - August 2021	7011 · Pumps & Lines Maintena...	Tiburon	-8.62
TOTAL						-8.62
09/08/21	8454	Grainger	Acct #810128785, M.P. Supplies, Parts & Service, August 2021	JP Morgan Chase - Primary 7399		
			Inv #810128785, P.C. Supplies, PSI Guages, August 2021	7042 · Paradise Supplies & Che...	Tiburon:Paradise ...	-65.80
			Inv #810128785, #810128785, M.P. Parts & Service, Utility Pum...	7022 · Plant Maint. Parts & Service	Belvedere	-294.42
			Inv #810128785, #810128785, M.P. Parts & Service, Utility Pum...	7022 · Plant Maint. Parts & Service	Tiburon	-500.23
TOTAL						-860.45
09/08/21	8455	Harrington Industrial Plasti...	Cust #:044227, M.P. Supplies, Parts & Service+ , August	JP Morgan Chase - Primary 7399		
			Inv #006M6440, #006M5736, M.P. Supplies for Chemical Room...	7021 · Plant Maintenance Supplies	Belvedere	-268.23
			Inv #006M6440, #006M5736, M.P. Supplies for Chemical Room...	7021 · Plant Maintenance Supplies	Tiburon	-455.75
			Inv #006M6779, Chemical Room Load-Out Effluent Spiral Filter, ...	9202.2 · Load-out & Filtering	Belvedere	-9,464.32
			Inv #006M6779, Chemical Room Load-Out Effluent Spiral Filter, ...	9202.2 · Load-out & Filtering	Tiburon	-16,080.39
TOTAL						-26,268.69

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09/08/21	8457	Home Depot Credit Services	Acct #6035 3220 0516 4334, M.P. Parts & Service + SD5 Sho...	JP Morgan Chase - Primary 7399		
			M.P. Office/Breakroom kitchen - September 2021	9217 · SD5 Shop Rplcmnt /Ops ...	Belvedere	-188.09
			M.P. Office/Breakroom kitchen - September 2021	9217 · SD5 Shop Rplcmnt /Ops ...	Tiburon	-319.57
			M.P. Equipment (blower), September - 2021	7022 · Plant Maint. Parts & Service	Belvedere	-240.24
			M.P. Equipment (blower), September - 2021	7022 · Plant Maint. Parts & Service	Tiburon	-408.18
TOTAL						-1,156.08
09/08/21	8458	Jackson's Hardware, Inc.	Acct #7601, PPE + M.P. ., Sept. 2021	JP Morgan Chase - Primary 7399		
			Inv #87781, PPE/Safety, Boots (FY21-22) - J Rosser, Septembe...	8520 · Personal Protection/Safet...	Belvedere	-80.08
			Inv #87781, PPE/Safety, Boots (FY21-22) - J Rosser, Septembe...	8520 · Personal Protection/Safet...	Tiburon	-6.50
			Inv #87781, PPE/Safety, Boots (FY21-22) - J Rosser, Septembe...	8520 · Personal Protection/Safet...	Belvedere	-136.10
			Inv #88170, M.P. Parts & Service/equipment, September, 2021	7022 · Plant Maint. Parts & Service	Tiburon	-69.65
			Inv #88170, M.P. Parts & Service/equipment, September, 2021	7022 · Plant Maint. Parts & Service	Belvedere	-118.33
TOTAL						-410.66
09/08/21	8459	JM Integration, LLC	M.P. Parts & Service, August 2021	JP Morgan Chase - Primary 7399		
			Inv #21090: M.P. Parts & Service (New PS manual Vacuum kit ...	7022 · Plant Maint. Parts & Service	Belvedere	-1,036.20
			Inv #21090: M.P. Parts & Service (New PS manual Vacuum kit ...	7022 · Plant Maint. Parts & Service	Tiburon	-1,760.55
			Inv #21091: M.P. Parts & Service (S. Press Flowmeter upgrade)...	7022 · Plant Maint. Parts & Service	Belvedere	-1,007.37
			Inv #21091: M.P. Parts & Service (S. Press Flowmeter upgrade)...	7022 · Plant Maint. Parts & Service	Tiburon	-1,711.59
			Inv #21096 + Inv #21051: M.P. Pars & Service - Replace Sparlin...	7022 · Plant Maint. Parts & Service	Belvedere	-2,169.87
			Inv #21096 + Inv #21051: M.P. Pars & Service - Replace Sparlin...	7022 · Plant Maint. Parts & Service	Tiburon	-3,686.73
TOTAL						-11,372.31
09/08/21	8460	Kepware	Cust #619101, SCADA /Modbusware Suite, September, 2021	JP Morgan Chase - Primary 7399		
			Quote #Q-1048273, SCADA /Modbusware Suite + Maintenance ...	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-88.82
			Quote #Q-1048273, SCADA /Modbusware Suite + Maintenance ...	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-7.21
			Quote #Q-1048273, SCADA /Modbusware Suite + Maintenance ...	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-150.97
TOTAL						-247.00
09/08/21	8461	Linscott Engineering Contr...	BPS#5 Valve & Pump Replcmnt, August 2021	JP Morgan Chase - Primary 7399		
			Inv #3735, Cleanout Augmentation @ Ned's Way, Tiburon - Aug...	7011 · Pumps & Lines Maintena...	Tiburon	-1,340.78
			Inv #3740, Sewer Main Obstruction @ Meadowhill Drive, Tiburo...	7013 · Emergency Line Repair	Tiburon	-8,193.37
TOTAL						-9,534.15

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09/08/21	8462	Lystek Int'l, LTD	Biosolids Transport, August 2021	JP Morgan Chase - Primary 7399		
			Inv #153-433 Biosolids Transport to Lystek Facility, August 2021	7029 · Main Plant Sludge Disposal	Belvedere	-277.45
			Inv #153-433 Biosolids Transport to Lystek Facility, August 2021	7029 · Main Plant Sludge Disposal	Tiburon	-471.40
TOTAL						-748.85
09/08/21	8463	Marin Municipal Water Distr...	Water, July - August, 2021	JP Morgan Chase - Primary 7399		
			Cust #:424793, Golden Gate BPS - Water, July - August, 2021	8541 · Water	Belvedere	-80.30
			Cust #:424791, Cove Rd. BPS - Water, July - August, 2021	8541 · Water	Belvedere	-84.56
			Cust #:558095, San Rafael Ave. BPS - Water, July - August, 2021	8541 · Water	Belvedere	-68.82
			Cust #138856, Mar West TPS - Water, July - August, 2021	8541 · Water	Tiburon	-80.30
			Cust #100098, M.P. - Water, 2020 - July - August, 2021	8541 · Water	Belvedere	-454.51
			Cust #100098, M.P. - Water, 2020 - July - August, 2021	8541 · Water	Tiburon	-772.25
TOTAL						-1,540.74
09/08/21	8464	McC Campbell Analytical, Inc.	M.P. Monitoring, AcuteToxicity Testing, August 2021	JP Morgan Chase - Primary 7399		
			Inv #2107D34, M.P. Monitoring, AcuteToxicity Testing, August 2...	7053 · Chronic Toxicity	Belvedere	-319.56
			Inv #2107D34, M.P. Monitoring, AcuteToxicity Testing, August 2...	7053 · Chronic Toxicity	Tiburon	-542.94
TOTAL						-862.50
09/08/21	8465	MidAmerica Administrative ...	HRA Retiree Health Reimb. Admin Fees, 2Q21 - September 2...	JP Morgan Chase - Primary 7399		
			inv #MAR17026, HRA Retiree Health Reimburs. Administration ...	8022.05 · Reitree Health	Belvedere	-80.91
			inv #MAR17026, HRA Retiree Health Reimburs. Administration ...	8022.05 · Reitree Health	Tiburon:Paradise ...	-6.57
			inv #MAR17026, HRA Retiree Health Reimburs. Administration ...	8022.05 · Reitree Health	Tiburon	-137.52
TOTAL						-225.00
09/08/21	8466	Roy's Sewer Service, Inc.	P&L + Small Vactor Machine Cleaning (Tib) - September 2021	JP Morgan Chase - Primary 7399		
			Inv #213773, Cleareddigester valve at SD5 M.P., as directed, 8...	7011 · Pumps & Lines Maintena...	Belvedere	-398.00
			Inv #213486, Cleared line at 77 Belvedere Ave., as directed, 8.2...	7011 · Pumps & Lines Maintena...	Belvedere	-2,220.00
			Inv #213641, Cleared line at Tiburon Blvd (Rodder), as directed,...	7011 · Pumps & Lines Maintena...	Tiburon	-1,005.00
			Inv #213774, Small Machine Vactor Cleaning - Tiburon Zone, thr...	7011 · Pumps & Lines Maintena...	Tiburon	-25,795.00
			Inv #213870, Small Machine Vactor Cleaning - Tiburon Zone, thr...	7011 · Pumps & Lines Maintena...	Tiburon	-49,747.50
TOTAL						-79,165.50

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09/08/21	8467	Town of Tiburon	Fuel, July 2021	JP Morgan Chase - Primary 7399		
			Fuel, July 2021	7071 · Fuel	Belvedere	-353.87
			Fuel, July 2021	7071 · Fuel	Tiburon:Paradise ...	-28.73
			Fuel, July 2021	7071 · Fuel	Tiburon	-601.47
TOTAL						-984.07
09/08/21	8468	U.S. Bank	Acct#:4246-0441-0158-3635, July - August 2021	JP Morgan Chase - Primary 7399		
			#0822:/9545: Zoom Platform re SD5 Meetings, August 2021	6018.1 · Meetings & Travel	Belvedere	-19.77
			#0822:/9545: Zoom Platform re SD5 Meetings, August 2021	6018.1 · Meetings & Travel	Tiburon:Paradise ...	-1.61
			#0822:/9545: Zoom Platform re SD5 Meetings, August 2021	6018.1 · Meetings & Travel	Tiburon	-33.61
			#0822:/9545: Travel & Lodging re Tri-State Seminar (NV), Augu...	6018.1 · Meetings & Travel	Belvedere	-525.32
			#0822:/9545: Travel & Lodging re Tri-State Seminar (NV), Augu...	6018.1 · Meetings & Travel	Tiburon:Paradise ...	-42.66
			#0822:/9545: Travel & Lodging re Tri-State Seminar (NV), Augu...	6018.1 · Meetings & Travel	Tiburon	-892.86
			#0822:/9545: Lg Manila Folders + White out - Amazon, August ...	6047 · Office Supplies	Belvedere	-27.33
			#0822:/9545: Lg Manila Folders + White out - Amazon, August ...	6047 · Office Supplies	Tiburon:Paradise ...	-2.22
			#0822:/9545: Lg Manila Folders + White out - Amazon, August ...	6047 · Office Supplies	Tiburon	-46.46
			#0822:/9545: Fittings, parts & Batteries for SD5 PS - Amazon + ...	7011 · Pumps & Lines Maintena...	Tiburon	-283.36
			#0822:/9545: Fittings, parts & Batteries for SD5 PS - Amazon + ...	7011 · Pumps & Lines Maintena...	Tiburon:Paradise ...	-23.01
			#0822:/9545: Fittings, parts & Batteries for SD5 PS - Amazon + ...	7011 · Pumps & Lines Maintena...	Belvedere	-481.63
			#0822:/9545: Milwaulkee Cutter tool - Amazon, 7.28.2021; Relia...	7021 · Plant Maintenance Supplies	Belvedere	-206.51
			#0822:/9545: Milwaulkee Cutter tool - Amazon, 7.28.2021; Relia...	7021 · Plant Maintenance Supplies	Tiburon	-350.86
			#0822:/9545: M.P. Secondary Clarifier Scum Collector Bearing ...	7022 · Plant Maint. Parts & Service	Belvedere	-828.08
			#0822:/9545: M.P. Secondary Clarifier Scum Collector Bearing ...	7022 · Plant Maint. Parts & Service	Tiburon	-1,406.96
			#0822:/9545: M.P. TP, Amazon, 8.11.21	7023 · Janitorial Supplies & Servi...	Belvedere	-20.69
			#0822:/9545: M.P. TP, Amazon, 8.11.21	7023 · Janitorial Supplies & Servi...	Tiburon	-35.16
			#0822:/9545: Boomtruck, 7.21.21, 7.29.21, 8.17.2021 (SpringW...	7072 · Maintenance	Belvedere	-833.39
			#0822:/9545: Boomtruck, 7.21.21, 7.29.21, 8.17.2021 (SpringW...	7072 · Maintenance	Tiburon:Paradise ...	-67.67
			#0822:/9545: Boomtruck, 7.21.21, 7.29.21, 8.17.2021 (SpringW...	7072 · Maintenance	Tiburon	-1,416.50
			#0822:/9545: Large monitor, 7.6.21; cordless phone chargers, 8...	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-180.53
			#0822:/9545: Large monitor, 7.6.21; cordless phone chargers, 8...	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-14.66
			#0822:/9545: Large monitor, 7.6.21; cordless phone chargers, 8...	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-306.84
TOTAL						-8,047.69
09/08/21	8469	Univar	Cust ID #STDT001, Chemicals, September 2021	JP Morgan Chase - Primary 7399		
			Inv #49402062, Sodium Bisulfite 25% (\$1.300/Gal), September ...	7024 · Main Plant Chemicals	Belvedere	-2,347.63
			Inv #49402062, Sodium Bisulfite 25% (\$1.300/Gal), September ...	7042 · Paradise Supplies & Che...	Tiburon:Paradise ...	-190.63
			Inv #49402062, Sodium Bisulfite 25% (\$1.300/Gal), September ...	7024 · Main Plant Chemicals	Tiburon	-3,990.18
			Inv #49418541, Sodium Hypochlorite 12.5% (\$0.7001/Gal), Sept...	7024 · Main Plant Chemicals	Belvedere	-668.18
			Inv #49418541, Sodium Hypochlorite 12.5% (\$0.7001/Gal), Sept...	7042 · Paradise Supplies & Che...	Tiburon:Paradise ...	-54.26
			Inv #49418541, Sodium Hypochlorite 12.5% (\$0.7001/Gal), Sept...	7024 · Main Plant Chemicals	Tiburon	-1,135.68
TOTAL						-8,386.56

Sanitary Distr. No.5 of Marin Co.
Warrant List Detail
August 11 through September 8, 2021

09/08/21

Date	Num	Name	Memo	Account	Class	Paid Amount
09/08/21	8470	USA BlueBook	Cust #933682, P.C. Parts & Service, July 2021 Inv #680883, Chemical Pump (manual) - July 2021	JP Morgan Chase - Primary 7399 7041 · Paradise Parts & Service	Tiburon:Paradise ...	-1,814.65
TOTAL						-1,814.65
09/08/21	8471	Waste Management of Red...	Acct #507-0000190-1507-2, Sludge Disposal, August 2021 Inv #0103357-1507-3, Sludge Disposal - 2 Drop-offs, 10.73 tons... Inv #0103357-1507-3, Sludge Disposal - 2 Drop-offs, 10.73 tons...	JP Morgan Chase - Primary 7399 7029 · Main Plant Sludge Disposal 7029 · Main Plant Sludge Disposal	Belvedere Tiburon	-159.22 -270.52
TOTAL						-429.74
09/08/21	8472	Water Components & Buildi...	Acct #454, P&L + M.P. Maint. Supplies, August 2021 Inv #30561678, M.P. ER Repair at Grit Chamber, August 2021 Inv #30561678, M.P. ER Repair at Grit Chamber, August 2021 Inv #30561323, Ops waterline harware and materials, August 20... Inv #30561323, Ops waterline harware and materials, August 20...	JP Morgan Chase - Primary 7399 7021 · Plant Maintenance Supplies 7021 · Plant Maintenance Supplies 7011 · Pumps & Lines Maintena... 7011 · Pumps & Lines Maintena...	Belvedere Tiburon Belvedere Tiburon	-137.80 -234.14 -90.28 -153.40
TOTAL						-615.62
09/08/21	8473	WorkSmart Automation, Inc.	SD5 Comm System Maintenance, August 2021 Inv #5127, Troubleshooting at SCADA system; build & import ... Inv #5127, Troubleshooting at SCADA system; build & import ... Inv #5127, Troubleshooting at SCADA system; build & import ...	JP Morgan Chase - Primary 7399 8510 · Data/Alarms/IT Supp & Li... 8510 · Data/Alarms/IT Supp & Li... 8510 · Data/Alarms/IT Supp & Li...	Belvedere Tiburon:Paradise ... Tiburon	-668.86 -54.31 -1,136.83
TOTAL						-1,860.00
09/08/21	8475	Omar Arias	Reimbursement of Travel Expenses re CASA Conference, S... Hotel Reimbursement, 8.10.2021 - 8.12.2021 - Annual CASA M... Hotel Reimbursement, 8.10.2021 - 8.12.2021 - Annual CASA M... Hotel Reimbursement, 8.10.2021 - 8.12.2021 - Annual CASA M... Travel Reimbursement, as listed in SD5 Financial SOP, Appendi... Travel Reimbursement, as listed in SD5 Financial SOP, Appendi... Travel Reimbursement, as listed in SD5 Financial SOP, Appendi... 3 Days of Meals/diem at \$45/Day (8.10.2021 - 8.12.2021) - Ann... 3 Days of Meals/diem at \$45/Day (8.10.2021 - 8.12.2021) - Ann... 3 Days of Meals/diem at \$45/Day (8.10.2021 - 8.12.2021) - Ann...	JP Morgan Chase - Primary 7399 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel 6018.1 · Meetings & Travel	Belvedere Tiburon:Paradise ... Tiburon Belvedere Tiburon:Paradise ... Tiburon Belvedere Tiburon:Paradise ... Tiburon	-399.13 -32.41 -678.40 -115.79 -9.40 -196.81 -48.55 -3.94 -82.51
TOTAL						-1,566.94

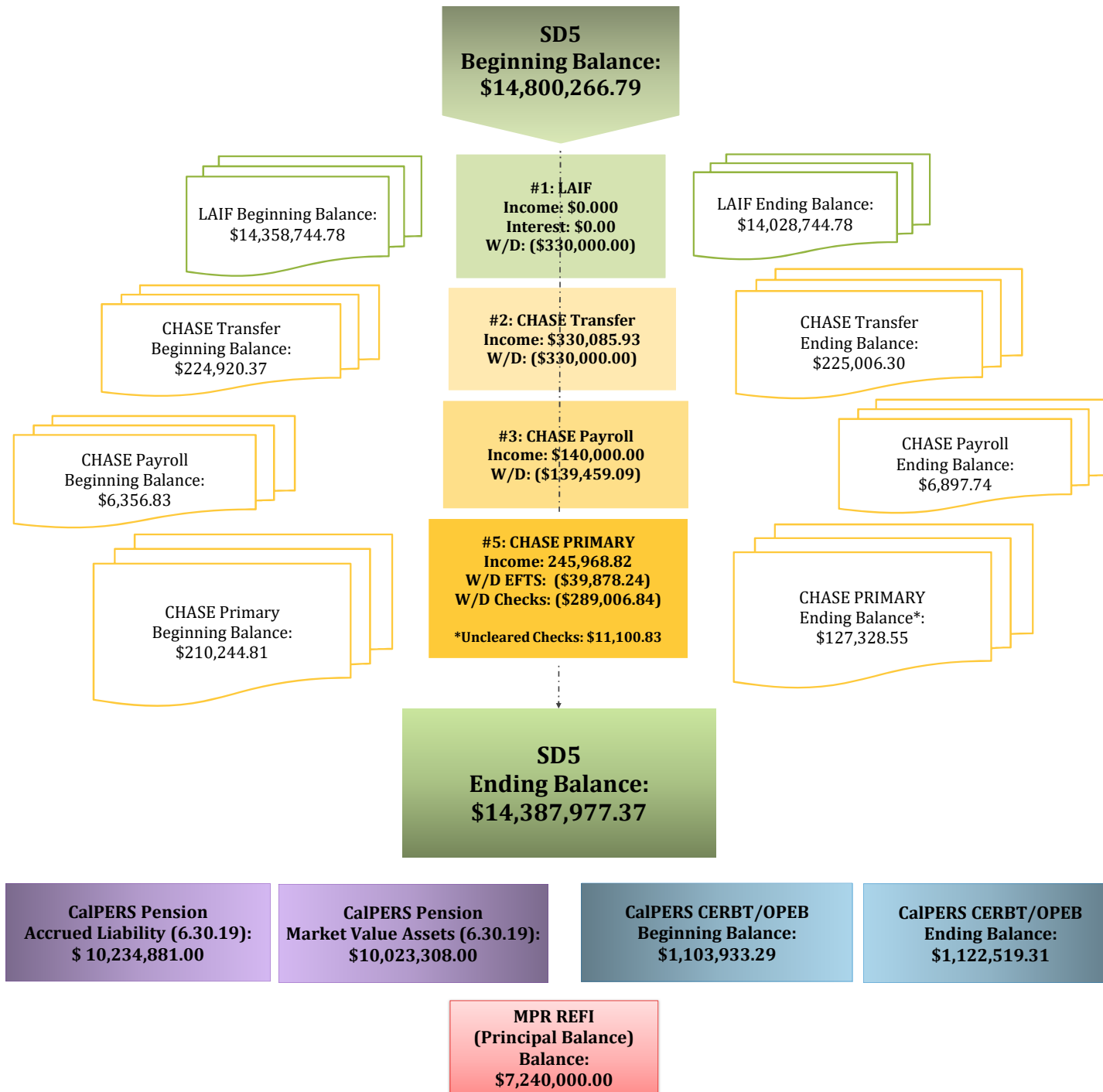
Sanitary Distr. No.5 of Marin Co.
Warrant List Detail
 August 11 through September 8, 2021

09/08/21

Date	Num	Name	Memo	Account	Class	Paid Amount
09/08/21	8476	Lepera, Joseph	Permit Refund: 8 Rolling Hills - September 2021	JP Morgan Chase - Primary 7399		
			Permit Refund: No longer building ADU @ 8 Rolling Hills, Tiburo...	5900.31 · Collection	Tiburon	-8,127.00
			Permit Refund: No longer building ADU @ 8 Rolling Hills, Tiburo...	5900.34 · Treatment	Tiburon	-11,235.00
TOTAL						-19,362.00
09/08/21	8477	Healthy Building Science, I...	M.P. Air Quality Sampling & Testing - August 2021	JP Morgan Chase - Primary 7399		
			Inv #5098, M.P. Air Quality Sampling & Testing - August 2021	8515 · Safety	Belvedere	-2,616.47
			Inv #5098, M.P. Air Quality Sampling & Testing - August 2021	8515 · Safety	Tiburon	-4,445.53
TOTAL						-7,062.00
09/08/21	8478	Wonderware NorCal	Cust #SANI5, SCADA Sys. Maint.& IT Support Contract Rene...	JP Morgan Chase - Primary 7399		
			Quote#266592.1 - Site ID#118116, SCADA System Maintenanc...	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-173.06
			Quote#266592.1 - Site ID#118116, SCADA System Maintenanc...	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-14.05
			Quote#266592.1 - Site ID#118116, SCADA System Maintenanc...	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-294.14
			Quote#266592.1 - Site ID#118116, SCADA System Maintenanc...	8510 · Data/Alarms/IT Supp & Li...	Belvedere	-123.61
			Quote#266592.1 - Site ID#118116, SCADA System Maintenanc...	8510 · Data/Alarms/IT Supp & Li...	Tiburon:Paradise ...	-10.04
			Quote#266592.1 - Site ID#118116, SCADA System Maintenanc...	8510 · Data/Alarms/IT Supp & Li...	Tiburon	-210.10
TOTAL						-825.00

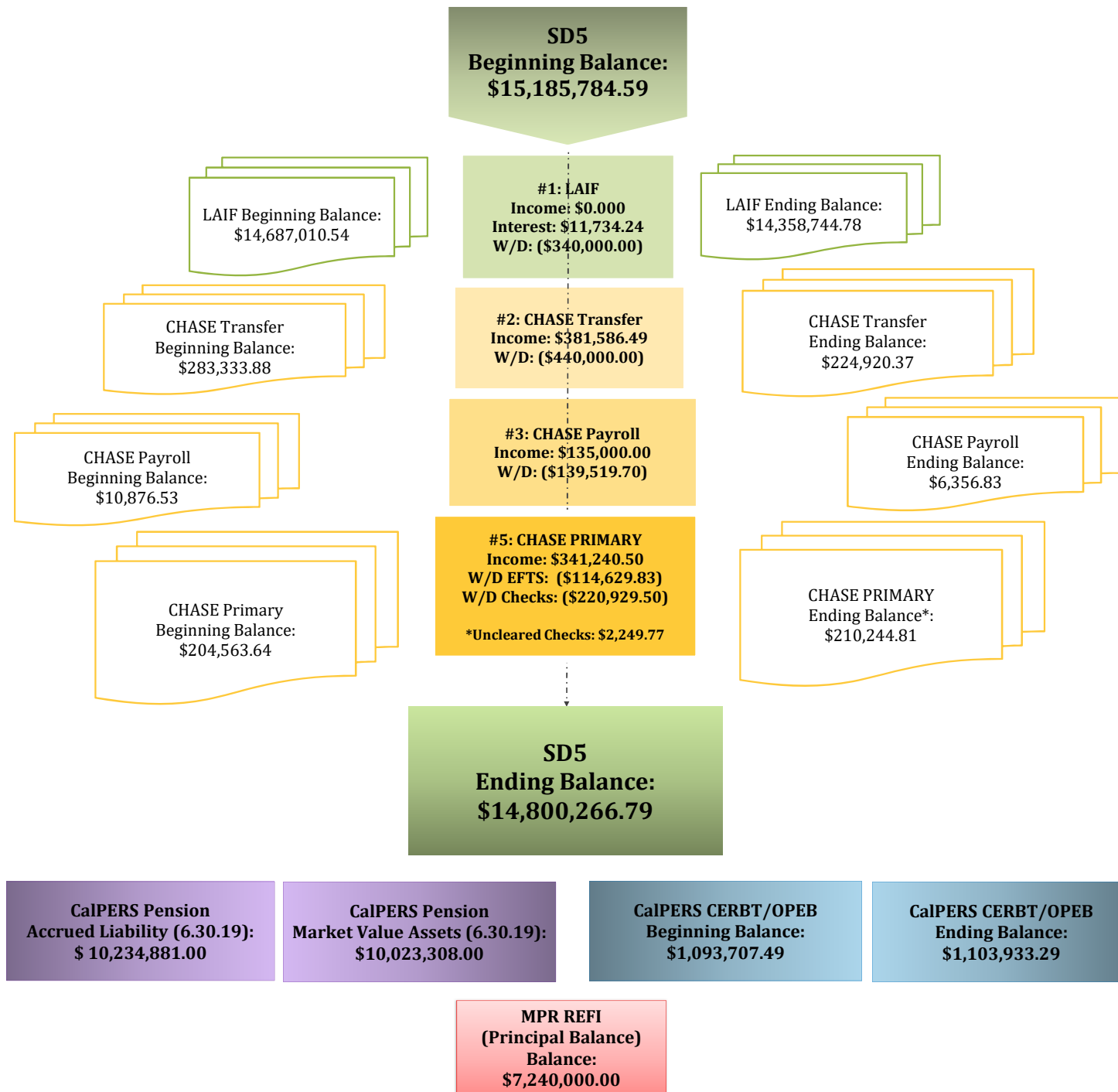
CASH FLOW CHART

SANITARY DISTRICT NO. 5 OF MARIN COUNTY: August 2021



CASH FLOW CHART

SANITARY DISTRICT NO. 5 OF MARIN COUNTY: July 2021



AUG 11, 2021

SANITARY DISTRICT NO 5 - 0400-2116
PO BOX 227
BELVEDERE TIBURON, CA 94920

CHECK DATE : 08/13/2021 WEEK 33
PERIOD BEGIN : 08/01/2021
PERIOD END : 08/15/2021



Dear Paychex Preview Client,

Enclosed are your payroll reports and checks. Please verify that all information is accurate and correct. If there are any questions or concerns, please contact us immediately.

If you have tax deposits due, ensure the deposits are initiated at least one banking day prior to the due date to avoid penalties. We will assume that these deposits were made on the due dates and they will be reflected on your returns accordingly.

This is a summary of your payroll transactions of the check date of 08/13/2021. It does not reflect miscellaneous administrative charges. Please refer to your Paychex Human Resource Services invoice(s) for any additional cash required for this check date.


PAYROLL TOTALS

DIRECT DEPOSIT DEBITED FROM YOUR ACCOUNT	37694.70		
READYCHEX DEBITED FROM YOUR ACCOUNT	0.00	NUMBER OF PAYROLL CHECKS	19
TOTAL NET PAYROLL	37694.70		

BILLING PAYMENT	273.20 ✓	Withdrawal made by PAYCHEX INC. on above check date.	
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AMOUNT DEBITED FROM TAX ACCOUNT	22137.15		
TOTAL TAX LIABILITY DUE BY CLIENT	0.00	NUMBER OF CHECKS PRINTED	19
TOTAL TAX LIABILITY	22137.15 ✓		

ADJUSTMENTS TO TAX LIABILITY

TOTAL ADJUSTMENTS	-0.00		
TOTAL NET PAYROLL, TAX LIABILITY, AND SERVICES	59831.85		
TOTAL COST OF PAYROLL	60105.05 	NUMBER OF MANUAL/VOID TRANSACTIONS	0

TAX DEPOSITS DUE

TAX AGENCY	TAXPAY	NON-TAXPAY	DUE DATE	
FEDERAL	18471.77		08/18/2021	Deposit made by PAYCHEX INC. on your behalf.
STATE - CA	3531.91		08/18/2021	Deposit made by PAYCHEX INC. on your behalf.

AUG 26, 2021

**SANITARY DISTRICT NO 5 - 0400-2116
PO BOX 227
BELVEDERE TIBURON, CA 94920**

CHECK DATE : 08/31/2021 WEEK 36
PERIOD BEGIN : 08/16/2021
PERIOD END : 08/31/2021

Dear Paychex Preview Client,

Enclosed are your payroll reports and checks. Please verify that all information is accurate and correct. If there are any questions or concerns, please contact us immediately.

If you have tax deposits due, ensure the deposits are initiated at least one banking day prior to the due date to avoid penalties. We will assume that these deposits were made on the due dates and they will be reflected on your returns accordingly.

This is a summary of your payroll transactions of the check date of 08/31/2021. It does not reflect miscellaneous administrative charges. Please refer to your Paychex Human Resource Services invoice(s) for any additional cash required for this check date.

PAYROLL TOTALS

DIRECT DEPOSIT DEBITED FROM YOUR ACCOUNT	47078.25		
READYCHEX DEBITED FROM YOUR ACCOUNT	0.00	NUMBER OF PAYROLL CHECKS	15
TOTAL NET PAYROLL	47078.25 ✓		
 BILLING PAYMENT	 253.20	✓	Withdrawal made by PAYCHEX INC. on above check date.
 AMOUNT DEBITED FROM TAX ACCOUNT	 29151.60		
TOTAL TAX LIABILITY DUE BY CLIENT	0.00		
TOTAL TAX LIABILITY	29151.60	NUMBER OF CHECKS PRINTED	15
 ADJUSTMENTS TO TAX LIABILITY			
TOTAL ADJUSTMENTS	-0.00		
TOTAL NET PAYROLL, TAX LIABILITY, AND SERVICES	76229.85		
TOTAL COST OF PAYROLL	76483.05	④	NUMBER OF MANUAL/VOID TRANSACTIONS 0

TAX DEPOSITS DUE

TAX AGENCY	TAXPAY	NON-TAXPAY	DUE DATE	
FEDERAL	24096.29		09/03/2021	Deposit made by PAYCHEX INC. on your behalf.
STATE - CA	5055.31		09/03/2021	Deposit made by PAYCHEX INC. on your behalf.

Sanitary Distr. No.5 of Marin Co.
Comparative Balance Sheet as of August 31, 2021
Per End of Year (FY20-21) Adjustments

	<u>Aug 31, 21</u>	<u>Jul 31, 21</u>	<u>\$ Change</u>
ASSETS			
Current Assets			
Checking/Savings			
Local Agency Investment Fund			
Belvedere			
Belvedere Operating	3,255,625.10	3,359,445.35	-103,820.25
Belvedere Operating Reserve	516,923.05	516,923.05	0.00
Belvedere Capital & CIP Reserve	2,115,685.28	2,124,292.24	-8,606.96
Belvedere PERS Retirement Trust	356,250.00	356,250.00	0.00
Belvedere Disaster Recovery Fnd	356,250.00	356,250.00	0.00
Total Belvedere	<u>6,600,733.43</u>	<u>6,713,160.64</u>	<u>-112,427.21</u>
Tiburon			
Tiburon Operating	1,874,824.24	2,084,304.36	-209,480.12
Tiburon Operating Reserve	683,930.00	683,930.00	0.00
Tiburon Capital & CIP Reserve	3,581,757.11	3,589,849.78	-8,092.67
Tiburon PERS Retirement Trust	643,750.00	643,750.00	0.00
Tiburon Disaster Recovery Fund	643,750.00	643,750.00	0.00
Total Tiburon	<u>7,428,011.35</u>	<u>7,645,584.14</u>	<u>-217,572.79</u>
Total Local Agency Investment Fund	<u>14,028,744.78</u>	<u>14,358,744.78</u>	<u>-330,000.00</u>
JP Morgan Chase - Primary 7399	118,728.97	207,995.04	-89,266.07
JP Morgan Chase - Payroll 7506	6,897.74	6,335.68	562.06
JP Morgan Chase - Transfer 7522	225,006.30	224,920.37	85.93
Total Checking/Savings	<u>14,379,377.79</u>	<u>14,797,995.87</u>	<u>-418,618.08</u>
Accounts Receivable			
Accounts Receivable	65,782.70	24,637.50	41,145.20
Total Accounts Receivable	<u>65,782.70</u>	<u>24,637.50</u>	<u>41,145.20</u>
Other Current Assets			
Petty Cash	881.92	881.92	0.00
1499 - Undeposited Funds	41,365.68	22,811.96	18,553.72
Total Other Current Assets	<u>42,247.60</u>	<u>23,693.88</u>	<u>18,553.72</u>
Total Current Assets	<u>14,487,408.09</u>	<u>14,846,327.25</u>	<u>-358,919.16</u>
Fixed Assets	<u>20,408,185.19</u>	<u>20,408,185.19</u>	<u>0.00</u>
TOTAL ASSETS	<u>34,895,593.28</u>	<u>35,254,512.44</u>	<u>-358,919.16</u>
LIABILITIES & EQUITY	34,895,593.28	35,254,512.44	-358,919.16

Sanitary Distr. No.5 of Marin Co.
Annual Budget vs Actual Expenses, July thru August 2021
Per End of Year (FY20-21) Adjustments

	Jul - Aug 21	Budget	\$ Over Budget	% of Budget
Ordinary Income/Expense				
Income				
5000 · Property Taxes				
5001.2 · TEETER	4,168.55	825,000.00	-820,831.45	0.5%
5002 · UNSEC	0.00	15,000.00	-15,000.00	0.0%
5003 · PUNS / PRIOR UNSECURED	0.00	500.00	-500.00	0.0%
5004 · REDEMPTION / RDMPT	118.77			
5006 · SPLU	0.00	300.00	-300.00	0.0%
5041 · SUPSEC	875.84	12,000.00	-11,124.16	7.3%
5043 · SECU	0.00	0.00	0.00	0.0%
5046 · Excess ERAF	0.00	300,000.00	-300,000.00	0.0%
5280 · HOPTR	0.00	3,333.00	-3,333.00	0.0%
5483 · Other tax	1.49			
Total 5000 · Property Taxes	5,164.65	1,156,133.00	-1,150,968.35	0.4%
5007 · Sewer Service Charge				
5007.1 · Sewer Service - Tiburon Ops	60,581.65	2,283,000.00	-2,222,418.35	2.7%
5007.5 · Sewer Service - Tiburon Cap	908.96	12,000.00	-11,091.04	7.6%
5007.2 · Sewer Service-Belv Ops	10,095.85	1,300,000.00	-1,289,904.15	0.8%
5007.3 · Sewer Service-Belv Cap	6,591.51	866,300.00	-859,708.49	0.8%
5007.4 · Other User Fees	29,262.20	38,700.00	-9,437.80	75.6%
Total 5007 · Sewer Service Charge	107,440.17	4,500,000.00	-4,392,559.83	2.4%
5201 · Interest				
5201.2 · Interest LAIF	11,734.24	100,000.00	-88,265.76	11.7%
Total 5201 · Interest	11,734.24	100,000.00	-88,265.76	11.7%
5900.3 · Connection Fees				
5900.30 · Connection Permit Fees	1,550.00	10,000.00	-8,450.00	15.5%
5900.31 · Collection	15,195.78	100,000.00	-84,804.22	15.2%
5900.34 · Treatment	16,087.12	100,000.00	-83,912.88	16.1%
Total 5900.3 · Connection Fees	32,832.90	210,000.00	-177,167.10	15.6%
5900.4 · Inspection Permit Fees	1,650.00	17,000.00	-15,350.00	9.7%
5900.5 · SASM Expense Reimb.	16,760.22	100,000.00	-83,239.78	16.8%
5900.9 · Other Income	0.00	100.00	-100.00	0.0%
5900.10 · Paradise Sewer Line Ext. Fees	0.00	14,040.00	-14,040.00	0.0%
Total Income	175,582.18	6,097,273.00	-5,921,690.82	2.9%
Gross Profit	175,582.18	6,097,273.00	-5,921,690.82	2.9%
Expense				
6000 · Administrative Expenses				
6001 · Advertising	325.00	1,000.00	-675.00	32.5%
6008 · Audit & Accounting	0.00	40,000.00	-40,000.00	0.0%
6017 · Consulting Fees	4,984.71	150,000.00	-145,015.29	3.3%
6018 · Travel & Meetings				
6018.1 · Meetings & Travel	4,495.91	6,000.00	-1,504.09	74.9%
6018.2 · Standby Mileage Expense Reimb	1,196.92	9,000.00	-7,803.08	13.3%
Total 6018 · Travel & Meetings	5,692.83	15,000.00	-9,307.17	38.0%
6020 · Continuing Education	448.00	10,000.00	-9,552.00	4.5%
6021 · County Fees	4,165.60	16,590.00	-12,424.40	25.1%
6024 · Director Fees	3,500.00	9,000.00	-5,500.00	38.9%
6025 · Dues & Subscriptions	5,118.83	31,000.00	-25,881.17	16.5%
6033 · Insurance Property & Liability				
6033.1 · PLP Public Entity Phys Damage	0.00	25,000.00	-25,000.00	0.0%
6033.2 · General Liability	61,710.21	45,000.00	16,710.21	137.1%
6033.3 · Physical Property Damage - Auto	4,174.00	4,000.00	174.00	104.4%
Total 6033 · Insurance Property & Liability	65,884.21	74,000.00	-8,115.79	89.0%
6039 · Legal	5,024.50	50,000.00	-44,975.50	10.0%
6047 · Office Supplies	1,283.56	10,000.00	-8,716.44	12.8%
6056 · Postage	42.20	1,000.00	-957.80	4.2%
6059 · Pollution Prevention/Public Edu	0.00	5,000.00	-5,000.00	0.0%
6065 · Miscellaneous Expense	0.00			
Total 6000 · Administrative Expenses	96,469.44	412,590.00	-316,120.56	23.4%

Sanitary Distr. No.5 of Marin Co.
Annual Budget vs Actual Expenses, July thru August 2021
Per End of Year (FY20-21) Adjustments

	Jul - Aug 21	Budget	\$ Over Budget	% of Budget
7000 · Ops & Maintenance Expenses				
7010 · Pumps & Lines Maintenance				
7011 · Pumps & Lines Maintenance	24,377.86	75,000.00	-50,622.14	32.5%
7013 · Emergency Line Repair	13,799.18	50,000.00	-36,200.82	27.6%
Total 7010 · Pumps & Lines Maintenance	38,177.04	125,000.00	-86,822.96	30.5%
7020 · Main Plant Maintenance				
7021 · Plant Maintenance Supplies	3,075.66	25,000.00	-21,924.34	12.3%
7022 · Plant Maint. Parts & Service	23,155.93	130,000.00	-106,844.07	17.8%
7023 · Janitorial Supplies & Service	1,876.69	9,000.00	-7,123.31	20.9%
7024 · Main Plant Chemicals	8,390.23	111,000.00	-102,609.77	7.6%
7025 · Lab Supplies & Chemicals	1,426.65	20,000.00	-18,573.35	7.1%
7027 · Electrical & Instrument	0.00	15,000.00	-15,000.00	0.0%
7028 · Grounds Maintenance	366.32	6,000.00	-5,633.68	6.1%
7029 · Main Plant Sludge Disposal	5,023.32	41,000.00	-35,976.68	12.3%
7030 · Main Plant Outfall	0.00	6,500.00	-6,500.00	0.0%
Total 7020 · Main Plant Maintenance	43,314.80	363,500.00	-320,185.20	11.9%
7040 · Paradise Cove Plant Maint				
7041 · Paradise Parts & Service	12,569.14	10,000.00	2,569.14	125.7%
7042 · Paradise Supplies & Chemicals	379.20	5,000.00	-4,620.80	7.6%
Total 7040 · Paradise Cove Plant Maint	12,948.34	15,000.00	-2,051.66	86.3%
7050 · Monitoring				
7051 · Main Plant Lab Monitoring	9,980.75	45,000.00	-35,019.25	22.2%
7052 · Paradise Cove Monitoring	397.50	15,000.00	-14,602.50	2.7%
7053 · Chronic Toxicity	1,974.50			
Total 7050 · Monitoring	12,352.75	60,000.00	-47,647.25	20.6%
7060 · Permits/Fees				
7062 · Permits/Fees - General	6,978.90	50,000.00	-43,021.10	14.0%
7063 · Paradise Cove Permits/Fees	167.76	9,000.00	-8,832.24	1.9%
7064 · Paradise Cove NPDES Renewal	2,405.05			
Total 7060 · Permits/Fees	9,551.71	59,000.00	-49,448.29	16.2%
7070 · Truck Maintenance				
7071 · Fuel	743.22	15,000.00	-14,256.78	5.0%
7072 · Maintenance	3,727.75	10,000.00	-6,272.25	37.3%
Total 7070 · Truck Maintenance	4,470.97	25,000.00	-20,529.03	17.9%
Total 7000 · Ops & Maintenance Expenses	120,815.61	647,500.00	-526,684.39	18.7%
8000 · Salaries and Benefits Expenses				
8001 · Salaries	195,484.60	1,353,783.00	-1,158,298.40	14.4%
8003 · Overtime	30,605.50	100,000.00	-69,394.50	30.6%
8004 · Standby Pay	13,094.76	76,043.00	-62,948.24	17.2%
8005 · Employee Incentives	7,000.00	70,000.00	-63,000.00	10.0%
8006 · Vacation Buyout	15,332.18	30,000.00	-14,667.82	51.1%
8013 · Payroll Taxes	20,760.80	101,047.00	-80,286.20	20.5%
8015 · Payroll/Bank Fees	1,111.05	6,250.00	-5,138.95	17.8%
8016 · Car Allowance	6,000.00	6,000.00	0.00	100.0%
8019 · PERS Retirement				
8019.05 · PERS Retirement	27,147.43	304,705.00	-277,557.57	8.9%
8019.06 · PERS Retirement - RBP	0.00	350.00	-350.00	0.0%
8019.08 · PERS Retirement - CalPERS UAL	0.00	20,000.00	-20,000.00	0.0%
8019 · PERS Retirement - Other	-200.00			
Total 8019 · PERS Retirement	26,947.43	325,055.00	-298,107.57	8.3%
8020 · Employee Health				
8020.05 · Employee Health	31,770.47	223,418.00	-191,647.53	14.2%
8021 · Employee Health Deductions	-391.72			
Total 8020 · Employee Health	31,378.75	223,418.00	-192,039.25	14.0%
8022 · Retiree Health				
8022.05 · Retiree Health	31,842.01	77,127.00	-45,284.99	41.3%
8022.10 · CERBT/OPEB Annual Arc Contribtn	0.00	118,400.00	-118,400.00	0.0%
Total 8022 · Retiree Health	31,842.01	195,527.00	-163,684.99	16.3%

Sanitary Distr. No.5 of Marin Co.
Annual Budget vs Actual Expenses, July thru August 2021
Per End of Year (FY20-21) Adjustments

	Jul - Aug 21	Budget	\$ Over Budget	% of Budget
8023 · Workers Comp Insurance	41,289.30	55,000.00	-13,710.70	75.1%
Total 8000 · Salaries and Benefits Expenses	420,846.38	2,542,123.00	-2,121,276.62	16.6%
8500 · Other Operating Expenses				
8510 · Data/Alarms/IT Supp & Licensing	18,837.97	100,000.00	-81,162.03	18.8%
8515 · Safety	1,188.84	40,000.00	-38,811.16	3.0%
8520 · Personal Protection/Safety Wear	2,570.88	15,000.00	-12,429.12	17.1%
8530 · Telephone				
8531 · Main Plant Telephones	1,231.05	11,000.00	-9,768.95	11.2%
8532 · Paradise Cove Telephones	698.22	4,000.00	-3,301.78	17.5%
8533 · Pumps & Lines Telephones	1,237.43	7,000.00	-5,762.57	17.7%
Total 8530 · Telephone	3,166.70	22,000.00	-18,833.30	14.4%
8540 · Utilities				
8541 · Water	1,382.21	8,000.00	-6,617.79	17.3%
8542 · Main Plant Utilities	36,372.61	200,000.00	-163,627.39	18.2%
8543 · Paradise Cove Utilities	4,169.39	18,000.00	-13,830.61	23.2%
8544 · Pump Station Utilities	7,263.34	45,000.00	-37,736.66	16.1%
Total 8540 · Utilities	49,187.55	271,000.00	-221,812.45	18.2%
Total 8500 · Other Operating Expenses	74,951.94	448,000.00	-373,048.06	16.7%
Total Expense	713,083.37	4,050,213.00	-3,337,129.63	17.6%
Net Ordinary Income	-537,501.19	2,047,060.00	-2,584,561.19	-26.3%
Other Income/Expense				
Other Expense				
9100 · Capital Expenditures				
9200 · Main Plant Equipment Capital				
9203 · M.P. Flare Rehabilitation	0.00	30,000.00	-30,000.00	0.0%
9209 · ScrewPress PolyBlend Redundancy	0.00	35,000.00	-35,000.00	0.0%
9212 · M.P. Headworks Grinder Rplcmnt				
9212.1 · Explosion Proof Electric Hoist	0.00	10,000.00	-10,000.00	0.0%
9212 · M.P. Headworks Grinder Rplcmnt - O...	0.00	25,000.00	-25,000.00	0.0%
Total 9212 · M.P. Headworks Grinder Rplcmnt	0.00	35,000.00	-35,000.00	0.0%
9217 · SD5 Shop Rplcmnt /Ops Control	5,976.63			
9219 · C12 Flash Mixer	0.00	15,000.00	-15,000.00	0.0%
Total 9200 · Main Plant Equipment Capital	5,976.63	115,000.00	-109,023.37	5.2%
9300 · Pumps & Lines Capital				
9301 · Tiburon Sewer Line Rehab Prog	0.00	1,000,000.00	-1,000,000.00	0.0%
9302 · PS Control Panel Upgrades	1,285.94			
9304 · Belvedere Sewer Line Rehab Prog	0.00	100,000.00	-100,000.00	0.0%
9306 · PS Pump & Valve Replacements	9,999.38	50,000.00	-40,000.62	20.0%
9307 · PS Generator Replacement	0.00	100,000.00	-100,000.00	0.0%
9310 · BPS Communication Project	3,105.70			
9311 · Cove Rd Force Main Project				
9311.2 · Cove Rd FM - Const, Ph I	-6,051.74			
9311 · Cove Rd Force Main Project - Other	-23,137.50			
Total 9311 · Cove Rd Force Main Project	-29,189.24			
9313 · Manholes/Rodholes	32,718.59	75,000.00	-42,281.41	43.6%
9314 · Portable Emergency Generators	0.00			
Total 9300 · Pumps & Lines Capital	17,920.37	1,325,000.00	-1,307,079.63	1.4%

Sanitary Distr. No.5 of Marin Co.
Annual Budget vs Actual Expenses, July thru August 2021
Per End of Year (FY20-21) Adjustments

	Jul - Aug 21	Budget	\$ Over Budget	% of Budget
9500 · Undesignated Capital				
9510 · Undesignated Cap - M.P.	0.00	25,000.00	-25,000.00	0.0%
9520 · Undesignated Cap - P.C. Plant	0.00	10,000.00	-10,000.00	0.0%
9530 · Undesignated Cap - P & L	0.00	50,000.00	-50,000.00	0.0%
Total 9500 · Undesignated Capital	0.00	85,000.00	-85,000.00	0.0%
Total 9100 · Capital Expenditures	23,897.00	1,525,000.00	-1,501,103.00	1.6%
Total Other Expense	23,897.00	1,525,000.00	-1,501,103.00	1.6%
Net Other Income	-23,897.00	-1,525,000.00	1,501,103.00	1.6%
Net Income	<u>-561,398.19</u>	<u>522,060.00</u>	<u>-1,083,458.19</u>	<u>-107.5%</u>

Sanitary Distr. No.5 of Marin Co.
Zone Report, through August 2021
Per End of Year (FY20-21) Adjustments

	Paradise C... (Tiburon)	Tiburon - O... (Tiburon)	Total Tiburon	Belvedere	TOTAL
Ordinary Income/Expense					
Income					
5000 · Property Taxes					
5004 · REDEMPTION / RDMPT	3.93	82.00	85.93	0.00	85.93
Total 5000 · Property Taxes	3.93	82.00	85.93	0.00	85.93
5007 · Sewer Service Charge					
5007.1 · Sewer Service - Tiburon Ops	0.00	41,670.20	41,670.20	0.00	41,670.20
5007.4 · Other User Fees	0.00	29,262.20	29,262.20	0.00	29,262.20
Total 5007 · Sewer Service Charge	0.00	70,932.40	70,932.40	0.00	70,932.40
5900.3 · Connection Fees					
5900.30 · Connection Permit Fees	0.00	650.00	650.00	600.00	1,250.00
5900.31 · Collection	0.00	7,765.78	7,765.78	6,687.00	14,452.78
5900.34 · Treatment	0.00	10,737.12	10,737.12	4,815.00	15,552.12
Total 5900.3 · Connection Fees	0.00	19,152.90	19,152.90	12,102.00	31,254.90
5900.4 · Inspection Permit Fees	0.00	800.00	800.00	300.00	1,100.00
Total Income	3.93	90,967.30	90,971.23	12,402.00	103,373.23
Gross Profit	3.93	90,967.30	90,971.23	12,402.00	103,373.23
Expense					
6000 · Administrative Expenses					
6001 · Advertising	0.00	0.00	0.00	0.00	0.00
6008 · Audit & Accounting	0.00	0.00	0.00	0.00	0.00
6017 · Consulting Fees	2.01	42.08	44.09	24.76	68.85
6018 · Travel & Meetings					
6018.1 · Meetings & Travel	120.16	2,724.10	2,844.26	1,596.66	4,440.92
6018.2 · Standby Mileage Expense Re...	66.00	342.92	408.92	511.07	919.99
Total 6018 · Travel & Meetings	186.16	3,067.02	3,253.18	2,107.73	5,360.91
6020 · Continuing Education	5.13	121.69	126.82	71.18	198.00
6021 · County Fees	121.64	2,546.01	2,667.65	1,497.95	4,165.60
6025 · Dues & Subscriptions	5.60	117.35	122.95	69.05	192.00
6039 · Legal	27.74	1,603.24	1,630.98	385.02	2,016.00
6047 · Office Supplies	14.39	504.17	518.56	296.66	815.22
6056 · Postage	0.54	12.91	13.45	7.55	21.00
6065 · Miscellaneous Expense	0.00	0.00	0.00	0.00	0.00
Total 6000 · Administrative Expenses	363.21	8,014.47	8,377.68	4,459.90	12,837.58
7000 · Ops & Maintenance Expenses					
7010 · Pumps & Lines Maintenance					
7011 · Pumps & Lines Maintenance	45.56	3,151.53	3,197.09	874.72	4,071.81
Total 7010 · Pumps & Lines Maintenance	45.56	3,151.53	3,197.09	874.72	4,071.81
7020 · Main Plant Maintenance					
7021 · Plant Maintenance Supplies	30.46	1,662.98	1,693.44	990.02	2,683.46
7022 · Plant Maint. Parts & Service	0.00	9,217.87	9,217.87	5,425.29	14,643.16
7023 · Janitorial Supplies & Service	0.00	480.49	480.49	282.76	763.25
7024 · Main Plant Chemicals	0.00	5,780.82	5,780.82	3,401.27	9,182.09
7025 · Lab Supplies & Chemicals	0.00	216.83	216.83	127.62	344.45
7027 · Electrical & Instrument	0.00	0.00	0.00	0.00	0.00
7028 · Grounds Maintenance	0.00	131.17	131.17	77.20	208.37
7029 · Main Plant Sludge Disposal	0.00	2,246.60	2,246.60	1,319.05	3,565.65
Total 7020 · Main Plant Maintenance	30.46	19,736.76	19,767.22	11,623.21	31,390.43
7040 · Paradise Cove Plant Maint					
7041 · Paradise Parts & Service	4,551.64	2,975.20	7,526.84	0.00	7,526.84
7042 · Paradise Supplies & Chemicals	251.10	0.00	251.10	0.00	251.10
Total 7040 · Paradise Cove Plant Maint	4,802.74	2,975.20	7,777.94	0.00	7,777.94

Sanitary Distr. No.5 of Marin Co.
Zone Report, through August 2021
Per End of Year (FY20-21) Adjustments

	Paradise C... (Tiburon)	Tiburon - O... (Tiburon)	Total Tiburon	Belvedere	TOTAL
7050 · Monitoring					
7051 · Main Plant Lab Monitoring	0.00	4,014.49	4,014.49	2,736.66	6,751.15
7052 · Paradise Cove Monitoring	84.95	0.00	84.95	0.00	84.95
7053 · Chronic Toxicity	0.00	1,242.95	1,242.95	731.55	1,974.50
Total 7050 · Monitoring	84.95	5,257.44	5,342.39	3,468.21	8,810.60
7060 · Permits/Fees					
7064 · Paradise Cove NPDES Renewal	2,405.05	0.00	2,405.05	0.00	2,405.05
Total 7060 · Permits/Fees	2,405.05	0.00	2,405.05	0.00	2,405.05
7070 · Truck Maintenance					
7071 · Fuel	0.00	0.00	0.00	0.00	0.00
7072 · Maintenance	104.36	2,184.45	2,288.81	1,285.22	3,574.03
Total 7070 · Truck Maintenance	104.36	2,184.45	2,288.81	1,285.22	3,574.03
Total 7000 · Ops & Maintenance Expenses	7,473.12	33,305.38	40,778.50	17,251.36	58,029.86
8000 · Salaries and Benefits Expenses					
8001 · Salaries	3,000.06	62,795.90	65,795.96	36,946.01	102,741.97
8003 · Overtime	580.28	12,146.06	12,726.34	7,146.15	19,872.49
8004 · Standby Pay	194.94	4,080.20	4,275.14	2,400.60	6,675.74
8006 · Vacation Buyout	138.88	2,906.91	3,045.79	1,710.28	4,756.07
8007 · Voluntary Deductions	0.00	0.00	0.00	0.00	0.00
8008 · Deferred Comp 457	0.00	0.00	0.00	0.00	0.00
8013 · Payroll Taxes	298.44	6,246.80	6,545.24	3,675.31	10,220.55
8015 · Payroll/Bank Fees	15.37	321.74	337.11	189.29	526.40
8019 · PERS Retirement					
8019.05 · PERS Retirement	410.48	8,571.16	8,981.64	5,055.17	14,036.81
8019 · PERS Retirement - Other	0.00	-200.00	-200.00	0.00	-200.00
Total 8019 · PERS Retirement	410.48	8,371.16	8,781.64	5,055.17	13,836.81
8020 · Employee Health					
8020.05 · Employee Health	488.67	10,228.76	10,717.43	6,018.11	16,735.54
8021 · Employee Health Deductions	-5.72	-119.70	-125.42	-70.44	-195.86
Total 8020 · Employee Health	482.95	10,109.06	10,592.01	5,947.67	16,539.68
8022 · Retiree Health					
8022.05 · Retiree Health	25.51	533.95	559.46	314.16	873.62
Total 8022 · Retiree Health	25.51	533.95	559.46	314.16	873.62
8023 · Workers Comp Insurance	-34.84	-816.18	-851.02	-477.68	-1,328.70
Total 8000 · Salaries and Benefits Expens...	5,112.07	106,695.60	111,807.67	62,906.96	174,714.63
8500 · Other Operating Expenses					
8510 · Data/Alarms/IT Supp & Licensing	122.79	2,656.41	2,779.20	1,560.41	4,339.61
8515 · Safety	24.49	512.70	537.19	301.65	838.84
8520 · Personal Protection/Safety Wear	53.91	1,128.38	1,182.29	663.88	1,846.17
8530 · Telephone					
8531 · Main Plant Telephones	0.00	387.78	387.78	227.52	615.30
8532 · Paradise Cove Telephones	348.19	0.00	348.19	0.00	348.19
8533 · Pumps & Lines Telephones	175.07	308.19	483.26	270.91	754.17
Total 8530 · Telephone	523.26	695.97	1,219.23	498.43	1,717.66
8540 · Utilities					
8542 · Main Plant Utilities	0.00	22,923.57	22,923.57	13,449.04	36,372.61
8543 · Paradise Cove Utilities	4,169.39	0.00	4,169.39	0.00	4,169.39
8544 · Pump Station Utilities	536.66	3,997.51	4,534.17	2,729.17	7,263.34
Total 8540 · Utilities	4,706.05	26,921.08	31,627.13	16,178.21	47,805.34
Total 8500 · Other Operating Expenses	5,430.50	31,914.54	37,345.04	19,202.58	56,547.62
Total Expense	18,378.90	179,929.99	198,308.89	103,820.80	302,129.69
Net Ordinary Income	-18,374.97	-88,962.69	-107,337.66	-91,418.80	-198,756.46

Sanitary Distr. No.5 of Marin Co.
Zone Report, through August 2021
Per End of Year (FY20-21) Adjustments

	Paradise C... (Tiburon)	Tiburon - O... (Tiburon)	Total Tiburon	Belvedere	TOTAL
Other Income/Expense					
Other Expense					
9100 · Capital Expenditures					
9200 · Main Plant Equipment Capital					
9217 · SD5 Shop Rplcmnt /Ops Control	-33.32	1,930.13	1,896.81	1,129.83	3,026.64
Total 9200 · Main Plant Equipment Capital	-33.32	1,930.13	1,896.81	1,129.83	3,026.64
9300 · Pumps & Lines Capital					
9306 · PS Pump & Valve Replacements	0.00	2,803.74	2,803.74	7,195.64	9,999.38
9310 · BPS Communication Project	0.00	0.00	0.00	3,105.70	3,105.70
9311 · Cove Rd Force Main Project					
9311.2 · Cove Rd FM - Const, Ph I	0.00	0.00	0.00	-6,051.74	-6,051.74
Total 9311 · Cove Rd Force Main Project	0.00	0.00	0.00	-6,051.74	-6,051.74
9313 · Manholes/Rodholes	0.00	14,729.53	14,729.53	14,729.53	29,459.06
9314 · Portable Emergency Generators	0.00	0.00	0.00	0.00	0.00
Total 9300 · Pumps & Lines Capital	0.00	17,533.27	17,533.27	18,979.13	36,512.40
9400 · Paradise Cove Capital					
9416 · P.C. Equipment	7,251.42	0.00	7,251.42	0.00	7,251.42
Total 9400 · Paradise Cove Capital	7,251.42	0.00	7,251.42	0.00	7,251.42
Total 9100 · Capital Expenditures	7,218.10	19,463.40	26,681.50	20,108.96	46,790.46
Total Other Expense	7,218.10	19,463.40	26,681.50	20,108.96	46,790.46
Net Other Income	-7,218.10	-19,463.40	-26,681.50	-20,108.96	-46,790.46
Net Income	-25,593.07	-108,426.09	-134,019.16	-111,527.76	-245,546.92

Sanitary Distr. No.5 of Marin Co.
Monthly O.T. Report
August 2021

09/07/21

Accrual Basis

Type	Date	Num	Name	Memo	Amount	Balance
Bilsborough, Chad						
Check	08/13/21	2251-4079	Bilsborough, Chad	6.0 Hrs. O.T. @ 1.5x	380.26	380.26
Check	08/13/21	2251-4080	Bilsborough, Chad	8.0 Hrs. O.T. @ 1.5x	507.01	887.27
Check	08/13/21	2251-4080	Bilsborough, Chad	2.0 Hrs. O.T. @ 2.0x	169.00	1,056.27
Total Bilsborough, Chad					1,056.27	1,056.27
Collodi, Peter						
Check	08/13/21	2251-4081	Collodi, Peter	4.0 Hrs. O.T. @ 1.5x	208.56	208.56
Check	08/13/21	2251-4081	Collodi, Peter	1.5 O.T. @ 2.0x	104.28	312.84
Total Collodi, Peter					312.84	312.84
Cottrell, Rulon						
Check	08/31/21	2431-4100	Cottrell, Rulon	4.5 Hrs. O.T. @ 1.5x	401.29	401.29
Check	08/31/21	2431-4100	Cottrell, Rulon	5.0 Hrs. O.T. @ 2.0x	594.51	995.80
Check	08/31/21	2431-4099	Cottrell, Rulon	4.0 Hrs. O.T. @ 1.5x	356.71	1,352.51
Check	08/31/21	2431-4099	Cottrell, Rulon	1.5 Hrs. O.T. @ 2.0x	178.35	1,530.86
Total Cottrell, Rulon					1,530.86	1,530.86
Dohrmann, Robin						
Check	08/13/21	2251-4084	Dohrmann, Robin	12.0 Hrs O.T. @ 1.5x	1,070.12	1,070.12
Check	08/31/21	2431-4102	Dohrmann, Robin	14.0 Hrs. OT @ 1.5x	1,248.47	2,318.59
Check	08/31/21	2431-4102	Dohrmann, Robin	73.25 Hrs. Comp Buy out	4,354.78	6,673.37
Total Dohrmann, Robin					6,673.37	6,673.37
Driscoll, Stephen						
Check	08/13/21	2251-4085	Driscoll, Stephen	2.0 Hrs. O.T. @ 1.5x	178.35	178.35
Check	08/13/21	2251-4085	Driscoll, Stephen	2.0 Hrs. O.T. @ 2.0x	237.80	416.15
Check	08/31/21	2431-4104	Driscoll, Stephen	53.0 Hrs. O.T. @ 1.5x	4,726.35	5,142.50
Check	08/31/21	2431-4104	Driscoll, Stephen	5.5 Hrs. O.T. @ 2.0x	653.96	5,796.46
Total Driscoll, Stephen					5,796.46	5,796.46
La Torre, Daniel P.						
Check	08/13/21	2251-4087	La Torre, Daniel P.	4.0 Hrs. O.T. @ 1.5x	339.72	339.72
Check	08/13/21	2251-4088	La Torre, Daniel P.	5.33 Hrs. O.T. @ 1.5x	453.02	792.74
Check	08/13/21	2251-4088	La Torre, Daniel P.	0.5 Hrs. O.T. @ 2.0x	56.62	849.36
Total La Torre, Daniel P.					849.36	849.36
Rosser, John						
Check	08/13/21	2251-4091	Rosser, John	5.0 Hrs. O.T. @ 1.5x	404.43	404.43
Check	08/13/21	2251-4091	Rosser, John	1.5 Hrs. O.T. @ 2.0x	161.77	566.20
Check	08/13/21	2251-4092	Rosser, John	7.5 Hrs. O.T. @ 1.5x	606.64	1,172.84
Check	08/13/21	2251-4092	Rosser, John	1.5 Hrs. O.T. @ 2.0x	161.77	1,334.61
Check	08/31/21	2431-4108	Rosser, John	17.0 Hrs. O.T. @ 1.5x	1,375.05	2,709.66
Check	08/31/21	2431-4108	Rosser, John	4.0 Hrs. O.T. @ 2.0x	431.39	3,141.05
Total Rosser, John					3,141.05	3,141.05
Triola, Joseph						
Check	08/13/21	2251-4095	Triola, Joseph	5.0 Hrs. O.T. @ 1.5x	404.43	404.43
Check	08/13/21	2251-4095	Triola, Joseph	1.0 Hrs. O.T. @ 2.0x	107.85	512.28
Total Triola, Joseph					512.28	512.28
TOTAL					19,872.49	19,872.49

Sanitary District No. 5 of Marin County



District Management Report August 2021

Contents:

- Transmittal Memo
- Financial/Budgetary
- HR & Personnel
- Business Administration
- Collection System Performance
- Treatment Plant Performance – Paradise Cove
- Treatment Plant Performance – Main Plant
- Pollution Prevention Activities
- Continuing Education & Safety Training
- Capital Improvement Projects

Transmittal Memo

Date: September 16, 2021
To: Board of Directors
From: Tony Rubio, District Manager/ Chief Plant Operator
Subject: Management Report for August 2021

Fiscal Status

Period Covered: July 1, 2021 –August 31, 2021
Percent of Fiscal Year: 16 %
Percent of Budgeted Income to Date: 2.9%
Percent of Budgeted Expenditures to Date: 17.6% (operating only)

Personnel

Separations: None
New Hires: None
Promotions: None
Recruitment Activities: 1- Operator

Regulatory Compliance

MP Collection System WDR Compliance: Full Compliance with all regulations
PC Collection System WDR Compliance: Full Compliance with all regulations
MP NPDES Permit Compliance: Full Compliance with all regulations
PC NPDES Permit Compliance: Full Compliance with all regulations
BAAQMD Compliance: Full Compliance with all regulations
Bio-Solids Compliance: Full Compliance with all regulations
Significant Comments: None

Summary of Operational Highlights are on the following pages.

Significant Events for the Month of July 2021 Include:

Financial/Budgetary/Business Administration

- Closing of fiscal year 2020-2021 underway in preparation for annual financial audit
- Draft RFP prepared for upcoming rate study review- need input from board
- Will need to begin to plan for in person meetings if executive order (N-25-20 & N-29-20) expires on September 30 as currently planned. Legal counsel will provide updates- reached out to audio/video firm for a proposal for a hybrid set-up if we do return to in person.

HR and Personnel

- Recruitment for new Operator in Training/ Operator underway.
- Have begun preliminary work on successor MOU.
- Draft Early Exit incentive program currently under review for possible adoption at board meeting.
- Working on getting a proposal for a staffing survey prior to rate study and in preparation for upcoming MOU negotiations

Continuing Education and Safety Training.

- Fall Protection Safety Training Conducted

Collection System Performance

Main Plant Tiburon/Belvedere:

- Small Machine cleaning work underway- Tiburon Completed -Belvedere Underway
- Submitted No Spill report for the month of July to RWQCB on CIWQS

Paradise Cove:

- Submitted No Spill report for month of July to RWQCB on CIWQS

Treatment Plant Performance

Paradise Cove:

- NPDES Permit CA0037427 Renewed- Order No R2-2021-0017 Adopted September 8, 2021. Effective December 1, 2021- expiring on November 30, 2026

Main Plant:

- Submitted July 2021 SMR and DMR to the RWQCB

- Plant water filtering unit arrived and is being prepared for installation
- Screw Press flow meters were standardized with Krohne magnetic flow meters
- Proposed Amendment of Waste Discharge Requirements for Main Plant and Paradise Cove Plant updating Total Residual Chlorine and Oil and Grease requirements will be going to the regional board at its October 12, 2021 meeting for approval.

If approved:

1. Oil and Grease monitoring for both plants will be eliminated (we currently sample once a quarter for the Main plant and once a year for the Paradise Cove plant.
 2. Total Residual Chlorine Effluent limit of .82mg/l per one hour average for the Main Plant and .57mg/l per one hour average for the Paradise Cove Plant.
- If adopted the District will see a small savings in sampling costs as a result of the Oil and Grease sampling elimination.

Pollution Prevention Activities

- Remote meetings with P2 Group

Capital Improvement Projects

- Line segments selected according to Collection System Master Plan for upcoming sewer rehabilitation project- Tiburon and Belvedere
- Received termite inspection report from Terminix on Belvedere Pump Station #1- reviewed with CIP committee
- Received air quality monitoring report for Main Plant- reviewed with CIP committee.
- Still waiting for proposal for a possible solar project at Tiburon Station #7 near TPD- will be a cash proposal as the one company is not willing to provide a lease option. Met with the City of Belvedere about a possible partnership for a project near the corp. yard. They are in prelim phase for their potential project and will be reviewing our request to see if there is an opportunity for a shared project.

Glossary of Terms

- **B.O.D. (Biochemical Oxygen Demand):** Measurement of the effluent's capacity to consume dissolved oxygen to stabilize all remaining organic matter. The permit limits for our effluent for discharge into San Francisco bay require that we remove 85% influent B.O.D. and meet a weekly average of less than 45mg/l and a monthly average of less than 30 mg/l B.O.D.
- **TSS (Total Suspended Solids):** Measurement of suspended solids in the effluent. Our permit requires that we remove at least 85% of the influent TSS and that the effluent limit is less than 45 mg/l as a weekly average and less than 30 mg/l as a monthly average.
- **Chlorine Residual:** The plant effluent is disinfected with hypochlorite (chlorine "bleach") and then the residual chlorine is neutralized with sodium bisulfite to protect the bay. The effluent chlorine residual limit is 0.0 mg/l which we monitor continuously.
- **pH:** pH is a measurement of acidity with pH 7.0 being neutral and higher pH values being basic and lower pH values being acidic. Our permit effluent pH must stay within the range of 6.0-9.0, which we monitor continuously.
- **Coliform:** Coliform bacteria are the indicator organism for determination of the efficiency of the disinfection process. The lab culture samples of our effluent and the presence of coliform is an indication that pathogenic organisms may be present. This is reported as MPN/100 (number of coliform bacteria in 100 milliliters sample).
- **Flow Through Bioassay:** A 96 hour test in which we test the toxicity of our effluent to tiny fish (sticklebacks) in a flow through tank to determine the survivability under continuous exposure to our effluent. Our permit requires that we maintain a 90th percentile survival of at least 70% and an 11 sample median survival of at least 90%. In layman's terms, this means that out of the last 11 samples only one bioassay may fall below 70% survival and the middle value when all 11 samples are placed in numerical order must be at least 90%.
- **Metals Analysis:** Our permit requires that we analyze our effluent for many different metals on a monthly basis. We have permit limits for some metals. The metals are stated as a daily max and a monthly average limit. The daily max limit is the number we cannot exceed on any sample and the monthly average applies to all samples collected in any month. (although usually we are only required to take one).
- **F.O.G. (Fats, oils and grease):** Quarterly we are required to monitor our effluent for Fats, Oils and Grease.

Glossary of terms continued...

- **Headworks:** The point where all raw wastewater enters the treatment plant. In this building wastewater goes through 3 grinders to grind up all large objects that could possibly damage our influent and sludge pumps further down the treatment process.
- **Primary Sedimentation:** The next treatment process is a physical treatment process where solids that settle or float are removed and sent to the digesters for further processing.
- **Activated Sludge:** Next is the activate sludge process. This process is a biological wastewater treatment process that uses microorganisms to speed up the decomposition of wastes. When activated sludge is added to wastewater, the microorganisms feed and grow on waste particles in the wastewater. As the organisms grow and reproduce, more and more waste is removed, leaving the wastewater partially cleaned. To function efficiently, the mass of organisms needs a steady balance of food and oxygen. These tasks are closely monitored by the operations staff.
- **Secondary Clarification:** Next is secondary clarification, like primary sedimentation/clarification, this also is a physical treatment process where solids that settle or float are removed and sent to the next treatment process. The difference between Secondary Clarification and primary sedimentation is that the solids removed from the secondary clarifiers goes to 2 places. Some goes to waste to the DAFT and some goes back to the activated sludge process for further treatment. (*Microorganisms must be returned to the activated sludge process to keep an equal balance of food and microorganisms*).
- **DAFT (dissolved air floatation thickener):** Next is the DAFT. The dissolved air floatation thickening process uses air bubbles to thicken WAS(waste active sludge) solids removed from the secondary clarifier, by floating solids to the tank surface, where they are removed and sent to the digesters for final processing.
- **Sludge Digestion:** In the anaerobic digestion process, all the organic material removed from the primary sedimentation tanks and DAFT's are digested by anaerobic bacteria. The end products are methane, carbon dioxide, water and neutralized organic matter.
- **Solids Handling:** This is the process where all the neutralized sludge from the digester is finally treated. Sludge from the digester is pumped to the screw press where it is conditioned with a polymer (chemical that reacts with the sludge to remove the water from the sludge and bind the sludge particles together) in order to dewater the sludge and produce a dry cake for final disposal to the Redwood landfill.

Glossary of terms continued...

- **Disinfection:** This is the end point for the wastewater- at this point wastewater flows through the chlorine contact tank. This contact tank allows for enough contact time for chlorine solution to disinfect the wastewater. Sodium bisulfite is introduced at the end of the tank to neutralize any residual chlorine to protect the bay.
- **MLSS (mixed liquor suspended solids):** Suspended solids in the mixed liquor of an aeration tank measured in mg/l
- **MCRT (mean cell resident time):** An expression of the average time that a microorganism will spend in the activated sludge process.
- **SVI (sludge volume index):** This is a calculation used to indicate the settling ability of activated sludge in the secondary clarifier.
- **RAS (return activated sludge):** The purpose of returning activated sludge, is to maintain a sufficient concentration of activated sludge in the aeration tank.
- **WAS (waste activated sludge):** To maintain a stable process, the amount of solids added each day to the activated sludge process are removed as WAS. We track this by our MCRT which averages 3 days
- **TWAS (thickened waste activated sludge):** The WAS is thickened in the DAFT and the thickened sludge is then pumped to the digester.
- **MPN (most probable number):** Concentrations of total coliform bacteria are reported as the most probable number. The MPN is not the absolute count of the bacteria but a statistical estimate of their concentration.
- **Bio-solids:** Anaerobic digested sludge is pumped to a screw press where excess water is removed to reduce the volume (and weight) thus producing an end result called bio-solids.
- **Polymer:** Organic polymers are added to digested sludge to bring out the formation of larger particles by bridging to improve processing.

Wastewater Acronyms

ACWA	Assoc of California Water Agencies	APWA	American Public Works Association
AWWA	American Water Works Association	BAAQMD	Bay Area Air Quality Management District
BACWA	Bay Area Clean Water Agencies	BAPPG:	Bay Area Pollution Prevention Group
CASA	California Association of Sanitation Agencies	CSDA	California Special Districts Association
CSRMA:	California Sanitation Risk Management Authority	CAAQS	California Ambient Air Quality Standard
CalARP	California Accidental Release Prevention Program	CARB	California Air Resources Board
CDO	Cease and Desist Order	CECs	Constituents of Emerging Concern
CEQA	California Environmental Quality Act	CIWQS	California Integrated Water Quality System
CFR	Code of Federal Regulations	CMOM	Capacity, Management, Operation and Maintenance
CIWMB	California Integrated Waste Management Board	CPUC	California Public Utilities Commission
CSO	Combined Sewer Overflow	CTR	California Toxics Rule
CWA	Clean Water Act	CWAP	Clean Water Action Plan
CWARA	Clean Water Authority Restoration Act	CWEA	California Water Environment Association
DHS	Dept of Health Services	DTSC	Dept of Toxic Substances Control
EBEP	Enclosed Bays and Estuaries Plan	EDW	Effluent Dominated Water body
EIS/EIR	Environmental Impact Statement/Report	EPA	Environmental Protection Agency
ERAF	Educational Reserve Augmentation Fund	ESMP	Electronic Self-Monitoring Report
FOG	Fats, Oils and Grease	GASB	Government Accounting Standards Board
ISWP	Inland Surface Waters Plan	JPA	Joint Powers Authority
LAFCO	Local Agency Formation Commission	LOCC	League of California Cities
MACT	Maximum Achievable Control Technology (air controls)	MCL	Maximum Contaminant Level
MMP	Mandatory Minimum Penalty	MOU	Memorandum of Understanding
MUN	Municipal Drinking Water Use	NACWA	National Association of Clean Water Agencies
NGOs	Non Governmental Organizations	NOX	Nitrogen Oxides
NPDES	Nat'l Pollutant Discharge Elimination System	NRDC	Natural Resources Defense Council
NTR	National Toxics Rule	OWP:	Office of Water Programs
OSHA:	Occupational Safety and Health Administration	PCBs	Poly Chlorinated Biphenyls
POTWs	Publicly Owned Treatment Works	PPCPs	Pharmaceutical and personal Care Products
QA/QC	Quality Assurance / Quality Control	Region	IX Western Region of EPA (CA, AZ, NV & HI)
RFP	Request For Proposals	RMP	Risk Management Program
RFQ	Request For Qualifications	RWQCB	Regional Water Quality Control Board
SEP	Supplementary Environmental Projects	SIP	State Implementation Policy (CTR/NTR criteria)
SFEI:	San Francisco Estuary Institute	SRF	State Revolving Fund
SSO	Sanitary Sewer Overflow	SSMP	Sewer System Management Plan
SWRCB	State Water Resources Control Board	TMDL	Total Maximum Daily Load
WDR	Waste Discharge Requirements	WEF	Water Environment Federation
WERF	Water Environment Research Foundation	WET	Whole Effluent Toxicity or Waste Extraction Test
WMI	Watershed Management Initiative	WRFP	Water Recycling Funding Program
WRDA	Water Resource Development Act	WWTP	Wastewater Treatment Plant
WQBEL	Water Quality Based Effluent Limitation Agency	WWWIFA	Water and Wastewater Infrastructure Financing

BOARD OF DIRECTORS
RICHARD SNYDER, PRESIDENT
JOHN CARAPIET, OMAR ARIAS-MONTEZ
TOD MOODY, CATHARINE BENEDIKTSSON

SANITARY DISTRICT NO. 5 OF MARIN COUNTY
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P.O. BOX 227
TIBURON, CALIFORNIA 94920
TELEPHONE (415) 435-1501
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ANTONIO RUBIO
DISTRICT MANAGER
ROBIN DOHRMANN
OFFICE MANAGER

Request for Proposal

Comprehensive Sewer Rate Study

A. Introduction:

Sanitary District No.5 of Marin County is requesting proposal from qualified firms to prepare a comprehensive wastewater (sewer) rate study. The purpose of the study is to prepare a cost of service study, validate the appropriate rate structure, and recommend rates for the District that generate adequate revenue to cover

- Current and future operations and maintenance costs based on established and anticipated regulations and industry best management practices.
- Rate stabilization
- Capital repair and replacement costs based on age and condition of infrastructure and systems
- Major Capital Improvement project costs
- An adequate reserve fund
- Required debt coverage and
- Necessary studies to maintain an efficient and resilient utility.

The study will analyze a 20 year period, with a 5 year Proposition 218 rate adjustment schedule implementation.

B. General Information

Sanitary District No.5 of Marin County (District) operates the Main Treatment Plant and its associated collection system currently discharging pursuant to Order No R2-2018-0038 under NPDES Permit No. CA0037753. The Main Plant serves a current population of 8,400. The District owns and operates the Main Treatment Plant, which provides secondary treatment of domestic and commercial wastewater collected from the Town of Tiburon and the City of Belvedere and surrounding, unincorporated areas. The Main Plants collection system consists of 28.5 miles of gravity sewer line, 2.4 miles of force main and 22 pump stations within its service area. The treatment plant has an average dry weather design treatment capacity of .98 MGD and can treat up to 2.3 MGD through Secondary Treatment.

The District also operates the smaller Paradise Cove Treatment Plant and its associated collection system currently discharging pursuant to Order No. R2-2016-0027 under NPDES Permit No. CA0037427. The Paradise Cove collection system consists of 7,197lf of gravity sewer line, 9,102lf of force main and 2 pump stations within its service area. The Paradise Cove treatment plant has an average dry weather treatment capacity of .040 mgd and can treat up to .100mgd during wet weather. Settled Solids from this treatment plant are trucked to the Main wastewater treatment plant for final treatment.

C. Scope of Services

The following Scope of Services, as well as the entire RFP, will become part of the Agreement. The Scope of Services includes, but is not limited to, the tasks below, and any other tasks necessary to prepare a comprehensive Sewer Rate Study. The completeness of the consultant's proposed scope of services will be a consideration in selecting the firm to prepare the Districts rate study. The proposer is encouraged to adjust the list of tasks below as necessary to provide the District with a complete rate study.

1. Review requirements, bond covenants, and other contractual requirements and operations of the sewer system.
2. Provide a comparison of current sewer system costs (operations, capital improvements, bonded debt) against appropriate industry benchmarks, and comparable municipal entities in the SF Bay Area.
3. Evaluate the existing sewer rate structures for conformance with existing statutory regulations and make recommendations for any changes that are necessary to achieve compliance that is equitable amongst all categories.
4. Recommend a baseline rate structure required to fund sewer system improvements and maintenance and consider annual inflationary, indexed adjustments to rates needed to maintain utility.
7. Any recommendations made must consider or make provision for the following factors:
 - a. Current and future cost of providing sewer services in conformance with established or anticipated changes to standards and regulations.
 - b. Age and condition of sewer systems and the need to fund long-term capital replacements.
 - c. Changes in various systems as proposed in the 2021 Wastewater Collections System Master Plan.
8. Develop an understanding of the 2020 Wastewater Collections System Master Plan and the 5-Year Capital Improvement Plan (CIP) impacts of those plans on future rates.
9. Develop an understanding of the costs and both the tangible and intangible benefits realized by operating the existing sewer systems and quantify the expected changes that will occur with implementation of the Districts 5-year CIP plan.
10. Develop an understanding of the existing rate structure and the assumptions underlying the cost distribution to the various rate categories.
11. Develop an understanding of the Districts reserve policy and other financial policies, and ensure any recommendations for changes in rates meet the cash flow objectives of those policies.
12. Comment as to the extent to which the projected revenues meet projected operating and capital needs satisfy bond covenants and required and/or recommended reserve levels.
13. Assess existing customer service fee structure and identify other potential areas for service and system charges (plan reviews, sewer service shut-offs, etc.) and recommend

changes, if appropriate. Assessment is to note any resulting increase in liability the District may incur as a result of assessing the fees.

14. Propose a methodology for annual inflationary adjustments in compliance with Proposition 218.

15. Demonstrate that costs from any proposed modifications are equitably distributed in proportion to the benefit received by the various classifications.

16. Provide justifications for any special classes of customers under the recommended rate structure.

17. Demonstrate that any alternative rate structure is easy to understand and administer and can be accommodated within the existing District billing system.

18. Demonstrate that any proposed rate structure is in compliance with the rate covenants of the Districts utility bonds.

19. Demonstrate that any proposed modifications to the rates and fees are in conformance with the Districts other policy documents.

20. Modify the existing rate model or deliver a new spreadsheet model that reflects any changes to the rate structure accepted by the Board of Directors and provide training to staff in running "scenarios" that will allow staff to fully understand how the model operates and how the results of various future recommendations that may be proposed can be illustrated.

21. Provide a model that has a user friendly dashboard with interactive graphics that automatically produces a suite of reports and graphs as inputs are changed. The model will be the property of the District and may be used by the District for any purpose.

22. Conduct analyses as required to address the scope of services.

23. Conduct a detailed review of the existing sewer rates and status of the sewer funds, and develop a general familiarity with the Districts billing system.

24. Meet or confer weekly with staff by zoom or similar platform.

25. Attend up to two (2) meetings with the Board of Directors at a Regular Board Meeting to present the study result if needed and obtain their input.

26. Coordinate up to two (2) community meetings to discuss proposed sewer rates. Consultant shall be prepared to present the study to the residents in a public format. Due to unavoidable, the community meetings may need to be conducted via web and/or telecom based.

27. Attend up to two (2) public hearings on the proposed sewer rates.

28. Supply a time schedule for developing the draft reports, draft final reports and final reports.

29. Preliminary Report a. Provide preliminary financial model and proposed 5-Year Rate Structure with three (3) alternative options on the sewer rate structures.

30. Report: District shall confer with Consultant on content of the Final Report to meet Prop 2018 requirements. Consultant shall prepare a Draft and a Final Report which shall include but not limited to the following:

a. Executive Summary- A narrative to summarize the scope of the study, consultant's findings and recommendations. The narrative should also include proposed sewer rates for the next five years starting with July 1, 2022;

b. Introduction - A brief description of the organizational structure, population, service area, sewer system, including facilities, capacity, etc.;

c. Methodology Used- A description of the methodology used for analyzing the sewer rates and how the study complies with Proposition 218 and other applicable laws;

d. Overview of financial operations over the last 5 years and Current Financial Condition, including factors attributable to any rate covenant shortfall and corrective recommendations;

e. A description of the capital improvement program, including State and Federal regulatory requirements, a 5 year summary of proposed capital expenditures, and a statement regarding the sufficiency of improvements to meet operating needs and regulatory requirements and reasonableness of the cost estimates.

f. Ten Year Financial Plan- Comprehensive revenue and expense projection for the next 10 years and the basis for the growth projection.

g. Proposed new rate structure that provides adequate revenues generated from rates, that is defensible and equitable across customer classes, and complies with Proposition 218 rate setting. The report shall describe the methodology for the determination of cost responsibility, which may be identified by reference to appropriate industry rate making principles, including guidance associated with designing and developing water rates and charges issued by industry principles recognized by public agencies providing public utility service.

h. Proposed adjustment schedule using an inflationary formula that is clearly defined and does not exceed the cost of providing the service.

i. Proposed rate schedule and rate projection that forecasts rates to 10 years and proposed typical bill if proposed rates are adopted.

j. Provide comparison of proposed and current rates of other communities with similar systems.

k. Assessment of the current rate structure's suitability for sustaining cost recovery based on customer demands.

- l. Discussion on the revenue sources and requirements as well as projections.
- m. Describe customer classes, describe historical and projected usage.
- n. Describe allocation of revenue requirements to various customer classifications, by system function, unity cost of service and cost components.
- o. Discuss adequacy of current rates and need for rate increase.
- p. Discuss proposed rates.
- q. Discuss the equity of recommended sewer rates for all types of property ownership.
- r. The study shall include an assessment of the revenue stream generated by the recommended rates and their ability to continue to fully fund sewer system costs and statutory regulations and standards.
- s. Assess existing customer service fee structure and identify other potential areas for service and system charges (plan reviews, sewer service shutoffs, etc.) and recommend changes, if appropriate. Assessment is to note any resulting increase in liability the Districts may incur as a result of assessing the fees.
- t. Provide an easy-to-use electronic rate model for the District to use in future rate setting.
- u. Submit electronic copy of the Draft and Final Report.
- v. If needed, provide hard copy of the Draft Final Report prior to adoption.
- w. Provide word as well as PDF format of the Draft and Final Report.

31. The consultant will provide guidance and advice to District staff to assure compliance with the Proposition 218 process as it applies to water and wastewater services. Provide the District with a written notice to the record owner on the proposed rate adjustment. Provide the District with a public outreach material that can be released in the Districts newsletter. It is the intent of the District to complete and adopt, if at all, the Water and Sewer rates together at the conclusion of the Proposition 218 process at a public hearing.

32. Provide an easy-to-use electronic rate model for the District to use in future rate setting.

D. Schedule

<u>January 3, 2022</u>	<u>Issue Request for Proposals</u>
<u>January 21, 2022</u>	<u>Deadline for receipt of RFP's</u>
<u>February 8, 2022</u>	<u>District completes RFP review.</u>

February 17, 2022 District Board of Directors authorization to hire consulting firm to perform Comprehensive Sewer Rate Study

April 12, 2022 Consultant presents proposed recommendations to Finance committee.

April 19, 2022 Consultant submits and presents draft final report to the District Board for review and comment.

April 21, 2022 Consultant submits and presents final report to the District Board for acceptance and approval

DRAFT

E. Proposal Contents

All proposals shall include the following information:

1. Cover Letter- A signature by a principal or officer having the authority to negotiate and contractually bind and extend the terms of the written proposals is required.
2. Executive Summary – In a brief narrative, provide a description of your consulting firm. The contents of this narrative are to demonstrate to the District that the Consultant understands the Scope of Services. Include information on the following. Also include responses to the following:
 - a. Statement affirming the firm’s ability and willingness to execute the Districts Professional Services Agreement (Attachment A). Identify any conditions or terms of the Agreement with which the firm does not agree, including terms which the firm wishes to negotiate. Provide any proposed substitute language.
 - b. Legal Issues – Provide details of any past or pending litigation, or claims filed, against your firm, principals of the firm, or each of your key consultants, related to services performed for public agencies, or in actions that may affect its performance under a contract with the District.
 - c. Disclosures - Provide information on whether your firm or any principal of the firm has been, or currently is, the subject of any investigation by the County, State, and/or Federal agencies within the past five years. If so, identify the agency, contact person, the nature of the investigation, and any determination over the outcome of said investigation. Failure to provide the information may result in disqualification.
3. Approach to the Project: Describe your approach to this project and any special ideas, techniques or suggestions that you think might make the project proceed smoothly.
4. Experience: Describe the experience of the firm, and of the individuals assigned, with related projects of a similar nature. The team’s experience with creating various rate structures, including potable, non-potable, recycled and sewer rate structures will be considered during the review process.
5. Qualifications: Describe your staff’s unique qualifications and training for this type of work. If using sub consultants, provide the company profile and define the responsibilities and services to be provided by the sub consultants.
6. References: References should place an emphasis on past projects in which the personnel to be used by proposer for this project were deployed. The references should include the name, title and contact information of the public agency officer or employee responsible for overseeing the proposer’s work. a. List at least three (3) references, including name, address, and contact person, email and phone number.
7. Project Schedule: Describe your plan/schedule for completing the work. It is the Districts objective to hold a Public Hearing and count protest votes by June 23, 2022 on the proposed sewer rates. If meeting this public hearing date is not achievable, explain why you believe it cannot be met with a proposed alternative public hearing date.

8. Fee Schedule/Cost Proposal: Provide a not to exceed and all-inclusive Cost Proposal for the study. a. The cost proposal shall include an estimate of the number of hours and clearly identify an hourly rate schedule for the proposed staff. b. The proposal shall also include all costs and supplemental expenses related to photocopying, postage, travel, etc. (i.e. Reimbursement expenses). To the extent that a proposal contemplates the use of sub consultants to perform any one or more of the above described tasks on the proposer's behalf, the proposal shall include a List of Sub consultants identifying all sub consultants and state the fee for each sub consultant in the Fee Schedule.

9. Copy of A Rate Study – Include a copy of a rate study performed by the Consultant that most closely fit the Study Objectives, Study Requirements, Study Elements, and Services to be provided by the Consultant.

F. Selection Process

- Proposals are to be provided as an original and 5 (five) copies and one electronic PDF copy.
- Proposals will not be returned
- Proposals must be received by 1:00 pm on Friday June 5, 2020 Address proposals to :
Tony Rubio
District Manager
Sanitary District No.5 of Marin County
PO Box 227
Tiburon CA 94920
- Questions regarding this RFP shall be directed to the District Manager at 415-435-1501.
- Proposals will be reviewed by the District Manager and the Finance Committee which will prepare a list of firms ranked in order of preference. At least 2 (two) firms will be listed. This list will be submitted to the Board of Directors for their final approval.
- In the event that the committee is unable to make a clear selection, the District reserves the right to interview preferred firms for that expressed purpose.
- Should the District be unable to reach a satisfactory agreement with the Board of Directors designated firm, discussion will be held with the remaining firms on the list, in order of preference.
- The District reserves the right to reject any and all proposals and to terminate the selection process at any time, for any reason, without liability to the District.

G. Insurance Requirements

Insert from PSA

**VOLUNTARY EARLY EXIT/ SEPARATION AGREEMENT AND GENERAL
RELEASE**

This Voluntary Early Exit/ Separation Agreement and General Release (“Agreement”) is entered into between _____, an individual, (“Employee”) and the Marin Sanitary District No. 5, a public entity, (“DISTRICT”). Employee and DISTRICT are collectively referred to as the “PARTIES.”

RECITALS

A. WHEREAS, a variety of factors have created the need for the DISTRICT to evaluate staffing numbers including, but not limited to: a lack of funds; the lack of work; the interests of economy and efficiency; reorganization for financial reasons; and a loss of revenue due to Covid 19;

B WHEREAS, the Board of Directors met on _____, 2021, and approved a Voluntary Early Incentive Program (“PROGRAM”) in order to minimize or avoid the need for layoffs;

C. WHEREAS, the Program provides a cash-based incentive to eligible Employees who wish to voluntarily resign from DISTRICT employment on or before _____, 2021.

D WHEREAS, the DISTRICT sent all full-time Employees a memorandum from the DISTRICT Manager, dated _____, which notified them of the Board of Director’s action to approve the Program which offers all full-time Employees who are employed in the following classifications: Operations, Maintenance a lump sum payment of \$50,000 in exchange for resignation by no later than _____, 2021.

E. Employees interested in participating in the Program were invited to notify the DISTRICT’s Human Resources Department by no later than _____, 2021.

F. WHEREAS, Employee voluntarily desires to resign in order to receive that incentive and the parties wish to resolve any and all bona fide disputes between them;

G. WHEREAS, Employee has been continuously employed with the DISTRICT since July 1, 2016, and possesses 5 years of full-time employment with the DISTRICT (DISTRICT Employee or Employment).

H. On or around [REDACTED], 2021, Employee timely notified the DISTRICT of Employee's interest in the Program.

I. The DISTRICT has determined that Employee is eligible for the Program.

NOW, THEREFORE, in consideration of the covenants and agreements contained in this AGREEMENT, the PARTIES agree as follows:

TERMS AND SETTLEMENT

1. CONSIDERATION

In consideration for the mutual promises contained in this AGREEMENT, the PARTIES agree as follows:

1.1 Payment. In exchange for the promises and releases set forth herein, the DISTRICT shall provide Employee with a lump sum payment of **fifty thousand dollars and no cents (\$50,000.00)**. DISTRICT Employment ("INCENTIVE PAYMENT"). The PARTIES agree that the INCENTIVE PAYMENT shall be subject to all state and federal withholding requirements. The shall be remitted to EMPLOYEE **by check or by direct deposit within fifteen (15) business days** following the EMPLOYEE's SEPARATION DATE set forth in Paragraph 1.2.

1.2 Voluntary Resignation. EMPLOYEE agrees that EMPLOYEE's signature on this AGREEMENT shall be deemed a voluntary and irrevocable resignation of EMPLOYEE's employment with the DISTRICT, effective at 12:01 a.m. on the EFFECTIVE DATE set forth in Paragraph 2.4.g ("RESIGNATION"). EMPLOYEE and DISTRICT mutually agree that EMPLOYEE's last day of employment pursuant to this RESIGNATION shall be [REDACTED], 2021, and that EMPLOYEE shall be effectively separated from DISTRICT EMPLOYMENT on [REDACTED], 2021 ("SEPARATION DATE"). EMPLOYEE further understands and agrees that the RESIGNATION shall be accepted by the DISTRICT and be binding and irrevocable as of the EFFECTIVE DATE, and that the DISTRICT is acting in reliance upon the RESIGNATION, and that the DISTRICT shall be under no obligation or duty to consider, accept, or in any way allow any attempt by EMPLOYEE to rescind the RESIGNATION.

1.3 Return of Property. No later than close of business on the SEPARATION DATE, EMPLOYEE shall return all of the DISTRICT'S property in EMPLOYEE'S possession including but not limited to keys, office equipment, identification cards, documents, materials, and all other DISTRICT property in whatever form.

1.4 Unemployment Insurance. EMPLOYEE agrees and understands that the RESIGNATION made pursuant to this AGREEMENT is entirely voluntary and thereby renders EMPLOYEE ineligible for Unemployment Insurance benefits. Nothing in this AGREEMENT shall be construed to prohibit the DISTRICT from responding to any request for factual information it receives from the Employment Development Department in the processing or review of any application for Unemployment Insurance.

1.5 Final Settlement Pay. EMPLOYEE agrees and understands that the INCENTIVE PAYMENT shall be considered “final settlement pay” as that term is defined in Government Code section 20636, and shall be excluded from the DISTRICT’s payroll reporting to CalPERS as either payrate or compensation earnable for the EMPLOYEE.

1.6 Full Consideration. EMPLOYEE acknowledges and agrees that the DISTRICT would not provide the INCENTIVE PAYMENT pursuant to the terms of this AGREEMENT but for the execution of this AGREEMENT and the fulfillment of the promises contained herein. EMPLOYEE acknowledges and agrees that INCENTIVE PAYMENT is voluntarily provided by the DISTRICT in exchange for the promises and releases set forth herein, and is not being provided pursuant to any legal, contractual (other than this AGREEMENT), or other obligation of the DISTRICT. EMPLOYEE acknowledges and agrees that the INCENTIVE PAYMENT shall constitute the entire amount of monetary consideration provided to EMPLOYEE under this AGREEMENT. EMPLOYEE further understands and agrees that EMPLOYEE has received all unpaid wages due to EMPLOYEE in the ordinary course of his employment.

1.7 CalPERS Service Retirement. [*IF APPLICABLE] The DISTRICT understands that EMPLOYEE may be eligible to pursue service retirement through the California Public Employee’s Retirement System (“CalPERS”). Should EMPLOYEE elect to retire, the DISTRICT agrees to fully cooperate with CalPERS in processing EMPLOYEE’S voluntary service retirement. EMPLOYEE acknowledges that the DISTRICT cannot direct CalPERS and has no control over the decisions of CalPERS with regard to EMPLOYEE’S retirement or any component of EMPLOYEE’S retirement. Consequently, the DISTRICT makes no representations or guarantees about any aspects of EMPLOYEE’S potential retirement. Additionally, EMPLOYEE understands that it is EMPLOYEE’S sole responsibility to pursue a retirement through CalPERS. If EMPLOYEE elects not to file for retirement with CalPERS, such election will have no impact on the RESIGNATION or the other terms of this AGREEMENT.

2. WAIVER AND RELEASE OF CLAIMS

2.1 General Release: EMPLOYEE agrees that this release of claims includes all claims or disputes of every kind or nature arising from or related to EMPLOYEE’S EMPLOYMENT with the DISTRICT and the termination of EMPLOYEE’s employment with the DISTRICT that may exist as of the EFFECTIVE DATE set forth in Paragraph 2.4.g, including but not limited to, common law, statutory or tort claims for breach of implied or express contract or covenant, promissory estoppel, personal injury, negligence, wrongful termination, violation of public policy, defamation, invasion of privacy, fraud, misrepresentation, emotional distress, attorney’s fees, failure to accommodate, failure to engage in the interactive process, failure to provide insurance or leave benefits; claims related to or arising from any pension or retirement benefits; claims of harassment, retaliation or discrimination based on any legally protected status or criteria; claims under California Labor and Government Codes; claims based upon the California Constitution; claims based on any federal, state or other governmental statute, regulation or ordinance, including, without limitation: the California Family Rights Act, the Family and Medical Leave Act, the California Fair Employment & Housing Act, Title VII of the Civil Rights Act, the Americans with Disabilities Act, the Labor Relations Management Act, the Meyers-Milias-Brown Act, the Employee Retirement Income

Security Act, and any and all other potential claims arising from the EMPLOYEE'S EMPLOYMENT with the DISTRICT which may lawfully be waived pursuant to this AGREEMENT ("RELEASED CLAIMS").

2.2 Effect. EMPLOYEE expressly acknowledges and agrees that the RELEASED CLAIMS against the DISTRICT, each of its departments, as well as each of its past, present or future officers, directors, Employees, officials, agents, representatives, attorneys, assignees, successors, benefit plans, trusts, and fiduciaries are forever barred by this AGREEMENT.

2.3 Release of Unknown Claims. EMPLOYEE agrees and intends that the foregoing release shall be construed broadly and apply to all claims, charges, actions, suits, demands, obligations, damages, injuries, liabilities, losses, and causes of action of every character, nature, kind or description, known or unknown, and suspected or unsuspected that EMPLOYEE may have against the DISTRICT, its officers, agents, Employees, former Employees, or representatives that may exist as of the EFFECTIVE DATE set forth in Paragraph 2.4.g.

EMPLOYEE expressly acknowledges that EMPLOYEE is aware of the existence of California Civil Code § 1542 and its meaning and effect. EMPLOYEE expressly acknowledges that EMPLOYEE has read and understands the following provision of that section which provides:

"A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS THAT THE CREDITOR OR RELEASING PARTY DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE AND THAT, IF KNOWN BY HIM OR HER, WOULD HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR OR RELEASED PARTY."

EMPLOYEE expressly waives and releases any right to benefits that EMPLOYEE may have under California Civil Code § 1542 to the fullest extent EMPLOYEE may do so lawfully. EMPLOYEE further acknowledges that EMPLOYEE may later discover facts different from or in addition to those facts now known to EMPLOYEE or believed by EMPLOYEE to be true with respect to any or all of the matters covered by this AGREEMENT, and that this AGREEMENT nevertheless shall remain in full and complete force and effect.

2.4 Waiver Of Rights Or Claims Arising Under The Age Discrimination In Employment Act ("ADEA") and the Older Workers Benefit Protection Act ("OWBPA").

The Age Discrimination in Employment Act of 1967 ("ADEA") makes it illegal for an employer to discharge any individual or otherwise discriminate with respect to the nature and privileges of an individual's employment on the basis that the individual is age forty (40) or older. The Older Workers Benefit Protection Act ("OWBPA", 29 U.S.C. §§ 626, *et. seq.*, Pub L 101-433, 104 Stat. 978 (1990)) further augments the ADEA and prohibits the waiver of any right or claim under the ADEA unless the waiver is knowing and voluntary. By entering into this AGREEMENT, EMPLOYEE acknowledges that EMPLOYEE is knowingly and voluntarily, for just compensation in addition to anything of value to which EMPLOYEE was already entitled, waiving and releasing any rights

EMPLOYEE may have under the ADEA and/or OWBPA. EMPLOYEE further acknowledges that EMPLOYEE has been advised and understands, pursuant to the provisions of the ADEA and OWBPA, that:

- (a) The waivers and releases in this AGREEMENT are written in a manner understood by EMPLOYEE;
- (b) EMPLOYEE is aware of and has been advised of EMPLOYEE's rights under the ADEA and OWBPA, and of the legal significance of his waiver of any possible claims EMPLOYEE currently may have under the ADEA, OWBPA, or similar age discrimination laws;
- (c) This AGREEMENT was presented to EMPLOYEE on [REDACTED], 2021. EMPLOYEE has until [REDACTED] [*at least 45 days out], 2021 to review and consider the AGREEMENT ("REVIEW PERIOD"). EMPLOYEE is entitled to this REVIEW PERIOD as reasonable time of at least forty-five (45) days within which to review and consider this AGREEMENT, and the waiver and release of any rights EMPLOYEE may have under the ADEA, the OWBPA, or similar age discrimination laws, but EMPLOYEE may, in the exercise of EMPLOYEE'S own discretion, sign or reject this AGREEMENT at any time before the expiration of the REVIEW PERIOD;
- (d) The waivers and releases set forth in this AGREEMENT shall not apply to any rights or claims that may arise under the ADEA and/or OWBPA after the EFFECTIVE DATE of this AGREEMENT;
- (e) EMPLOYEE has been advised by this writing that EMPLOYEE should consult with an attorney prior to executing this AGREEMENT;
- (f) EMPLOYEE understands EMPLOYEE has the right to discuss this waiver and release with legal counsel of choice and EMPLOYEE does not need any additional time within which to review and consider this AGREEMENT or engage in further discussions with said legal counsel;
- (g) REVOCATION PERIOD EMPLOYEE has seven (7) days following the parties' full and complete execution of this AGREEMENT to revoke the AGREEMENT (the date of expiration of this seven-day period shall be referred to as the "EFFECTIVE DATE"). The revocation must be in writing and received by the DISTRICT'S Human Resources Manager [*applicable contact information; could also be General Manager This could be by email] within the revocation period; and
- (h) EFFECTIVE DATE This AGREEMENT shall not be effective until the EFFECTIVE DATE, provided the EMPLOYEE has not revoked acceptance of the AGREEMENT before that date ("EFFECTIVE DATE").

2.5 Withdrawal and Modification

- (a) If EMPLOYEE does not provide the DISTRICT with a properly executed copy of this AGREEMENT by [REDACTED] [*insert end date of 45-day Review Period], the offer and terms and conditions contained in this AGREEMENT will be withdrawn.

(b) The REVIEW PERIOD in paragraph 2.4.c does not preclude EMPLOYEE from executing this AGREEMENT before [insert end date of 45-day Review Period]. If the EMPLOYEE executes this AGREEMENT prior to the expiration of the REVIEW PERIOD, such execution is knowing and voluntary. The DISTRICT will not provide more favorable terms nor will the DISTRICT incentivize the EMPLOYEE to execute this AGREEMENT prior to the REVIEW PERIOD's expiration.

(c) The PARTIES agree that modifications to this AGREEMENT after [insert date agreement is presented to Employee], whether material or immaterial, will not restart the REVIEW PERIOD.

2.6 Waiver of Additional Claims. EMPLOYEE hereby waives any provisions of state or federal law that might require a more detailed specification of the claims being released pursuant to the provisions of Paragraphs 2.1 through 2.4, above.

2.7 No Actions. EMPLOYEE affirms that EMPLOYEE currently has no action, charge, or administrative claim pending before any court of law, governmental body, or administrative agency, either on the federal or state level. To the extent EMPLOYEE has filed any grievance, action, claim, or dispute related to his employment with EMPLOYER prior to the execution of this AGREEMENT, EMPLOYEE agrees to withdraw such action with prejudice. EMPLOYEE further agrees that EMPLOYEE will not at any time in the future pursue any employment personnel appeal or internal grievance or file any claim for individual relief with any governmental agency or any court arising out of or in any way related to EMPLOYEE'S employment. Nothing in this Agreement shall limit EMPLOYEE'S right to file a charge or complaint with any state or federal agency or to participate or cooperate in such a matter. However, by executing this AGREEMENT, EMPLOYEE hereby agrees to, and does, waive EMPLOYEE'S right to recover monetary damages in any charge or lawsuit filed by EMPLOYEE or anyone else on EMPLOYEE'S behalf.

3. INFORMED CONSENT

EMPLOYEE expressly acknowledges and represents that EMPLOYEE has read this AGREEMENT and fully understands the meaning and effect of each and every provision of this AGREEMENT, in particular the meaning and effect of the release of all claims and waiver of rights under California Civil Code section 1542, as set forth in Paragraph 2.3.

4. REPRESENTATIONS AND WARRANTIES

Each of the PARTIES to this AGREEMENT represents and warrants to, and agrees with, each other party as follows:

4.1 Advice of Counsel: Each party is aware of its right to receive, or has received, independent legal advice from its attorney(s) with respect to the advisability of making the settlement provided for herein, with respect to the advisability of executing this AGREEMENT, and with respect to the meaning of California Civil Code § 1542.

4.2 Voluntary Agreement: The PARTIES certify, warrant and represent that they were not, as of the date of this AGREEMENT, or as a consequence of this

AGREEMENT, under any physical duress, or other threat of harm or injury, and that they have entered into this AGREEMENT freely and voluntarily.

4.3 Joint Negotiation: The PARTIES acknowledge that this AGREEMENT was jointly negotiated and reviewed and approved by each of them. The AGREEMENT shall not be construed by any court of law or equity against any party solely by virtue of any party having drafted this AGREEMENT.

4.4 No Fraud in Inducement: No party (nor any officer, agent, Employee, representative, or attorney of or for any party) has made any statement or representation or failed to make any statement or representation to any other party regarding any fact relied upon in entering into this AGREEMENT, and neither party relies upon any statement, representation, omission, or promise of any other party (or of any officer, agent, Employee, representative, or attorney of or for any party) in executing this AGREEMENT, except as expressly stated in this AGREEMENT.

4.5 Independent Investigation: Each party to this AGREEMENT has made such investigation of the facts pertaining to this AGREEMENT and all the matters pertaining thereto, as it deems necessary.

4.6. Comprehension and Authority: Each party or responsible officer thereof has read this AGREEMENT and understands the contents hereof. Any Employee or representative of the DISTRICT executing this AGREEMENT on behalf of the DISTRICT is empowered to do so and hereby bind the DISTRICT.

4.7 Mistake Waived: In entering into this AGREEMENT and the settlement provided for herein, each party assumes the risk of any misrepresentation, concealment, or mistake. If any party should subsequently discover that any fact relied upon by it in entering into this AGREEMENT was untrue, or that any fact was concealed from it, or that its understanding of the facts or of the law was incorrect, such party shall not be entitled to any relief in connection therewith, including without limitation on the generality of the foregoing any alleged right or claim to set aside or rescind this AGREEMENT. This AGREEMENT is intended to be and is final and binding between the parties, regardless of any claims of misrepresentation, promise made without the intent to perform, concealment of fact, mistake of fact or law, or any other circumstance whatsoever.

4.8 Later Discovery: Each party is aware that it may hereafter discover claims or facts in addition to or different from those it now knows or believes to be true with respect to the matters related herein. Nevertheless, it is the intention of the PARTIES to fully, finally, and forever settle and release all such matters, and all claims relative thereto, which do now exist, may exist, or have previously existed between EMPLOYEE and the DISTRICT as of the EFFECTIVE DATE set forth in Paragraph 2.4.g. In furtherance of such intention, the releases given by EMPLOYEE here shall be and remain in effect as full and complete releases of all such matters, notwithstanding the discovery or existence of any additional or different claims or facts relative thereto.

4.9 No Compensation or Benefits Due: EMPLOYEE expressly acknowledges and represents that the DISTRICT owes EMPLOYEE no wages, bonuses, accrued leave, severance pay, retirement or pension benefits or enhancements, or any other

compensation, benefits, payments, or form of remuneration of any kind or nature, other than that paid to EMPLOYEE upon termination and specifically provided for in this AGREEMENT.

4.10 Ownership of Claims: EMPLOYEE represents and warrants as a material term of this AGREEMENT that EMPLOYEE has not assigned, transferred, released, or granted to any person and/or entity any of the RELEASED CLAIMS. In executing this AGREEMENT, EMPLOYEE further warrants and represents that none of the RELEASED CLAIMS will in the future be assigned, conveyed, or transferred in any fashion to any other person and/or entity.

4.11 Future Cooperation: The PARTIES will execute all such further and additional documents as shall be reasonable, convenient, necessary, or desirable to carry out the provisions of this AGREEMENT.

5. MISCELLANEOUS

5.1 No Admission: Nothing contained herein shall be construed as an admission by the parties of any liability of any kind. Each of the parties hereto denies any liability in connection with any claim and intends hereby solely to avoid litigation and buy its peace.

5.2 Governing Law: This AGREEMENT has been executed and delivered within the State of California, and the rights and obligations of the PARTIES shall be construed and enforced in accordance with, and governed by, the laws of the State of California.

5.3 Full Integration: This AGREEMENT is the entire agreement between the PARTIES with respect to the subject matter hereof and supersedes all prior and contemporaneous oral and written agreements and discussions. This AGREEMENT may be amended only by a further agreement in writing, signed by the PARTIES.

5.4 Continuing Benefit: This AGREEMENT is binding upon and shall inure to the benefit of the parties, their respective agents, Employees, representatives, officers, attorneys, insurers, assigns, heirs, and successors in interest.

5.5 Amendments: The provisions of this AGREEMENT may not be altered, amended or repealed, in whole or in part, except by the written consent of each of the PARTIES.

5.6 Severability: If any term of this AGREEMENT is declared invalid for any reason, that determination shall not affect the validity of the remainder of the AGREEMENT. The remaining parts of this AGREEMENT shall remain in effect as if the AGREEMENT had been executed without the invalid term.

5.7 Counterparts: This AGREEMENT may be executed in counterparts, and when each party has signed and delivered at least one such counterpart, each counterpart shall be deemed an original, and, when taken together with other signed counterparts, shall constitute one AGREEMENT, which shall be binding upon and effective as to all PARTIES as of the EFFECTIVE DATE set forth in Paragraph 2.4.g.

5.8 Notice: Any and all notices given to any party under this AGREEMENT shall be given as provided in this paragraph. All notices given to any party shall be made by certified or registered United States mail, or personal delivery, at the noticing party's discretion, and addressed to the parties as set forth below. Notices shall be deemed, for all purposes, to have been given on the date of personal service or three consecutive calendar days following certified or registered deposit of the same in the United States mail.

As to EMPLOYEE: [REDACTED]
[Address currently on file with Human Resources]

As to DISTRICT: Sanitary District No.5 of Marin County
District Manager's Office
2001 Paradise Drive
Tiburon, CA 94920

Mailing Address
P.O. Box 227
Tiburon, CA 94920

5.9 Attorney's Fees and Costs: Except as otherwise stated herein, the PARTIES shall each bear their own attorney's fees and costs that may exist as of the EFFECTIVE DATE set forth in Paragraph 2.4.g.

THE SIGNATORIES ACKNOWLEDGE HAVING READ THIS SEPARATION AGREEMENT AND GENERAL RELEASE, INCLUDING A RELEASE OF ALL KNOWN AND UNKNOWN CLAIMS. THE SIGNATORIES FULLY UNDERSTAND THE FINAL AND BINDING EFFECT OF THIS AGREEMENT AND ARE SIGNING IT VOLUNTARILY.

Executed by the PARTIES on the dates indicated below.

EMPLOYEE:

Employee: [REDACTED] Date

MARIN SANITARY DISTRICT No. 5:

Tony Rubio, General Manager Date

APPENDIX “A”

Disclosures for the Voluntary Early Separation Incentive Program (“Program”)

EXEMPLAR OF APPENDIX BWS USED WITH A SAMPLE TABLE FROM THE EEOC

APPENDIX “A”

Disclosures for the Voluntary Early Separation Incentive Program (“Program”)

- I. Scope: The Program was announced and offered to all District employees on January 25, 2021.
- II. Eligibility Factors: All current and regular full-time employees who will have been employed by the District for at least Five (5) full years as of June 30, 2021 are eligible to participate in the Program, with the exclusion of those who are employed on a limited-term basis, or who are employed pursuant to a written employment agreement with the District (e.g., General Manager).
- III. Time Limits: Employees interested in participating in the Program are required to notify the District’s Human Resources Department by no later than _____, 2021. Participating employees must agree to voluntarily resign and separate from District employment effective December 31, 2021. The District may consider and allow for an earlier separation date if requested by the employee.
- IV. Job Titles and Ages of All District Employees who are Eligible, and Not Eligible, for the Program:
- V.

[*TABLE TO BE ADDED IN THE FOLLOWING SAMPLE FORMAT:]

Job Title	Age	Eligible	Not Eligible
WWTP Maintenance & Collections System – Technician	56		X
WWTP Maintenance & Collections System – Business Administration Technician	38		X
WWTP Maintenance & Collections System – Technician: Construction Inspector	47	X	
Sr. WWTP Maintenance & Collections System – Technician	56	X	
WWTP Maintenance & Collections System – Superintendent	41	X	
WWTP Operator	V		X
WWTP Operator – Pollution Prevention Coordinator	41		X
Sr. WWTP Operator – Safety Coordinator	56	X	
Sr. WWTP Operator – Lab Director			
WWTP Operations – Superintendent	38	X	
Office Manager	48	X	

DECISION/ACTION ITEM LOG
CIP Committee: September 14, 2021
 Sanitary District No. 5 of Marin County
ACTIVE ITEMS SHEET

Item #8

No.	Item	Submission Date	Responsible Party	DECISION ONLY		ACTION REQUIRED		Comment/Reference Document
				Due	Completed	Due	Completed	
31	FY2020-2021 Sewer Rehab Project		CIP/TR					Small project for Paradise Cove; Engineering to begin in Dec 2020, as of 7.14.2020; Jan 2021, as of 12.8.2020; Will begin once SD5 Collection System Master Plan is in

American Chemical Society / Discover Chemistry / PressPacs / Leaky sewers are likely responsible for large amounts of medications in streams

FOR IMMEDIATE RELEASE

ACS News Service Weekly PressPac: August 18, 2021

Leaky sewers are likely responsible for large amounts of medications in streams:

“Dosing the Coast: Leaking Sewage Infrastructure Delivers Large Annual Doses and Dynamic Mixtures of Pharmaceuticals to Urban Rivers”

Environmental Science & Technology

Pharmaceutical compounds can harm the environment. However, in waterways that don't receive treated wastewater, these pollutants aren't expected to be present. Now, researchers reporting in ACS' Environmental Science & Technology have found that amounts of some medications carried by a stream in Baltimore were substantial, despite generally low concentrations over the course of a year. Because wastewater plants don't impact this stream, the high loads are likely coming from leaking sewer pipes, they say.

Thousands of medications are approved for human use in the U.S., and many of them are harmful to microorganisms, algae and insects when they make their way into lakes and streams through wastewater. The concentrations of pharmaceutical compounds are usually used to determine their impact on organisms living in streams and rivers. However, contaminant concentrations may change quickly from one day to the next, and so singular snapshots do not correctly illustrate their cumulative effects on aquatic life. Instead, load — the mass of a pollutant that passes through a stream or river over time — better represents the risks to downstream environments, where the contaminants end up. While loads are used in regulations for traditional pollutants, such as nutrients, they have not been considered for pharmaceuticals. So, Megan Fork and colleagues wanted to get an idea of the yearly load of medicines transported by an urban stream in Baltimore.

The researchers tested water from an urban stream draining into Baltimore's Inner Harbor in Maryland on a weekly basis for a year. At the outflow point, they found 16 pharmaceutical compounds whose presence and amount varied considerably from week to week, ranging from concentrations of parts per trillion to parts per billion. Trimethoprim — an antibiotic — was found most regularly, but acetaminophen — a common pain reliever — was at the highest concentrations. The team used their weekly measurements to estimate annual loads of pharmaceuticals, calculating that the equivalent of 30,000 doses of antidepressants, 1,700 doses of antibiotics and 30,000 tablets of acetaminophen entered the Inner Harbor through the stream. Interestingly, this watershed did not receive wastewater treatment plant effluent, so it's likely these compounds are coming from leaky sewer pipes. Improvements to aging infrastructure could reduce this source of harmful compounds to urban streams and other waterways, the researchers say.

The authors acknowledge funding from the U.S. National Science Foundation.

The American Chemical Society (ACS) is a nonprofit organization chartered by the U.S. Congress. ACS' mission is to advance the broader chemistry enterprise and its practitioners for the benefit of Earth and all its people. The Society is a global leader in promoting excellence in science education and providing access to chemistry-related information and research through its multiple research solutions, peer-reviewed journals, scientific conferences, eBooks and weekly news periodical Chemical & Engineering News. ACS journals are among the most cited, most trusted and most read within the scientific literature; however, ACS itself does not conduct chemical research. As a leader in scientific information solutions, its CAS division partners with global innovators to accelerate breakthroughs by curating, connecting and analyzing the world's scientific knowledge. ACS' main offices are in Washington, D.C., and Columbus, Ohio.

GAVIN NEWSOM
GOVERNORJARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

San Francisco Bay Regional Water Quality Control Board

September 13, 2021

Sanitary District No. 5 of Marin County
Tony Rubio, District Manager
3700 Paradise Drive
Tiburon, CA 94920

Subject: Transmittal of Order R2-2021-0017, NPDES Permit CA0037427 for the Paradise Cove Treatment Plant, Tiburon, Marin County

Dear Tony Rubio:

Attached is a copy of Order R2-2021-0017, adopted by the Regional Water Board on September 8, 2021. The requirements of this Order are effective starting December 1, 2021.

If you have any questions, you may contact James Parrish at (510) 622-2381 or james.parrish@waterboards.ca.gov.

Sincerely,

Michael Montgomery
Executive Officer

cc: Julie Song, U.S. EPA, Region 9, song.julie@epa.gov
SWCRB DWQ, NPDES_Wastewater@waterboards.ca.gov

Attachment: Order R2-2021-0017

CW-239498

JIM McGRATH, CHAIR | MICHAEL MONTGOMERY, EXECUTIVE OFFICER

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1. FACILITY INFORMATION

Information describing the Paradise Cove Treatment Plant and its wastewater collection system (collectively, the Facility) is summarized on the cover page and in Fact Sheet (Attachment F) sections 1 and 2. Fact Sheet section 1 also includes information regarding the permit application.

2. FINDINGS

The Regional Water Board finds the following:

- 2.1. Legal Authorities.** This Order serves as WDRs pursuant to California Water Code article 4, chapter 4, division 7 (commencing with § 13260). This Order is also issued pursuant to federal Clean Water Act (CWA) section 402 and implementing regulations adopted by U.S. EPA and Water Code chapter 5.5, division 7 (commencing with § 13370). It shall serve as an NPDES permit authorizing the Discharger to discharge into waters of the United States as described in Table 1 subject to the WDRs in this Order.
- 2.2. Background and Rationale for Requirements.** The Regional Water Board developed the requirements in this Order based on information the Discharger submitted as part of its application, information obtained through monitoring and reporting programs, and other available information. The Fact Sheet contains background information and rationale for the requirements in this Order and is hereby incorporated into and constitutes findings for this Order. Attachments A through E and G are also incorporated into this Order.
- 2.3. Notification of Interested Parties.** The Regional Water Board notified the Discharger and interested agencies and persons of its intent to prescribe these WDRs and has provided an opportunity to submit written comments and recommendations. Fact Sheet section 8.1 provides details regarding the notification.
- 2.4. Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Fact Sheet section 8.3 provides details regarding the public hearing.

THEREFORE, IT IS HEREBY ORDERED that Order R2-2016-0042 (previous order) is rescinded upon the effective date of this Order, except for enforcement purposes, and, in order to meet the provisions contained in Water Code division 7 (commencing with § 13000) and regulations adopted thereunder and the provisions of the CWA and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order. This action in no way prevents the Regional Water Board from taking enforcement action for violations of the previous order.

3. DISCHARGE PROHIBITIONS

- 3.1. Discharge of treated or partially-treated wastewater at a location or in a manner different from that described in this Order is prohibited.
- 3.2. Bypass of untreated or partially-treated wastewater to waters of the United States is prohibited, except as provided for in Attachment D section 1.7 of this Order.
- 3.3. Discharge at Discharge Point 001 is prohibited when treated wastewater does not receive an initial dilution of at least 44:1, as modeled. Compliance shall be achieved by proper operation and maintenance of the discharge outfall to ensure that it (or its replacement, in whole or part) is in good working order and is consistent with or can achieve better mixing than that described in Fact Sheet section 4.3.4.2. The Discharger shall address measures taken to ensure this in its application for permit reissuance.
- 3.4. Average dry weather influent flow in excess of 0.04 MGD is prohibited. Average dry weather influent flow shall be determined from three consecutive dry weather months each year, with compliance measured at Monitoring Location INF-001 as described in the Monitoring and Reporting Program (MRP, Attachment E).
- 3.5. Any sanitary sewer overflow that results in a discharge of untreated or partially treated wastewater to waters of the United States is prohibited.

4. EFFLUENT LIMITATIONS

- 4.1. **Effluent Limitations.** The discharge at Discharge Point 001 shall meet the following effluent limitations, with compliance measured at Monitoring Location EFF-001 as described in the Monitoring and Reporting Program (MRP, Attachment E):

Table 2. Effluent Limitations

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Biochemical Oxygen Demand (5-day @ 20°C)	mg/L	30	45	-	-	-
Total Suspended Solids	mg/L	30	45	-	-	-
pH ^[1]	standard units	-	-	-	6.0	9.0
Oil and Grease	mg/L	10	-	20	-	-
Chlorine, Total Residual	mg/L	-	-	-	-	0.0
Ammonia, Total	mg/L	56	-	150	-	-
Copper, Total Recoverable	µg/L	42	-	76	-	-
Cyanide, Total	µg/L	18	-	42	-	-

Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Zinc, Total Recoverable	µg/L	450	-	910	-	-

Footnote:

⁽¹⁾ If the Discharger monitors pH continuously, pursuant to 40 C.F.R. section 401.17 the Discharger shall be in compliance with this pH limitation provided that both of the following conditions are satisfied: (i) the total time during which the pH is outside the required range shall not exceed 7 hours and 26 minutes in any calendar month; and (ii) no individual excursion from the required pH range shall exceed 60 minutes.

4.2. Percent Removal. The average monthly percent removal of biochemical oxygen demand (BOD) and total suspended solids (TSS) at Discharge Point 001 shall not be less than 85 percent (i.e., in each calendar month, the arithmetic mean of BOD and TSS, by concentration, of effluent samples collected at Monitoring Location EFF-001 as described in the MRP, shall not exceed 15 percent of the arithmetic mean of the BOD and TSS, by concentration, for influent samples collected at Monitoring Location INF-001 as described in the MRP at approximately the same times during the same period).

4.3. Enterococcus Bacteria. The discharge at Discharge Point 001 shall meet the following enterococcus effluent limitations, with compliance measured at Monitoring Location EFF-001D, as described in the MRP:

4.3.1. The six-week rolling geometric mean of enterococcus bacteria, calculated weekly, shall not exceed 290 colony forming units per 100 milliliters (CFU/100 mL). Compliance with this limit shall be determined weekly by calculating the geometric mean of all enterococcus sample results from the past six weeks; and

4.3.2. No more than 10 percent of all enterococcus bacteria samples collected in a calendar month shall exceed 1,100 CFU/100 mL. Compliance with this limit shall be determined based on measured sample results. The Discharger shall not report interpolated results. If the Discharger has 9 or fewer sample results in a calendar month, compliance shall be based on the highest result. If the Discharger has 10 to 19 sample results, compliance shall be based on the second highest result, and so on.

4.4. Total Coliform. The discharge at Discharge Point 001 shall meet the following total coliform bacteria limitations, with compliance measured at Monitoring Location EFF-001D as described in the MRP:

4.4.1. The moving median value for the most probable number per 100 milliliters (MPN/100 mL) of total coliform bacteria in five consecutive samples shall not exceed 240 MPN/100 mL; and

4.4.2. No single sample shall exceed 10,000 MPN/100 mL.

4.5. Acute Toxicity. The discharge at Discharge Point 001 shall meet the following acute toxicity limitations, with compliance measured at Monitoring Location EFF-001 as described in the MRP. If the Discharger can demonstrate that toxicity exceeding these acute toxicity limits is caused solely by ammonia and that the ammonia in the discharge complies with the ammonia effluent limits in Table 2 of this Order, then such toxicity shall not constitute a violation of these acute toxicity limits.

- 4.5.1. The three-sample median shall not exhibit less than 90 percent survival (i.e., a bioassay test showing survival of less than 90 percent shall represent a violation of this effluent limitation if one or more of the past two bioassay tests also show less than 90 percent survival); and
- 4.5.2. The single-sample maximum value shall not exhibit less than 70 percent survival (i.e., a bioassay test showing survival of less than 70 percent shall represent a violation of this effluent limitation).

5. RECEIVING WATER LIMITATIONS

5.1. The discharge shall not cause the following conditions at any place in receiving waters:

- 5.1.1. Floating material, including solids, liquids, foams, and scum, in concentrations that cause nuisance or adversely affect beneficial uses;
- 5.1.2. Alteration of suspended sediment in such a manner as to cause nuisance or adversely affect beneficial uses or detrimental increase in the concentrations of toxic pollutants in sediments or aquatic life;
- 5.1.3. Suspended material in concentrations that cause nuisance or adversely affect beneficial uses;
- 5.1.4. Bottom deposits or aquatic growths to the extent that such deposits or growths cause nuisance or adversely affect beneficial uses;
- 5.1.5. Alteration of temperature beyond present natural background levels unless it can be demonstrated to the satisfaction of the Regional Water Board that such alteration in temperature does not adversely affect beneficial uses;
- 5.1.6. Changes in turbidity that cause nuisance or adversely affect beneficial uses, or increases from normal background light penetration or turbidity greater than 10 percent in areas where natural turbidity is greater than 50 nephelometric turbidity units, or above 55 nephelometric turbidity units in areas where natural turbidity is less than or equal to 50 nephelometric turbidity units;
- 5.1.7. Coloration that causes nuisance or adversely affects beneficial uses;

- 5.1.8. Visible, floating, suspended, or deposited oil or other products of petroleum origin; or
- 5.1.9. Toxic or other deleterious substances in concentrations or quantities that cause deleterious effects on wildlife, waterfowl, or other aquatic biota, or render any of these unfit for human consumption, either at levels created in the receiving waters or as a result of biological concentration.

5.2. The discharge shall not cause the following limits to be exceeded at any place in receiving waters within one foot of the water surface:

5.2.1. Dissolved Oxygen 5.0 mg/L, minimum

The median dissolved oxygen concentration for any three consecutive months shall not be less than 80 percent of the dissolved oxygen content at saturation. When natural factors cause concentrations less than that specified above, the discharge shall not cause further reduction in ambient dissolved oxygen concentrations.

5.2.2. Dissolved Sulfide Natural background levels

5.2.3. pH The pH shall not be depressed below 6.5 nor raised above 8.5. The discharge shall not cause changes greater than 0.5 pH units in normal ambient pH levels.

5.2.4. Nutrients Waters shall not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses.

5.3. The discharge shall not cause a violation of any water quality standard for receiving waters adopted by the Regional Water Board or State Water Resources Control Board (State Water Board) as required by the CWA and regulations adopted thereunder beyond any mixing zone established through this Order. If more stringent water quality standards are promulgated or approved pursuant to CWA section 303, or amendments thereto, the Regional Water Board may revise or modify this Order in accordance with the more stringent standards.

6. PROVISIONS

6.1. Standard Provisions

6.1.1. The Discharger shall comply with all “Standard Provisions” in Attachment D.

6.1.2. The Discharger shall comply with all applicable provisions of the “Regional Standard Provisions, and Monitoring and Reporting Requirements for NPDES Wastewater Discharge Permits” in Attachment G.

6.1.3. If there is any conflict, duplication, or overlap between provisions in this Order, the more stringent provision shall apply.

6.2. Monitoring and Reporting Provisions

The Discharger shall comply with the Monitoring and Reporting Program (MRP, Attachment E) and future revisions thereto, and applicable monitoring and reporting requirements in Attachments D and G.

6.3. Special Provisions

6.3.1. Reopener Provisions

The Regional Water Board may modify or reopen this Order prior to its expiration date in any of the following circumstances as allowed by law or as otherwise authorized by law. The Discharger may request a permit modification based on any of these circumstances. With any such request, the Discharger shall include antidegradation and anti-backsliding analyses as necessary.

6.3.1.1. If present or future investigations demonstrate that the discharges governed by this Order have or will have a reasonable potential to cause or contribute to adverse impacts on water quality or beneficial uses of the receiving waters;

6.3.1.2. If new or revised water quality objectives or total maximum daily loads (TMDLs) come into effect for San Francisco Bay or contiguous water bodies (whether statewide, regional, or site-specific). In such cases, effluent limitations in this Order may be modified as necessary to reflect the updated water quality objectives or wasteload allocations. Adoption of the effluent limitations in this Order is not intended to restrict in any way future modifications based on legally-adopted water quality objectives or TMDLs or as otherwise permitted under federal regulations governing NPDES permit modifications;

6.3.1.3. If translator, dilution, or other water quality studies provide a basis for determining that a permit condition should be modified;

6.3.1.4. If a State Water Board precedential decision, new policy, new law, or new regulation is adopted;

6.3.1.5. If an administrative or judicial decision on a separate NPDES permit or WDRs addresses requirements similar to this discharge; or

6.3.1.6. If the Discharger requests adjustments in effluent limits due to the implementation of stormwater diversion pursuant to the Municipal Regional Stormwater Permit (NPDES Permit CAS612008) for redirecting dry weather and first flush discharges from a storm drain system to the sanitary sewer system as a stormwater pollutant control strategy.

6.3.2. **Effluent Characterization Study and Report**

6.3.2.1. **Study Elements.** The Discharger shall characterize and evaluate the discharge from Discharge Point 001 as required by the MRP to verify that the reasonable potential analysis conclusions of this Order remain valid and to inform the next permit reissuance. If concentrations of any of the priority pollutants listed in Attachment G, Table B, significantly increase over past performance, the Discharger shall investigate the cause of any such increase. The investigation may include, but need not be limited to, an increase in monitoring frequency, monitoring of internal process streams, and monitoring of influent sources. The Discharger shall establish remedial measures addressing any increase resulting in reasonable potential to cause or contribute to an exceedance of applicable water quality objectives. This requirement may be satisfied through identification of the constituent as a “pollutant of concern” in the Discharger’s Pollutant Minimization Program, described in Provision 6.3.3.

6.3.2.2. **Reporting Requirements.** The Discharger shall summarize the data evaluation and any applicable source investigation in the annual self-monitoring report associated with the year in which samples were collected. The Discharger shall also report the pollutants detected at or above applicable water quality objectives (see Fact Sheet Table F-6 for the objectives) in the report’s transmittal letter. This requirement does not apply to pollutants with effluent limitations (see Table 2 of this Order).

6.3.3. **Pollutant Minimization Program**

6.3.3.1. The Discharger shall continue to improve its existing Pollutant Minimization Program to promote minimization of pollutant loadings to the treatment plant and therefore to the receiving waters.

6.3.3.2. The Discharger shall submit an annual report no later than **February 28** of each calendar year. Each annual report shall include at least the following information:

6.3.3.2.1. **Brief description of treatment plant.** The description shall include the service area and treatment plant processes.

6.3.3.2.2. **Discussion of current pollutants of concern.** Periodically, the Discharger shall analyze its circumstances to determine which pollutants are currently a problem and which pollutants may be potential future

problems. This discussion shall include the reasons for choosing the pollutants.

- 6.3.3.2.3. **Identification of sources for pollutants of concern.** This discussion shall include how the Discharger intends to estimate and identify pollutant sources. The Discharger shall include sources or potential sources not directly within the ability or authority of the Discharger to control, such as pollutants in the potable water supply and air deposition.
- 6.3.3.2.4. **Identification of tasks to reduce the sources of pollutants of concern.** This discussion shall identify and prioritize tasks to address the Discharger's pollutants of concern. The Discharger may implement the tasks by itself or participate in group, regional, or national tasks that address its pollutants of concern. The Discharger is strongly encouraged to participate in group, regional, or national tasks that address its pollutants of concern whenever it is efficient and appropriate to do so. An implementation timeline shall be included for each task.
- 6.3.3.2.5. **Outreach to employees.** The Discharger shall inform employees about the pollutants of concern, potential sources, and how they might be able to help reduce the discharge of these pollutants of concern into the Facility. The Discharger may provide a forum for employees to provide input.
- 6.3.3.2.6. **Continuation of Public Outreach Program.** The Discharger shall prepare a pollution prevention public outreach program for its service area. Outreach may include participation in existing community events, such as county fairs; initiating new community events, such as displays and contests during Pollution Prevention Week; conducting school outreach programs; conducting plant tours; and providing public information in newspaper articles or advertisements, radio or television stories or spots, newsletters, utility bill inserts, or web sites. Information shall be specific to target audiences. The Discharger shall coordinate with other agencies as appropriate.
- 6.3.3.2.7. **Discussion of criteria used to measure Pollutant Minimization Program and task effectiveness.** The Discharger shall establish criteria to evaluate the effectiveness of its Pollutant Minimization Program. This discussion shall identify the specific criteria used to measure the effectiveness of each task in Provisions 6.3.3.2.3, 6.3.3.2.4, 6.3.3.2.5, and 6.3.3.2.6.
- 6.3.3.2.8. **Documentation of efforts and progress.** This discussion shall detail all of the Discharger's Pollutant Minimization Program activities during the reporting year.

- 6.3.3.2.9. **Evaluation of Pollutant Minimization Program and task effectiveness.** The Discharger shall use the criteria established in Provision 6.3.3.2.7 to evaluate the program and task effectiveness.
- 6.3.3.2.10. **Identification of specific tasks and timelines for future efforts.** Based on the evaluation, the Discharger shall explain how it intends to continue or change its tasks to more effectively reduce the amount of pollutants flowing to the treatment plant, and subsequently in its effluent.
- 6.3.3.3. The Discharger shall develop and conduct a Pollutant Minimization Program as described below when there is evidence that a priority pollutant is present in the effluent above an effluent limitation (e.g., sample results reported as detected but not quantified [DNQ] when the effluent limitation is less than the method detection limit [MDL], sample results from analytical methods more sensitive than those methods required by this Order, presence of whole effluent toxicity, health advisories for fish consumption, or results of benthic or aquatic organism tissue sampling) and either:
- 6.3.3.3.1. A sample result is reported as DNQ and the effluent limitation is less than the Reporting Level (RL); or
- 6.3.3.3.2. A sample result is reported as not detected (ND) and the effluent limitation is less than the MDL, using definitions described in Attachment A and reporting protocols described in the MRP.
- 6.3.3.4. If triggered for a reason set forth in Provision 6.3.3.3, above, the Discharger's Pollutant Minimization Program shall include, but not be limited to, the following actions and submittals:
- 6.3.3.4.1. An annual review and semi-annual monitoring of potential sources of the reportable priority pollutants, which may include fish tissue monitoring and other bio-uptake sampling, or alternative measures when source monitoring is unlikely to produce useful analytical data;
- 6.3.3.4.2. Quarterly monitoring for the reportable priority pollutants in the influent to the wastewater treatment system. The Executive Officer may approve alternative measures when influent monitoring is unlikely to produce useful analytical data;
- 6.3.3.4.3. Submittal of a control strategy designed to proceed toward the goal of maintaining concentrations of the reportable priority pollutants in the effluent at or below the effluent limitation;
- 6.3.3.4.4. Implementation of appropriate cost-effective control measures for the reportable priority pollutants, consistent with the control strategy; and

- 6.3.3.4.5. Inclusion of the following specific items within the annual report required by Provision 6.3.3.2, above:
 - 6.3.3.4.5.1. All Pollutant Minimization Program monitoring results for the previous year;
 - 6.3.3.4.5.2. List of potential sources of the reportable priority pollutants;
 - 6.3.3.4.5.3. Summary of all actions undertaken pursuant to the control strategy; and
 - 6.3.3.4.5.4. Description of actions to be taken in the following year.

6.3.4. **Special Provisions for Publicly-Owned Treatment Works**

6.3.4.1. **Sludge and Biosolids Management**

- 6.3.4.1.1. Sludge and biosolids treatment and storage shall not create a nuisance, such as objectionable odors or flies, or result in groundwater contamination.
- 6.3.4.1.2. The sludge and biosolids treatment and storage site shall have facilities adequate to divert surface runoff from adjacent areas, to protect site boundaries from erosion, and to prevent conditions that would cause drainage from the stored materials. Adequate protection is defined as protection from at least a 100-year storm and the highest possible tidal stage that may occur.
- 6.3.4.1.3. This Order does not authorize permanent onsite sludge or biosolids storage or disposal. The Discharger shall file a Report of Waste Discharge and bring the site into compliance with applicable regulations prior to commencement of any such activity.

- 6.3.4.2. **Collection System Management.** The Discharger shall properly operate and maintain its collection system (see Attachments D and G, section 1.4), report any noncompliance with respect to its collection system (see Attachment D, section 5.5.1, and Attachment G, sections 5.5.1 and 5.5.2), and mitigate any discharges in violation of this Order associated with its collection system (see Attachments D and G, section 1.3).

State Water Board Order 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, as amended by State Water Board Order WQ 2013-0058-EXEC (statewide WDRs), contains requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows. The statewide WDRs clearly and specifically stipulate requirements for operation and maintenance and for reporting and mitigating sanitary sewer overflows. Implementing the requirements for operation and maintenance and mitigation of sanitary sewer

overflows set forth in the statewide WDRs (and any subsequent order updating these requirements) shall satisfy the corresponding federal NPDES requirements specified in Attachments D and G of this Order for the collection systems. Following the reporting requirements set forth in the statewide WDRs (and any subsequent order updating those requirements) shall satisfy the NPDES reporting requirements for sanitary sewer overflows specified in Attachments D and G.

6.3.4.3. **Resource Recovery from Anaerobically Digestible Material.** If the Discharger receives hauled-in anaerobically-digestible material for injection into an anaerobic digester, the Discharger shall notify the Regional Water Board and develop and implement Standard Operating Procedures for this activity. The Standard Operating Procedures shall be developed prior to initiation of hauling. The Standard Operating Procedures shall address material handling, including unloading, screening, or other processing prior to anaerobic digestion; transportation; spill prevention; spill response; avoidance of the introduction of materials that could cause interference, pass through, or upset of the treatment processes; avoidance of prohibited material; vector control; odor control; operation and maintenance; and the disposition of any solid waste segregated from introduction to the digester. The Discharger shall train its staff on the Standard Operating Procedures and maintain records for a minimum of three years for each load received, describing the hauler, waste type, and quantity received. In addition, the Discharger shall maintain records for a minimum of three years for the disposition, location, and quantity of cumulative pre-digestion segregated solid waste hauled offsite.

6.3.5. **Other Special Provisions**

6.3.5.1. **Copper Action Plan.** The Discharger shall implement source control and pollution prevention for copper in accordance with the following tasks and time schedule:

Table 3. Copper Action Plan

Task No.	Task	Deadline
1	<p>Implement Copper Control Program. Continue implementing existing program to reduce identified copper sources, including, as applicable, taking the following actions:</p> <ul style="list-style-type: none"> a. Providing education and outreach to the public (e.g., focusing on proper pool and spa maintenance and plumbers' roles in reducing corrosion); b. If corrosion is a significant copper source, working cooperatively with local water purveyors to reduce and control water corrosivity, as appropriate, and ensuring that local plumbing contractors implement best management practices to reduce corrosion in pipes; and 	Implementation shall be ongoing

Task No.	Task	Deadline
	c. Educating plumbers, designers, and maintenance contractors for pools and spas to encourage best management practices that minimize copper discharges.	
2	Implement Additional Actions. If the Regional Water Board notifies the Discharger that the three-year rolling mean dissolved copper concentration in Central San Francisco Bay exceeds 2.2 µg/L, then within 90 days of the notification, evaluate the effluent copper concentration trend and, if it is increasing, develop and begin implementation of additional measures to control copper discharges. Report the conclusion of the trend analysis and provide a schedule for any new actions to be taken within the next 12 months.	With next annual pollution minimization program report due February 28 (at least 90 days following notification)
3	Report Status. Submit an annual report documenting copper control program implementation that evaluates the effectiveness of the actions taken, including any additional actions required by Task 2 above, and provides a schedule for actions to be taken within the next 12 months.	Annually, with annual pollution minimization program report due February 28 each year

6.3.5.2. **Cyanide Action Plan.** The Discharger shall implement monitoring and surveillance, source control, and pollution prevention for cyanide in accordance with the following tasks and time schedule:

Table 4. Cyanide Action Plan

Task No.	Task	Deadline
1	Review Potential Cyanide Sources. Submit an up-to-date inventory of potential cyanide sources. If no cyanide source is identified, Tasks 2 and 3, below, are not required unless the Discharger receives a request to discharge detectable levels of cyanide to the sewer. In such case, notify the Executive Officer and implement Tasks 2 and 3.	With annual pollution minimization program report due February 28, 2022
2	Implement Cyanide Control Program. Implement a control program to minimize cyanide discharges consisting, at a minimum, of the following elements: a. Inspect each potential source to assess the need to include that source in the control program. b. Inspect sources included in the control program annually. Inspection elements may be based on U.S. EPA guidance, such as <i>Industrial User Inspection and Sampling Manual for POTWs</i> (EPA 831 B 94 01). c. Develop and distribute educational materials regarding the need to prevent cyanide discharges to sources included in the control program. d. Prepare an emergency monitoring and response plan to be implemented if a significant cyanide discharge occurs. If the plant influent cyanide concentration exceeds 14 µg/L, the Discharger shall collect a follow-up sample within 5 days of becoming aware of the laboratory results. If the results of the follow-up sample also exceed 14 µg/L, then a “significant cyanide discharge” is occurring.	Implementation shall be ongoing following Executive Officer notification under Task 1

Task No.	Task	Deadline
3	Implement Additional Measures. If the Regional Water Board notifies the Discharger that ambient monitoring shows cyanide concentrations are 1.0 µg/L or higher in the main body of San Francisco Bay, then within 90 days of the notification, commence actions to identify and abate cyanide sources responsible for the elevated ambient concentrations, report on the progress and effectiveness of the actions taken, and provide a schedule for actions to be taken within the next 12 months.	With next annual pollution minimization program report due February 28 (at least 90 days following notification)
4	Report Status of Cyanide Control Program. Submit an annual report documenting cyanide control program implementation and addressing the effectiveness of actions taken, including any additional cyanide controls required by Task 3, above, and provide a schedule for actions to be taken within the next 12 months.	Annually, with annual pollution minimization program report due February 28 each year

6.3.5.3. **Average Annual Selenium Load.** The Discharger shall report the average annual selenium load with its application for permit reissuance. The average annual load shall be the arithmetic mean of the annual mass discharges for the previous permit term. Annual mass emissions shall be computed as follows:

$$\text{Annual Mass emission rate (kg/day)} = (3.785/N) \sum Q_i C_i$$

where:

N = number of samples in a year

Q_i = flow rate (MGD) associated with the i^{th} sample, valid until a new sample is collected

C_i = selenium concentration (mg/L) associated with the i^{th} sample, valid until a new sample is collected

When calculating selenium loads, the Discharger shall use estimated values and assume data reported below the method detection limit equal half of the detection limit.

6.3.5.4. **Ultraviolet (UV) Disinfection Installation.** When the Discharger completes installation of the proposed UV disinfection system, it shall submit the following documentation and wait for Executive Officer written concurrence prior to commencing use of the UV disinfection system:

6.3.5.4.1. Certification by a licensed professional that the new UV disinfection system has been constructed as designed and is ready for use;

6.3.5.4.2. Updates to the Operations and Maintenance Manual and Contingency Plan to include the new UV disinfection system; and

6.3.5.4.3. The specific date the Discharger proposes to commence use of the UV disinfection system.

ATTACHMENT A – DEFINITIONS AND ABBREVIATIONS

DEFINITIONS

Arithmetic Mean (μ)

Also called the average, sum of measured values divided by the number of samples. For ambient water concentrations, the arithmetic mean is calculated as follows:

$$\text{Arithmetic mean} = \mu = \Sigma x / n$$

where: Σx is the sum of the measured ambient water concentrations,
and n is the number of samples

Average Monthly Effluent Limitation (AMEL)

Highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL)

Highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Bioaccumulative

Taken up by an organism from its surrounding medium through gill membranes, through epithelial tissue, or from food and subsequently concentrated and retained in the body of the organism.

Carcinogenic

Known to cause cancer in living organisms.

Coefficient of Variation (CV)

Measure of data variability calculated as the estimated standard deviation divided by the arithmetic mean of the observed values.

Daily Discharge

Either: (1) the total mass of a constituent discharged over a calendar day (12:00 a.m. through 11:59 p.m.) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit) for a constituent with limitations expressed in units of mass; or (2) the unweighted arithmetic mean measurement of a constituent over a day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period is considered the result for the calendar day in which the 24-hour period ends.

Detected, but Not Quantified (DNQ)

Sample results less than the RL, but greater than or equal to the laboratory's MDL. Sample results reported as DNQ are estimated concentrations.

Dilution Credit

Amount of dilution granted to a discharge in the calculation of a water quality-based effluent limitation, based on the allowance of a specified mixing zone. It is calculated from the dilution ratio or determined through conducting a mixing zone study or modeling of the discharge and receiving water.

Effluent Concentration Allowance (ECA)

Value derived from the water quality criterion or objective, dilution credit, and ambient background concentration that is used, in conjunction with the CV for the effluent monitoring data, to calculate a long-term average (LTA) discharge concentration. The ECA has the same meaning as wasteload allocation (WLA) as used in U.S. EPA guidance (*Technical Support Document for Water Quality-based Toxics Control*, March 1991, second printing, EPA/505/2-90-001).

Enclosed Bays

Indentations along the coast that enclose an area of oceanic water within distinct headlands or harbor works. Enclosed bays include all bays where the narrowest distance between the headlands or outermost harbor works is less than 75 percent of the greatest dimension of the enclosed portion of the bay. Enclosed bays include, but are not limited to, Humboldt Bay, Bodega Harbor, Tomales Bay, Drake's Estero, San Francisco Bay, Morro Bay, Los Angeles-Long Beach Harbor, Upper and Lower Newport Bay, Mission Bay, and San Diego Bay. Enclosed bays do not include inland surface waters or ocean waters.

Estimated Chemical Concentration

Concentration that results from the confirmed detection of a substance below the ML by the analytical method.

Estuaries

Waters, including coastal lagoons, located at the mouths of streams that serve as areas of mixing for fresh and ocean waters. Coastal lagoons and mouths of streams that are temporarily separated from the ocean by sandbars shall be considered estuaries. Estuarine waters are considered to extend from a bay or the open ocean to a point upstream where there is no significant mixing of fresh water and seawater. Estuarine waters included, but are not limited to, the Sacramento-San Joaquin Delta, as defined in Water Code section 12220; Suisun Bay; Carquinez Strait downstream to the Carquinez Bridge; and appropriate areas of the Smith, Mad, Eel, Noyo, Russian, Klamath, San Diego, and Otay rivers. Estuaries do not include inland surface waters or ocean waters.

Inland Surface Waters

All surface waters of the state that are not the ocean, enclosed bays, or estuaries.

Instantaneous Maximum Effluent Limitation

Highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation

Lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Maximum Daily Effluent Limitation (MDEL)

Highest allowable daily discharge of a pollutant, over a calendar day (or 24-hour period). For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the arithmetic mean measurement of the pollutant over the day.

Median

Middle measurement in a data set. The median of a data set is found by first arranging the measurements in order of magnitude (either increasing or decreasing order). If the number of measurements (n) is odd, then the median = $X_{(n+1)/2}$. If n is even, then the median = $(X_{n/2} + X_{(n/2+1)})/2$ (i.e., the midpoint between $n/2$ and $n/2+1$).

Method Detection Limit (MDL)

Minimum concentration of a substance that can be reported with 99 percent confidence that the measured concentration is distinguishable from method blank results, as defined in 40 C.F.R. part 136, Appendix B.

Minimum Level (ML)

Concentration at which the entire analytical system must give a recognizable signal and acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration standard analyzed by a specific analytical procedure, assuming that all the method specified sample weights, volumes, and processing steps have been followed.

Mixing Zone

Limited volume of receiving water allocated for mixing with a wastewater discharge where water quality criteria can be exceeded without causing adverse effects to the overall water body.

Not Detected (ND)

Sample results less than the laboratory's MDL.

Persistent Pollutants

Substances for which degradation or decomposition in the environment is nonexistent or very slow.

Pollutant Minimization Program

Program of waste minimization and pollution prevention actions that include, but are not limited to, product substitution, waste stream recycling, alternative waste management methods, and education of the public and businesses. The goal of a Pollutant Minimization Program is to reduce all potential sources of a priority pollutant through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality-based effluent limitation. Pollution prevention measures may be particularly appropriate for persistent bioaccumulative priority pollutants where there is evidence that beneficial uses are being impacted. Cost effectiveness may be considered when establishing the requirements of a Pollutant Minimization Program. The completion and implementation of a Pollution Prevention Plan, if required pursuant to Water Code section 13263.3(d), is considered to fulfill the Pollutant Minimization Program requirements.

Pollution Prevention

Any action that causes a net reduction in the use or generation of a hazardous substance or other pollutant discharged into water and includes, but is not limited to, input change, operational improvement, production process change, and product reformulation (as defined in Water Code section 13263.3). Pollution prevention does not include actions that merely shift a pollutant in wastewater from one environmental medium to another environmental medium, unless clear environmental benefits of such an approach are identified to the satisfaction of the State Water Resources Control Board or Regional Water Board.

Reporting Level (RL)

ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the MLs included in this Order, including an additional factor if applicable as discussed herein. For priority pollutants, the MLs included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Regional Water Board either from State Implementation Plan (SIP) Appendix 4 in accordance with SIP section 2.4.2 or established in accordance with SIP section 2.4.3. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the RL.

Source of Drinking Water

Any water designated as municipal or domestic supply (MUN) beneficial use.

Standard Deviation (σ)

Measure of variability calculated as follows:

$$\text{Standard deviation} = \sigma = (\sum[(x - \mu)^2]/(n - 1))^{0.5}$$

where: x is the observed value
 μ is the arithmetic mean of the observed values
 n is the number of samples

Toxicity Reduction Evaluation (TRE)

Study conducted in a step-wise process designed to identify the causative agents of effluent or ambient toxicity, isolate the sources of toxicity, evaluate the effectiveness of toxicity control options, and then confirm the reduction in toxicity. The first steps of the TRE consist of the collection of data relevant to the toxicity, including additional toxicity testing, and an evaluation of facility operations and maintenance practices, and best management practices. A Toxicity Identification Evaluation (TIE) may be required as part of the TRE, if appropriate. A TIE is a set of procedures to identify the specific chemicals responsible for toxicity. These procedures are performed in three phases (characterization, identification, and confirmation) using aquatic organism toxicity tests.

ABBREVIATIONS

°F	degrees Fahrenheit
°C	degrees Celsius
%	Percent
µg/L	Micrograms per liter
µS/cm	Microsiemens per centimeter
1/Blending Event	Once per blending event
1/Discharge	Once per discharge
1/Day	Once per day
1/Month	Once per month
1/Quarter	Once per quarter
1/Week	Once per week
1/Year	Once per year
2/Month	Two times per month
2/Week	Twice per week
2/Year	Twice per year
3/Week	Three times per week
4/Week	Four times per week
5/Week	Five times per week
AMEL	Average monthly effluent limitation
AWEL	Average weekly effluent limitation

B	Background concentration
C	Water quality criterion or objective
C-24	24-hour composite
CFU/100 mL	Colony forming units per 100 milliliters
Continuous	Measured continuously
Continuous/D	Measured continuously, and recorded and reported daily
Continuous/H	Measured continuously, and recorded and reported hourly
CTR	California Toxics Rule
CV	Coefficient of Variation
DMR	Discharge Monitoring Report
DNQ	Detected, but not quantified
DL	Detection level
ECA	Effluent Concentration Allowance
Grab	Grab sample
MDEL	Maximum Daily Effluent Limitation
MDL	Method detection limit
MEC	Maximum effluent concentration
MG	Million gallons
mg/L	Milligrams per liter
mg/L as N	Milligrams per liter as nitrogen
MGD	Million gallons per day
ML	Minimum level
MPN/100 mL	Most probable number per 100 milliliters
MRP	Monitoring and Reporting Program (Attachment E)
ND	Not detected
NTR	National Toxics Rule
NTU	Nephelometric turbidity units
ppt	Parts per thousand
RL	Reporting level
RPA	Reasonable potential analysis
SMR	Self-Monitoring Report
s.u.	Standard pH units

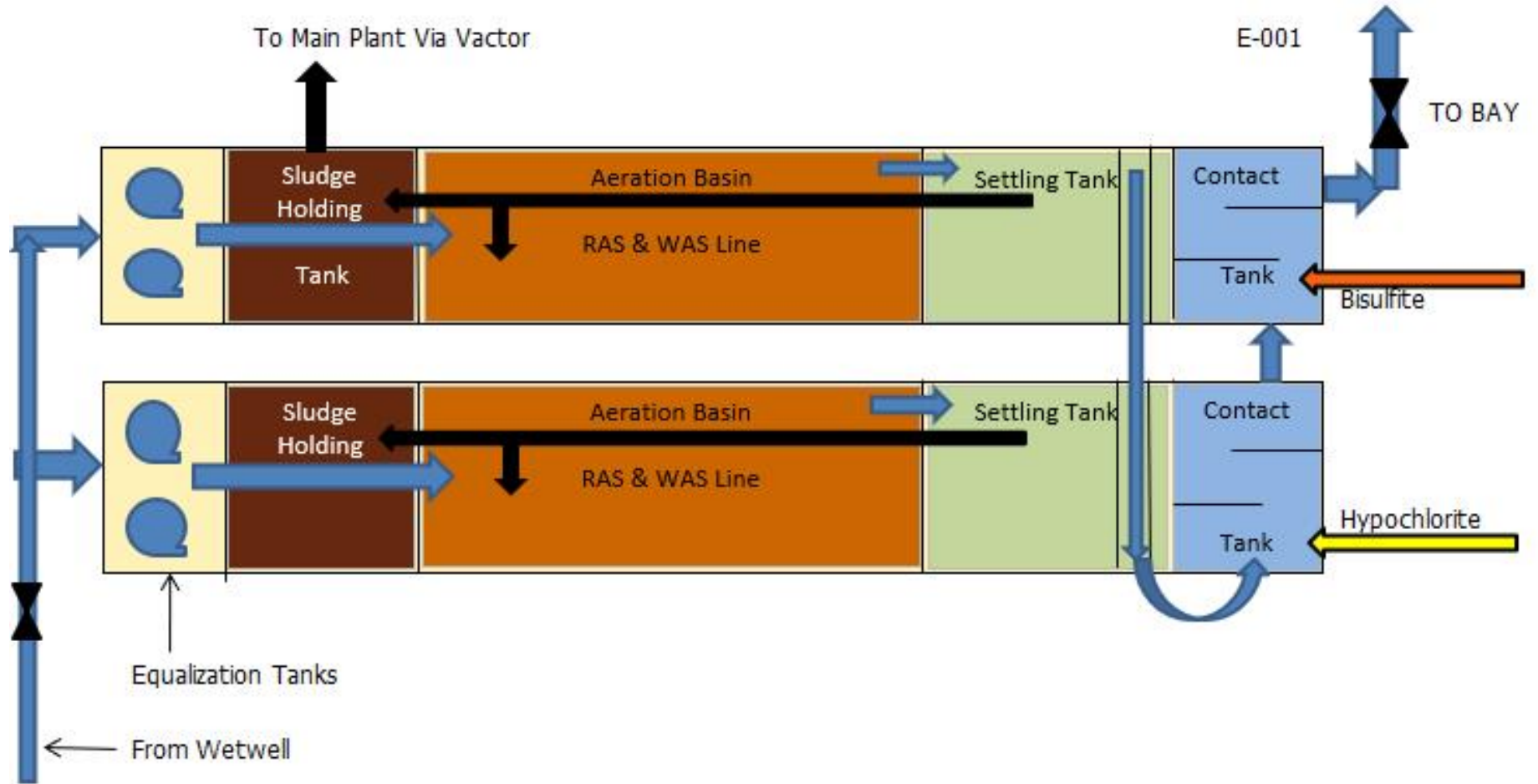
TIE	Toxicity identification evaluation
TRE	Toxicity reduction evaluation
TUa	Acute toxicity units
TUc	Chronic toxicity units

ATTACHMENT B – MAPS

Figure B-1. Facility and Outfall Locations



ATTACHMENT C – FLOW SCHEMATIC ^[1]



Footnote:

^[1] The sludge holding tanks, aeration basins, and settling tanks provide primary clarification, extended aeration, and secondary clarification as described in Fact Sheet section 2.1.2. The hypochlorite (disinfection) and bisulfite (dechlorination) additions may no longer be an active part of the treatment process if the Discharger installs ultraviolet disinfection in accordance with Provision 6.3.5.4.

ATTACHMENT D – STANDARD PROVISIONS

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ATTACHMENT D – STANDARD PROVISIONS

1. STANDARD PROVISIONS – PERMIT COMPLIANCE

1.1. Duty to Comply

- 1.1.1. The Discharger must comply with all of the terms, requirements, and conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; denial of a permit renewal application; or a combination thereof. (40 C.F.R. § 122.41(a); Wat. Code, §§ 13261, 13263, 13265, 13268, 13000, 13001, 13304, 13350, 13385.)
- 1.1.2. The Discharger shall comply with effluent standards or prohibitions established under CWA section 307(a) for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not yet been modified to incorporate the requirement. (40 C.F.R. § 122.41(a)(1).)

1.2. Need to Halt or Reduce Activity Not a Defense. It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order. (40 C.F.R. § 122.41(c).)

1.3. Duty to Mitigate. The Discharger shall take all reasonable steps to minimize or prevent any discharge in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment. (40 C.F.R. § 122.41(d).)

1.4. Proper Operation and Maintenance. The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order. (40 C.F.R. § 122.41(e).)

1.5. Property Rights

- 1.5.1. This Order does not convey any property rights of any sort or any exclusive privileges. (40 C.F.R. § 122.41(g).)
- 1.5.2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of state or local law or regulations. (40 C.F.R. § 122.5(c).)

1.6. Inspection and Entry. The Discharger shall allow the Regional Water Board, State Water Board, U.S. EPA, and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i); Wat. Code, §§ 13267, 13383):

- 1.6.1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(i); 40 C.F.R. § 122.41(i)(1); Wat. Code, §§ 13267, 13383);
- 1.6.2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(2); Wat. Code, §§ 13267, 13383);
- 1.6.3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order (33 U.S.C. § 1318(a)(4)(B)(ii); 40 C.F.R. § 122.41(i)(3); Wat. Code, §§ 13267, 13383); and
- 1.6.4. Sample or monitor, at reasonable times, for the purposes of ensuring Order compliance or as otherwise authorized by the CWA or the Water Code, any substances or parameters at any location. (33 U.S.C. § 1318(a)(4)(B); 40 C.F.R. § 122.41(i)(4); Wat. Code, §§ 13267, 13383.)

1.7. Bypass

1.7.1. Definitions

- 1.7.1.1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. (40 C.F.R. § 122.41(m)(1)(i).)
- 1.7.1.2. "Severe property damage" means substantial physical damage to property; damage to the treatment facilities, which causes them to become inoperable; or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. (40 C.F.R. § 122.41(m)(1)(ii).)
- 1.7.2. **Bypass not exceeding limitations.** The Discharger may allow any bypass to occur that does not cause exceedances of effluent limitations, but only if it is for essential maintenance to ensure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions – Permit Compliance sections 1.7.3, 1.7.4, and 1.7.5 below. (40 C.F.R. § 122.41(m)(2).)

- 1.7.3. **Prohibition of bypass.** Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless (40 C.F.R. § 122.41(m)(4)(i)):
- 1.7.3.1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage (40 C.F.R. § 122.41(m)(4)(i)(A));
 - 1.7.3.2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance (40 C.F.R. § 122.41(m)(4)(i)(B)); and
 - 1.7.3.3. The Discharger submitted notice to the Regional Water Board as required under Standard Provisions – Permit Compliance section 1.7.5 below. (40 C.F.R. § 122.41(m)(4)(i)(C).)
- 1.7.4. **Approval.** The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions – Permit Compliance section 1.7.3 above. (40 C.F.R. § 122.41(m)(4)(ii).)
- 1.7.5. **Notice**
- 1.7.5.1. **Anticipated bypass.** If the Discharger knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least 10 days before the date of the bypass. The notice shall be sent to the Regional Water Board. As of December 21, 2025, a notice shall also be submitted electronically to the initial recipient defined in Standard Provisions – Reporting section 5.10 below. Notices shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(m)(3)(i).)
 - 1.7.5.2. **Unanticipated bypass.** The Discharger shall submit a notice of an unanticipated bypass as required in Standard Provisions – Reporting section 5.5 below (24-hour notice). The notice shall be sent to the Regional Water Board. As of December 21, 2025, a notice shall also be submitted electronically to the initial recipient defined in Standard Provisions – Reporting section 5.10 below. Notices shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(m)(3)(ii).)
- 1.8. **Upset.** Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Discharger. An upset does not include noncompliance to the extent caused by operational error,

improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. (40 C.F.R. § 122.41(n)(1).)

- 1.8.1. **Effect of an upset.** An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Standard Provisions – Permit Compliance section 1.8.2 below are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. (40 C.F.R. § 122.41(n)(2).)
- 1.8.2. **Conditions necessary for a demonstration of upset.** A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that (40 C.F.R. § 122.41(n)(3)):
 - 1.8.2.1. An upset occurred and that the Discharger can identify the cause(s) of the upset (40 C.F.R. § 122.41(n)(3)(i));
 - 1.8.2.2. The permitted facility was, at the time, being properly operated (40 C.F.R. § 122.41(n)(3)(ii));
 - 1.8.2.3. The Discharger submitted notice of the upset as required in Standard Provisions – Reporting section 5.5.2.2 below (24-hour notice) (40 C.F.R. § 122.41(n)(3)(iii)); and
 - 1.8.2.4. The Discharger complied with any remedial measures required under Standard Provisions – Permit Compliance section 1.3 above. (40 C.F.R. § 122.41(n)(3)(iv).)
- 1.8.3. **Burden of proof.** In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof. (40 C.F.R. § 122.41(n)(4).)

2. STANDARD PROVISIONS – PERMIT ACTION

- 2.1. **General.** This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition. (40 C.F.R. § 122.41(f).)
- 2.2. **Duty to Reapply.** If the Discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the Discharger must apply for and obtain a new permit. (40 C.F.R. § 122.41(b).)

2.3. Transfers. This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water Board may require modification or revocation and reissuance of the Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and Water Code. (40 C.F.R. §§ 122.41(l)(3), 122.61.)

3. STANDARD PROVISIONS – MONITORING

- 3.1.** Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. (40 C.F.R. § 122.41(j)(1).)
- 3.2.** Monitoring must be conducted according to test procedures approved under 40 C.F.R. part 136 for the analyses of pollutants unless another method is required under 40 C.F.R. chapter 1, subchapter N. Monitoring must be conducted according to sufficiently sensitive test methods approved under 40 C.F.R. part 136 for the analysis of pollutants or pollutant parameters or as required under 40 C.F.R. chapter 1, subchapter N. For the purposes of this paragraph, a method is sufficiently sensitive when:
- 3.2.1. The method minimum level (ML) is at or below the level of the most stringent effluent limitation established in the permit for the measured pollutant or pollutant parameter, and either the method ML is at or below the level of the most stringent applicable water quality criterion for the measured pollutant or pollutant parameter or the method ML is above the applicable water quality criterion but the amount of the pollutant or pollutant parameter in the facility's discharge is high enough that the method detects and quantifies the level of the pollutant or pollutant parameter in the discharge; or
- 3.2.2. The method has the lowest ML of the analytical methods approved under 40 C.F.R. part 136 or required under 40 C.F.R. chapter 1, subchapter N, for the measured pollutant or pollutant parameter.

In the case of pollutants or pollutant parameters for which there are no approved methods under 40 C.F.R. part 136 or otherwise required under 40 C.F.R. chapter 1, subchapter N, monitoring must be conducted according to a test procedure specified in this Order for such pollutants or pollutant parameters. (40 C.F.R. §§ 122.21(e)(3), 122.41(j)(4), 122.44(i)(1)(iv).)

4. STANDARD PROVISIONS – RECORDS

- 4.1.** The Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report, or application. This period may be extended by request of the Regional Water Board Executive Officer at any time. (40 C.F.R. § 122.41(j)(2).)

4.2. Records of monitoring information shall include:

- 4.2.1. The date, exact place, and time of sampling or measurements (40 C.F.R. § 122.41(j)(3)(i));
- 4.2.2. The individual(s) who performed the sampling or measurements (40 C.F.R. § 122.41(j)(3)(ii));
- 4.2.3. The date(s) analyses were performed (40 C.F.R. § 122.41(j)(3)(iii));
- 4.2.4. The individual(s) who performed the analyses (40 C.F.R. § 122.41(j)(3)(iv));
- 4.2.5. The analytical techniques or methods used (40 C.F.R. § 122.41(j)(3)(v)); and
- 4.2.6. The results of such analyses. (40 C.F.R. § 122.41(j)(3)(vi).)

4.3. Claims of confidentiality for the following information will be denied (40 C.F.R. § 122.7(b)):

- 4.3.1. The name and address of any permit applicant or Discharger (40 C.F.R. § 122.7(b)(1)); and
- 4.3.2. Permit applications and attachments, permits, and effluent data. (40 C.F.R. § 122.7(b)(2).)

5. STANDARD PROVISIONS – REPORTING

5.1. Duty to Provide Information. The Discharger shall furnish to the Regional Water Board, State Water Board, or U.S. EPA within a reasonable time, any information that the Regional Water Board, State Water Board, or U.S. EPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Regional Water Board, State Water Board, or U.S. EPA copies of records required to be kept by this Order. (40 C.F.R. § 122.41(h); Wat. Code, §§ 13267, 13383.)

5.2. Signatory and Certification Requirements

- 5.2.1. All applications, reports, or information submitted to the Regional Water Board, State Water Board, and/or U.S. EPA shall be signed and certified in accordance with Standard Provisions – Reporting sections 5.2.2, 5.2.3, 5.2.4, 5.2.5, and 5.2.6 below. (40 C.F.R. § 122.41(k).)
- 5.2.2. For a corporation, all permit applications shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (2) the

manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to ensure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. (40 C.F.R. § 122.22(a)(1).)

For a partnership or sole proprietorship, all permit applications shall be signed by a general partner or the proprietor, respectively. (40 C.F.R. § 122.22(a)(2).)

For a municipal, state, federal, or other public agency, all permit applications shall be signed by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of U.S. EPA). (40 C.F.R. § 122.22(a)(3).)

- 5.2.3. All reports required by this Order and other information requested by the Regional Water Board, State Water Board, or U.S. EPA shall be signed by a person described in Standard Provisions – Reporting section 5.2.2 above, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 5.2.3.1. The authorization is made in writing by a person described in Standard Provisions – Reporting section 5.2.2 above (40 C.F.R. § 122.22(b)(1));
 - 5.2.3.2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.) (40 C.F.R. § 122.22(b)(2)); and
 - 5.2.3.3. The written authorization is submitted to the Regional Water Board and State Water Board. (40 C.F.R. § 122.22(b)(3).)
- 5.2.4. If an authorization under Standard Provisions – Reporting section 5.2.3 above is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Standard Provisions – Reporting section 5.2.3 above must be

submitted to the Regional Water Board and State Water Board prior to or together with any reports, information, or applications to be signed by an authorized representative. (40 C.F.R. § 122.22(c).)

- 5.2.5. Any person signing a document under Standard Provisions – Reporting section 5.2.2 or 5.2.3 above shall make the following certification:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.” (40 C.F.R. § 122.22(d).)

- 5.2.6. Any person providing the electronic signature for documents described in Standard Provisions – Reporting sections 5.2.1, 5.2.2, or 5.2.3 that are submitted electronically shall meet all relevant requirements of Standard Provisions – Reporting section 5.2, and shall ensure that all relevant requirements of 40 C.F.R. part 3 (Cross-Media Electronic Reporting) and 40 C.F.R. part 127 (NPDES Electronic Reporting Requirements) are met for that submission. (40 C.F.R. § 122.22(e).)

5.3. Monitoring Reports

- 5.3.1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program (Attachment E) in this Order. (40 C.F.R. § 122.41(l)(4).)
- 5.3.2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or State Water Board. All reports and forms must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting section 5.10 and comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. (40 C.F.R. § 122.41(l)(4)(i).)
- 5.3.3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 C.F.R. part 136, or another method required for an industry-specific waste stream under 40 C.F.R. chapter 1, subchapter N, the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Regional Water Board or State Water Board. (40 C.F.R. § 122.41(l)(4)(ii).)

5.3.4. Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this Order. (40 C.F.R. § 122.41(l)(4)(iii).)

5.4. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order shall be submitted no later than 14 days following each schedule date. (40 C.F.R. § 122.41(l)(5).)

5.5. Twenty-Four Hour Reporting

5.5.1. The Discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written report shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. The report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

For noncompliance related to combined sewer overflows, sanitary sewer overflows, or bypass events, these reports must include the data described above (with the exception of time of discovery) as well as the type of event (i.e., combined sewer overflow, sanitary sewer overflow, or bypass event), type of overflow structure (e.g., manhole, combined sewer overflow outfall), discharge volume untreated by the treatment works treating domestic sewage, types of human health and environmental impacts of the event, and whether the noncompliance was related to wet weather.

As of December 21, 2025, all reports related to combined sewer overflows, sanitary sewer overflows, or bypass events must be submitted to the Regional Water Board and must be submitted electronically to the initial recipient defined in Standard Provisions – Reporting section 5.10. The reports shall comply with 40 C.F.R. part 3, 40 C.F.R. section 122.22, and 40 C.F.R. part 127. The Regional Water Board may also require the Discharger to electronically submit reports not related to combined sewer overflows, sanitary sewer overflows, or bypass events under this section. (40 C.F.R. § 122.41(l)(6)(i).)

5.5.2. The following shall be included as information that must be reported within 24 hours:

5.5.2.1. Any unanticipated bypass that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(A).)

5.5.2.2. Any upset that exceeds any effluent limitation in this Order. (40 C.F.R. § 122.41(l)(6)(ii)(B).)

5.5.3. The Regional Water Board may waive the above required written report on a case-by-case basis if an oral report has been received within 24 hours. (40 C.F.R. § 122.41(I)(6)(ii)(B).)

5.6. Planned Changes. The Discharger shall give notice to the Regional Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when (40 C.F.R. § 122.41(I)(1)):

5.6.1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 C.F.R. section 122.29(b) (40 C.F.R. § 122.41(I)(1)(i)); or

5.6.2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in this Order unless the discharge is an existing manufacturing, commercial, mining, or silvicultural discharge as referenced in 40 C.F.R. section 122.42(a). (40 C.F.R. § 122.41(I)(1)(ii).) If the discharge is an existing manufacturing, commercial, mining, or silvicultural discharge as referenced in 40 C.F.R. section 122.42(a), this notification applies to pollutants that are subject neither to effluent limitations in this Order nor to notification requirements under 40 C.F.R. section 122.42(a)(1) (see Additional Provisions – Notification Levels section 7.1.1). (40 C.F.R. § 122.41(I)(1)(ii).)

5.7. Anticipated Noncompliance. The Discharger shall give advance notice to the Regional Water Board of any planned changes in the permitted facility or activity that may result in noncompliance with this Order's requirements. (40 C.F.R. § 122.41(I)(2).)

5.8. Other Noncompliance. The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting sections 5.3, 5.4, and 5.5 above at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting section 5.5 above. For noncompliance related to combined sewer overflows, sanitary sewer overflows, or bypass events, these reports shall contain the information described in Standard Provision – Reporting section 5.5 and the applicable required data in appendix A to 40 C.F.R. part 127. The Regional Water Board may also require the Discharger to electronically submit reports not related to combined sewer overflows, sanitary sewer overflows, or bypass events under this section. (40 C.F.R. § 122.41(I)(7).)

5.9. Other Information. When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, State Water Board, or U.S. EPA, the Discharger shall promptly submit such facts or information. (40 C.F.R. § 122.41(I)(8).)

5.10. Initial Recipient for Electronic Reporting Data. The owner, operator, or duly authorized representative is required to electronically submit NPDES information specified in appendix A to 40 C.F.R. part 127 to the initial recipient defined in 40 C.F.R. § 7.2(b). U.S. EPA will identify and publish the list of initial recipients on its website and in the Federal Register, by state and by NPDES data group [see 40 C.F.R. § 127.2(c)]. U.S. EPA will update and maintain this list. (40 C.F.R. § 122.41(l)(9).)

6. STANDARD PROVISIONS – ENFORCEMENT

6.1. The Regional Water Board is authorized to enforce the terms of this permit under several provisions of the Water Code, including, but not limited to, Water Code sections 13268, 13385, 13386, and 13387.

7. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

7.1. Non-Municipal Facilities. Existing manufacturing, commercial, mining, and silvicultural Dischargers shall notify the Regional Water Board as soon as they know or have reason to believe (40 C.F.R. § 122.42(a)):

7.1.1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following “notification levels” (40 C.F.R. § 122.42(a)(1)):

7.1.1.1. 100 micrograms per liter ($\mu\text{g/L}$) (40 C.F.R. § 122.42(a)(1)(i));

7.1.1.2. 200 $\mu\text{g/L}$ for acrolein and acrylonitrile; 500 $\mu\text{g/L}$ for 2,4 dinitrophenol and 2-methyl 4,6 dinitrophenol; and 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(1)(ii));

7.1.1.3. Five (5) times the maximum concentration reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(1)(iii)); or

7.1.1.4. The level established by the Regional Water Board in accordance with 40 C.F.R. section 122.44(f). (40 C.F.R. § 122.42(a)(1)(iv).)

7.1.2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following “notification levels” (40 C.F.R. § 122.42(a)(2)):

7.1.2.1. 500 micrograms per liter ($\mu\text{g/L}$) (40 C.F.R. § 122.42(a)(2)(i));

7.1.2.2. 1 milligram per liter (mg/L) for antimony (40 C.F.R. § 122.42(a)(2)(ii));

7.1.2.3. Ten (10) times the maximum concentration reported for that pollutant in the Report of Waste Discharge (40 C.F.R. § 122.42(a)(2)(iii)); or

- 7.1.2.4. The level established by the Regional Water Board in accordance with 40 C.F.R. section 122.44(f). (40 C.F.R. § 122.42(a)(2)(iv).)

7.2 Publicly Owned Treatment Works (POTWs)

- 7.2.1. All POTWs shall provide adequate notice to the Regional Water Board of any new introduction of pollutants into the POTW from an indirect discharger that would be subject to CWA sections 301 or 306 if it were directly discharging those pollutants (40 C.F.R. § 122.42(b)(1)).
- 7.2.2. All POTWs shall provide adequate notice to the Regional Water Board of any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of this Order. (40 C.F.R. § 122.42(b)(2).)
- 7.2.3. Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW. (40 C.F.R. § 122.42(b)(3).)

ATTACHMENT E – MONITORING AND REPORTING PROGRAM

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM

Clean Water Act (CWA) section 308 and 40 C.F.R. sections 122.41(h), (j)-(l), 122.44(i), and 122.48 require that all NPDES permits specify monitoring and reporting requirements. Water Code section 13383 also authorizes the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. This MRP establishes monitoring, reporting, and recordkeeping requirements that implement the federal and State laws and regulations.

1. GENERAL MONITORING PROVISIONS

- 1.1. The Discharger shall comply with this MRP. The Executive Officer may amend this MRP pursuant to 40 C.F.R. section 122.63. If any discrepancies exist between this MRP and the “Regional Standard Provisions, and Monitoring and Reporting Requirements (Supplement to Attachment D) for NPDES Wastewater Discharge Permits” (Attachment G), this MRP shall prevail.
- 1.2. The Discharger shall conduct all monitoring in accordance with Attachment D section 3, as supplemented by Attachment G. Equivalent test methods must be more sensitive than those specified in 40 C.F.R. section 136 and must be specified in this permit.
- 1.3. For the analysis of monitoring samples, the Discharger shall use laboratories certified by the State Water Resources Control Board (State Water Board) in accordance with Water Code section 13176 and shall obtain quality assurance/quality control data with laboratory reports. For any onsite field tests (e.g., turbidity, pH, temperature, dissolved oxygen, conductivity, disinfectant residual) analyzed by a noncertified laboratory, the Discharger shall implement a Quality Assurance-Quality Control Program. The Discharger shall keep a manual onsite containing the steps followed in this program and shall demonstrate sufficient capability to adequately perform these field tests (e.g., qualified and trained employees, properly calibrated and maintained field instruments). The program shall conform to U.S. EPA guidelines or other approved procedures.
- 1.4. The Discharger shall ensure that the results of the Discharge Monitoring Report-Quality Assurance (DMR-QA) Study or most recent Water Pollution Performance Evaluation Study are submitted annually to the State Water Board at the following address:

State Water Resources Control Board;
Quality Assurance Program Officer;
Office of Information Management and Analysis;
1001 I Street
Sacramento, CA 95814

2. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements of this Order:

Table E-1. Monitoring Locations

Discharge Point	Monitoring Location	Monitoring Location Description
Influent	INF-001	A point in the treatment plant headworks at which all waste tributary to the treatment system is present and preceding any phase of treatment.
Effluent	EFF-001	A point in the treatment plant outfall between the point of discharge and the point at which all waste tributary to the outfall is present. This location may be the same as Monitoring Location EFF-001D.
Effluent (disinfection system)	EFF-001D	A point in the disinfection system at which adequate contact with the disinfectant is assured.
Effluent (recycled water)	REC-001	Any point after full treatment, including disinfection, that represents all wastewater directed offsite for recycled water distribution and thus not discharged to Central San Francisco Bay.

3. INFLUENT MONITORING REQUIREMENTS

The Discharger shall monitor treatment plant influent at Monitoring Location INF-001 as follows:

Table E-2. Influent Monitoring

Parameter	Unit	Sample Type	Minimum Sampling Frequency
Flow ^[1]	MG/MGD	Continuous	Continuous/D
Biochemical Oxygen Demand (5-day @ 20°C) (BOD)	mg/L	C-24	1/Quarter
Total Suspended Solids (TSS)	mg/L	C-24	1/Month
Cyanide ^[2]	µg/L	Grab	1/Year

Footnotes:

^[1] The following flow information shall be reported in quarterly self-monitoring reports:

- Daily average flow rate (MGD)
- Total monthly flow volume (MG)

^[2] The Discharger may, at its option, analyze for cyanide as weak acid dissociable cyanide using protocols specified in 40 C.F.R. part 136, or an equivalent method in the latest Standard Method edition.

4. EFFLUENT MONITORING REQUIREMENTS

The Discharger shall monitor treatment plant effluent at Monitoring Location EFF-001, or, for enterococcus and total coliform bacteria, EFF-001D as follows:

Table E-3. Effluent Monitoring

Parameter	Unit	Sample Type	Minimum Sampling Frequency
Flow ^[1]	MG/MGD	Continuous	Continuous/D
BOD ^[2]	mg/L	C-24	1/Quarter
TSS ^[2]	mg/L	C-24	1/Month
Oil and Grease	mg/L	Grab	1/Year
pH	standard units	Grab	5/Week
Chlorine, Total Residual ^[3,4]	mg/L	Grab	Continuous/D or 5/Week
Enterococcus Bacteria ^[5]	CFU/100mL ^[6]	Grab	1/Quarter ^[7]
Total Coliform Bacteria	MPN/100mL ^[6]	Grab	1/Quarter
Acute Toxicity ^[8]	% survival	C-24	1/Year
Ammonia, Total	mg/L	C-24	1/Quarter
Copper, Total Recoverable	µg/L	C-24	1/Quarter
Cyanide, Total ^[9]	µg/L	Grab	1/Quarter
Selenium	µg/L	C-24	Once
Zinc, Total Recoverable	µg/L	C-24	1/Quarter
Priority Pollutants ^[10]	µg/L	Grab	Once

Footnotes:

^[1] The following flow information shall be reported in quarterly self-monitoring reports:

- Daily average flow rate (MGD)
- Total monthly flow volume (MG)

^[2] BOD and TSS effluent samples shall be collected concurrently with BOD and TSS influent samples. BOD and TSS percent removal shall be reported for each calendar month (using the most recent sample results) in accordance with section 4.2 of this Order.

^[3] Effluent residual chlorine concentrations shall be monitored continuously or, at a minimum, five times per week. The Discharger shall describe all excursions of the chlorine limit in the transmittal letter of self-monitoring reports as required by Attachment G section 5.3.1.1. If monitoring continuously, the Discharger shall report through data upload to CIWQS, from discrete readings of the continuous monitoring every hour on the hour, the maximum for each day and any other discrete hourly reading that exceed the effluent limit, and, for the purpose of mandatory minimum penalties required by Water Code section 13385(i), compliance shall be based only on these discrete readings. The Discharger shall retain continuous monitoring readings for at least three years. The Regional Water Board reserves the right to use all continuous monitoring data for discretionary enforcement.

The Discharger may elect to use a continuous on-line monitoring system for measuring or determining that residual dechlorinating agent is present. This monitoring system may be used to prove that anomalous residual chlorine exceedances measured by on-line chlorine analyzers are false positives and are not valid total residual chlorine detections because it is chemically improbable to have chlorine present in the presence of a dechlorinating agent. If Regional Water Board staff finds convincing evidence that chlorine residual exceedances are false positives, the exceedances are not violations of this Order's total chlorine residual effluent limit.

^[4] Monitoring for total residual chlorine is not required when chlorine is not used for disinfection (e.g., following commencement of UV disinfection; see Provision 6.3.5.4).

^[5] U.S. EPA Method 1600 or an equivalent method is suggested to measure culturable enterococci.

^[6] Results may be reported as either Most Probable Number (MPN)/100 mL if the laboratory method used provides results in MPN/100 mL or Colony Forming Units (CFU)/100 mL if the laboratory method used provides results in CFU/100 mL.

^[7] These samples shall be collected monthly from June to September. If the six-week rolling geometric mean enterococcus effluent limitation is exceeded, the Discharger shall conduct sampling once per week for at least three consecutive months. If full compliance with the effluent limitation is demonstrated after the three-month period, the Discharger may return to its routine sampling frequency.

^[8] Acute toxicity tests shall be performed in accordance with MRP section 5.1. Samples may be collected prior to disinfection.

^[9] The Discharger may, at its option, analyze for cyanide as weak acid dissociable cyanide using protocols specified in 40 C.F.R. part 136, or an equivalent method in the latest Standard Method edition.

^[10] The Discharger shall monitor for the pollutants listed in Attachment G, Table B.

5. TOXICITY MONITORING REQUIREMENTS

5.1. Acute Toxicity

- 5.1.1. Compliance with the acute toxicity effluent limitations shall be evaluated at Monitoring Location EFF-001 by measuring survival of test organisms exposed to 96-hour static renewal bioassays.
- 5.1.2. Test organisms shall be rainbow trout (*Onchorhynchus mykiss*). Alternatively, the Executive Officer may specify a more sensitive organism or, if testing a particular organism proves unworkable, the most sensitive organism available.
- 5.1.3. All bioassays shall be performed according to the most up-to-date protocols in 40 C.F.R. part 136, currently *Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms*, 5th Edition (EPA-821-R-02-012). If these protocols prove unworkable, the Executive Officer and the Environmental Laboratory Accreditation Program may grant exceptions in writing upon the Discharger's request with justification.
- 5.1.4. If the Discharger demonstrates that specific identifiable substances in the discharge are rapidly rendered harmless upon discharge to the receiving water, compliance with the acute toxicity limit may be determined after test samples are adjusted to remove the influence of those substances. Written acknowledgement that the Executive Officer concurs with the Discharger's demonstration and that the adjustment will not remove the influence of other substances must be obtained prior to any such adjustment. The Discharger is authorized to adjust the effluent pH in order to suppress the level of un-ionized (free) ammonia. This adjustment shall be achieved by continuously monitoring test tank pH and automatic addition of analytical grade acid as needed, using a combination of continuous pH-sensor/analyzer and pump.
- 5.1.5. Effluent used for fish bioassays must be dechlorinated prior to testing. If biological growth in the dechlorinated effluent sample line is a potential problem, chlorinated effluent that is dechlorinated separately from the plant dechlorination process may be used for the bioassay test. The sample may be taken from final secondary effluent prior to disinfection. Bioassay monitoring shall include, on a daily basis, pH, dissolved oxygen, ammonia (if toxicity is observed), temperature, hardness, and alkalinity. These results shall be reported. If final or intermediate results of an acute bioassay test indicate a violation or threatened violation (e.g., the percentage of surviving test organisms is less than 70 percent), the Discharger shall initiate a new test as soon as practical and shall investigate the cause of the mortalities and report its findings in the next self-monitoring report. The Discharger shall repeat the test until a test fish survival rate of 90 percent or greater is observed. If the control fish survival rate is less than 90 percent, the bioassay test shall be restarted

with new fish and shall continue as soon as practical until an acceptable test is completed (i.e., control fish survival rate is 90 percent or greater).

6. RECEIVING WATER MONITORING REQUIREMENTS

The Discharger shall continue to participate in the Regional Monitoring Program, which collects data on pollutants and toxicity in San Francisco Bay water, sediment, and biota.

7. RECYCLED WATER MONITORING

The Discharger shall comply with the following recycled water monitoring requirements. The Executive Officer may modify these requirements to reflect any changes made to the requirements of State Water Board Order WQ 2019-0037 EXEC (Amending Monitoring and Reporting Programs for Waste Discharge Requirements, National Pollutant Discharge Elimination System Permits, Water Reclamation Requirements, Master Recycling Permits, and General Waste Discharge Requirements).

- 7.1. **Influent Monitoring.** The Discharger shall monitor the monthly volume of influent to the treatment plant.
- 7.2. **Production Monitoring.** The Discharger shall monitor the monthly volume for each level of treated effluent (e.g., secondary or tertiary) from the treatment plant at Monitoring Location REC-001.
- 7.3. **Discharge Monitoring.** The Discharger shall monitor the monthly volumes discharged to each of the following, for each level of treated effluent (e.g., secondary or tertiary) from the treatment plant:
 - 7.3.1. Inland surface waters, specifying volumes required to maintain minimum instream flow;
 - 7.3.2. Enclosed bays, estuaries and coastal lagoons, and ocean waters;
 - 7.3.3. Natural systems, such as wetlands, wildlife habitats, and duck clubs, where augmentation or restoration has occurred, and that are not part of a wastewater treatment or water recycling treatment plant;
 - 7.3.4. Underground injection wells, such as those classified by U.S. EPA's Underground Injection Control Program, excluding groundwater recharge via subsurface application intended to reduce seawater intrusion into a coastal aquifer with a seawater interface; and
 - 7.3.5. Land, where beneficial use is not taking place, including evaporation or percolation ponds, overland flow, or spray irrigation disposal, excluding pastures or fields with harvested crops.

7.4. Reuse Monitoring. The Discharger shall monitor the following in compliance with California Code of Regulations, title 22:

- 7.4.1. Monthly volume of recycled water distributed; and
- 7.4.2. Annual volumes of treated wastewater distributed for use in each of the use categories listed below:
 - 7.4.2.1. Agricultural irrigation: pasture or crop irrigation;
 - 7.4.2.2. Landscape irrigation: irrigation of parks, greenbelts, and playgrounds; school yards; athletic fields; cemeteries; residential landscaping, common areas; commercial landscaping; industrial landscaping; and freeway, highway, and street landscaping;
 - 7.4.2.3. Golf course irrigation: irrigation of golf courses, including water used to maintain aesthetic impoundments within golf courses;
 - 7.4.2.4. Commercial application: commercial facilities, business use (such as laundries and office buildings), car washes, retail nurseries, and appurtenant landscaping that is not separately metered;
 - 7.4.2.5. Industrial application: manufacturing facilities, cooling towers, process water, and appurtenant landscaping that is not separately metered;
 - 7.4.2.6. Geothermal energy production: augmentation of geothermal fields;
 - 7.4.2.7. Other non-potable uses: including but not limited to dust control, flushing sewers, fire protection, fill stations, snow making, and recreational impoundments;
 - 7.4.2.8. Groundwater recharge: the planned use of recycled water for replenishment of a groundwater basin or an aquifer that has been designated as a source of water supply for a public water system. Includes surface or subsurface application, except for seawater intrusion barrier use;
 - 7.4.2.9. Seawater intrusion barrier: groundwater recharge via subsurface application intended to reduce seawater intrusion into a coastal aquifer with a seawater interface;
 - 7.4.2.10. Reservoir water augmentation: the planned placement of recycled water into a raw surface water reservoir used as a source of domestic drinking water supply for a public water system, as defined in Health and Safety Code section 116275, or into a constructed system conveying water to such a reservoir (Water Code § 13561);

- 7.4.2.11. Raw water augmentation: the planned placement of recycled water into a system of pipelines or aqueducts that delivers raw water to a drinking water treatment plant that provides water to a public water system as defined in Health and Safety Code section 116275 (Water Code § 13561); and
- 7.4.2.12. Other potable uses: both indirect and direct potable reuse other than for groundwater recharge, seawater intrusion barrier, reservoir water augmentation, or raw water augmentation.

8. REPORTING REQUIREMENTS

8.1. General Monitoring and Reporting Requirements. The Discharger shall comply with all Standard Provisions (Attachments D and G) related to monitoring, reporting, and recordkeeping.

8.2. Self-Monitoring Reports (SMRs)

8.2.1. **SMR Format.** The Discharger shall electronically submit SMRs using the State Water Board's [California Integrated Water Quality System \(CIWQS\) Program website](http://waterboards.ca.gov/water_issues/programs/ciwqs) (waterboards.ca.gov/water_issues/programs/ciwqs). The CIWQS website will provide additional information for SMR submittal in the event of a planned service interruption for electronic submittal.

8.2.2. **SMR Due Dates and Contents.** The Discharger shall submit SMRs by the due dates, and with the contents, specified below:

8.2.2.1. **Quarterly SMRs** — Quarterly SMRs shall be due 30 days after the end of each calendar quarter (January 1 – March 31, April 1 – June 30, July 1 – September 30, and October 1 – December 31) covering that quarter. Each SMR shall contain the applicable items described in Provision 6.3.2 (Effluent Characterization Study and Report) of the Order, Attachment D section 5.2, and Attachment G section 5.3. Each SMR shall include all new monitoring results obtained since the last SMR was submitted. If the Discharger monitors any pollutant more frequently than required by this Order, the Discharger shall include the results of such monitoring in the calculations and reporting for the SMR.

8.2.2.2. **Annual SMR** — Annual SMRs shall be due February 1 each year, covering the previous calendar year. The annual SMR shall contain the applicable items described in Provisions 6.3.2 (Effluent Characterization Study and Report) and 6.3.4.3 (Anaerobically-Digestible Material) of the Order and Attachment G section 5.3.1.6.

8.2.3. **Specifications for Submitting SMRs to CIWQS.** The Discharger shall submit analytical results and other information using one of the following methods:

Table E-4. CIWQS Reporting

Parameter	Method of Reporting: EDF/CDF data upload	Attached File
All parameters identified in influent, effluent, and receiving water monitoring tables (except Dissolved Oxygen and Temperature)	Required for all results	-
Dissolved Oxygen, Temperature	Required for monthly maximum and minimum results only ^[1]	Discharger may use this method for all results or keep records
Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Cyanide, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc, Dioxins & Furans (by U.S. EPA Method 1613), Other Pollutants (by U.S. EPA Methods 601, 602, 608, 610, 614, 624, and 625)	Required for all results ^[2]	-
Volume and Duration of Blended Discharge ^[3]	Required for all blended effluent discharges	-
Analytical Method	Not required (Discharger may select "data unavailable") ^[1]	-
Collection Time, Analysis Time	Not required	-

Footnotes:

- ^[1] The Discharger shall continue to monitor at the minimum frequency specified in this MRP, keep records of the measurements, and make the records available upon request.
- ^[2] These parameters require EDF/CDF data upload or manual entry regardless of whether monitoring is required by this MRP or other provisions of this Order (except for biosolids, sludge, or ash provisions).
- ^[3] The requirement for volume and duration of blended discharge applies only if this Order authorizes the Discharger to discharge blended effluent.

The Discharger shall arrange all reported data in a tabular format and summarize data to clearly illustrate whether the Facility is operating in compliance with effluent limitations. The Discharger is not required to duplicate the submittal of data entered in a tabular format within CIWQS. When electronic submittal of data is required and CIWQS does not provide for entry into a tabular format, the Discharger shall electronically submit the data in a tabular format as an attachment.

8.2.4. Monitoring Periods. Monitoring periods for all required monitoring shall be as set forth below unless otherwise specified:

Table E-5. Monitoring Periods

Sampling Frequency	Monitoring Period Begins On...	Monitoring Period
Continuous/D	Order effective date	All times
1/Hour	Order effective date	Every hour on the hour
1/Day	Order effective date	Any 24-hour period that reasonably represents a calendar day for sampling purposes (e.g., beginning at midnight and continuing through 11:59 p.m.)

Sampling Frequency	Monitoring Period Begins On...	Monitoring Period
1/Week 2/Week 4/Week 5/Week	First Sunday following or on Order effective date	Sunday through Saturday
1/Month	First day of calendar month following or on Order effective date	First day of calendar month through last day of calendar month
1/Quarter	Closest January 1, April 1, July 1, or October 1 before or after Order effective date ^[1]	January 1 through March 31 July 1 through September 30 April 1 through June 30 October 1 through December 31
1/Year	Closest January 1 before or after Order effective date ^[1]	January 1 through December 31
2/Year	Closest November 1 or February 1 before or after Order effective date ^[1]	Once after the first storm of the season during the interval from November 1 through January 31, and once during the interval from February 1 through May 31
1/Discharge	First moment of discharge	Any time during a discharge event, defined as all discharges that occur within a 24-hour period following the start of the initial discharge
Once	Order effective date	Once during the Order term

Footnote:

^[1] Monitoring performed during the previous order term may be used to satisfy monitoring required by this Order.

8.2.5. RL and MDL Reporting. The Discharger shall report with each sample result the Reporting Level (RL) and Method Detection Limit (MDL) as determined by the procedure in 40 C.F.R. part 136. The Discharger shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:

8.2.5.1. Sample results greater than or equal to the RL shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).

8.2.5.2. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.

For purposes of data collection, the Discharger shall require the laboratory to write the estimated chemical concentration next to DNQ. The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (\pm a percentage of the reported value), numerical ranges (low to high), or any other means the laboratory considers appropriate.

8.2.5.3. Sample results less than the laboratory's MDL shall be reported as "Not Detected", or ND.

- 8.2.5.4. The Discharger shall instruct laboratories to establish calibration standards so that the minimum level (ML) value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time is the Discharger to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.
- 8.2.6. **Compliance Determination.** Compliance with effluent limitations shall be determined using sample reporting protocols defined above, in the Fact Sheet, and in Attachments A, D, and G. For purposes of reporting and administrative enforcement by the Regional Water Board and State Water Board, the Discharger shall be deemed out of compliance with effluent limitations if the concentration of the pollutant in the monitoring sample is greater than the effluent limitation and, if applicable, greater than or equal to the RL.
- 8.3. **Discharge Monitoring Reports (DMRs).** DMRs are U.S. EPA reporting requirements. The Discharger shall electronically certify and submit DMRs together with SMRs using Electronic Self-Monitoring Reports module eSMR 2.5 or the latest upgraded version. Electronic DMR submittal shall be in addition to electronic SMR submittal. Information about electronic DMR submittal is available at the [DMR website](#) (waterboards.ca.gov/water_issues/programs/discharge_monitoring).
- 8.4 **Recycled Water Reports.** The Discharger shall electronically submit annual reports to the State Water Board by April 30 each year covering the previous calendar year using the [State Water Board's GeoTracker website](#) (geotracker.waterboards.ca.gov) under a site-specific global identification number. For the 2021 calendar year, the Discharger shall submit a report by April 30, 2022, covering January through December 2021. The annual report shall include the elements specified in section 7, above.

Information for setting up and using the GeoTracker system can be found in the ESI Guide for Responsible Parties document on the [State Water Board's website](#) (waterboards.ca.gov/ust/electronic_submittal/index.html).

ATTACHMENT F – FACT SHEET

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ATTACHMENT F – FACT SHEET

This Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order. As described in section 2.2 of the Order, the Regional Water Board incorporates this Fact Sheet as findings supporting the issuance of the Order.

1. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

Table F-1. Facility Information

WDID	2 215021002
CIWQS Place ID	239498
Discharger	Sanitary District No. 5 of Marin County
Facility Name	Paradise Cove Treatment Plant and its wastewater collection system
Facility Address	3700 Paradise Drive Tiburon, CA 94920 Marin County
Facility Contact, Title, Phone, and Email	Tony Rubio, District Manager, (415) 435-1501, trubio@sani5.org
Authorized Person to Sign and Submit Reports	Same as Facility Contact
Mailing Address	P.O. Box 227 Tiburon, CA 94920 Marin County
Billing Address	Same as Mailing Address
Facility Type	Publicly-Owned Treatment Works (POTW)
Major or Minor Facility	Minor
Water Quality Threat	3
Complexity	B
Pretreatment Program	No
Mercury and PCBs Requirements	NPDES Permit CA0038849
Nutrients Requirements	NPDES Permit CA0038873
Facility Permitted Flow	0.04 million gallons per day (MGD)
Facility Design Flow	0.04 MGD (average dry weather design flow) 0.10 MGD (wet weather design flow)
Watershed	San Francisco Bay
Receiving Water	Central San Francisco Bay
Receiving Water Type	Marine

- 1.1.** The Sanitary District No. 5 of Marin County (Discharger) owns and operates the Paradise Cove Wastewater Treatment Plant and its associated wastewater collection system (collectively, the Facility). The plant provides secondary treatment of wastewater collected from its service area and discharges to Central San Francisco Bay.

For the purposes of this Order, references to the “discharger” or “permittee” in applicable federal and State laws, regulations, plans, and policies are held to be equivalent to references to the Discharger herein.

- 1.2. The Discharger is regulated pursuant to NPDES Permit CA0037427. The Discharger was previously subject to Order R2-2016-0042 (previous order). The Discharger filed a Report of Waste Discharge and submitted an application for reissuance of its Waste Discharge Requirements (WDRs) and NPDES permit on February 23, 2021.
- 1.3. The Discharger is authorized to discharge subject to the WDRs in this Order at the discharge locations described in Table 1 of this Order. Regulations in 40 C.F.R. section 122.46 limit the duration of NPDES permits to a fixed term not to exceed five years. Accordingly, this Order limits the effective period for the discharge authorization. Pursuant to 40 C.F.R. section 122.6(d) and California Code of Regulations, title 23, section 2235.4, the terms and conditions of an expired permit are automatically continued pending reissuance of the permit if the Discharger complies with all requirements for continuation of expired permits.
- 1.4. The Discharger is also regulated under NPDES Permits CA0038849 and CA0038873, which establish requirements on mercury and polychlorinated biphenyls (PCBs) and nutrients from wastewater discharges to San Francisco Bay. This Order does not affect those permits.
- 1.5. When applicable, State law requires dischargers to file a petition with the State Water Resources Control Board (State Water Board), Division of Water Rights, and receive approval for any change in the point of discharge, place of use, or purpose of use of treated wastewater that decreases the flow in any portion of a watercourse. The State Water Board retains separate jurisdictional authority to enforce such requirements under Water Code section 1211. This is not an NPDES permit requirement.

2. FACILITY DESCRIPTION

2.1. Wastewater Collection and Treatment

- 2.1.1. **Service Area and Collection System.** The plant provides secondary treatment and disinfection of domestic wastewater from an all-residential unincorporated area within the Town of Tiburon located from 3200 through 4200 Paradise Drive. It serves a population of about 430 people through 109 service connections. The wastewater collection system consists of approximately 3.1 miles of pipeline (1.4 miles of gravity pipelines and 1.7 miles of force mains ranging from 3 and 6-inches in diameter) and two pump stations. Attachment B shows a map of the area around the Facility.
- 2.1.2. **Wastewater Treatment.** The plant can provide secondary treatment and disinfection for an average daily dry weather flow of 0.04 MGD and a peak wet

weather flow of 0.10 MGD, the latter of which is based on the plant’s outfall capacity. The wastewater treatment process uses two identical treatment trains, each with an average daily dry weather flow capacity of 0.02 MGD. Each train consists of grinding, influent screening, flow equalization (primary clarification), extended aeration, secondary clarification, chlorination (using sodium hypochlorite), and dechlorination (using sodium bisulfite). Typically, one treatment train remains offline because influent flows are less than a treatment train’s flow capacity. In 2020, the average daily dry weather influent flow was 0.016 MGD and the maximum daily influent flow peaked at 0.092 MGD. The Discharger can divert flows exceeding the plant’s peak design flow rate into the offline treatment train for storage. Attachment C provides a flow schematic.

2.1.3. **Sludge and Biosolids Management.** Sludge is stored onsite in a storage tank prior to being pumped and transported to the Sanitary District No. 5 Tiburon Wastewater Treatment Plant for treatment and disposal

2.1.4. **Stormwater Management.** All stormwater flows in contact with equipment or wastewater at the plant are collected and directed to the plant headworks treatment. Therefore, no additional stormwater requirements are necessary.

2.1.5. **Recycled Water.** Recycled water reporting is regulated by State Water Board Order WQ 2019-0037-EXEC. Although the Discharger does not produce recycled water, it may consider doing so in the future.

2.2. **Discharge Point and Receiving Waters.** Discharge of treated effluent to Central San Francisco Bay is through a submerged, 4-inch, rubber duckbill diffuser valve located approximately 400 feet offshore (Discharge Point No. 001) via a 6-inch diameter, high-density polyethylene buried pipeline. The outfall can discharge a peak flow of 0.10 MGD. Central San Francisco Bay is in the Central Bay Basin watershed between the Richmond-San Rafael Bridge and the San Francisco-Oakland Bay Bridge. In July 2020, the Discharger inspected its outfall and concluded that it was in good working order. The outfall meets Basin Plan section 4.6.1 requirements for a deepwater discharge.

2.3. **Previous Requirements and Monitoring Data.** The table below presents the previous order’s effluent limitations and representative monitoring data from the previous order term:

Table F-2. Previous Effluent Limitations and Monitoring Data

Parameter	Unit	Average Monthly Limit	Average Weekly Limit	Maximum Daily Limit	Other Limit	Long-Term Average ^[1]	Highest Daily Value ^[1]
Biochemical Oxygen Demand (5 day @ 20°C) (CBOD)	mg/L	30	45	-	-	8.9	24

Parameter	Unit	Average Monthly Limit	Average Weekly Limit	Maximum Daily Limit	Other Limit	Long-Term Average ^[1]	Highest Daily Value ^[1]
Total Suspended Solids (TSS)	mg/L	30	45	-	-	7.0	29
Oil and Grease	mg/L	10	-	20	-	5.0	5.0
pH	s.u.	-	-	-	6.0 – 9.0 ^[2]	6.7	6.0 – 7.5 ^[3]
Chlorine, Total Residual	mg/L	-	-	-	0.0 ^[4]	<0.02 ^[5]	<0.02 ^[5]
Ammonia, Total	mg/L	56	-	150	-	0.75	7.6
Copper, Total Recoverable	µg/L	42	-	76	-	12	24
Cyanide, Total	µg/L	18	-	42	-	2.9	11
Zinc, Total Recoverable	µg/L	450	-	910	-	118	250
Total Coliform	MPN/100 mL	-	-	-	240 (5-sample median)	73	22 ^[6]
Total Coliform	MPN/100 mL	-	-	-	10,000 (any single sample)	73	1,600
Acute Toxicity	% Survival	-	-	-	Not less than 90% (3-sample median)	100	100 ^[7]
Acute Toxicity	% Survival	-	-	-	Not less than 70% (any single sample)	100	100 ^[7]

Footnotes:

- ^[1] Based on monitoring data from December 2016 through February 2021.
- ^[2] The limit was expressed as an instantaneous minimum and instantaneous maximum.
- ^[3] The range is of the lowest and highest pH values.
- ^[4] The limit was expressed as an instantaneous maximum.
- ^[5] The value is the method detection limit. Total residual chlorine was not detected.
- ^[6] This value is the highest 5-sample median.
- ^[7] This value is the lowest percent survival.

2.4. Compliance Summary

2.4.1. **Treatment Plant.** The Discharger did not violate its effluent limitations during the previous permit term.

2.4.2. **Collection System.** The table below summarizes the Discharger’s Category 1 sanitary sewer overflow (SSO) rates per 100 miles of collection system for the last five years, along with the primary causes of these discharges. Category 1 SSOs are those that reach waters of the United States and thus may violate Prohibition 3.5 of this Order.

Table F-3. Collection System and Category 1 SSO Rates

(Values based on CIWQS data analysis completed in April 2021) ^[1]

	Length (miles) ^[2]	Average Pipe Age (years) ^[3]	2016	2017	2018	2019	2020
Discharger	3.1	40	0	0	0	0	0
San Francisco Bay Region	17,700	46	1.2	1.7	0.71	1.4	0.67
State of California	10,300	44	0.48	0.69	0.40	0.58	0.33

Footnotes:

^[1] The State Water Board's *Enrollee's Guide to the SSO Database* defines "Total number of SSOs per 100 miles of Sewer" as "...the number of SSOs, for which the reporting enrollee is responsible, for every 100 miles of pipe or sewer lines in an enrollee's sanitary sewer system. Due to the large variation in facility specific characteristics, this metric should only be viewed as a rough comparison of the operation and maintenance performance of enrollees and their sanitary sewer systems."

^[2] Lengths shown are based on 2020 data.

^[3] The average pipe age for the State of California is estimated based on the percentages of piping constructed during each decade as reported by enrollees under State Water Board Order 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, as amended by State Water Board Order WQ 2013-0058-EXEC.

The above SSO rates are normalized relative to a distance of 100 miles. During the previous order term, the Discharger had no Category 1 SSOs.

In 2014, the Discharger adopted a private sewer lateral ordinance, Ordinance 2014-02, which requires private sewer lateral inspections and upgrades upon changes in property ownership, remodels greater than \$50,000, and public contract work on residential streets. Through 2020, the Discharger replaced or repaired around 1,000 linear feet of private sewer laterals. The Discharger regularly completes asset management tasks as part of its Sewer System Management Plan, which it last updated in 2018. These asset management tasks include inspecting high priority collection system segments every six months and pump stations three times every week.

2.5. Sea Level Rise. Approximately 1,000 linear feet of the Facility's collection system are susceptible to flooding at 25 centimeters of sea level rise. This portion of the collection system is protected by three sealed manholes to prevent infiltration from potential flooding. The remaining collection system, the plant, and the two pumps that serve the plant are located at elevations above the California Ocean Protection Council's medium-to-high risk sea level rise projection of 6.9 feet by 2100 in the San Francisco Bay region. Additionally, the treatment plant, its controls, and its emergency generator are further elevated on a 1-foot pad as part of a Facility upgrade the Discharger completed in 2010.

2.6. Planned Changes. The Discharger is considering replacing the use of chlorine for disinfection with an ultraviolet (UV) light disinfection system, potentially during this Order term. This Order authorizes this change, subject to the conditions set forth in Provision 6.3.5.4 of the Order.

3. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in this Order are based on the requirements and authorities described in this section.

3.1. Legal Authorities. This Order serves as WDRs pursuant to California Water Code article 4, chapter 4, division 7 (commencing with § 13260). This Order is also issued pursuant to federal Clean Water Act (CWA) section 402 and implementing regulations adopted by the U.S. EPA, and Water Code chapter 5.5, division 7 (commencing with § 13370). It serves as an NPDES permit authorizing the Discharger to discharge into waters of the United States at the discharge location described in Table 1 subject to the WDRs in this Order.

3.2. California Environmental Quality Act (CEQA). Under Water Code section 13389, this action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (CEQA), Public Resources Code division 13, chapter 3 (commencing with § 21100).

3.3. State and Federal Laws, Regulations, Policies, and Plans

3.3.1. Water Quality Control Plan. The Regional Water Board adopted the *Water Quality Control Plan for the San Francisco Bay Basin* (Basin Plan), which designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Requirements in this Order implement the Basin Plan. In addition, this Order implements State Water Board Resolution 88-63, which established State policy that all waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Because of the marine influence on San Francisco Bay, total dissolved solids levels exceed 3,000 mg/L; therefore, San Francisco Bay meets an exception to State Water Board Resolution 88-63. Therefore, the beneficial uses applicable to Central San Francisco Bay are as follows:

Table F-4. Beneficial Uses

Discharge Point	Receiving Water	Beneficial Uses
001	Central San Francisco Bay	Industrial Service Supply (IND) Industrial Process Supply (PROC) Commercial and Sport Fishing (COMM) Shellfish Harvesting (SHELL) Estuarine Habitat (EST) Fish Migration (MIGR) Preservation of Rare and Endangered Species (RARE) Fish Spawning (SPWN) Wildlife Habitat (WILD) Water Contact Recreation (REC1)

Discharge Point	Receiving Water	Beneficial Uses
		Non-Contact Water Recreation (REC2) Navigation (NAV)

- 3.3.2. **National Toxics Rule (NTR) and California Toxics Rule (CTR).** The NTR and CTR contain federal water quality criteria for priority pollutants. U.S. EPA adopted the NTR on December 22, 1992, and amended it on May 4, 1995, and November 9, 1999. About 40 NTR criteria apply in California. U.S. EPA adopted the CTR on May 18, 2000. The CTR promulgated new toxics criteria for California and incorporated the NTR criteria that applied in the State. U.S. EPA amended the CTR on February 13, 2001.
- 3.3.3. **State Implementation Policy.** The State Water Board adopted the *Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California* (State Implementation Policy or SIP) on March 2, 2000. The SIP establishes implementation provisions for priority pollutant criteria and objectives, and provisions for chronic toxicity control. The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria U.S. EPA promulgated for California through the NTR and the priority pollutant objectives the Regional Water Board established through the Basin Plan. The SIP became effective on May 18, 2000, with respect to the priority pollutant criteria U.S. EPA promulgated through the CTR. The State Water Board adopted amendments to the SIP on February 24, 2005, that became effective on July 13, 2005. Requirements of this Order implement the SIP.
- 3.3.4. **Bacteria Objectives.** The State Water Board adopted the *Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California – Part 3, Bacteria Provisions and a Water Quality Standards Variance Policy* on August 7, 2018, and it became effective on March 22, 2019. This plan establishes enterococcus bacteria water quality objectives and related implementation provisions for discharges to marine and estuarine waters that support the water contact recreation (REC1) beneficial use.
- 3.3.5. **Sediment Quality.** The State Water Board adopted the *Water Quality Control Plan for Enclosed Bays and Estuaries – Part 1, Sediment Quality* on September 16, 2008, and it became effective on August 25, 2009. The State Water Board adopted amendments to the plan on June 5, 2018, that became effective on March 11, 2019. This plan establishes sediment quality objectives and related implementation provisions for specifically defined sediments in most bays and estuaries.
- 3.3.6. **Antidegradation Policy.** Federal regulations at 40 C.F.R. section 131.12 require that state water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California’s antidegradation policy through State Water Board Resolution 68-16, *Statement of Policy with Respect to Maintaining High Quality of Waters in*

California, which incorporates the federal antidegradation policy where the federal policy applies under federal law. Resolution 68-16 requires that existing water quality be maintained unless degradation is justified based on specific findings. The Basin Plan implements, and incorporates by reference, both the State and federal antidegradation policies. Permitted discharges must be consistent with the antidegradation provisions of 40 C.F.R. section 131.12 and State Water Board Resolution 68-16.

- 3.3.7. **Anti-Backsliding Requirements.** CWA sections 402(o) and 303(d)(4) and 40 C.F.R. section 122.44(l) restrict backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed.
- 3.3.8. **Endangered Species Act Requirements.** This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code §§ 2050 to 2097) or Federal Endangered Species Act (16 U.S.C.A. §§ 1531 to 1544). This Order requires compliance with effluent limits, receiving water limits, and other requirements to protect the beneficial uses of waters of the State, including protecting rare, threatened, or endangered species. The Discharger is responsible for meeting all applicable Endangered Species Act requirements.
- 3.3.9. **Sewage Sludge and Biosolids.** U.S. EPA administers 40 C.F.R. part 503, Standards for the Use or Disposal of Sewage Sludge, which regulates the final use or disposal of sewage sludge generated during the treatment of domestic sewage in a municipal wastewater treatment facility. This Order does not authorize any act that violates those requirements. The Discharger is responsible for meeting applicable requirements of 40 C.F.R. part 503.
- 3.4. Impaired Water Bodies on CWA section 303(d) List.** On April 6, 2018, U.S. EPA approved a revised list of impaired waters pursuant to CWA section 303(d), which requires identification of specific water bodies where it is expected that water quality standards will not be met after implementation of technology-based effluent limitations on point sources. Where it has not done so already, the Regional Water Board plans to adopt Total Maximum Daily Loads (TMDLs) for pollutants on the 303(d) list. TMDLs establish wasteload allocations for point sources and load allocations for nonpoint sources and are established to achieve water quality standards.

Central San Francisco Bay is listed as impaired by chlordane, DDT, dieldrin, dioxin compounds (including 2,3,7,8-TCDD), furan compounds, invasive species, mercury, PCBs, selenium, and trash. On February 12, 2008, U.S. EPA approved a TMDL for mercury in San Francisco Bay. On March 29, 2010, U.S. EPA approved a TMDL for PCBs in San Francisco Bay. The TMDLs for mercury and PCBs apply

to this discharge and are implemented under NPDES Permit No. CA0038849. On August 23, 2016, U.S. EPA approved a TMDL for selenium in North San Francisco Bay, which includes Central San Francisco Bay. The selenium TMDL does not require effluent limits for municipal wastewater dischargers because these discharges have an insignificant impact on North San Francisco Bay water quality.

As shown in Fact Sheet section 4.3.3, the discharge is not a significant source of chlordane, DDT, dieldrin, dioxin compounds, or furan compounds because these pollutants have not been detected in the discharge. The discharge is also not a source of invasive species because it is disinfected. Finally, the discharge is not a source of trash because the discharge is screened and treated to secondary treatment standards.

4. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source dischargers to control the amount of conventional, non-conventional, and toxic pollutants discharged into waters of the United States. The control of pollutants discharged is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations: 40 C.F.R. section 122.44(a) requires that permits include applicable technology-based limitations and standards, and 40 C.F.R. section 122.44(d) requires that permits include water quality-based effluent limitations to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of receiving waters.

4.1. Discharge Prohibitions

4.1.1. Prohibitions in this Order

- 4.1.1.1. **Discharge Prohibition 3.1 (No discharge other than as described):** This prohibition is based on 40 C.F.R. section 122.21(a) and Water Code section 13260, which require filing an application and Report of Waste Discharge before a discharge can occur. Discharges not described in the application and Report of Waste Discharge, and subsequently in this Order, are prohibited.
- 4.1.1.2. **Discharge Prohibition 3.2 (No bypass to waters of the United States):** This prohibition is based on 40 C.F.R. section 122.41(m) (see Attachment D section 1.7).
- 4.1.1.3. **Discharge Prohibition 3.3 (No discharge without minimum initial dilution of at least 44:1):** This prohibition ensures that this Order's effluent limitations remain protective of water quality. The total ammonia effluent limitations established in this Order are based on the Discharger's modeled minimum initial dilution and subsequent dilution credits as described in Fact Sheet section 4.3.4.2.

- 4.1.1.4. **Discharge Prohibition 3.4 (No average dry weather flow above 0.04 MGD):** This prohibition ensures that the average dry weather influent flow does not exceed the plant’s designed average dry weather treatment capacity (i.e., the historic and tested reliability of the treatment plant) of 0.04 MGD. Exceeding this flow could result in lower treatment reliability and greater potential to violate effluent limitations.
- 4.1.1.5. **Discharge Prohibition 3.5 (No sanitary sewer overflows to waters of the United States):** This prohibition is based on Discharge Prohibition 15 of Basin Plan Table 4-1 and the CWA, which prohibit the discharge of wastewater to surface waters, except as authorized under an NPDES permit. Publicly-owned treatment works must achieve secondary treatment at a minimum and any more stringent limitations necessary to meet water quality standards. A sanitary sewer overflow that results in the discharge to waters of the United States of raw sewage or wastewater not meeting this Order’s effluent limitations is therefore prohibited under the Basin Plan and CWA.

4.2. Technology-Based Effluent Limitations

4.2.1. Scope and Authority

CWA section 301(b) and 40 C.F.R. section 122.44 require that permits include conditions meeting technology-based requirements, at a minimum, and any more stringent effluent limitations necessary to meet water quality standards. The discharges authorized by this Order must meet minimum federal technology-based requirements based on the Secondary Treatment Standards at 40 C.F.R. section 133 as summarized below. Basin Plan Table 4-2 contains additional requirements for certain pollutants.

Table F-5. Secondary Treatment Standards

Parameter	Monthly Average	Weekly Average
Biochemical Oxygen Demand (BOD) ^{[1],[2]}	30 mg/L	45 mg/L
Carbonaceous Biochemical Oxygen Demand (CBOD) ^{[1],[2]}	25 mg/L	40 mg/L
Total Suspended Solids (TSS) ^[2]	30 mg/L	45 mg/L
pH	6.0 – 9.0 standard units	

Footnotes:

^[1] CBOD effluent limitations may be substituted for BOD limitations.

^[2] The monthly average percent removal, by concentration, is not to be less than 85 percent.

4.2.2. Technology-Based Effluent Limitations

- 4.2.2.1. **BOD and TSS.** The BOD and TSS effluent limitations, including the 85 percent removal requirements, are based on the secondary treatment standards and Basin Plan Table 4-2

- 4.2.2.2. **Oil and Grease.** The oil and grease effluent limitations are based on Basin Plan Table 4-2.
- 4.2.2.3. **pH.** The pH effluent limitations are based on the secondary treatment standards and Basin Plan Table 4-2.
- 4.2.2.4. **Total Residual Chlorine.** The total residual chlorine effluent limitation is based on Basin Plan Table 4-2. The Monitoring and Reporting Program (MRP, Attachment E) provides an allowance for determining false positives when using continuous devices based on the fact that continuous instruments occasionally have anomalous spikes, and it is chemically improbable to have free chlorine in the presence of sodium bisulfite. The allowance for using only on-the-hour measurements for mandatory minimum penalty assessment purposes under Water Code section 13385.1 is based on a 2004 strategy developed between the Regional Water Board and the Bay Area Clean Water Agencies.

4.3. Water Quality-Based Effluent Limitations

4.3.1. Scope and Authority

CWA section 301(b) and 40 C.F.R. section 122.44(d) require permits to include limitations more stringent than federal technology-based requirements where necessary to achieve water quality standards. According to 40 C.F.R. section 122.44(d)(1)(i), permits must include effluent limitations for all pollutants that are or may be discharged at levels that have a reasonable potential to cause or contribute to an exceedance of a water quality standard, including numeric and narrative objectives within a standard. Where reasonable potential has been established for a pollutant, but there is no numeric criterion or objective, water quality-based effluent limitations (WQBELs) must be established using (1) U.S. EPA criteria guidance under CWA section 304(a), supplemented where necessary by other relevant information; (2) an indicator parameter for the pollutant of concern; or (3) a calculated numeric water quality criterion, such as a proposed state criterion or policy interpreting a narrative criterion, supplemented with relevant information. The process for determining reasonable potential and calculating WQBELs when necessary is intended to achieve applicable water quality objectives and criteria, and thereby protect designated beneficial uses of receiving waters.

4.3.2. Beneficial Uses and Water Quality Criteria and Objectives

Discharge Point 001 discharges to Central San Francisco Bay. Fact Sheet section 3.3.1 identifies the beneficial uses of Central San Francisco Bay. Water quality criteria and objectives to protect these beneficial uses are described below.

4.3.2.1. **Basin Plan Objectives.** The Basin Plan specifies numerous water quality objectives, including numeric objectives for 10 priority pollutants, un-ionized ammonia, and bacteria, and narrative objectives for toxicity.

4.3.2.1.1. **Ammonia.** Basin Plan section 3.3.20 contains water quality objectives for un-ionized ammonia of 0.025 mg/L (as nitrogen) as an annual median and 0.16 mg/L (as nitrogen) as a maximum for Central San Francisco Bay and upstream waters. Effluent and receiving water data are available for total ammonia, but not un-ionized ammonia, because (1) sampling and laboratory methods are unavailable to analyze for un-ionized ammonia, and (2) the fraction of total ammonia that exists in the toxic un-ionized form depends on pH, salinity, and temperature of the receiving water.

To translate the un-ionized ammonia objectives into total ammonia criteria, pH, salinity, and temperature data were obtained from the Regional Monitoring Program (RMP) station nearest the outfall (Yerba Buena, BC10). The un-ionized fraction of the total ammonia was calculated using the following equations (*Ambient Water Quality Criteria for Ammonia (Saltwater)*—1989, EPA Publication 440/5-88-004, 1989):

$$\text{Fraction of un-ionized ammonia} = (1 + 10^{[pK - pH]})^{-1}$$

Where, for salinity less than 1 ppt:

$$pK = 0.09018 + 2729.92/T$$

T = temperature in Kelvin

Where, for salinity greater than 10 ppt:

$$pK = 9.245 + 0.116*(I) + 0.0324*(298-T) + 0.0415*(P)/T$$

I = molal ionic strength of saltwater = $19.9273*(S)/(1000-1.005109*S)$

S = salinity (parts per thousand)

T = temperature in Kelvin

P = pressure (one atmosphere)

The 90th percentile and median un-ionized ammonia fractions were then used to express the maximum and annual average un-ionized objectives as acute and chronic total ammonia criteria. This approach is consistent with U.S. EPA guidance on translating dissolved metal water quality objectives to total recoverable metal water quality criteria (U.S. EPA, 1996, *The Metals Translator: Guidance for Calculating a Total Recoverable Limit from a Dissolved Criterion*, EPA Publication 823-B96-007). The equivalent acute and chronic total ammonia criteria are 4.2 mg/L and 1.3 mg/L (as nitrogen).

4.3.2.1.2. **Toxicity.** The narrative toxicity objective (Basin Plan § 3.3.18) states, “All waters shall be maintained free of toxic substances in concentrations that are lethal to or that produce other detrimental responses in aquatic

organisms. Detrimental responses include, but are not limited to, decreased growth rate and decreased reproductive success of resident or indicator species. There shall be no acute toxicity in ambient waters. ... There shall be no chronic toxicity in ambient waters.”

- 4.3.2.2. **CTR Criteria.** The CTR specifies numeric aquatic life and human health criteria for numerous priority pollutants. These criteria apply to inland surface waters and enclosed bays and estuaries. Some human health criteria are for consumption of “water and organisms” and others are for consumption of “organisms only.” The criteria applicable to “organisms only” apply to Central San Francisco Bay because it is not a source of drinking water.
- 4.3.2.3. **NTR Criteria.** The NTR establishes numeric aquatic life and human health criteria for a number of toxic pollutants for San Francisco Bay waters upstream to and including Suisun Bay and the Sacramento-San Joaquin Delta. The NTR criteria apply to Central San Francisco Bay.
- 4.3.2.4. **Bacteria Objectives.** The *Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California – Part 3, Bacteria Provisions and a Water Quality Standards Variance Policy* establishes enterococcus bacteria water quality objectives to limit cases of gastrointestinal illness from water contact recreation. The enterococcus bacteria objectives apply to marine and estuarine waters.
- 4.3.2.5. **Sediment Quality Objectives.** The *Water Quality Control Plan for Enclosed Bays and Estuaries – Part 1, Sediment Quality* contains the following narrative water quality objectives:
 - 4.3.2.5.1. “Pollutants in sediments shall not be present in quantities that, alone or in combination, are toxic to benthic communities in bays and estuaries of California.” This objective is to be implemented by integrating three lines of evidence: sediment toxicity, benthic community condition, and sediment chemistry. The policy requires that if the Regional Water Board determines that a discharge has reasonable potential to cause or contribute to an exceedance of this objective, it is to impose the objective as a receiving water limit.
 - 4.3.2.5.2. “Pollutants shall not be present in sediments at levels that will bioaccumulate in aquatic life to levels that are harmful to human health in bays and estuaries of California.” This objective is to be implemented by a three-tiered procedure based on pollutant concentrations in sediment and fish tissue.
 - 4.3.2.5.3. “Pollutants shall not be present in sediment at levels that alone or in combination are toxic to wildlife and resident finfish by direct exposure or bioaccumulate in aquatic life at levels that are harmful to wildlife or resident finfish by indirect exposure in bays and estuaries of California.”

This objective is to be implemented on a case-by-case basis, based upon an ecological risk assessment.

- 4.3.2.6. **Receiving Water Salinity.** Basin Plan section 4.6.2 (like the CTR and NTR) states that the salinity characteristics (i.e., freshwater vs. saltwater) of the receiving water are to be considered in determining the applicable water quality objectives. Freshwater criteria apply to discharges to waters with salinities equal to or less than one part per thousand (ppt) at least 95 percent of the time. Saltwater criteria apply to discharges to waters with salinities equal to or greater than 10 ppt at least 95 percent of the time in a normal water year. For discharges to water with salinities in between these two categories, or tidally-influenced freshwaters that support estuarine beneficial uses, the water quality objectives are the lower of the salt or freshwater criteria (the latter calculated based on ambient hardness) for each substance.

The receiving water for the Facility's discharge to Central San Francisco Bay is marine based on salinity data collected through the Regional Monitoring Program at the Yerba Buena (BC10) sampling location between 1993 and 2017. During that period, the average salinity was 26 ppt, with a range of 12 to 36 ppt. Because the salinity was greater than 10 ppt in 100 percent of the samples, Central San Francisco Bay is classified as saltwater and this Order's reasonable potential analysis and WQBELs are based on saltwater water quality objectives and criteria.

- 4.3.2.7. **Metals Translators.** Regulations at 40 C.F.R. section 122.45(c), require effluent limitations for metals to be expressed as total recoverable metal. Since the water quality objectives for metals are typically expressed as dissolved metal, translators must be used to convert metals concentrations from dissolved to total recoverable and vice versa. The CTR contains default translators; however, site-specific conditions, such as water temperature, pH, total suspended solids, and organic carbon may affect the form of metal (dissolved, non-filterable, or otherwise) present and therefore available to cause toxicity. In general, dissolved metals are more available and more toxic to aquatic life than other forms. Site-specific translators can account for site-specific conditions, thereby preventing overly stringent or under-protective water quality objectives.

CTR default translators were used for all metals other than copper and nickel. Basin Plan Table 7.2.1-2 sets forth site-specific copper translators. The Clean Estuary Partnership's *North of the Dumbarton Bridge Copper and Nickel Development and Selection of Final Translators* (March 2005) contains site-specific nickel translators. These site-specific translators are listed in the table below:

Table F-6. Site-Specific Translators

Parameter	Chronic Translator	Acute Translator
Copper	0.73	0.87
Nickel	0.65	0.85

4.3.3. Reasonable Potential Analysis

4.3.3.1. Available Information. The reasonable potential analysis for this Order is based on effluent data the Discharger collected from December 2016 through February 2021 and ambient background data summarized in the RMP’s *San Francisco Bay California Toxics Rule Priority Pollutant Ambient Water Monitoring Report (2017)*, which includes data collected through the RMP at the Yerba Buena RMP station (BC10) from 1993 through 2017, supplemented by additional Bay Area Clean Water Agencies data from *San Francisco Bay Ambient Water Monitoring Interim Report (2003)* and *Ambient Water Monitoring: Final CTR Sampling Update (2004)*.

SIP section 1.4.3 requires that background water quality data be representative of the ambient receiving water that will mix with the discharge. RMP monitoring station BC10, relative to other RMP stations, fits SIP guidance for establishing priority pollutant and ammonia background conditions at Discharge Point 001.

This Order does not contain WQBELs for constituents that do not demonstrate reasonable potential; however, the MRP still requires monitoring for those pollutants. If effluent concentrations are found to have increased significantly, Provision 6.3.2 of the Order requires the Discharger to investigate the sources of the increases and implement remedial measures if the increases pose a threat to receiving water quality.

4.3.3.2. Priority Pollutants and Ammonia. SIP section 1.3 sets forth the methodology used to assess whether a priority pollutant has reasonable potential to exceed a water quality objective. SIP section 1.3 applies to priority pollutants and is used here for ammonia as guidance. The analysis begins with identifying the maximum effluent concentration (MEC) observed for each pollutant based on available effluent concentration data and the ambient background concentrations (B). SIP section 1.4.3 states that ambient background concentrations are either the maximum ambient concentration observed or, for water quality objectives intended to protect human health, the arithmetic mean of observed concentrations. There are three triggers in determining reasonable potential:

- **Trigger 1** is activated if the maximum effluent concentration is greater than or equal to the lowest applicable water quality objective ($MEC \geq$ water quality objective).

- **Trigger 2** is activated if the ambient background concentration observed in the receiving water is greater than the lowest applicable water quality objective ($B > \text{water quality objective}$) and the pollutant is detected in any effluent sample.
- **Trigger 3** is activated if a review of other information indicates that a WQBEL is needed to protect beneficial uses.

The maximum effluent concentrations, most stringent applicable water quality criteria and objectives, and ambient background concentrations used in the analysis are presented in Table F-7, below, along with the reasonable potential analysis results (yes, no, or unknown) for each pollutant. Based on this analysis, copper, zinc, cyanide, and total ammonia exhibit reasonable potential by Trigger 1. Additionally, Basin Plan sections 7.2.1.2 and 4.7.2.2 require copper and cyanide WQBELs for all individual NPDES permits for municipal wastewater treatment facilities.

Table F-7. Reasonable Potential Analysis

CTR No.	Pollutant	C or Governing Criterion or Objective ($\mu\text{g/L}$)	MEC or Minimum DL ($\mu\text{g/L}$) ^{[1],[2]}	B or Minimum DL ($\mu\text{g/L}$) ^{[1],[2]}	RPA Result ^[3]
1	Antimony	4,300	0.18 DNQ	1.8	No
2	Arsenic	36	0.84	2.5	No
3	Beryllium	No Criteria	<0.090	0.22	U
4	Cadmium	3.4	<0.050	0.13	No
5a	Chromium (III) ^[4]	No Criteria	0.74	4.4	No
5b	Chromium (VI) ^[4]	11	4.5 DNQ	4.4	No
6	Copper	8.2	24	2.5	Yes
7	Lead	8.5	0.22 DNQ	0.80	No
8	Mercury ^[5]	-	-	-	-
9	Nickel	13	5.7	3.7	No
10	Selenium ^[5]	-	-	-	-
11	Silver	2.2	0.050 DNQ	0.052	No
12	Thallium	6.3	<0.050	0.023	No
13	Zinc	86	250	5.1	Yes
14	Cyanide	2.9	11	0.52	Yes
15	Asbestos (fibers/L) ^[6]	-	-	-	-
16	2,3,7,8-TCDD	1.4×10^{-8}	$<2.1 \times 10^{-7}$	$<2.7 \times 10^{-8}$	U
17	Acrolein	780	<1.7	<0.50	No
18	Acrylonitrile	0.66	<1.8	0.030	U
19	Benzene	71	<0.18	<0.050	No
20	Bromoform	360	15	<0.15	No
21	Carbon Tetrachloride	4.4	0.20 DNQ	0.060	No
22	Chlorobenzene	21000	<0.18	<0.18	No

CTR No.	Pollutant	C or Governing Criterion or Objective (µg/L)	MEC or Minimum DL (µg/L) ^{[1],[2]}	B or Minimum DL (µg/L) ^{[1],[2]}	RPA Result ^[3]
23	Chlorodibromomethane	34	6.2	<0.05	No
24	Chloroethane	No Criteria	<0.38	<0.38	U
25	2-Chloroethylvinyl ether	No Criteria	<0.28	<0.28	U
26	Chloroform	No Criteria	70	<0.19	U
27	Dichlorobromomethane	46	11	<0.050	No
28	1,1-Dichloroethane	No Criteria	<0.19	<0.050	No
29	1,2-Dichloroethane	99	<0.18	0.040	No
30	1,1-Dichloroethylene	3.2	<0.21	<0.21	No
31	1,2-Dichloropropane	39	<0.18	<0.050	No
32	1,3-Dichloropropylene	1,700	<0.16	<0.16	No
33	Ethylbenzene	29,000	<0.26	<0.26	No
34	Methyl Bromide	4,000	<0.30	<0.30	No
35	Methyl Chloride	No Criteria	<0.30	<0.30	U
36	Methylene Chloride	1,600	<0.40	22	No
37	1,1,2,2-Tetrachloroethane	11	<0.15	<0.050	No
38	Tetrachloroethylene	8.9	<0.19	<0.050	No
39	Toluene	200,000	<0.19	<0.19	No
40	1,2-Trans-Dichloroethylene	140,000	<0.22	<0.22	No
41	1,1,1-Trichloroethane	No Criteria	<0.19	<0.19	No
42	1,1,2-Trichloroethane	42	<0.16	<0.050	No
43	Trichloroethylene	81	<0.20	<0.20	No
44	Vinyl Chloride	525	<0.25	<0.25	No
45	2-Chlorophenol	400	<0.40	<0.70	No
46	2,4-Dichlorophenol	790	<0.40	<0.90	No
47	2,4-Dimethylphenol	2,300	<0.40	<0.80	No
48	2-Methyl- 4,6-Dinitrophenol	765	<0.30	<0.60	No
49	2,4-Dinitrophenol	14,000	<0.20	<0.70	No
50	2-Nitrophenol	No Criteria	<0.40	<0.80	U
51	4-Nitrophenol	No Criteria	<0.50	<0.50	U
52	3-Methyl 4-Chlorophenol	No Criteria	<0.50	<0.80	U
53	Pentachlorophenol	5.0	<0.40	<0.60	U
54	Phenol	4,600,000	<0.30	<0.50	No
55	2,4,6-Trichlorophenol	6.5	<0.50	<0.97	No
56	Acenaphthene	2,700	<0.020	0.0020	No
57	Acenaphthylene	No Criteria	<0.020	0.0010	U
58	Anthracene	110,000	<0.010	0.0010	No
59	Benzidine	0.00054	<4.0	<0.00030	U
60	Benzo(a)Anthracene	0.049	<0.020	0.0050	No
61	Benzo(a)Pyrene	0.049	<0.020	0.0020	No
62	Benzo(b)Fluoranthene	0.049	<0.020	0.0050	No
63	Benzo(ghi)Perylene	No Criteria	<0.020	0.0030	U

CTR No.	Pollutant	C or Governing Criterion or Objective (µg/L)	MEC or Minimum DL (µg/L) ^{[1],[2]}	B or Minimum DL (µg/L) ^{[1],[2]}	RPA Result ^[3]
64	Benzo(k)Fluoranthene	0.049	<0.020	0.0020	No
65	Bis(2-Chloroethoxy)Methane	No Criteria	<0.50	<0.30	U
66	Bis(2-Chloroethyl)Ether	1.4	<0.40	<0.30	No
67	Bis(2-Chloroisopropyl)Ether	170,000	<0.40	<0.60	No
68	Bis(2-Ethylhexyl)Phthalate	5.9	<0.50	<0.50	No
69	4-Bromophenyl Phenyl Ether	No Criteria	<0.50	<0.23	U
70	Butylbenzyl Phthalate	5,200	<0.50	<0.50	No
71	2-Chloronaphthalene	4,300	<0.40	<0.30	No
72	4-Chlorophenyl Phenyl Ether	No Criteria	<0.50	<0.30	U
73	Chrysene	0.049	<0.020	0.0020	No
74	Dibenzo(a,h)Anthracene	0.049	<0.020	0.0010	No
75	1,2-Dichlorobenzene	17,000	<0.27	<0.27	No
76	1,3-Dichlorobenzene	2,600	<0.18	<0.18	No
77	1,4-Dichlorobenzene	2,600	<0.18	<0.18	No
78	3,3 Dichlorobenzidine	0.077	<50	<0.00020	U
79	Diethyl Phthalate	120,000	<0.50	<0.20	No
80	Dimethyl Phthalate	2,900,000	<0.50	<0.20	No
81	Di-n-Butyl Phthalate	12,000	<0.40	<0.50	No
82	2,4-Dinitrotoluene	9.1	<0.40	<0.27	No
83	2,6-Dinitrotoluene	No Criteria	<0.40	<0.29	U
84	Di-n-Octyl Phthalate	No Criteria	<0.40	<0.38	U
85	1,2-Diphenylhydrazine	0.54	<0.50	0.0040	No
86	Fluoranthene	370	<0.020	0.011	No
87	Fluorene	14,000	<0.010	0.002	No
88	Hexachlorobenzene	0.00077	<0.40	0.000020	U
89	Hexachlorobutadiene	50	<0.40	<0.30	No
90	Hexachlorocyclopentadiene	17,000	<0.30	<0.30	No
91	Hexachloroethane	8.9	<0.40	<0.20	No
92	Indeno(1,2,3-cd)Pyrene	0.049	<0.020	0.0040	No
93	Isophorone	600	<0.50	<0.30	No
94	Naphthalene	No Criteria	<0.020	0.0090	U
95	Nitrobenzene	1,900	<0.50	<0.25	No
96	N-Nitrosodimethylamine	8.1	<0.30	<0.30	No
97	N-Nitrosodi-n-Propylamine	1.4	<0.50	<0.00020	No
98	N-Nitrosodiphenylamine	16	<0.30	<0.0010	No
99	Phenanthrene	No Criteria	<0.020	0.0060	U
100	Pyrene	11,000	<0.020	0.019	No
101	1,2,4-Trichlorobenzene	No Criteria	<0.40	<0.30	No
102	Aldrin	0.00014	<0.020	<0.0000085	U
103	Alpha-BHC	0.013	<0.0030	0.00050	No
104	Beta-BHC	0.046	<0.0030	0.00040	No

CTR No.	Pollutant	C or Governing Criterion or Objective (µg/L)	MEC or Minimum DL (µg/L) ^{[1],[2]}	B or Minimum DL (µg/L) ^{[1],[2]}	RPA Result ^[3]
105	Gamma-BHC	0.063	<0.0030	0.0010	No
106	Delta-BHC	No Criteria	<0.0030	0.00010	U
107	Chlordane	0.00059	<0.020	0.00014	U
108	4,4'-DDT	0.00059	<0.0030	0.00020	U
109	4,4'-DDE	0.00059	<0.0040	0.0010	U
110	4,4'-DDD	0.00084	<0.0040	0.00030	U
111	Dieldrin	0.00014	<0.0040	0.00030	U
112	Alpha-Endosulfan	0.0087	<0.0030	0.00010	No
113	beta-Endosulfan	0.0087	<0.0030	0.00010	No
114	Endosulfan Sulfate	240	<0.0040	0.00010	No
115	Endrin	0.0023	<0.0040	0.000040	No
116	Endrin Aldehyde	0.81	<0.0040	<0.0050	No
117	Heptachlor	0.00021	<0.0030	0.000020	U
118	Heptachlor Epoxide	0.00011	<0.0030	0.00010	U
119-125	PCBs sum ^[5]	-	-	-	-
126	Toxaphene	0.00020	<0.30	<0.00000082	U
	Total Ammonia	1.3	7.6	0.43	Yes

Footnotes:

- ^[1] The MEC and ambient background concentration are the actual detected concentrations unless preceded by a "<" sign, in which case the value shown is the minimum detection level (MDL).
- ^[2] The MEC or ambient background concentration is "Unavailable" when there are no monitoring data for the constituent.
- ^[3] RPA Results = Yes, if MEC ≥ WQC, B > WQC and MEC is detected, or Trigger 3
= No, if MEC and B are < WQC or all effluent data are undetected
= Unknown (U) if no criteria have been promulgated or data are insufficient.
- ^[4] The maximum ambient background concentrations are the total chromium concentration. The chromium (III) and chromium (VI) concentrations are unknown but less than these values.
- ^[5] SIP section 1.3 excludes from its reasonable potential analysis procedure priority pollutants for which a TMDL has been developed. TMDLs have been developed for mercury and PCBs in San Francisco Bay. Mercury and PCBs from wastewater discharges are regulated by NPDES Permit CA0038849, which implements the San Francisco Bay Mercury and PCBs TMDLs. A TMDL has also been developed for selenium in North San Francisco Bay, which includes Central San Francisco Bay. Basin Plan section 7.2.4.5 finds that municipal wastewater dischargers have no reasonable potential to cause or contribute to the selenium impairment in San Francisco Bay segments and, therefore, are not required to have numeric effluent limitations.
- ^[6] Asbestos sampling is only required for discharges to waters with the municipal or domestic supply (MUN) beneficial use. Central San Francisco Bay does not have the MUN beneficial use.

4.3.3.3. **Acute Toxicity.** Basin Plan section 4.5.5.3.1 requires acute toxicity monitoring and limitations, implying there is reasonable potential for the discharge to cause or contribute to exceedances of the acute toxicity water quality objective.

4.3.3.4. **Chronic Toxicity.** Consistent with Basin Plan section 4.5.5.3.2, the Discharger does not monitor for chronic toxicity. There is no reasonable potential for the discharge to contribute to an exceedance of the chronic toxicity water quality objective because the discharge volume is relatively

small (0.04 MGD) and only comprised of domestic wastewater (i.e., there are no industrial dischargers within the Discharger's service area). Furthermore, the influent makeup has not changed since the previous order.

- 4.3.3.5. **Total Coliform Bacteria.** Basin Plan Table 4-2A requires total coliform bacteria effluent limitations for sanitary waste discharges to receiving waters with the shellfish harvesting beneficial use.
- 4.3.3.5. **Enterococcus Bacteria.** The *Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California – Part 3, Bacteria Provisions and a Water Quality Standards Variance Policy* requires *enterococcus* bacteria effluent limitations for discharges to marine and estuarine receiving waters that support the water contact recreation (REC1) beneficial use.
- 4.3.3.6. **Sediment Quality.** Pollutants in some receiving water sediments may be present in quantities that alone or in combination are toxic to benthic communities. However, to date there is no evidence directly linking compromised sediment conditions to the discharges subject to this Order; therefore, the Regional Water Board cannot draw a conclusion about reasonable potential for these discharges to cause or contribute to exceedances of the sediment quality objectives. Nevertheless, the Discharger continues to participate in the Regional Monitoring Program, which routinely monitors San Francisco Bay sediment and seeks to identify stressors responsible for degraded sediment quality.

4.3.4. **Water Quality-Based Effluent Limitations**

WQBELs were developed for the pollutants determined to have reasonable potential to cause or contribute to exceedances of water quality objectives. With the exception of acute toxicity and enterococcus bacteria (discussed below), the WQBEL calculations are based on the procedures in SIP section 1.4.

- 4.3.4.1. **WQBEL Expression.** NPDES regulations at 40 C.F.R. section 122.45(d) require that permit limits for publicly-owned treatment works be expressed as average weekly and average monthly limits, unless impracticable. This Order contains daily limits instead of weekly limits because daily limits better protect against acute water quality effects and are necessary to prevent fish kills or mortality to aquatic organisms. Weekly limits could allow acute and chronic toxicity to occur over shorter periods (acute and chronic aquatic life criteria are typically expressed as one-hour and four-day averages).
- 4.3.4.2. **Mixing Zones and Dilution Credits.** SIP section 1.4.2 allows mixing zones and dilution credits under certain circumstances. The Discharger submitted a mixing zone study titled *Mixing Zone Study and Report* (January 2011) that estimated the minimum initial dilution at Discharge Point 001 using the U.S. EPA-supported Visual Plumes model system. The study estimated a

conservative initial dilution of 44:1 (D=43) based on a maximum flow rate of 0.1 MGD. The actual initial dilution is likely greater at the Discharger's maximum permitted flow rate of 0.04 MGD.

- 4.3.4.2.1. **Copper, Cyanide, Zinc, and Enterococcus.** For copper, cyanide, zinc, and enterococcus, mixing zones corresponding to a conservative dilution credit of 10:1 (D=9) have been established. The 10:1 dilution credit is based, in part, on Basin Plan Prohibition 1 (Table 4-1), which prohibits discharges with less than 10:1 dilution. SIP section 1.4.2 allows for limiting the dilution credit. The dilution credit is limited for the following reasons:
- 4.3.4.2.1.1. San Francisco Bay is a complex estuarine system with highly variable and seasonal upstream freshwater inflows and diurnal tidal saltwater inputs. SIP section 1.4.3 allows background conditions to be determined on a discharge-by-discharge or water body-by-water body basis. A water body-by-water body approach is taken here due to inherent uncertainties in characterizing ambient background conditions in a complex estuarine system on a discharge-by-discharge basis.
- 4.3.4.2.1.2. Because of the complex hydrology of San Francisco Bay, there are uncertainties in accurately determining an appropriate mixing zone. The models used to predict dilution do not consider the three-dimensional nature of San Francisco Bay currents resulting from the interaction of tidal flushes and seasonal freshwater outflows. Being heavier and colder than freshwater, ocean saltwater enters San Francisco Bay on a twice-daily tidal cycle, generally beneath the warmer fresh water that flows seaward. When these waters mix and interact, complex circulation patterns occur due to the varying densities of the fresh and ocean waters. The locations of this mixing and interaction change depending on the strength of each tide. Additionally, sediment loads from the Central Valley change on a long-term basis, affecting the depth of different parts of San Francisco Bay, resulting in alteration of flow patterns, mixing, and dilution at the outfall.
- 4.3.4.2.2. **Ammonia.** For ammonia, a mixing zone corresponding to a conservative estimate of actual initial dilution of 44:1 (D=43) is established to calculate the effluent limitations. This is justified because ammonia, a non-persistent pollutant, quickly disperses and degrades to a non-toxic state, and cumulative toxicity is unlikely. As such, there is unlikely to be cumulative toxicity associated with discharges containing elevated ammonia concentrations.
- 4.3.4.3. **WQBEL Calculations.** The following table shows the WQBEL calculations for copper, cyanide, zinc, and total ammonia. The copper, cyanide, and zinc WQBELs are calculated as required by SIP section 1.4. This same methodology is used as guidance to calculate the total ammonia WQBELs.

Table F-8. WQBEL Calculations

Pollutant	Copper	Cyanide	Zinc	Total Ammonia (acute)	Total Ammonia (chronic)
Units	µg/L	µg/L	µg/L	mg/L N	mg/L N
Basis and Criteria type	Basin Plan Site-Specific Objective	Basin Plan Site-Specific Objective	Basin Plan Narrative Objective	Basin Plan Aquatic Life Objective	Basin Plan Aquatic Life Objective
Criteria -Acute	-	-	95	4.2	-
Criteria -Chronic	-	-	86	-	1.3
Site-Specific Objective Criteria - Acute	9.4	9.4	-	-	-
Site-Specific Objective Criteria - Chronic	6.0	2.9	-	-	-
Water Effects Ratio (WER)	1	1	1	1	1
Lowest WQO	8.2	2.9	86	4.2	1.3
Site Specific Translator - MDEL	0.87	-	-	-	-
Site Specific Translator - AMEL	0.73	-	-	-	-
Dilution Factor (D)	9	9	9	43	43
No. of samples per month	4	4	4	4	30
Aquatic life criteria analysis required? (Y/N)	Y	Y	Y	Y	Y
HH criteria analysis required? (Y/N)	N	Y	N	N	N
Applicable Acute WQO	10.8	9.4	95	4.2	-
Applicable Chronic WQO	8.2	2.9	86	-	1.3
HH Criteria	-	220,000	-	-	-
Background (Maximum Conc. for Aquatic Life Calc.)	2.5	0.52	5.1	0.43	0.12
Background (Average Conc. for Human Health Calc.)	-	0.39	-	-	-
Is the pollutant on the 303d list and/or bioaccumulative (Y/N)?	N	N	N	N	N
ECA Acute	86	89	906	164	-
ECA Chronic	60	24	810	-	50
ECA HH	-	2,200,000	-	-	-
No. of data points <10 or at least 80% of data reported non-detect? (Y/N)	N	N	N	N	N
Avg of effluent data points	12	2.9	119	0.75	0.75
Std Dev of effluent data points	4.5	2.4	48	1.2	1.2
CV Calculated	0.37	0.82	0.41	1.6	1.6
CV (Selected) - Final	0.37	0.82	0.41	1.6	1.6

Pollutant	Copper	Cyanide	Zinc	Total Ammonia (acute)	Total Ammonia (chronic)
ECA Acute Mult99	0.47	0.24	0.44	0.14	-
ECA Chronic Mult99	0.67	0.43	0.64	-	0.83
LTA Acute	40	22	395	22	-
LTA Chronic	40	11	519	-	42
Minimum of LTAs	40	11	395	22	42
AMEL Mult95	1.3	1.8	1.4	2.5	1.5
MDEL Mult99	2.2	4.1	2.3	7.3	7.3
AMEL (Aquatic Life)	53	19	538	56	64
MDEL (Aquatic Life)	85	43	906	164	304
MDEL/AMEL Multiplier	1.6	2.3	1.7	2.9	4.8
AMEL (Human Health)	-	2,200,000	-	-	-
MDEL (Human Health)	-	5,100,000	-	-	-
Minimum of AMEL for Aq. Life vs HH	53	19	538	56	64
Minimum of MDEL for Aq. Life vs HH	85	43	906	154	304
Previous Order Limit - AMEL	42	18	450	56	56
Previous Order Limit - MDEL	76	42	910	150	150
Final Limit - AMEL	42	18	450	56	56
Final Limit - MDEL	76	42	910	150	150

- 4.3.4.4. **Acute Toxicity.** This Order includes acute toxicity effluent limitations based on Basin Plan Table 4-3. Based on Basin Plan section 3.3.20, if the Discharger can demonstrate that ammonia causes acute toxicity in excess of the acute toxicity limitations in this Order, and that the ammonia in the discharge complies with the ammonia effluent limitations in this Order, then such toxicity does not constitute a violation of the effluent limitations for whole effluent acute toxicity.
- 4.3.4.5. **Total Coliform Bacteria.** The total coliform bacteria effluent limitations are based on Basin Plan Table 4-2A, which requires these limitations for sanitary waste discharges to receiving waters with the shellfish harvesting beneficial use.
- 4.3.4.6. **Enterococcus Bacteria.** The enterococcus effluent limitations are based on the *Water Quality Control Plan for Inland Surface Waters, Enclosed Bays, and Estuaries of California – Part 3, Bacteria Provisions and a Water Quality*

Standards Variance Policy. This Order establishes a mixing zone associated with an initial dilution of 10:1 (D=9) to calculate the enterococcus effluent limitation (see Fact Sheet section 4.3.4.2.2). To establish background conditions, the Discharger collected two enterococcus receiving water samples near its outfall. The maximum sample result was 1 CFU/100 mL.

The enterococcus effluent limitation was calculated, as specified in SIP section 1.4, using the following equation:

$$ECA = C + D*(C - B)$$

where:

ECA = Effluent Concentration Allowance (effluent limitation)
C = Water quality objective (30 CFU/100 mL, 110 CFU/100mL)
D = Dilution factor (D=9)
B = Background concentration (1 CFU/100 mL)

This calculation results in a six-week rolling geometric mean enterococcus effluent limitation of 290 MPN/100 mL and a limitation of no more than 10 percent of enterococcus samples in a calendar month exceeding 1,100 CFU/100mL.

4.4. Discharge Requirement Considerations

- 4.4.1. **Anti-Backsliding.** This Order complies with the anti-backsliding provisions of CWA sections 402(o) and 303(d)(4), and 40 C.F.R. section 122.44(l), which generally require effluent limitations in a reissued permit to be as stringent as those in the previous order. The requirements of this Order are at least as stringent as those in the previous order.
- 4.4.2. **Antidegradation.** This Order complies with the antidegradation provisions of 40 C.F.R. section 131.12 and State Water Board Resolution 68-16. It does not authorize lowering water quality as compared to the level of discharge authorized in the previous order, which is the baseline by which to measure whether degradation will occur. This Order does not allow for an increased flow, a reduced level of treatment, or increased effluent limitations relative to the previous order.
- 4.4.3. **Stringency of Requirements for Individual Pollutants.** This Order contains both technology-based and water quality-based effluent limitations for individual pollutants. The technology-based requirements implement minimum, applicable federal technology-based requirements. In addition, this Order contains more stringent effluent limitations as necessary to meet water quality standards. Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement CWA requirements.

This Order's WQBELs have been derived to implement water quality objectives that protect beneficial uses. The beneficial uses and water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. To the extent that WQBELs were derived from the CTR, the CTR is the applicable standard pursuant to 40 C.F.R. section 131.38. The procedures for calculating these WQBELs are based on the CTR, as implemented in accordance with the SIP, which U.S. EPA approved on May 18, 2000. U.S. EPA approved most Basin Plan beneficial uses and water quality objectives prior to May 30, 2000. Beneficial uses and water quality objectives submitted to U.S. EPA prior to May 30, 2000, but not approved by U.S. EPA before that date, are nonetheless "applicable water quality standards for purposes of the CWA" pursuant to 40 C.F.R. section 131.21(c)(1). U.S. EPA approved the remaining beneficial uses and water quality objectives, so they are also applicable water quality standards pursuant to 40 C.F.R. section 131.21(c)(2).

5. RATIONALE FOR RECEIVING WATER LIMITATIONS

The receiving water limitations in sections 5.1 and 5.2 of the Order are based on Basin Plan narrative and numeric water quality objectives. The receiving water limitation in section 5.3 of the Order requires compliance with federal and State water quality standards in accordance with the CWA and regulations adopted thereunder.

6. RATIONALE FOR PROVISIONS

6.1. Standard Provisions

Attachment D contains standard provisions that apply to all NPDES permits in accordance with 40 C.F.R. section 122.41 and additional conditions applicable to specific categories of permits in accordance with 40 C.F.R. section 122.42. The Discharger must comply with these provisions. The conditions set forth in 40 C.F.R. sections 122.41(a)(1) and (b) through (n) apply to all state-issued NPDES permits and must be incorporated into permits either expressly or by reference.

In accordance with 40 C.F.R. section 123.25(a)(12), states may omit or modify conditions to impose more stringent requirements. Attachment G contains standard provisions that supplement the provisions in Attachment D. This Order omits the federal conditions that address enforcement authority specified in 40 C.F.R. sections 122.41(j)(5) and (k)(2) because the State's enforcement authority under the Water Code is more stringent. In lieu of these conditions, this Order incorporates Water Code section 13387(e) by reference.

6.2. Monitoring and Reporting Provisions

CWA section 308 and 40 C.F.R. sections 122.41(h), 122.41(j)-(l), 122.44(i), and 122.48 require that NPDES permits specify monitoring and reporting requirements.

Water Code section 13383 also authorize the Regional Water Board to establish monitoring, inspection, entry, reporting, and recordkeeping requirements. The MRP establishes monitoring, reporting, and recordkeeping requirements that implement federal and State requirements. For more information, see Fact Sheet section 7.

6.3. Special Provisions

6.3.1. Reopener Provisions

These provisions are based on 40 C.F.R. sections 122.62 and 122.63 and allow modification of this Order and its effluent limitations as necessary in response to updated water quality objectives, regulations, or other new and relevant information that may become available in the future, and other circumstances as allowed by law.

6.3.2. Effluent Characterization Study and Report

This Order does not include WQBELs for pollutants that do not demonstrate reasonable potential, but this provision requires the Discharger to evaluate monitoring data to verify that the reasonable potential analysis conclusions of this Order remain valid. This requirement is authorized pursuant to 40 C.F.R. section 122.41(h) and Water Code section 13383, and is necessary to inform the next permit reissuance and to ensure that the Discharger takes timely steps in response to any unanticipated change in effluent quality during the term of this Order.

6.3.3. Pollutant Minimization Program

This provision is based on Basin Plan section 4.13.2 and SIP section 2.4.5.

6.3.4. Special Provisions for Publicly-Owned Treatment Works

6.3.4.1. Sludge and Biosolids Management. This provision is based on Basin Plan section 4.17. “Sludge” refers to the solid, semisolid, and liquid residue removed during primary, secondary, and advanced wastewater treatment processes. “Biosolids” refers to sludge that has been treated and may be beneficially reused.

6.3.4.2. Collection System Management. The Discharger’s collection system is part of the Facility regulated through this Order. This provision requires compliance with Attachments D and G and states that these requirements may be satisfied by separately complying with State Water Board Order 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, as amended by State Water Board Order WQ 2013-0058-EXEC and any subsequent order updating these requirements. These statewide WDRs require public agencies that own or operate sanitary

sewer systems with one or more miles of sewer lines to enroll for coverage and comply with requirements to develop sanitary sewer management plans and report sanitary sewer overflows, among other provisions and prohibitions. The statewide WDRs contain requirements for operation and maintenance of collection systems and for reporting and mitigating sanitary sewer overflows that are more extensive and, therefore, more stringent than the standard provisions in Attachments D and G. Compliance with the statewide WDRs will satisfy the corresponding requirements in Attachments D and G.

- 6.3.4.3. **Resource Recovery from Anaerobically Digestible Material.** Standard Operating Procedures are required for publicly-owned treatment works that accept hauled waste food, fats, oil, and grease for injection into anaerobic digesters. The development and implementation of Standard Operating Procedures for management of these materials is intended to allow the California Department of Resources Recycling and Recovery to exempt this activity from separate and redundant permitting programs. Some POTWs choose to accept organic material, such as waste food, fats, oils, and grease, into their anaerobic digesters to increase production of methane and other biogases for energy production and to prevent such materials from being discharged into the collection system and potentially causing sanitary sewer overflows. The California Department of Resources Recycling and Recovery has proposed to exempt publicly-owned treatment works from Process Facility/Transfer Station permit requirements when the same activity is regulated under WDRs or NPDES permits. The proposed exemption is restricted to anaerobically digestible materials that have been prescreened, slurried, processed, and conveyed in a closed system for codigestion with regular sewage sludge. The exemption requires that the publicly-owned treatment works develop Standard Operating Procedures for proper handling, processing, tracking, and management of anaerobically digestible material.

6.3.5. Other Special Provisions

- 6.3.5.1. **Copper Action Plan.** This provision is based on Basin Plan section 7.2.1.2 and is necessary to ensure that use of copper site-specific objectives is consistent with antidegradation policies. This Order requires the Discharger to implement source control and pollution prevention for identified sources. Additional actions may be necessary depending on the three-year rolling mean copper concentration in Central San Francisco Bay. Data the San Francisco Estuary Institute compiled for 2011-2015 indicate no degradation of San Francisco Bay water quality with respect to copper (<https://www.sfei.org/pages/copper-site-specific-objective-3-year-rolling-averages-0>).

- 6.3.5.2. **Cyanide Action Plan.** This provision is based on Basin Plan section 4.7.2.2 and is necessary to ensure that use of cyanide site-specific objectives is consistent with antidegradation policies. The threshold for considering influent cyanide concentrations to indicate a possible “significant cyanide discharge” in the Discharger’s service area is set at 14 µg/L. This concentration is 1.5 times the maximum cyanide concentration (9.5 µg/L) found in the treatment plant influent during the previous order term. Because the Discharger has observed no influent cyanide concentrations greater than 9.5 µg/L during the previous permit term, if influent concentrations 1.5 times this level were observed, there could be a significant cyanide source.
- 6.3.5.3. **Average Annual Selenium Load.** This provision is based on Basin Plan section 7.2.4.5. The information will be used to confirm that selenium loads are consistent with wasteload allocations established in the North San Francisco Bay Selenium TMDL. The requirements regarding treatment of estimated and non-detect values are consistent with the load calculations performed for the TMDL.
- 6.3.5.4. **Ultraviolet (UV) Disinfection Installation.** This provision is necessary to ensure that UV disinfection is installed correctly to operate effectively and reliably. Notification regarding new system installation and operation will eliminate the need for chlorine monitoring (except when the UV disinfection system is out of service); therefore, MRP Table E-3, footnote 4, eliminates such monitoring upon discontinuing chlorine use.

7. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

The following provides the rationale for the monitoring and reporting requirements in the MRP.

7.1. Monitoring Requirements Rationale

- 7.1.1. **Influent Monitoring.** Influent flow monitoring is necessary to understand Facility operations and to evaluate compliance with Prohibition 3.4, which prohibits average dry weather influent flow greater than 0.04 MGD. Influent BOD and TSS monitoring are necessary to evaluate compliance with this Order’s 85 percent removal requirement. Basin Plan section 4.7.2.2 requires influent cyanide monitoring because this Order is based on site-specific cyanide water quality objectives.
- 7.1.2. **Effluent Monitoring.** Effluent monitoring at Monitoring Location EFF-001 is necessary to evaluate compliance with this Order’s effluent limitations and to conduct future reasonable potential analyses. Effluent monitoring at Monitoring Location EFF-001D (after disinfection and before dechlorination) is necessary to ensure that enterococcus and total coliform bacteria samples are not affected by potential bacteria regrowth. Enterococcus and total coliform bacteria

monitoring can occur at Monitoring Location EFF-001 if bacteria regrowth does not significantly affect the samples.

The allowance for determining false positives for chlorine residual when using continuous devices is based on the fact that continuous instruments occasionally have anomalous spikes, and it is chemically improbable to have free chlorine present in the presence of the dechlorinating agent.

- 7.1.3. **Toxicity Monitoring.** Acute toxicity tests are necessary to evaluate compliance with this Order's acute toxicity effluent limitations.
- 7.1.4. **Receiving Water Monitoring.** The Discharger is required to continue participating in the Regional Monitoring Program, which involves collecting data on pollutants and toxicity in San Francisco Bay water, sediment, and biota. This monitoring is necessary to characterize the receiving water and the effects of the discharge this Order authorizes.
- 7.1.5. **Recycled Water Monitoring.** The recycled water monitoring and reporting requirements incorporate the existing requirements of State Water Board Order WQ 2019-0037-EXEC (Amending Monitoring and Reporting Programs for Waste Discharge Requirements, National Pollutant Discharge Elimination System Permits, Water Reclamation Requirements, Master Recycling Permits, and General Waste Discharge Requirements), issued on July 24, 2019, pursuant to Water Code sections 13267 and 13383.
- 7.1.6. **Other Monitoring Requirements.** Pursuant to CWA section 308, U.S. EPA requires some dischargers to participate in a Discharge Monitoring Report-Quality Assurance (DMR-QA) Study Program that evaluates the analytical abilities of laboratories that perform or support NPDES permit-required monitoring. The program applies to discharger laboratories and contract laboratories, and evaluates each laboratory's ability to analyze wastewater samples to produce quality data that ensure the integrity of the NPDES program. There are two options to comply: (1) the Discharger may obtain and analyze DMR-QA samples, or (2) pursuant to a waiver U.S. EPA issued to the State Water Board, the Discharger may submit results from the most recent Water Pollution Performance Evaluation Study. MRP section 1.4 requires the Discharger to ensure that the results of the DMR-QA Study or most recent Water Pollution Performance Evaluation Study are submitted to the State Water Board, which forwards the results to U.S. EPA.
- 7.2. **Monitoring Requirements Summary.** The table below summarizes routine monitoring requirements. This table is for informational purposes only. The actual requirements are specified in the MRP and elsewhere in this Order. In addition to undertaking the monitoring below, the Discharger must conduct receiving water monitoring by continuing to participate in the Regional Monitoring Program.

Table F-9. Monitoring Requirements Summary

Parameter ^[1]	Influent INF-001 ^[2]	Effluent EFF-001 (or EFF-001D) ^[2]
Flow	Continuous/D	Continuous/D
BOD	1/Quarter	1/Quarter
TSS	1/Month	1/Month
Oil and Grease	-	1/Year
pH	-	5/Week
Chlorine, Total Residual	-	Continuous/D or 5/Week
Enterococcus Bacteria	-	1/Quarter
Total Coliform Bacteria	-	1/Quarter
Acute Toxicity	-	1/Year
Ammonia, Total	-	1/Quarter
Copper, Total Recoverable	-	1/Quarter
Cyanide, Total	1/Year	1/Quarter
Zinc, Total Recoverable	-	1/Quarter
Priority Pollutants	-	Once

Footnotes:

^[1] The Discharger must also comply with the monitoring requirements in the Mercury and PCBs Watershed Permit (NPDES Permit CA0038849) and the Nutrients Watershed Permit (NPDES Permit CA0038873).

^[2] The MRP defines these monitoring locations and sampling frequencies.

8. PUBLIC PARTICIPATION

The Regional Water Board considered the issuance of WDRs that will serve as an NPDES permit for the Facility. As a step in the WDR adoption process, Regional Water Board staff developed tentative WDRs and encouraged public participation in the WDR adoption process.

8.1. Notification of Interested Parties. The Regional Water Board notified the Discharger and interested agencies and persons of its intent to prescribe WDRs for the discharge, and provided an opportunity to submit written comments and recommendations. The public had access to the agenda and any changes in dates and locations through the [Regional Water Board's website](http://waterboards.ca.gov/sanfranciscobay) (waterboards.ca.gov/sanfranciscobay).

8.2. Written Comments. Interested persons were invited to submit written comments concerning the tentative WDRs as explained through the notification process. Comments were to be submitted either in person or by mail to the Executive Office at the Regional Water Board at 1515 Clay Street, Suite 1400, Oakland, California 94612, to the attention of James Parrish.

For full staff response and Regional Water Board consideration, the written comments were due at the Regional Water Board office by 5:00 p.m. on August 9, 2021.

8.3. Public Hearing. The Regional Water Board held a public hearing on the tentative WDRs during its meeting at the following date and time:

Date: September 8, 2021
Time: 9:00 a.m.

Contact: James Parrish, (510) 622-2381, James.Parrish@waterboards.ca.gov

Interested persons were provided notice of the hearing and information on how to participate. At the public hearing, the Regional Water Board heard testimony pertinent to the discharge, WDRs, and permit. For accuracy of the record, important testimony was requested to be in writing.

Dates and venues can change. The [Regional Water Board's website](http://waterboards.ca.gov/sanfranciscobay) is (waterboards.ca.gov/sanfranciscobay), where one can access the current agenda for changes.

8.4. Reconsideration of Waste Discharge Requirements. Any person aggrieved by this Regional Water Board action may petition the State Water Board to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050. The State Water Board must receive the petition at the following address within 30 calendar days of the date of Regional Water Board action:

State Water Resources Control Board
Office of Chief Counsel
P.O. Box 100, 1001 I Street
Sacramento, CA 95812-0100

A petition may also be filed by email at waterqualitypetitions@waterboards.ca.gov.

For instructions on how to file a water quality petition for review, see the [Water Board's petition instructions](http://waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_instr.shtml) (waterboards.ca.gov/public_notices/petitions/water_quality/wqpetition_instr.shtml).

8.5. Information and Copying. The Report of Waste Discharge, related supporting documents, and comments received are on file and may be inspected at the Regional Water Board address above at any time online or by making an appointment with the Regional Water Board's custodian of records. Document copying may be arranged by calling (510) 622-2300.

8.6. Register of Interested Persons. Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Regional Water Board, reference the Facility, and provide a name, address, and phone number.

8.7. Additional Information. Requests for additional information or questions regarding this Order should be directed to James Parrish, (510) 622-2381, James.Parrish@waterboards.ca.gov.

**ATTACHMENT G – REGIONAL STANDARD PROVISIONS,
AND MONITORING AND REPORTING REQUIREMENTS
(SUPPLEMENT TO ATTACHMENT D)**

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**ATTACHMENT G – REGIONAL STANDARD PROVISIONS,
AND MONITORING AND REPORTING REQUIREMENTS
(SUPPLEMENT TO ATTACHMENT D)**

APPLICABILITY

This document supplements the requirements of Federal Standard Provisions (Attachment D). For clarity, these provisions are arranged using the same headings as those used in Attachment D.

1. STANDARD PROVISIONS – PERMIT COMPLIANCE

1.1. Duty to Comply – Not Supplemented

1.2. Need to Halt or Reduce Activity Not a Defense – Not Supplemented

1.3. Duty to Mitigate – Supplement to Attachment D, Provision 1.3.

1.3.1. Contingency Plan. The Discharger shall maintain a Contingency Plan as prudent in accordance with current facility emergency planning. The Contingency Plan shall describe procedures to ensure that existing facilities remain in, or are rapidly returned to, operation in the event of a process failure or emergency incident, such as employee strike, strike by suppliers of chemicals or maintenance services, power outage, vandalism, earthquake, or fire. The Discharger may combine the Contingency Plan and Spill Prevention Plan (see Provision 1.3.2, below) into one document. In accordance with Regional Water Board Resolution No. 74-10, discharge in violation of the permit where the Discharger has failed to develop and implement a Contingency Plan as described below may be the basis for considering the discharge a willful and negligent violation of the permit pursuant to California Water Code section 13387. The Contingency Plan shall, at a minimum, provide for the following:

- 1.3.1.1. Sufficient personnel for continued facility operation and maintenance during employee strikes or strikes against contractors providing services;
- 1.3.1.2. Maintenance of adequate chemicals or other supplies, and spare parts necessary for continued facility operations;
- 1.3.1.3. Emergency standby power;
- 1.3.1.4. Protection against vandalism;
- 1.3.1.5. Expedient action to repair failures of, or damage to, equipment, including any sewer lines;

- 1.3.1.6. Reporting of spills and discharges of untreated or inadequately treated wastes, including measures taken to clean up the effects of such discharges; and
- 1.3.1.7. Maintenance, replacement, and surveillance of physical condition of equipment and facilities, including any sewer lines.
- 1.3.2. **Spill Prevention Plan.** The Discharger shall maintain a Spill Prevention Plan to prevent accidental discharges and to minimize the effects of any such discharges. The Spill Prevention Plan shall do the following:
 - 1.3.2.1. Identify the possible sources of accidental discharge, untreated or partially-treated waste bypass, and polluted drainage;
 - 1.3.2.2. State when current facilities and procedures became operational and evaluate their effectiveness; and
 - 1.3.2.3. Predict the effectiveness of any proposed facilities and procedures and provide an implementation schedule with interim and final dates when the proposed facilities and procedures will be constructed, implemented, or operational.

1.4. Proper Operation and Maintenance – Supplement to Attachment D, Provision 1.4

- 1.4.1. **Operation and Maintenance Manual.** The Discharger shall maintain an Operation and Maintenance Manual to provide the plant and regulatory personnel with a source of information describing all equipment, recommended operational strategies, process control monitoring, and maintenance activities. To remain a useful and relevant document, the Operation and Maintenance Manual shall be kept updated to reflect significant changes in treatment facility equipment and operational practices. The Operation and Maintenance Manual shall be maintained in usable condition and be available for reference and use by all relevant personnel and Regional Water Board staff.
- 1.4.2. **Wastewater Facilities Status Report.** The Discharger shall maintain a Wastewater Facilities Status Report and regularly review, revise, or update it, as necessary. This report shall document how the Discharger operates and maintains its wastewater collection, treatment, and disposal facilities to ensure that all facilities are adequately staffed, supervised, financed, operated, maintained, repaired, and upgraded as necessary to provide adequate and reliable transport, treatment, and disposal of all wastewater from both existing and planned future wastewater sources under the Discharger's service responsibilities.
- 1.4.3. **Proper Supervision and Operation of Publicly-Owned Treatment Works (POTWs).** POTWs shall be supervised and operated by persons possessing

certificates of appropriate grade pursuant to Title 23, section 3680, of the California Code of Regulations.

1.5. Property Rights – Not Supplemented

1.6. Inspection and Entry – Not Supplemented

1.7. Bypass – Not Supplemented

1.8. Upset – Not Supplemented

1.9. Other – Addition to Attachment D

1.9.1. Neither the treatment nor the discharge of pollutants shall create pollution, contamination, or nuisance as defined by California Water Code section 13050.

1.9.2. Collection, treatment, storage, and disposal systems shall be operated in a manner that precludes public contact with wastewater. If public contact with wastewater could reasonably occur on public property, warning signs shall be posted.

1.9.3. If the Discharger submits a timely and complete Report of Waste Discharge for permit reissuance, this permit shall continue in force and effect until the permit is reissued or the Regional Water Board rescinds the permit.

2. STANDARD PROVISIONS – PERMIT ACTION – NOT SUPPLEMENTED

3. STANDARD PROVISIONS – MONITORING

3.1. Sampling and Analyses – Supplement to Attachment D, Provisions 3.1 and 3.2

3.1.1. **Certified Laboratories.** Water and waste analyses shall be performed by a laboratory certified for these analyses in accordance with California Water Code section 13176.

3.1.2. **Minimum Levels.** For the 126 priority pollutants, the Discharger should use the analytical methods listed in Table B unless the Monitoring and Reporting Program (MRP, Attachment E) requires a particular method or minimum level (ML). All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

3.1.3. **Monitoring Frequency.** The MRP specifies the minimum sampling and analysis schedule.

3.1.3.1. Sample Collection Timing

3.1.3.1.1. The Discharger shall collect influent samples on varying days selected at random and shall not include any plant recirculation or other sidestream

wastes, unless otherwise stipulated in the MRP. The Executive Officer may approve an alternative influent sampling plan if it is representative of plant influent and complies with all other permit requirements.

- 3.1.3.1.2. The Discharger shall collect effluent samples on days coincident with influent sampling, unless otherwise stipulated by the MRP. If influent sampling is not required, the Discharger shall collect effluent samples on varying days selected at random, unless otherwise stipulated in the MRP. The Executive Officer may approve an alternative effluent sampling plan if it is representative of plant discharge and in compliance with all other permit requirements.
- 3.1.3.1.3. The Discharger shall collect effluent grab samples during periods of daytime maximum peak flows (or peak flows through secondary treatment units for facilities that recycle effluent).
- 3.1.3.1.4. Effluent sampling for conventional pollutants shall occur on at least one day of any multiple-day bioassay the MRP requires. During the course of the bioassay, on at least one day, the Discharger shall collect and retain samples of the discharge. In the event that a bioassay result does not comply with effluent limitations, the Discharger shall analyze the retained samples for pollutants that could be toxic to aquatic life and for which it has effluent limitations.
 - 3.1.3.1.4.1. The Discharger shall perform bioassays on final effluent samples; when chlorine is used for disinfection, bioassays shall be performed on effluent after chlorination and dechlorination; and
 - 3.1.3.1.4.2. The Discharger shall analyze for total ammonia nitrogen and calculate the amount of un-ionized ammonia whenever test results fail to meet effluent limitations.

3.1.3.2. **Conditions Triggering Accelerated Monitoring**

- 3.1.3.2.1. **Average Monthly Effluent Limitation Exceedance.** If the results from two consecutive samples of a constituent monitored in a particular month exceed the average monthly effluent limitation for any parameter (or if the required sampling frequency is once per month or less and the monthly sample exceeds the average monthly effluent limitation), the Discharger shall, within 24 hours after the results are received, increase its sampling frequency to daily until the results from the additional sampling show that the parameter complies with the average monthly effluent limitation.
- 3.1.3.2.2. **Maximum Daily Effluent Limitation Exceedance.** If a sample result exceeds a maximum daily effluent limitation, the Discharger shall, within 24 hours after the result is received, increase its sampling frequency to

daily until the results from two samples collected on consecutive days show compliance with the maximum daily effluent limitation.

- 3.1.3.2.3. **Acute Toxicity.** If final or intermediate results of an acute bioassay indicate a violation or threatened violation (e.g., the percentage of surviving test organisms of any single acute bioassay is less than 70 percent), the Discharger shall initiate a new test as soon as practical or as described in applicable State Water Board plan provisions that become effective after adoption of these Regional Standard Provisions. The Discharger shall investigate the cause of the mortalities and report its findings in the next self-monitoring report.
- 3.1.3.2.4. **Chlorine.** The Discharger shall calibrate chlorine residual analyzers against grab samples as frequently as necessary to maintain accurate control and reliable operation. If an effluent violation is detected, the Discharger shall collect grab samples at least every 30 minutes until compliance with the limitation is achieved, unless the Discharger monitors chlorine residual continuously. In such cases, the Discharger shall continue to conduct continuous monitoring.
- 3.1.3.2.5. **Bypass.** Except as indicated below, if a Discharger bypasses any portion of its treatment facility, it shall monitor flows and collect samples at affected discharge points and analyze samples for all constituents with effluent limitations on a daily basis for the duration of the bypass. The Discharger need not accelerate chronic toxicity monitoring. The Discharger also need not collect and analyze samples for mercury, dioxin-TEQ, and PCBs after the first day of the bypass. The Discharger may satisfy the accelerated acute toxicity monitoring requirement by conducting a flow-through test or static renewal test that captures the duration of the bypass (regardless of the method specified in the MRP). If bypassing disinfection units only, the Discharger shall only monitor bacteria indicators daily.
- 3.1.3.2.5.1. **Bypass for Essential Maintenance.** If a Discharger bypasses a treatment unit for essential maintenance pursuant to Attachment D section 1.7.2, the Executive Officer may reduce the accelerated monitoring requirements above if the Discharger (i) monitors effluent at affected discharge points on the first day of the bypass for all constituents with effluent limitations, except chronic toxicity; and (ii) identifies and implements measures to ensure that the bypass will continue to comply with effluent limitations.
- 3.1.3.2.5.2. **Approved Wet Weather Bypasses.** If a Discharger bypasses a treatment unit or permitted outfall during wet weather with Executive Officer approval pursuant to Attachment D section 1.7.4, the Discharger shall monitor flows and collect and retain samples for affected

discharge points on a daily basis for the duration of the bypass. The Discharger shall analyze daily for TSS using 24 hour composites (or more frequent increments) and for bacteria indicators with effluent limitations using grab samples. If TSS exceeds 45 mg/L in any composite sample, the Discharger shall also analyze daily the retained samples for all other constituents with effluent limitations, except oil and grease, mercury, PCBs, dioxin-TEQ, and acute and chronic toxicity. Additionally, at least once each year, the Discharger shall analyze the retained samples for one approved bypass for all other constituents with effluent limitations, except oil and grease, mercury, PCBs, dioxin-TEQ, and acute and chronic toxicity. This monitoring shall be in addition to the minimum monitoring specified in the MRP.

3.2. Standard Observations – Addition to Attachment D

- 3.2.1. **Receiving Water Observations.** The following requirements only apply when the MRP requires standard observations of receiving waters. Standard observations shall include the following:
- 3.2.1.1. **Floating and Suspended Materials (e.g., oil, grease, algae, and other macroscopic particulate matter)** — presence or absence, source, and size of affected area.
 - 3.2.1.2. **Discoloration and Turbidity** — color, source, and size of affected area.
 - 3.2.1.3. **Odor** — presence or absence, characterization, source, and distance of travel.
 - 3.2.1.4. **Beneficial Water Use** — estimated number of water-associated waterfowl or wildlife, fisherpeople, and other recreational activities.
 - 3.2.1.5. **Hydrographic Condition** — time and height of high and low tides (corrected to nearest National Oceanic and Atmospheric Administration location for the sampling date and time).
 - 3.2.1.6. **Weather Conditions** — wind direction, air temperature, and total precipitation during five days prior to observation.
- 3.2.2. **Wastewater Effluent Observations.** The following requirements only apply when the MRP requires standard observations of wastewater effluent. Standard observations shall include the following:
- 3.2.2.1. **Floating and Suspended Material of Wastewater Origin** (e.g., oil, grease, algae, and other macroscopic particulate matter) — presence or absence.
 - 3.2.2.2. **Odor** — presence or absence, characterization, source, distance of travel, and wind direction.

3.2.3. **Beach and Shoreline Observations.** The following requirements only apply when the MRP requires standard observations of beaches or shorelines. Standard observations shall include the following:

3.2.3.1. **Material of Wastewater Origin** — presence or absence, description of material, estimated size of affected area, and source.

3.2.3.2. **Beneficial Use** — estimate of number of people participating in recreational water contact, non-water contact, and fishing activities.

3.2.4. **Waste Treatment and/or Disposal Facility Periphery Observations.** The following requirements only apply when the MRP requires standard observations of the periphery of waste treatment or disposal facilities. Standard observations shall include the following:

3.2.4.1. **Odor** — presence or absence, characterization, source, and distance of travel.

3.2.4.2. **Weather Conditions** — wind direction and estimated velocity.

4. STANDARD PROVISIONS – RECORDS

4.1. Records to be Maintained – Supplement to Attachment D, Provision 4.1

The Discharger shall maintain records in a manner and at a location (e.g., the wastewater treatment plant or the Discharger's offices) such that the records are accessible to Regional Water Board staff. The minimum retention period specified in Attachment D, Provision IV, shall be extended during the course of any unresolved litigation regarding permit-related discharges, or when requested by Regional Water Board or U.S. EPA, Region IX, staff.

A copy of the permit shall be maintained at the discharge facility and be available at all times to operating personnel.

4.2. Records of Monitoring – Supplement to Attachment D, Provision 4.2

Monitoring records shall include the following:

4.2.1. **Analytical Information.** Records shall include analytical method detection limits, minimum levels, reporting levels, and related quantification parameters.

4.2.2. **Disinfection Process.** For the disinfection process, records shall include the following:

4.2.2.1. For bacteriological analyses:

4.2.2.1.1. Wastewater flow rate at the time of sample collection; and

- 4.2.2.1.2. Required statistical parameters for cumulative bacterial values (e.g., moving median or geometric mean for the number of samples or sampling period identified in the MRP).
- 4.2.2.2. For the chlorination process (when chlorine is used for disinfection), at least daily average values for the following:
 - 4.2.2.2.1. Chlorine residual of treated wastewater as it enters the chlorine contact basin (mg/L);
 - 4.2.2.2.2. Chlorine dosage (kg/day); and
 - 4.2.2.2.3. Dechlorination chemical dosage (kg/day).
- 4.2.3. **Wastewater Treatment Process Solids.** For each treatment unit process that involves solids removal from the wastewater stream, records shall include the following:
 - 4.2.3.1. Total volume or mass of solids removed from each collection unit (e.g., grit, skimmings, undigested biosolids, or combination) for each calendar month or other time period as appropriate, but not to exceed annually; and
 - 4.2.3.2. Final disposition of such solids (e.g., landfill, other subsequent treatment unit).
- 4.2.4. **Treatment Process Bypasses.** For all treatment process bypasses, including wet weather blending, records shall include the following:
 - 4.2.4.1. Chronological log of treatment process bypasses;
 - 4.2.4.2. Identification of treatment processes bypassed;
 - 4.2.4.3. Beginning and ending dates and times of bypasses;
 - 4.2.4.4. Bypass durations;
 - 4.2.4.5. Estimated bypass volumes; and
 - 4.2.4.6. Description of, or reference to other reports describing, the bypasses, their cause, the corrective actions taken (except for wet weather blending explicitly approved within the permit and in compliance with any related permit conditions), and any additional monitoring conducted.
- 4.2.5. **Treatment Plant Overflows.** The Discharger shall retain a chronological log of overflows at the treatment plant, including the headworks and all units and appurtenances downstream, and records supporting the information provided in accordance with Provision 5.5.2, below.

4.3. Claims of Confidentiality – Not Supplemented

5. STANDARD PROVISIONS – REPORTING

5.1. Duty to Provide Information – Not Supplemented

5.2. Signatory and Certification Requirements – Not Supplemented

5.3. Monitoring Reports – Supplement to Attachment D, Provision 5.3

5.3.1. **Self-Monitoring Reports.** For each reporting period established in the MRP, the Discharger shall submit a self-monitoring report to the Regional Water Board in accordance with the requirements listed in the MRP and below:

5.3.1.1. **Transmittal Letter.** Each self-monitoring report shall be submitted with a transmittal letter that includes the following:

- 5.3.1.1.1. Identification of all violations of effluent limitations or other waste discharge requirements found during the reporting period;
- 5.3.1.1.2. Details regarding the violations, such as parameters, magnitude, test results, frequency, and dates;
- 5.3.1.1.3. Causes of the violations;
- 5.3.1.1.4. Corrective actions taken or planned to resolve violations and prevent recurrences, and dates or time schedules for implementation (the Discharger may refer to previously submitted reports that address the corrective actions);
- 5.3.1.1.5. Explanation for any data invalidation. Data should not be submitted in a self-monitoring report if it does not meet quality assurance/quality control standards. However, if the Discharger wishes to invalidate a measurement after submitting it in a self-monitoring report, the Discharger shall identify the measurement suspected to be invalid and state the Discharger's intent to submit, within 60 days, a formal request to invalidate the measurement. The formal request shall include the original measurement in question, the reason for invalidating the measurement, all relevant documentation that supports invalidation (e.g., laboratory sheet, log entry, test results), and a discussion of the corrective actions taken or planned (with a time schedule for completion) to prevent recurrence of the sampling or measurement problem;
- 5.3.1.1.6. Description of blending, if any. If the Discharger blends, it shall describe the duration of blending events and certify whether the blending complied with all conditions for blending;

- 5.3.1.1.7. Description of other bypasses, if any. If the Discharger bypasses any treatment units (other than blending), it shall describe the duration of the bypasses and effluent quality during those times; and
- 5.3.1.1.8. Signature. The transmittal letter shall be signed in accordance with Attachment D, Provision 5.2.
- 5.3.1.2. **Compliance Evaluation Summary.** Each self-monitoring report shall include a compliance evaluation summary that addresses each parameter for which the permit specifies effluent limitations, the number of samples taken during the monitoring period, and the number of samples that exceed the effluent limitations.
- 5.3.1.3. **More Frequent Monitoring.** If the Discharger monitors any pollutant more frequently than required by the MRP, the Discharger shall include the results of such monitoring in the calculation and reporting of the data submitted in the self-monitoring report.
- 5.3.1.4. **Analysis Results**
- 5.3.1.4.1. **Tabulation.** Each self-monitoring report shall include tabulations of all required analyses and observations, including parameters, dates, times, sample stations, types of samples, test results, method detection limits, method minimum levels, and method reporting levels (if applicable), signed by the laboratory director or other responsible official.
- 5.3.1.4.2. **Multiple Samples.** Unless the MRP specifies otherwise, when determining compliance with effluent limitations (other than instantaneous effluent limitations) and more than one sample result is available, the Discharger shall compute the arithmetic mean. If the data set contains one or more results that are “Detected, but Not Quantified (DNQ) or “Not Detected” (ND), the Discharger shall instead compute the median in accordance with the following procedure:
- 5.3.1.4.2.1. The data set shall be ranked from low to high, reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
- 5.3.1.4.2.2. The median of the data set shall be determined. If the data set has an odd number of data points, the median is the middle value. If the data set has an even number of data points, the median is the average of the two values around the middle, unless one or both of these values is ND or DNQ, in which case the median shall be the lower of the two results (where DNQ is lower than a quantified value and ND is lower than DNQ).

5.3.1.4.3. **Duplicate Samples.** The Discharger shall report the average of duplicate sample analyses when reporting for a single sample result (or the median if one or more of the duplicates is DNQ or ND [see Provision 5.3.1.4.2, above]). For bacteria indicators, the Discharger shall report the geometric mean of the duplicate analyses.

5.3.1.4.4. **Dioxin-TEQ.** The Discharger shall report for each dioxin and furan congener the analytical results of effluent monitoring, including the reporting level, the method detection limit, and the measured concentration. The Discharger shall report all measured values of individual congeners, including data qualifiers. When calculating dioxin-TEQ, the Discharger shall set congener concentrations below the minimum levels (MLs) to zero. The Discharger shall calculate and report dioxin-TEQ using the following formula, where the MLs, toxicity equivalency factors (TEFs), and bioaccumulation equivalency factors (BEFs) are as provided in Table A:

$$\text{Dioxin-TEQ} = \sum (C_x \times \text{TEF}_x \times \text{BEF}_x)$$

where: C_x = measured or estimated concentration of congener x
 TEF_x = toxicity equivalency factor for congener x
 BEF_x = bioaccumulation equivalency factor for congener x

Table A
Minimum Levels, Toxicity Equivalency Factors,
and Bioaccumulation Equivalency Factors

Dioxin or Furan Congener	Minimum Level (pg/L)	2005 Toxicity Equivalency Factor (TEF)	Bioaccumulation Equivalency Factor (BEF)
2,3,7,8-TCDD	10	1.0	1.0
1,2,3,7,8-PeCDD	50	1.0	0.9
1,2,3,4,7,8-HxCDD	50	0.1	0.3
1,2,3,6,7,8-HxCDD	50	0.1	0.1
1,2,3,7,8,9-HxCDD	50	0.1	0.1
1,2,3,4,6,7,8-HpCDD	50	0.01	0.05
OCDD	100	0.0003	0.01
2,3,7,8-TCDF	10	0.1	0.8
1,2,3,7,8-PeCDF	50	0.03	0.2
2,3,4,7,8-PeCDF	50	0.3	1.6
1,2,3,4,7,8-HxCDF	50	0.1	0.08
1,2,3,6,7,8-HxCDF	50	0.1	0.2
1,2,3,7,8,9-HxCDF	50	0.1	0.6
2,3,4,6,7,8-HxCDF	50	0.1	0.7
1,2,3,4,6,7,8-HpCDF	50	0.01	0.01
1,2,3,4,7,8,9-HpCDF	50	0.01	0.4
OCDF	100	0.0003	0.02

- 5.3.1.5. **Results Not Yet Available.** The Discharger shall make all reasonable efforts to obtain analytical data for required parameter sampling in a timely manner. Certain analyses may require additional time to complete analytical processes and report results. In these cases, the Discharger shall describe the circumstances in the self-monitoring report and include the data for these parameters and relevant discussions of any violations in the next self-monitoring report due after the results are available.
- 5.3.1.6. **Annual Self-Monitoring Reports.** By the date specified in the MRP, the Discharger shall submit an annual self-monitoring report covering the previous calendar year. The report shall contain the following:
- 5.3.1.6.1. Comprehensive discussion of treatment plant performance, including documentation of any blending or other bypass events, and compliance with the permit. This discussion shall include any corrective actions taken or planned, such as changes to facility equipment or operation practices that may be needed to achieve compliance, and any other actions taken or planned that are intended to improve the performance and reliability of wastewater collection, treatment, or disposal practices;
 - 5.3.1.6.2. List of approved analyses, including the following:
 - 5.3.1.6.2.1. List of analyses for which the Discharger is certified;
 - 5.3.1.6.2.2. List of analyses performed for the Discharger by a separate certified laboratory (copies of reports signed by the laboratory director of that laboratory need not be submitted but shall be retained onsite); and
 - 5.3.1.6.2.3. List of “waived” analyses, as approved;
 - 5.3.1.6.3. Plan view drawing or map showing the Discharger’s facility, flow routing, and sampling and observation station locations; and
 - 5.3.1.6.4. Results of facility report reviews. The Discharger shall regularly review, revise, and update, as necessary, the Operation and Maintenance Manual, Contingency Plan, Spill Prevention Plan, and Wastewater Facilities Status Report so these documents remain useful and relevant to current practices. At a minimum, reviews shall be conducted annually. The Discharger shall describe or summarize its review and evaluation procedures, recommended or planned actions, and estimated time schedule for implementing these actions. The Discharger shall complete changes to these documents to ensure that they remain up-to-date.

5.4. Compliance Schedules – Not supplemented

5.5. Twenty-Four Hour Reporting – Supplement to Attachment D, Provision 5.5

5.5.1. Oil or Other Hazardous Material Spills

- 5.5.1.1. Within 24 hours of becoming aware of a spill of oil or other hazardous material not contained onsite and completely cleaned up, the Discharger shall report as follows:
- 5.5.1.1.1. If the spill exceeds reportable quantities for hazardous materials listed in 40 C.F.R. part 302. The Discharger shall call the California Office of Emergency Services (800 852-7550).
 - 5.5.1.1.2. If the spill does not exceed reportable quantities for hazardous materials listed in 40 C.F.R., part 302, the Discharger shall call the Regional Water Board (510-622-2369).
- 5.5.1.2. The Discharger shall submit a written report to the Regional Water Board within five working days following either of the above telephone notifications unless directed otherwise by Regional Water Board staff. A report submitted electronically is acceptable. The written report shall include the following:
- 5.5.1.2.1. Date and time of spill, and duration if known;
 - 5.5.1.2.2. Location of spill (street address or description of location);
 - 5.5.1.2.3. Nature of material spilled;
 - 5.5.1.2.4. Quantity of material spilled;
 - 5.5.1.2.5. Receiving water body affected, if any;
 - 5.5.1.2.6. Cause of spill;
 - 5.5.1.2.7. Estimated size of affected area;
 - 5.5.1.2.8. Observed impacts to receiving waters (e.g., oil sheen, fish kill, water discoloration);
 - 5.5.1.2.9. Corrective actions taken to contain, minimize, or clean up the spill;
 - 5.5.1.2.10. Future corrective actions planned to prevent recurrence, and implementation schedule; and
 - 5.5.1.2.11. Persons or agencies notified.

5.5.2. **Unauthorized Municipal Wastewater Treatment Plant Discharges**¹

5.5.2.1. **Two-Hour Notification.** For any unauthorized discharge that enters a drainage channel or surface water, the Discharger shall, as soon as possible, but not later than two hours after becoming aware of the discharge, notify the California Office of Emergency Services (800-852-7550) and the local health officer or director of environmental health with jurisdiction over the affected water body. Notification shall include the following:

- 5.5.2.1.1. Incident description and cause;
- 5.5.2.1.2. Location of threatened or involved waterways or storm drains;
- 5.5.2.1.3. Date and time that the unauthorized discharge started;
- 5.5.2.1.4. Estimated quantity and duration of the unauthorized discharge (to the extent known), and estimated amount recovered;
- 5.5.2.1.5. Level of treatment prior to discharge (e.g., raw wastewater, primary-treated wastewater, or undisinfected secondary-treated wastewater); and
- 5.5.2.1.6. Identity of person reporting the unauthorized discharge.

5.5.2.2. **Five-Day Written Report.** Within five business days following the two-hour notification, the Discharger shall submit a written report that includes, in addition to the information listed in Provision 5.5.2.1, above, the following:

- 5.5.2.2.1. Methods used to delineate the geographical extent of the unauthorized discharge within receiving waters;
- 5.5.2.2.2. Efforts implemented to minimize public exposure to the unauthorized discharge;
- 5.5.2.2.3. Visual observations of the impacts (if any) noted in the receiving waters (e.g., fish kill, discoloration of receiving water) and extent of sampling if conducted;

¹ California Code of Regulations, Title 23, section 2250(b), defines an unauthorized discharge to be a discharge, not regulated by waste discharge requirements, of treated, partially-treated, or untreated wastewater resulting from the intentional or unintentional diversion of wastewater from a collection, treatment, or disposal system.

- 5.5.2.2.4. Corrective measures taken to minimize the impact of the unauthorized discharge;
- 5.5.2.2.5. Measures to be taken to minimize the potential for a similar unauthorized discharge in the future;
- 5.5.2.2.6. Summary of Spill Prevention Plan or Operation and Maintenance Manual modifications to be made, if necessary, to minimize the potential for future unauthorized discharges; and
- 5.5.2.2.7. Quantity and duration of the unauthorized discharge, and the amount recovered.

5.6. Planned Changes – Not supplemented

5.7. Anticipated Noncompliance – Not supplemented

5.8. Other Noncompliance – Not supplemented

5.9. Other Information – Not supplemented

6. STANDARD PROVISIONS – ENFORCEMENT – NOT SUPPLEMENTED

7. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS – NOT SUPPLEMENTED

8. DEFINITIONS – ADDITION TO ATTACHMENT D

More definitions can be found in Attachment A of this NPDES Permit.

8.1. Arithmetic Calculations

- 8.1.1. **Geometric Mean.** The antilog of the log mean or the back-transformed mean of the logarithmically transformed variables, which is equivalent to the multiplication of the antilogarithms. The geometric mean can be calculated with either of the following equations:

$$\text{Geometric Mean} = \text{Anti log} (1/N \sum \text{Log } C_i)$$

or

$$\text{Geometric Mean} = (C_1 \times C_2 \times \dots \times C_N)^{1/N}$$

Where “N” is the number of data points for the period analyzed and “C” is the concentration for each of the “N” data points.

- 8.1.2. **Mass Emission Rate.** The rate of discharge expressed in mass. The mass emission rate is obtained from the following calculation for any calendar day:

$$\text{Mass emission rate (lb/day)} = \frac{8.345}{N} \sum_{i=1}^N Q_i C_i$$

$$\text{Mass emission rate (kg/day)} = \frac{3.785}{N} \sum_{i=1}^N Q_i C_i$$

In which “N” is the number of samples analyzed in any calendar day and “Q_i” and “C_i” are the flow rate (MGD) and the constituent concentration (mg/L) associated with each of the “N” grab samples that may be taken in any calendar day. If a composite sample is taken, “C_i” is the concentration measured in the composite sample and “Q_i” is the average flow rate occurring during the period over which the samples are composited. The daily concentration of a constituent measured over any calendar day shall be determined from the flow weighted average of the same constituent in the combined waste streams as follows:

$$C_d = \text{Average daily concentration} = \frac{1}{Q_t} \sum_{i=1}^N Q_i C_i$$

In which “N” is the number of component waste streams and “Q” and “C” are the flow rate (MGD) and the constituent concentration (mg/L) associated with each of the “N” waste streams. “Q_t” is the total flow rate of the combined waste streams.

- 8.1.3. **Removal Efficiency.** The ratio of pollutants removed by the treatment facilities to pollutants entering the treatment facilities (expressed as a percentage). The Discharger shall determine removal efficiencies using monthly averages (by calendar month unless otherwise specified) of pollutant concentration of influent and effluent samples collected at about the same time and using the following equation (or its equivalent):

$$\text{Removal Efficiency (\%)} = 100 \times [1 - (\text{Effluent Concentration} / \text{Influent Concentration})]$$

- 8.2. **Blending** – the practice of bypassing biological treatment units and recombining the bypass wastewater with biologically-treated wastewater.
- 8.3. **Composite Sample** – a sample composed of individual grab samples collected manually or by an automatic sampling device on the basis of time or flow as specified in the MRP. For flow-based composites, the proportion of each grab sample included in the composite sample shall be within plus or minus five percent (+/-5%) of the representative flow of the waste stream being measured at the time of grab sample collection. Alternatively, equal volume grab samples may be individually analyzed with the flow-weighted average calculated by averaging flow-

weighted ratios of each grab sample analytical result. Grab samples comprising time-based composite samples shall be collected at intervals not greater than those specified in the MRP. The quantity of each grab sample comprising a time-based composite sample shall be a set of flow proportional volumes as specified in the MRP. If a particular time-based or flow-based composite sampling protocol is not specified in the MRP, the Discharger shall determine and implement the most representative protocol.

- 8.4. Duplicate Sample** – a second sample taken from the same source and at the same time as an initial sample (such samples are typically analyzed identically to measure analytical variability).
- 8.5. Grab Sample** – an individual sample collected during a short period not exceeding 15 minutes. Grab samples represent only the condition that exists at the time the sample is collected.
- 8.6. Overflow** – the intentional or unintentional spilling or forcing out of untreated or partially-treated waste from a transport system (e.g., through manholes, at pump stations, or at collection points) upstream of the treatment plant headworks or from any part of a treatment plant.
- 8.7. Priority Pollutants** – those constituents referred to in 40 C.F.R. part 122 as promulgated in the Federal Register, Vol. 65, No. 97, Thursday, May 18, 2000, also known as the California Toxics Rule.
- 8.8. Untreated waste** – raw wastewater.

Table B
List of Monitoring Parameters, Analytical Methods, and Minimum Levels (µg/L)^[1]

CTR No.	Pollutant / Parameter	Analytical Method ^[2]	GC	GC MS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGF AA	HYD RIDE	CVAA	DCP
1	Antimony	204.2	-	-	-	-	10	5	50	0.5	5	0.5	-	1000
2	Arsenic	206.3	-	-	-	20	-	2	10	2	2	1	-	1000
3	Beryllium	-	-	-	-	-	20	0.5	2	0.5	1	-	-	1000
4	Cadmium	200 or 213	-	-	-	-	10	0.5	10	0.25	0.5	-	-	1000
5a	Chromium (III)	SM 3500	-	-	-	-	-	-	-	-	-	-	-	-
5b	Chromium (VI)	SM 3500	-	-	-	10	5	-	-	-	-	-	-	1000
	Chromium (total) ^[3]	SM 3500	-	-	-	-	50	2	10	0.5	1	-	-	1000
6	Copper	200.9	-	-	-	-	25	5	10	0.5	2	-	-	1000
7	Lead	200.9	-	-	-	-	20	5	5	0.5	2	-	-	10,000
8	Mercury	1631 ^[4]	-	-	-	-	-	-	-	-	-	-	-	-
9	Nickel	249.2	-	-	-	-	50	5	20	1	5	-	-	1000
10	Selenium	200.8 or SM 3114B or C	-	-	-	-	-	5	10	2	5	1	-	1000
11	Silver	272.2	-	-	-	-	10	1	10	0.25	2	-	-	1000
12	Thallium	279.2	-	-	-	-	10	2	10	1	5	-	-	1000
13	Zinc	200 or 289	-	-	-	-	20	-	20	1	10	-	-	-
14	Cyanide	SM 4500 CN- C or I	-	-	-	5	-	-	-	-	-	-	-	-
15	Asbestos (only required for dischargers to MUN waters) ^[5]	100.2 ^[6]	-	-	-	-	-	-	-	-	-	-	-	-
16	2,3,7,8-TCDD and 17 congeners (Dioxin)	1613	-	-	-	-	-	-	-	-	-	-	-	-
17	Acrolein	603	2.0	5	-	-	-	-	-	-	-	-	-	-
18	Acrylonitrile	603	2.0	2	-	-	-	-	-	-	-	-	-	-
19	Benzene	602	0.5	2	-	-	-	-	-	-	-	-	-	-
33	Ethylbenzene	602	0.5	2	-	-	-	-	-	-	-	-	-	-
39	Toluene	602	0.5	2	-	-	-	-	-	-	-	-	-	-
20	Bromoform	601	0.5	2	-	-	-	-	-	-	-	-	-	-

CTR No.	Pollutant / Parameter	Analytical Method ^[2]	GC	GC MS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGF AA	HYD RIDE	CVAA	DCP
21	Carbon Tetrachloride	601	0.5	2	-	-	-	-	-	-	-	-	-	-
22	Chlorobenzene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
23	Chlorodibromomethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
24	Chloroethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
25	2-Chloroethylvinyl Ether	601	1	1	-	-	-	-	-	-	-	-	-	-
26	Chloroform	601	0.5	2	-	-	-	-	-	-	-	-	-	-
75	1,2-Dichlorobenzene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
76	1,3-Dichlorobenzene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
77	1,4-Dichlorobenzene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
27	Dichlorobromomethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
28	1,1-Dichloroethane	601	0.5	1	-	-	-	-	-	-	-	-	-	-
29	1,2-Dichloroethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
30	1,1-Dichloroethylene or 1,1-Dichloroethene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
31	1,2-Dichloropropane	601	0.5	1	-	-	-	-	-	-	-	-	-	-
32	1,3-Dichloropropylene or 1,3-Dichloropropene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
34	Methyl Bromide or Bromomethane	601	1.0	2	-	-	-	-	-	-	-	-	-	-
35	Methyl Chloride or Chloromethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
36	Methylene Chloride or Dichloromethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
37	1,1,2,2-Tetrachloroethane	601	0.5	1	-	-	-	-	-	-	-	-	-	-
38	Tetrachloroethylene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
40	1,2-Trans-Dichloroethylene	601	0.5	1	-	-	-	-	-	-	-	-	-	-
41	1,1,1-Trichloroethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
42	1,1,2-Trichloroethane	601	0.5	2	-	-	-	-	-	-	-	-	-	-
43	Trichloroethene	601	0.5	2	-	-	-	-	-	-	-	-	-	-
44	Vinyl Chloride	601	0.5	2	-	-	-	-	-	-	-	-	-	-
45	2-Chlorophenol	604	2	5	-	-	-	-	-	-	-	-	-	-

CTR No.	Pollutant / Parameter	Analytical Method ^[2]	GC	GC MS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGF AA	HYD RIDE	CVAA	DCP
46	2,4-Dichlorophenol	604	1	5	-	-	-	-	-	-	-	-	-	-
47	2,4-Dimethylphenol	604	1	2	-	-	-	-	-	-	-	-	-	-
48	2-Methyl-4,6-Dinitrophenol or Dinitro-2-methylphenol	604	10	5	-	-	-	-	-	-	-	-	-	-
49	2,4-Dinitrophenol	604	5	5	-	-	-	-	-	-	-	-	-	-
50	2-Nitrophenol	604	-	10	-	-	-	-	-	-	-	-	-	-
51	4-Nitrophenol	604	5	10	-	-	-	-	-	-	-	-	-	-
52	3-Methyl-4-Chlorophenol	604	5	1	-	-	-	-	-	-	-	-	-	-
53	Pentachlorophenol	604	1	5	-	-	-	-	-	-	-	-	-	-
54	Phenol	604	1	1	-	50	-	-	-	-	-	-	-	-
55	2,4,6-Trichlorophenol	604	10	10	-	-	-	-	-	-	-	-	-	-
56	Acenaphthene	610 HPLC	1	1	0.5	-	-	-	-	-	-	-	-	-
57	Acenaphthylene	610 HPLC	-	10	0.2	-	-	-	-	-	-	-	-	-
58	Anthracene	610 HPLC	-	10	2	-	-	-	-	-	-	-	-	-
60	Benzo(a)Anthracene or 1,2 Benzanthracene	610 HPLC	10	5	-	-	-	-	-	-	-	-	-	-
61	Benzo(a)Pyrene	610 HPLC	-	10	2	-	-	-	-	-	-	-	-	-
62	Benzo(b) Fluoranthene or 3,4 Benzofluoranthene	610 HPLC	-	10	10	-	-	-	-	-	-	-	-	-
63	Benzo(ghi)Perylene	610 HPLC	-	5	0.1	-	-	-	-	-	-	-	-	-
64	Benzo(k)Fluoranthene	610 HPLC	-	10	2	-	-	-	-	-	-	-	-	-
74	Dibenzo(a,h)Anthracene	610 HPLC	-	10	0.1	-	-	-	-	-	-	-	-	-
86	Fluoranthene	610 HPLC	10	1	0.05	-	-	-	-	-	-	-	-	-
87	Fluorene	610 HPLC	-	10	0.1	-	-	-	-	-	-	-	-	-
92	Indeno(1,2,3-cd)Pyrene	610 HPLC	-	10	0.05	-	-	-	-	-	-	-	-	-
100	Pyrene	610 HPLC	-	10	0.05	-	-	-	-	-	-	-	-	-
68	Bis(2-Ethylhexyl)Phthalate	606 or 625	10	5	-	-	-	-	-	-	-	-	-	-
70	Butylbenzyl Phthalate	606 or 625	10	10	-	-	-	-	-	-	-	-	-	-
79	Diethyl Phthalate	606 or 625	10	2	-	-	-	-	-	-	-	-	-	-
80	Dimethyl Phthalate	606 or 625	10	2	-	-	-	-	-	-	-	-	-	-
81	Di-n-Butyl Phthalate	606 or 625	-	10	-	-	-	-	-	-	-	-	-	-

CTR No.	Pollutant / Parameter	Analytical Method ^[2]	GC	GC MS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGF AA	HYD RIDE	CVAA	DCP
84	Di-n-Octyl Phthalate	606 or 625	-	10	-	-	-	-	-	-	-	-	-	-
59	Benzidine	625	-	5	-	-	-	-	-	-	-	-	-	-
65	Bis(2-Chloroethoxy)Methane	625	-	5	-	-	-	-	-	-	-	-	-	-
66	Bis(2-Chloroethyl)Ether	625	10	1	-	-	-	-	-	-	-	-	-	-
67	Bis(2-Chloroisopropyl) Ether	625	10	2	-	-	-	-	-	-	-	-	-	-
69	4-Bromophenyl Phenyl Ether	625	10	5	-	-	-	-	-	-	-	-	-	-
71	2-Chloronaphthalene	625	-	10	-	-	-	-	-	-	-	-	-	-
72	4-Chlorophenyl Phenyl Ether	625	-	5	-	-	-	-	-	-	-	-	-	-
73	Chrysene	625	-	10	5	-	-	-	-	-	-	-	-	-
78	3,3'-Dichlorobenzidine	625	-	5	-	-	-	-	-	-	-	-	-	-
82	2,4-Dinitrotoluene	625	10	5	-	-	-	-	-	-	-	-	-	-
83	2,6-Dinitrotoluene	625	-	5	-	-	-	-	-	-	-	-	-	-
85	1,2-Diphenylhydrazine ^[7]	625	-	1	-	-	-	-	-	-	-	-	-	-
88	Hexachlorobenzene	625	5	1	-	-	-	-	-	-	-	-	-	-
89	Hexachlorobutadiene	625	5	1	-	-	-	-	-	-	-	-	-	-
90	Hexachlorocyclopentadiene	625	5	5	-	-	-	-	-	-	-	-	-	-
91	Hexachloroethane	625	5	1	-	-	-	-	-	-	-	-	-	-
93	Isophorone	625	10	1	-	-	-	-	-	-	-	-	-	-
94	Naphthalene	625	10	1	0.2	-	-	-	-	-	-	-	-	-
95	Nitrobenzene	625	10	1	-	-	-	-	-	-	-	-	-	-
96	N-Nitrosodimethylamine	625	10	5	-	-	-	-	-	-	-	-	-	-
97	N-Nitrosodi-n-Propylamine	625	10	5	-	-	-	-	-	-	-	-	-	-
98	N-Nitrosodiphenylamine	625	10	1	-	-	-	-	-	-	-	-	-	-
99	Phenanthrene	625	-	5	0.05	-	-	-	-	-	-	-	-	-
101	1,2,4-Trichlorobenzene	625	1	5	-	-	-	-	-	-	-	-	-	-
102	Aldrin	608	0.005	-	-	-	-	-	-	-	-	-	-	-
103	α-BHC	608	0.01	-	-	-	-	-	-	-	-	-	-	-
104	β-BHC	608	0.005	-	-	-	-	-	-	-	-	-	-	-
105	γ-BHC (Lindane)	608	0.02	-	-	-	-	-	-	-	-	-	-	-
106	δ-BHC	608	0.005	-	-	-	-	-	-	-	-	-	-	-

CTR No.	Pollutant / Parameter	Analytical Method ^[2]	GC	GC MS	LC	Color	FAA	GFAA	ICP	ICP MS	SPGF AA	HYD RIDE	CVAA	DCP
107	Chlordane	608	0.1	-	-	-	-	-	-	-	-	-	-	-
108	4,4'-DDT	608	0.01	-	-	-	-	-	-	-	-	-	-	-
109	4,4'-DDE	608	0.05	-	-	-	-	-	-	-	-	-	-	-
110	4,4'-DDD	608	0.05	-	-	-	-	-	-	-	-	-	-	-
111	Dieldrin	608	0.01	-	-	-	-	-	-	-	-	-	-	-
112	Endosulfan (alpha)	608	0.02	-	-	-	-	-	-	-	-	-	-	-
113	Endosulfan (beta)	608	0.01	-	-	-	-	-	-	-	-	-	-	-
114	Endosulfan Sulfate	608	0.05	-	-	-	-	-	-	-	-	-	-	-
115	Endrin	608	0.01	-	-	-	-	-	-	-	-	-	-	-
116	Endrin Aldehyde	608	0.01	-	-	-	-	-	-	-	-	-	-	-
117	Heptachlor	608	0.01	-	-	-	-	-	-	-	-	-	-	-
118	Heptachlor Epoxide	608	0.01	-	-	-	-	-	-	-	-	-	-	-
119-125	PCBs: Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260	608	0.5	-	-	-	-	-	-	-	-	-	-	-
126	Toxaphene	608	0.5	-	-	-	-	-	-	-	-	-	-	-

Footnotes:

- ^[1] Minimum levels are from the *State Implementation Policy*. They are the concentration of the lowest calibration standard for that technique based on a survey of contract laboratories. Laboratory techniques are defined as follows: GC = Gas Chromatography; GCMS = Gas Chromatography/Mass Spectrometry; LC = High Pressure Liquid Chromatography; Color = Colorimetric; FAA = Flame Atomic Absorption; GFAA = Graphite Furnace Atomic Absorption; ICP = Inductively Coupled Plasma; ICPMS = Inductively Coupled Plasma/Mass Spectrometry; SPGFAA = Stabilized Platform Graphite Furnace Atomic Absorption (i.e., U.S. EPA 200.9); Hydride = Gaseous Hydride Atomic Absorption; CVAA = Cold Vapor Atomic Absorption; DCP = Direct Current Plasma.
- ^[2] The suggested method is the U.S. EPA Method unless otherwise specified (SM = Standard Methods). The Discharger may use another U.S. EPA-approved or recognized method if that method has a level of quantification below the applicable water quality objective. Where no method is suggested, the Discharger has the discretion to use any standard method.
- ^[3] Analysis for total chromium may be substituted for analysis of chromium (III) and chromium (VI) if the concentration measured is below the lowest hexavalent chromium criterion (11 ug/l).
- ^[4] The Discharger shall use ultra-clean sampling (U.S. EPA Method 1669) and ultra-clean analytical methods (U.S. EPA Method 1631) for mercury monitoring. The minimum level for mercury is 2 ng/l (or 0.002 ug/l).
- ^[5] MUN = Municipal and Domestic Supply. This designation, if applicable, is in the Findings of the permit.
- ^[6] Determination of Asbestos Structures over 10 [micrometers] in Length in Drinking Water Using MCE Filters, U.S. EPA 600/R-94-134, June 1994.
- ^[7] Detected as azobenzene.