



AGENDA

NOTICE OF REGULAR MEETING

TIME: 6 p.m.

DATE: Tuesday, February 4, 2020

PLACE: Shannon Community Center, Ambrose Hall
11600 Shannon Avenue, Dublin, CA 94568

Our mission is to protect public health and the environment by providing reliable and sustainable water, recycled water, and wastewater services in a safe, efficient, and fiscally responsible manner.

1. CALL TO ORDER
2. PLEDGE TO THE FLAG
3. ROLL CALL – Members: Duarte, Halket, Johnson, Misheloff, Vonheeder-Leopold
4. CLOSED SESSION
 - 4.A. Conference with Labor Negotiators – Pursuant to Government Code Section 54957.6
Agency Designated Representative: Daniel B. McIntyre, General Manager
Unrepresented Employee: Assistant General Manager
 - 4.B. Conference with Labor Negotiators – Pursuant to Government Code Section 54957.6
Agency Designated Representative: Carl P. A. Nelson, Assistant General Counsel
Unrepresented Employee: General Manager
5. REPORT FROM CLOSED SESSION
6. SPECIAL ANNOUNCEMENTS/ACTIVITIES
7. PUBLIC COMMENT (MEETING OPEN TO THE PUBLIC)

At this time those in the audience are encouraged to address the Board on any item of interest that is within the subject matter jurisdiction of the Board and not already included on tonight's agenda. Comments should not exceed five minutes. Speaker cards are available from the District Secretary and should be completed and returned to the Secretary prior to addressing the Board. The President of the Board will recognize each speaker, at which time the speaker should proceed to the lectern, introduce him/herself, and then proceed with his/her comment.
8. REPORTS
 - 8.A. Reports by Staff
 - Event Calendar
 - Correspondence to and from the Board
 - 8.B. Joint Powers Authority and Committee Reports

Tri-Valley Water Liaison – January 22, 2020
 - 8.C. Agenda Management (consider order of items)

9. **CONSENT CALENDAR**

Matters listed under this item are considered routine and will be enacted by one Motion, in the form listed below. There will be no separate discussion of these items unless requested by a Member of the Board or the public prior to the time the Board votes on the Motion to adopt.

- 9.A. Approve Regular Meeting Minutes of January 7, 2020

Recommended Action: Approve by Motion

- 9.B. Approve Special Meeting Minutes of January 7, 2020

Recommended Action: Approve by Motion

- 9.C. Accept Regular and Recurring Reports: Warrant List and Treasurer's Report

Recommended Action: Accept by Motion

- 9.D. Approve AT Dublin Project Supplemental Water Supply Assessment

Recommended Action: Approve by Resolution

- 9.E. Approve Amendment to the Capital Improvement Program Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years 2020 and 2021, and Authorize Execution of Task Order No. 2 with HydroScience Engineers, Inc. for Design Services for the Camp Parks Water Main - Cromwell Avenue, 12th Street, and Mitchell Drive Project (CIP 20-W024)

Recommended Action: Approve by Resolution and Authorize by Motion

- 9.F. Approve the Salary Range for the New Operations Compliance Supervisor Job Classification

Recommended Action: Approve by Resolution

10. **BOARD BUSINESS**

- 10.A. Appoint Jan R. Lee as Assistant General Manager and Adopt Personal Services Agreement

Recommended Action: Approve by Resolution

- 10.B. Approve Continuation of Emergency Action Procurement by General Manager for Repair of the District Office and Find that the Need for the District Office Flooding Emergency Still Exists

Recommended Action: Approve by Motion

- 10.C. Adopt Revised Social Media Policy and Rescind Resolution No. 27-12

Recommended Action: Adopt Policy by Resolution

- 10.D. Rescind No-Net-Demand Service Policy (P600-15-1) and Resolution No. 34-94

Recommended Action: Rescind Policy by Resolution

- 10.E. Approve and Adopt Sewer System Management Plan Five-Year Update

Recommended Action: Approve and Adopt by Resolution

- 10.F. Approve Amendment to the Capital Improvement Program Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years 2020 and 2021 to Add the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) and the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028)

Recommended Action: Approve by Resolution

10.G. Authorize Execution of Amendment No. 4 to the Individual Agreement for Personal Services between Daniel B. McIntyre and Dublin San Ramon Services District
Recommended Action: Approve by Resolution

10.H. Adopt Pay Schedule in Accordance with California Code of Regulations, Title 2, Section 570.5, Requirement for a Publicly Available Pay Schedule and Rescind Resolution No. 44-19
Recommended Action: Adopt by Resolution

11. BOARD MEMBER ITEMS

- Submittal of Written Reports for Day of Service Events Attended by Directors
- Request New Agenda Item(s) Be Placed on a Future Board or Committee Agenda

12. ADJOURNMENT

All materials made available or distributed in open session at Board or Board Committee meetings are public information and are available for inspection at the front desk of the DSRSD Field Operations Facility at 7035 Commerce Circle, Pleasanton, during business hours, or by calling the District Secretary at (925) 828-0515. A fee may be charged for copies. District facilities and meetings comply with the Americans with Disabilities Act. If special accommodations are needed, please contact the District Secretary as soon as possible, but at least two days prior to the meeting.

**DUBLIN SAN RAMON SERVICES DISTRICT
MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS**

Item 9.A.

January 7, 2020

1. CALL TO ORDER

A regular meeting of the Board of Directors was called to order at 6:01 p.m. by President Duarte.

2. PLEDGE TO THE FLAG

3. ROLL CALL

Boardmembers present at start of meeting:

President Edward R. Duarte, Vice President Ann Marie Johnson, Director Richard M. Halket, and Director Georgean M. Vonheeder-Leopold.

District staff present: Dan McIntyre, General Manager; Carol Atwood, Administrative Services Manager/Treasurer; Judy Zavadil, Engineering Services Manager/District Engineer; Jeff Carson, Operations Manager; Carl P.A. Nelson, Assistant General Counsel; and Nicole Genzale, Executive Services Supervisor/District Secretary.

Director Misheloff entered the meeting at 6:02 p.m.

4. SPECIAL ANNOUNCEMENTS/ACTIVITIES – President Duarte wished everyone a prosperous New Year and looked forward to great things ahead for the District.

5. PUBLIC COMMENT (MEETING OPEN TO THE PUBLIC) – 6:02 p.m. No public comment was received.

6. REPORTS

6.A. Reports by Staff

- Event Calendar – General Manager McIntyre reported on the following:
 - Staff will confirm later this week if the Tri-Valley Water Liaison Committee meeting scheduled for Wednesday, January 22 will be held or cancelled.
 - Correspondence to and from the Board on an Item not on the Agenda – None

6.B. Joint Powers Authority and Committee Reports – None

6.C. Agenda Management (consider order of items) – No changes were made.

7. CONSENT CALENDAR

Director Misheloff MOVED for approval of the items on the Consent Calendar. Director Vonheeder-Leopold SECONDED the MOTION, which CARRIED with FIVE AYES.

7.A. Approve Regular Meeting Minutes of December 17, 2019 – Approved

7.B. Adopt Revised Director Travel and Expenses Policy and Rescind Resolution No. 12-17 – Approved – Resolution No. 1-20

8. BOARD BUSINESS

- 8.A. Approve Continuation of Emergency Action Procurement by General Manager for Repair of the District Office and Find that the Need for the District Office Flooding Emergency Still Exists

Engineering Services Manager Zavadil reviewed the item for the Board. She reported that the project is progressing as planned with a hopeful return to the building in March.

Vice President Johnson MOVED to Approve Continuation of Emergency Action Procurement by General Manager for Repair of the District Office and Find that the Need for the District Office Flooding Emergency Still Exists. Director Misheloff SECONDED the MOTION, which CARRIED with FIVE AYES.

- 8.B. Approve Amendment to the Capital Improvement Program Two-Year Budget for Fiscal Years Ending 2020 and 2021 for the Corporation Yard and Administration Facilities Project (CIP 16-A005) and Award Construction Agreement to D.W. Nicholson Corporation for the Field Operations Facility (FOF) Electrical Improvements Project (CIP 16-A005)

Engineering Services Manager Zavadil reviewed the item for the Board. She noted the higher bid amounts that were received could be due to scarce contractor resources in the current market.

Director Halket MOVED to adopt Resolution No. 2-20, Approving an Amendment to the Capital Improvement Program (CIP) Ten-Year Plan and an Increase to the Local Wastewater Expansion (Fund 220) Capital Improvement Program Fund Budget for Fiscal Year Ending 2020 the Corporation Yard and Administrative Facilities Project (CIP 16-A005), and Resolution No. 3-20, Approving an Agreement with D.W. Nicholson Corporation for Construction of the Field Operations Facility (FOF) Electrical Improvement Project (CIP 16-A005). Director Misheloff SECONDED the MOTION, which CARRIED with FIVE AYES.

- 8.C. Approve Board Committees and Joint Powers Authority Assignments for Calendar Year 2020

General Manager McIntyre reviewed the item for the Board.

Director Halket MOVED to Approve Board Committees and Joint Powers Authority Assignments for Calendar Year 2020 as Proposed in Option #1 - Maintaining the Current Committee Structure and Assignments for 2020. Vice President Johnson SECONDED the MOTION, which CARRIED with FIVE AYES.

- 8.D. Receive Presentation on Regional Water Quality Control Board Nutrients Watershed Permit

Operations Manager Carson reviewed the item for the Board. He introduced WWTP Operations Supervisor Levi Fuller who gave a presentation (handed out to the Board) providing an overview of the District's current Watershed permit (eff. July 1, 2019 – June 30, 2024) and matters relating to current and future Watershed permitting: explanation of nutrients and sources, potential environmental, regulatory, and financial impacts, nutrient mitigation efforts by Bay Area Clean Water Agencies (including DSRSD), Recycled Water Quality Control Board Watershed permitting and regional nutrients studies, DSRSD's

nutrients reduction to the San Francisco Bay via recycled water production, and the processing adjustments and funding required to meet the potentially significant nutrients reduction requirements for the next permit in 2024.

The Board and staff discussed various aspects of the presentation including the significant financial impacts that could be seen in 8 to 10 years' time if drastic measures are needed to respond to new nutrients regulations – this would result in an approximate regional wastewater rate increase of 20%. They also discussed the District's seasonal/annual nutrients averages and how to possibly address different nutrients present in the District's discharge, the impacts to capital improvement projects, the potential need to build nutrients processing units at the wastewater treatment plant facility, increased chemical and electricity costs, and the geographical area within the District's responsibility. The Board thanked staff for the presentation.

9. BOARDMEMBER ITEMS

- Submittal of Written Reports for Day of Service Events Attended by Directors

Director Vonheeder-Leopold submitted a written report to Executive Services Supervisor/District Secretary Genzale. She reported that she attended the Alameda County California Special Districts Association (ACSDA) Executive Committee meeting on Wednesday, December 11 at the Castro Valley Sanitation District and noted that she volunteered DSRSD to host the November 2020 ACSDA chapter meeting. She summarized the activities and discussions at the meeting.

Director Halket wished everyone a Happy New Year.

- Request New Agenda Item(s) Be Placed on a Future Board or Committee Agenda – None

10. CLOSED SESSION

At 6:49 p.m. the Board went into Closed Session.

10.A. Public Employee Performance Evaluation Pursuant to Government Code Section 54957
Title: General Manager

10.B. Conference with Labor Negotiators – Pursuant to Government Code Section 54957.6
Agency Designated Representative: Carl P.A. Nelson, General Counsel
Unrepresented Employee: General Manager

11. REPORT FROM CLOSED SESSION

At 7:32 p.m. the Board came out of Closed Session. President Duarte announced that there was no reportable action.

12. ADJOURNMENT

President Duarte adjourned the meeting at 7:33 p.m.

Submitted by,

Nicole Genzale, CMC
Executive Services Supervisor/District Secretary

**DUBLIN SAN RAMON SERVICES DISTRICT
MINUTES OF A SPECIAL MEETING OF THE BOARD OF DIRECTORS**

January 7, 2020

1. CALL TO ORDER

A special meeting of the Board of Directors was called to order at 7:33 p.m. by President Duarte.

President Duarte reported that a regular Board meeting was held earlier this evening, attended by himself, Vice President Johnson, and Directors Halket, Vonheeder-Leopold, and Misheloff. In accordance with DSRSD's Day of Service policy, no Director will receive any compensation or stipend for participating in more than one meeting on this date.

2. PLEDGE TO THE FLAG

3. ROLL CALL

Boardmembers present at start of meeting:

President Edward R. Duarte, Vice President Ann Marie Johnson, Director Richard M. Halket, Director Georgean M. Vonheeder-Leopold, and Director Madelyne A. (Maddi) Misheloff

4. PUBLIC COMMENT (MEETING OPEN TO THE PUBLIC) – 7:34 p.m. No public comment was received.

5. CLOSED SESSION

At 7:34 p.m. the Board went into Closed Session.

5.A. Conference with Legal Counsel – Existing Litigation Pursuant to Government Code Section 54956.9(d)(1)
Name of Case: Dublin Unified School District

6. REPORT FROM CLOSED SESSION

At 7:55 p.m. the Board came out of Closed Session. President Duarte announced that there was no reportable action.

7. ADJOURNMENT

President Duarte adjourned the meeting at 7:56 p.m.

Submitted by,

Nicole Genzale, CMC
Executive Services Supervisor/District Secretary



TITLE: Accept Regular and Recurring Reports: Warrant List and Treasurer's Report

RECOMMENDATION:

Staff recommends the Board of Directors accept, by Motion, the regular and recurring reports: Warrant List and Treasurer's Report.

SUMMARY:

To maximize openness and transparency and to allow the Board to be informed about key aspects of District business, the Board directed that various regular and recurring reports be presented for Board acceptance at regular intervals. This item is routinely presented to the Board at the second meeting of each calendar month.

The reports presented this month for acceptance are noted below and are submitted as part of Attachment 1:

Ref A: Warrant List

For the period of 12/5/2019 to 1/8/2020, 315 accounts payable checks were issued totaling \$8,277,913.62.

Ref B: Treasurer's Report

The Treasurer's Report as of December 31, 2019 reported a portfolio market value of \$208.2 million compared to a market value of \$197.2 million in the prior quarter (September 30, 2019). The yield to maturity (YTM) rate of 1.953% was lower compared to the prior quarter YTM rate of 2.059%. All pooled investments are in compliance with the District's Investment policy (P400-18-4) and there is sufficient cash flow liquidity to meet the next six month's expenses. The portfolio market value in the prior fiscal year reported as of December 31, 2018 was \$189.0 million.

Originating Department: Administrative Services	Contact: H. Chen	Legal Review: Not Required
Cost: \$0	Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input checked="" type="checkbox"/> Other (see list on right)	Attachment 1 – Summary of Regular and Recurring Reports	

SUMMARY OF REGULAR AND RECURRING REPORTS

Ref.	Description	Frequency	Authority	Last Acceptance	Acceptance at this Meeting?	Next Acceptance
A	Warrant List	Monthly	Board Direction	December 2019	Yes	February 2020
B	Treasurer's Report	Quarterly	CA Government Code 53646	November 2019	Yes	April 2020
C	Quarterly Financial Reports ¹	Quarterly	Board Direction	December 2019		February 2020
D	Strategic Plan Progress Report ²	Annually – Fiscal Year	Resolution 24-17	September 2019		September 2020
E	Outstanding Receivables Report	Annually – Fiscal Year	District Code 1.50.050	July 2019		July 2020
F	Employee and Director Reimbursements greater than \$100 ³	Annually – Fiscal Year	CA Government Code 53065.5	September 2019		August 2020
G	Utility Billing Adjustments ⁴	Annually – Fiscal Year	Utility Billing Adjustment Policy	Total FYE19 credits below \$25,000		August 2020
H	Annual Rate Stabilization Fund Transfer Calculation	Annually – After Audit	Financial Reserves Policy	December 2019		December 2020
I	"No Net Change" Operating Budget Adjustments	As they occur but not more frequently than monthly	Board Direction Budget Accountability Policy (See table below)	November 2017		Before end of month after occurrence
J	Capital Outlay Budget Adjustments			July 2018		
K	Capital Project Budget Adjustments			January 2020		
L	Unexpected Asset Replacements			June 2019		

For the fiscal year ending 2020, the totals for these reports are as follows:

Category	YTD	This Meeting	Total
Capital Outlay Budget Adjustments	\$0	\$0	\$0
Capital Project Budget Adjustments	\$250,000	\$0	\$250,000
Unexpected Asset Replacements	\$45,218	\$0	\$45,218

¹ Financial reporting changed from monthly to quarterly reporting.

² Presented to Board as separate agenda item.

³ Reimbursements also reported monthly in the Warrant List (Item A).

⁴ Per Utility Billing Adjustments policy, a report will be presented to the Board if total credits in any fiscal year exceed \$25,000.

apCkHistDesc

Printed on: 01/07/2020 4:54PM

Check History Description Listing

Dublin San Ramon Services District

Page: 1

From: 12/5/2019

To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
12/05/2019	102768	09003 AMERICAN METALS	STEEL FOR DUMPSTER GUIDE	262.20	262.20
12/05/2019	102769	01954 ANDERSON'S UNIFORMS	UNIFORM ITEMS FOR K. BAXTER	504.35	
			UNIFORM ITEMS FOR D. PETTINICHO	229.09	
			UNIFORM ITEMS FOR M. MCGRATH	199.11	932.55
12/05/2019	102770	06211 ASSOCIATED SERVICES CO.	MONTHLY BEVERAGE DELIVERY SERVICE FOR DO	406.97	406.97
12/05/2019	102771	05097 BATTERIES PLUS	REBUILD DEAD 18V TOOL BATTERIES	163.84	163.84
12/05/2019	102772	02576 BLACK & VEATCH CORPORATION	16-P028 AND 18-P010 T.O. 1 BILLING THRU	49,789.79	49,789.79
12/05/2019	102773	01085 CALPERS LONG-TERM CARE PR	LONG-TERM CARE: PAYMENT	68.12	68.12
12/05/2019	102774	08924 CRYSTAL COMMUNICATIONS	PORTABLE RADIO MICROPHONES	866.15	866.15
12/05/2019	102775	00239 DESILVA GROUP LLC	MTR 65615499 RTN	1,853.42	
			MTR 63946799 RETURNED	1,635.34	3,488.76
12/05/2019	102776	00241 DGS OFS SVC REVOLVING FUN	NATURAL GAS SERVICE @ WWTP - OCT 2019	30,395.21	30,395.21
12/05/2019	102777	01559 EATON CORPORATION	05-3206 PXG REPLACEMENT	4,024.17	4,024.17
12/05/2019	102778	00280 ECOWATER SYSTEMS	OPS LAB WATER SOFTNER EXCHANGE TANKS SER	217.20	
			OPS LAB WATER SOFTNER EXCHANGE TANKS SER	213.63	
			RO TANKS (QTY 2) EXCHANGE ON A QTRLY BAS	21.00	
			RO TANKS (QTY 2) EXCHANGE ON A QTRLY BAS	21.00	472.83
12/05/2019	102779	02656 FASTENAL COMPANY	PARTS FOR METERS	805.74	
			SHOP SUPPLIES (RESTOCK)	73.14	
			TOOLBOX PARTS	33.41	912.29
12/05/2019	102780	00314 FEDEX	EXPRESS MAILING & SHIPPING 11-14-19	46.92	46.92
12/05/2019	102781	02914 STATE OF CALIFORNIA FRANCHI	FRANCHISE TAX BOARD: PAYMENT	150.00	150.00
12/05/2019	102782	03900 GARTON TRACTOR INC	FSL HARVEST 2019 TRACTOR RENTAL 10/22/19	6,364.63	

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019 To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
			FSL HARVEST 2019 TRACTOR RENTAL 09/24/19	6,364.63	
			GARTON PICK/UP TRACTOR 11/18/19	798.54	13,527.80
12/05/2019	102783	08921 GRANITE CONSTRUCTION	UB Refund Cst #00081379	1,406.10	1,406.10
12/05/2019	102784	00368 HACH COMPANY	ASSY, PACK, CHEMKEY, 25 PIECE, NITRITE	1,358.35	
			KTO CHEMKEY, 300 PIECE, TOTAL CHLORINE	250.18	1,608.53
12/05/2019	102785	03149 HDS WHITE CAP CONST SUPPLY	20V BRUSHLESS HIGH TORQUE IMPACT 1/2" WR	660.44	660.44
12/05/2019	102786	07652 HUNT & SONS, INC.	OIL FOR FLEET	789.80	789.80
12/05/2019	102787	07523 ID ARCHITECTURE	16-A004 T.O. 3 OCTOBER DESIGN SERVICES	967.73	967.73
12/05/2019	102788	00422 INDEPENDENT CONSTRUCTION	MTR 85635307 RTND	1,853.42	1,853.42
12/05/2019	102789	07330 LIBERTY PROCESS EQUIPMENT,	17-P004 REPLACEMENT STATOR FOR SLUDGE PU	1,254.97	1,254.97
12/05/2019	102790	03958 LIVERMORE AUTO GROUP	#112 & 3 FOR STOCK	544.24	
			#127 & STOCK	189.57	
			MOTORCRAFT OIL #124	133.98	
			#126 & 1 FOR STOCK	47.13	914.92
12/05/2019	102791	00536 MC MASTER-CARR SUPPLY CO.	PARTS FOR INFLUENT PUMP #1	29.84	29.84
12/05/2019	102792	08559 MICHAEL BAKER INT'L. INC.	17-W003 T.O. 1 9/30/19 THROUGH 11/3/19	7,776.86	7,776.86
12/05/2019	102793	01650 MICROSOFT	QTY (5) MICROSOFT SURFACES, TYPE COVERS,	8,480.69	8,480.69
12/05/2019	102794	05145 MOZINGO CONSTRUCTION INC	UB Refund Cst #00084153	1,458.56	1,458.56
12/05/2019	102795	04231 MSC INDUSTRIAL SUPPLY CO	MM SUPPLIES/TOOL	130.24	
			PPE: EARPLUGS FOR FLEET	92.14	
			OFFICE SUPPLIES	88.81	
			PAINT FOR PRIMARY BLOWERS	13.79	324.98
12/05/2019	102796	09435 NSAC	ANNUAL MEMBERSHIP 2019	1,500.00	1,500.00
12/05/2019	102797	00620 P G & E	DUBLIN LIFT STN (NEW LS1) ELECTRICITY -	267.69	

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019

To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
			RESERVOIR 3A ELECTRICITY - OCT 2019	58.47	326.16
12/05/2019	102798	08356 PACE SUPPLY	PLUMBING SUPPLIES	172.81	172.81
12/05/2019	102799	04211 PLATT ELECTRIC SUPPLY	ADMIN BLDG LOBBY	600.74	600.74
12/05/2019	102800	00663 PLEASANTON GARBAGE SVC IN	GARBAGE SERVICE & GRIT BOXES FOR WWTP OC FOF MONTHLY GARBAGE SERVICE - OCT 2019	4,701.56 588.15	5,289.71
12/05/2019	102801	09023 QUENCH USA, INC.	WATER FILTRATION SERVICE - FOF, BLDG T &	196.65	196.65
12/05/2019	102802	04105 R & B COMPANY	EPOXY MANHOLE HOOK 5/8 X 36"	966.86 203.21	1,170.07
12/05/2019	102803	08117 SOLVAY FLUORIDES, LLC	18,699.999 LBS HYDROFLUOSILICIC ACID (FL	4,999.01	4,999.01
12/05/2019	102804	06240 SWINERTON BUILDERS	19-A005 T.O. 1 10/1 - 10/31/19 CM SERVIC	42,274.00	42,274.00
12/05/2019	102805	00903 UNITED RENTALS, INC.	EQUIPMENT FOR DO MURAL PREP	396.40	396.40
12/05/2019	102806	01222 IRS UNITED STATES TREASURY	GARNISHMENT - IRS: PAYMENT	420.50	420.50
12/05/2019	102807	00556 UNITED WAY OF THE BAY AREA	UNITED WAY: PAYMENT	175.07	175.07
12/05/2019	102808	08874 UNIVERSAL COATINGS INC.	20-P006 COATING REPAIRS ON DIGESTERS #1	4,194.00	4,194.00
12/05/2019	102809	00933 VWR INTERNATIONAL, INC.	LABORATORY SUPPLIES AND CHEMICALS	171.76	171.76
12/05/2019	102810	08423 WATERTALENT LLC	R. GAMBLE: WE 11/10/19	6,675.00	6,675.00
12/05/2019	102811	05814 YORKE ENGINEERING LLC	16-A005 SEPT - OCT 2019 BILLING PERIOD	5,093.00	5,093.00
12/05/2019	102812	03460 ACCO ENGINEERED SYSTEMS II	DERWA NOV '19 HVAC QUARTERLY MAINTENANCE FY20 HVAC QUARTERLY MAINTENANCE CONTRACT FOD NOV '19 HVAC QUARTERLY MAINTENANCE FY20 HVAC QUARTERLY MAINTENANCE CONTRACT	556.00 413.00 369.00 369.00	1,707.00
12/05/2019	102813	07832 CAROL ATWOOD	C. ATWOOD REIMB EXP @ CALPELRA 11/18-22/	81.20	81.20
12/05/2019	102814	01013 BARRETT BUSINESS SERVICES	K. YAN: W/E 11/10/19 J. RUTHRUFF: W/E 11/10/19	1,423.10 1,419.60	

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019 To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
			A. SMITH: W/E 11/10/19	1,064.00	
			K. BECK: W/E 11/10/19	1,064.00	
			P. MULLEN: WE 11/10/19	1,019.17	
			T. AMARO: W/E 11/10/19	851.20	
			E. VILLAMOR: W/E 11/10/19	847.88	
			M. ZAKLAN: WE 11/10/19	486.40	
			A. GEHMLICH: WE 11/10/19	486.40	
			N. POON: WE 11/10/19	448.00	
			M. JOHNSTON: W/E 11/10/19	159.60	9,269.35
12/05/2019	102815	06176 BAY VALVE SERVICE & ENG'G LL	PROTECTIVE SCREEN COVERS AND ONE COMPLET	8,317.12	8,317.12
12/05/2019	102816	01623 EAST BAY DISCHARGERS AUTH	O&M ASSESSMENT - OCTOBER 1, 2019 - 2ND	176,303.05	176,303.05
12/05/2019	102817	09447 DAIRIAN FRIGARD-SILVA	D. SILVA REIMB EXP FOR WTPO2 ONLINE TRAI	117.55	117.55
12/05/2019	102818	03146 MICHELLE GALLARDO	M. GALLARDO REIMB EXP @ CALPELRA 11/18-2	148.89	148.89
12/05/2019	102819	00937 GRAINGER, INC.	SINK FOR EC LAB	859.28	859.28
12/05/2019	102820	04424 GRAYBAR ELECTRIC COMPANY	SHOP STOCK MATERIAL	215.00	215.00
12/05/2019	102821	03853 ICMA	ICMA 457 DEFERRED COMPENSATION: PAYMENT	48,397.94	48,397.94
12/05/2019	102822	08871 MATHEW MCGRATH	M. MCGRATH REIMB EXP FOR CWEA CSM GRADE	40.00	40.00
12/05/2019	102823	09439 LAURENT NGUYEN	L. NGUYEN REIMB EXP FOR SAFETY BOOTS 11/	200.00	200.00
12/05/2019	102824	02076 NORTHERN TOOL & EQUIPMENT	CART TIRES	681.66	681.66
12/05/2019	102825	09019 LORRENE SALAZAR	L. SALAZAR REIMB EXP @ CSDA 11/12-14/19	37.00	37.00
12/05/2019	102826	05026 UNIVAR USA INC.	490.10 GL SOD HYPO DELV 11-12-19	3,605.87	
			4797.70 GL SOD HYPO DELV 11-11-19	3,523.32	7,129.19
12/09/2019	2093	00494 PERS	RETIREMENT: PAYMENT	100,695.10	100,695.10
12/09/2019	8182	05511 DISBURSEMENT UNIT CALIFORN	CHILD SUPPORT GARNISHMENT: PAYMENT	699.23	699.23

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019 To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
12/10/2019	12102019	03718 HR SIMPLIFIED	IRS 125 11/16/19 - 12/06/19 POS/DCA/FSA	4,111.35	4,111.35
12/10/2019	450089950	00558 IRS - PAYROLL TAXES	FEDERAL WITHHOLDING TAXES: PAYMENT	119,444.31	119,444.31
12/10/2019	500061120	00559 EDD - PAYROLL	CALIFORNIA STATE TAXES: PAYMENT	30,577.51	30,577.51
12/10/2019	1001452223	01111 CALPERS	DECEMBER 2019 - ER CODE 0740 (PERS)	222,935.36	222,935.36
12/10/2019	1001452225	01111 CALPERS	DECEMBER 2019 - ADMIN FEES ER CODE 0740	2,258.38	2,258.38
12/12/2019	102827	00031 ALLIED FLUID PRODUCTS CORP	HEAT LOOP PUMP PARTS	1,606.38	
			MECHANICAL SEALS FOR PS2C	427.57	
			OIL COOLER GASKET FOR PLANT (DAFT AIR CO	47.38	2,081.33
12/12/2019	102828	01013 BARRETT BUSINESS SERVICES	K. YAN: W/E 11/17/19	1,463.00	
			S. MONTAGUE: W/E 11/17/19	1,267.50	
			J. RUTHRUFF: W/E 11/17/19	1,233.70	
			P. MULLEN: WE 11/17/19	1,207.91	
			A. SMITH: W/E 11/17/19	1,064.00	
			T. AMARO: W/E 11/17/19	1,064.00	
			K. BECK: W/E 11/17/19	851.20	
			E. VILLAMOR: W/E 11/17/19	585.20	
			N. POON: WE 11/17/19	486.40	
			M. ZAKLAN: WE 11/17/19	486.40	
			A. GEHMLICH: WE 11/17/19	486.40	
			M. JOHNSTON: W/E 11/17/19	292.60	10,488.31
12/12/2019	102829	03614 CAROLLO ENGINEERS INC.	18-P002 TO OC-17 WWTP ELEC SYS STUDIES/D	33,854.50	33,854.50
12/12/2019	102830	00319 ACCT # 217838-001 FISHER SCIE	LABORATORY SUPPLIES AND CHEMICALS	191.26	191.26
12/12/2019	102831	00937 GRAINGER, INC.	DC INVERTER FOR 52-S METERS	370.00	
			LAB EYEWASH PARTS	331.66	
			HYDRAULIC FILTERS AIRFLOW SYSTEM	301.53	
			DRAINS FOR LAB SINKS	78.88	

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Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
			BOXES/BAGS FOR ORGANIZING PARTS	21.61	
			DP GAUGE FLUID BATTERY FOR WELD HOOD JUS	20.11	1,123.79
12/12/2019	102832	00937 GRAINGER, INC.	PPE: EYE WASH BOTTLES FOR FOD VEHICLES	57.69	57.69
12/12/2019	102833	04424 GRAYBAR ELECTRIC COMPANY	SHOP STOCK MATERIAL	86.10	86.10
12/12/2019	102834	00473 KEMIRA WATER SOLUTIONS INC	7.73 CALCULATED DRY TONS FERROUS CHLORID	7,528.57	7,528.57
12/12/2019	102835	05368 JOHN MARCHAND	REGULAR BOARD MTG ATTENDANCE - 11/20/201	50.00	50.00
12/12/2019	102836	03653 LORI MARTIN	L. MARTIN REIMB EXP @ HOLIDAY LUNCHEON 1	27.98	27.98
12/12/2019	102837	02076 NORTHERN TOOL & EQUIPMENT	CART TIRES	347.81	347.81
12/12/2019	102838	01403 PRAXAIR DISTRIBUTION INC 186	GAS AND CYLINDER RENTAL	708.06	
			GAS AND CYLINDER RENTAL	155.18	863.24
12/12/2019	102839	00843 THE COVELLO GROUP INC	15-P018 T.O. 3 9/27/19 TO 10/24/19	2,052.00	
			18-P010 T.O. OC-10 9/27/19 TO 10/24/19	2,047.50	4,099.50
12/12/2019	102840	05026 UNIVAR USA INC.	4801.90 GL DELV 11-19-19 WWTP SODIUM HYP	3,526.42	
			4799.30 GL DELV 11-19-19 WWTP SODIUM HYP	3,524.50	7,050.92
12/12/2019	102841	00957 WEST YOST & ASSOCIATES	07-3203 T.O. OC-18 10/5/19 TO 11/8/19	2,520.00	
			SSMP UPDATE PROF SVCS FROM OCT 5 - NOV 8	1,824.00	4,344.00
12/12/2019	102842	02880 WUNDERLICH-MALEC SYSTEMS	TO OC-3 LAVWMA SLSS SCADA PLC UPGRADE	1,085.00	1,085.00
12/12/2019	102843	01719 A & M PRINTING, INC.	MAILING & POSTAGE: PSPS LETTER	7,107.43	
			PRINTING: PSPS LETTER TO DOUGHERTY VALLE	3,298.01	
			PRINTING: BILL INSERT - TRICOLOSAN & FOG	1,303.86	
			2019 GIFT CERTIFICATE	-30.00	11,679.30
12/12/2019	102844	00019 A-1 ENTERPRISES	LAVMA STREET SWEEPING NOV '19	492.50	492.50
12/12/2019	102845	07554 AIRGAS USA, LLC	WELDING SUPPLIES	685.00	
			CYLINDER RENTAL ACETYLENE, ARGON, NITROG	205.69	890.69

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Date	Check #	Vendor	Description	Amount Paid	Check Total
12/12/2019	102846	01076 ALSCO INC	FOD NOV '19 TOWELS AND MATS SERVICE	672.77	672.77
12/12/2019	102847	01076 ALSCO INC	WWTP NOV '19 TOWELS AND MATS SERVICE	501.24	501.24
12/12/2019	102848	01954 ANDERSON'S UNIFORMS	UNIFORM ITEMS FOR L. NGUYEN	105.70	105.70
12/12/2019	102849	06349 ARCSINE ENGINEERING	16-A005 T.O. 1 10/1/19 TO 10/31/19	3,516.68	3,516.68
12/12/2019	102850	01568 ASBURY ENVIRONMENTAL SVCS	FY20 BPO DIV53: HAZARDOUS MATERIAL REMOV	65.00	65.00
12/12/2019	102851	06211 ASSOCIATED SERVICES CO.	COFFEE SERVICE FOR OPS (WWTP AND FOD)	482.89	482.89
12/12/2019	102852	00622 AT&T	MANAGED INTERNET SERVICES 11/01/19-11/3	2,164.63	
			AT&T VIOP SERVICE CC 11/01/19-11/30/19	128.47	
			AT&T VIOP SERVICE DO 11/01/19-11/30/19	100.95	2,394.05
12/12/2019	102853	08663 AWARDS NETWORK	RETIREMENT GIFTS - PAT GALVES & LISA OLI	655.50	655.50
12/12/2019	102854	05404 CALIFORNIA FIRST AID & SAFET	WWTP FIRST AID KIT	269.03	
			FOF: FIRST AID KIT MAINTENANCE	92.04	
			DERWA FIRST AID KIT MTCE	63.75	
			LAWWMA FIRST AID KIT MTCE	42.61	467.43
12/12/2019	102855	07519 CH2O INC.	GLYCOL FOR COMPRESSOR LOOP AND FUEL SKID	1,210.58	1,210.58
12/12/2019	102856	00014 GSA COUNTY OF ALAMEDA	FY 2019 FUELING - FOD/INSP/CFRS - OCT. 2	4,460.79	4,460.79
12/12/2019	102857	03760 DOSH - ERT UNIT DEPT. OF INDL	BLDG S ELEVATOR PERMIT	675.00	675.00
12/12/2019	102858	09201 DST CONTROLS	SCADA, DMZ, & CORP HISTORIANS UPGRADE &	3,640.00	3,640.00
12/12/2019	102859	00260 DUBLIN CHAMBER OF COMMER	NEWSLETTER INSERTS: FLEA AND TICK CONTRO	100.00	100.00
12/12/2019	102860	00280 ECOWATER SYSTEMS	OPS LAB WATER SOFTNER EXCHANGE TANKS SER	217.20	
			DEC. '19 RO TANKS (QTY 2) EXCHANGE ON A	21.00	238.20
12/12/2019	102861	05495 EWING IRRIGATION & LANDSCAI	SPRINKLER PARTS FOR PLANT	272.88	272.88
12/12/2019	102862	04926 FANFA INC	MTR 78228008 RETURN	1,878.74	1,878.74

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12/12/2019	102863	00314 FEDEX	EXPRESS SHIPPING 11-21-19	9.49	9.49
12/12/2019	102864	07137 GOODYEAR COMMERCIAL TIRE	TIRES FOR #80 & #63	959.86	959.86
12/12/2019	102865	03149 HDS WHITE CAP CONST SUPPLY	TOOLS, EARPLUGS, BUCKETS & RESTOCK SUPPL	349.02	
			16' FIBERGLASS EXTENSION LADDER, RED	273.11	
			MARKING PAINT FOR LAVWMA	90.73	
			SUPPLIES FOR LAB SINK	89.13	
			BITS FOR CHIPPING GROUND JACK HAMMER	31.12	833.11
12/12/2019	102866	07652 HUNT & SONS, INC.	OIL FOR SHOP	478.97	478.97
12/12/2019	102867	00417 IDEXX DISTRIBUTION, INC	LABORATORY SUPPLIES AND CHEMICALS	257.37	257.37
12/12/2019	102868	07481 J.N. ABBOTT DISTRIBUTOR, INC.	FY20 BPO DIV53: LUBRICANTS FOR CO-GENS	5,849.46	5,849.46
12/12/2019	102869	06061 JACKSON LEWIS LLP	GENERAL LEGAL FEES (10/19)	1,575.11	1,575.11
12/12/2019	102870	04952 JIFCO FABRICATED PIPING	FABRICATED SPOOLS T/O 2	2,479.98	2,479.98
12/12/2019	102871	06341 KDW CONSTRUCTION	MTR 84707243 RETURNED	999.57	999.57
12/12/2019	102872	04873 KIMBALL MIDWEST	SHOP STOCK MATERIAL	1,254.79	1,254.79
12/12/2019	102873	03958 LIVERMORE AUTO GROUP	#43 SEAT BELT BUCKLE SHOP KEY INVOICE #6	176.77	176.77
12/12/2019	102874	09364 MICHELS CORPORATION	MTR 77822382 RETURN	1,840.93	1,840.93
12/12/2019	102875	04231 MSC INDUSTRIAL SUPPLY CO	NEW DRILL FOR FACILITIES	183.98	
			TEMPORARY PIPE REPAIR MATERIAL	72.03	256.01
12/12/2019	102876	04796 NAPA AUTO PARTS	AUTO SUPPLIES	405.32	
			STOCK ORDER	325.02	
			VEHICLE #71 PARTS	175.88	
			AUTO SUPPLIES	52.18	
			STOCK	13.07	971.47
12/12/2019	102877	00620 P G & E	MISC PUMP STNS, RESERVOIRS, TO'S ELEC -	61,819.68	

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Date	Check #	Vendor	Description	Amount Paid	Check Total
			PUMP STATION R200A ELECTRICITY - NOV 201	1,797.31	
			DEPARTING LOAD NON-BYPASSABLE CHARGES -	566.62	
			RESERVOIR R200 ELECTRICITY - NOV 2019	35.97	
			ALAMO TRUNK SEWER ELECTRICITY - NOV 2019	17.67	
			JOHNSON DRIVE STREETSCAPE ELEC - NOV 201	13.34	64,250.59
12/12/2019	102878	09098 PATRIOT PEST MANAGEMENT	PEST CONTROL: MONTHLY SERVICE WWTP & FOF	491.00	491.00
12/12/2019	102879	06023 JERRY PENTIN	REGULAR BOARD MTG ATTENDANCE - 11/20/201	50.00	50.00
12/12/2019	102880	04211 PLATT ELECTRIC SUPPLY	IQ METERS TO REPLACE THE EMON UNITS IN B	2,248.37	
			UPS FOR WWTP NETWORKING EQUIPMENT IN BLD	2,123.91	
			R200B POWER PROJECT	566.00	
			SHOP TOOLS	294.98	
			BAG FOR COLLECTING SHAVINGS WHEN DRILLIN	52.82	
			PARTS	34.76	
			COVERS FOR CONDULETS IN NEW HEAT LOOP CO	30.46	5,351.30
12/12/2019	102881	02617 POLYDYNE INC	2300 LB DELV 11-22-19 DERWA CLARIFLOC A2	3,078.12	3,078.12
12/12/2019	102882	01195 POWERSTRIDE BATTERY CO., IN	FY20 BPO DIV53: TRUCK & AUTO BATTERIES	62.46	62.46
12/12/2019	102883	04105 R & B COMPANY	INVENTORY RESTOCK	2,082.09	
			INVENTORY RESTOCK	584.71	
			ADJUSTABLE HYDRANT WRENCH, PLATED (QTY 1	360.53	3,027.33
12/12/2019	102884	04481 RAHMA MEDITERRANEAN MARK	MAINTENANCE CASH BOND RELEASE DP 16-287	3,500.00	3,500.00
12/12/2019	102885	00058 READYREFRESH	BLDG T BOTTLED WATER SERVICE - NOV 2019	10.91	10.91
12/12/2019	102886	02316 RECORDS CONTROL SERVICES	PHYSICAL RECORDS INVENTORY & IMPROVEMENT	1,207.12	1,207.12
12/12/2019	102887	00786 SNAP-ON INDUSTRIAL	BLAST GLOVES	45.78	45.78
12/12/2019	102888	00786 SNAP-ON INDUSTRIAL	LATEX GLOVES FOR FLEET	45.78	45.78
12/12/2019	102889	02444 DEPT LA 1368 STAPLES ADVANT.	CORK BOARD FOR FOF	124.65	

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Date	Check #	Vendor	Description	Amount Paid	Check Total
			WIRELESS KEYBOARD & MOUSE (QTY. 2)	109.14	
			RETURNED ITEMS - CREDIT FOR INV 34301443	-28.58	205.21
12/12/2019	102890	00810 STUDIO BLUE REPROGRAPHICS	16-A005 CONTRACT DOCUMENT	233.29	233.29
12/12/2019	102891	09083 JULIE TESTA	REGULAR BOARD MTG ATTENDANCE - 11/20/201	50.00	50.00
12/12/2019	102892	00870 TOOL TECH CONSTRUCTION SU	PARTS FOR CHIPPING HAMMER	136.56	136.56
12/12/2019	102893	00903 UNITED RENTALS, INC.	BITS FOR CHIPPING GUN AND JACK HAMMER	53.28	53.28
12/12/2019	102894	00912 OCC SERVICES VALLEY CARE H	DOT EXAM - D. PETTINICHO 11-5-19	100.00	
			DOT EXAM - L. GOSS 11-7-19	100.00	
			DOT EXAM - I LOPEZ 11-12-19	100.00	
			AUDIOGRAM - V. SEVILLA 11-11-19	48.00	348.00
12/12/2019	102895	00920 VASCO ROAD LANDFILL	DIGESTER SAND DISPOSAL	3,191.27	
			NOV 19-11/30 UNLOADING OF WWTP SOLIDS/GR	658.27	3,849.54
12/12/2019	102896	00928 VINCENT ELEC MOTOR CO., INC	NEW MOTOR FOR INFLUENT PUMP ROOM EXHAUST	524.00	524.00
12/12/2019	102897	00933 VWR INTERNATIONAL, INC.	LABORATORY SUPPLIES AND CHEMICALS	450.04	
			LABORATORY SUPPLIES AND CHEMICALS	341.65	
			LABORATORY SUPPLIES AND CHEMICALS	69.73	861.42
12/12/2019	102898	08423 WATERTALENT LLC	R. GAMBLE: WE 11/17/19	6,497.00	6,497.00
12/12/2019	102899	04061 WAXIE SANITARY SUPPLY	JANITORIAL SUPPLIES	1,925.35	
			JANITORIAL SUPPLIES	163.72	2,089.07
12/12/2019	102900	07021 BOB WOERNER	REGULAR BOARD MTG ATTENDANCE - 11/20/201	50.00	50.00
12/12/2019	102901	00987 ATTN: ACCOUNTING ZONE 7 WA	TREATED WATER SERVICE 10-1-19 TO 10-31-1	1,331,587.88	
			NOVEMBER 2019 CONNECTION FEES	551,648.10	1,883,235.98
12/12/2019	102902	03536 U S BANK/ CORP PMT SYSTEMS	BACKHOE SERVICE PARTS	2,680.38	
			CLEAR PLUGGED DRAIN LINE	1,400.00	
			REPAIR KITS FOR DIGESTER PRV	1,091.93	

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			STEEL CARPORT	1,091.41	
			M BAILEY REGISTRATION @GFOA ANNUAL CONFE	855.00	
			TRAN, S. PREP CLASS FOR GR IV EXAM	850.00	
			DERWA: ALUM PULSATION DAMPENER	744.32	
			601T RIMS	735.88	
			TIRE MACHINE SUPPLIES	733.15	
			CHIU - LEAGUE OF CA CITIES - 2019 CITY C	660.00	
			2019 CITY CLERKS NEW LAW & ELECTIONS SEM	660.00	
			CABLE FOR INSULGARDS	657.24	
			PAINTING IN BREEZEWAY OF DO	650.93	
			BUILDING T SIGNS	633.32	
			CHEN - CSMFO 2020 ANNUAL CONFERENCE - H	629.04	
			STEPHENSON - CASA 2020 WINTER CONFERENCE	595.00	
			BLEVINS - CASA 2020 WINTER CONFERENCE RE	595.00	
			BUILDING A REMODEL	556.91	
			ONLINE JOB ADVERTISEMENT-OPERATIONS CONT	495.00	
			FINAL REPAIRS TO COATING IN CONTAINMENT	456.80	
			GRIT FABRIC	435.93	
			OPS QUARTERLY MEETING FOOD	431.87	
			CHEN - CSMFO 2020 ANNUAL CONFERENCE REGI	425.00	
			PARTS FOR COGEN #1	417.19	
			HYD. MOTOR FOR TRACTOR INJECTOR	383.43	
			HOTEL STAY TO ATTEND CSDA BOARD SECRETAR	383.22	
			HOTEL STAY TO ATTEND CSDA BOARD SECRETAR	383.22	
			LODGING CALPELRA STEVE DELIGHT	345.70	
			1 STANDARD UCC SSL CERT -2 YR:DO-ISE-01.	319.98	
			TRAINING: UTILITY LINE LOCATING D. PETTI	315.00	
			M. GALLARDO - 2019 ANNUAL CALPELRA CONFE	311.98	
			STEPHENSON & BLEVINS - CASA 2020 WINTER	303.20	

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			GENERAL SUPPLIES	299.47	
			PORTABLE TOILET RENTAL 11/12/19-12/09/19	299.00	
			ONLINE JOB ADVERTISEMENT-OPERATIONS CONT	290.00	
			ACTUATOR MOTOR	287.17	
			C. ATWOOD - 2019 ANNUAL CALPELRA CONFERE	286.98	
			AIRLINE FOR N. GENZALE TO ATTEND 2019 CI	286.96	
			AIRLINE FOR V. CHIU TO ATTEND 2019 CITY	286.96	
			J. CHALK CWEA MEMBERSHIP & CSM GRADE 2 C	286.00	
			ATWOOD - CSMFO 2020 ANNUAL CONFERENCE -	285.48	
			2020 MANAGEMENT RETREAT - VENUE DEPOSIT	275.00	
			2020 MANAGEMENT RETREAT - VENUE DEPOSIT	275.00	
			BATTERY FOR EMERGENCY OPERATION-POWER OU	273.11	
			MONITORING INSTRUMENTATION	272.03	
			HANDS-ON SEMINAR REG FEE FOR MECHANICS O	267.75	
			EXTERNAL PORTABLE CHARGER FOR SURFACE PR	263.98	
			LAB EYE WASH SUPPLIES	263.82	
			AIRFARE FOR J. CARSON - CASA WINTER CONF	255.20	
			MISC SUPPLIES	254.33	
			BUILDING A LAB; FITTINGS FOR SINKS	246.68	
			CHEN - CSMFO 2020 ANNUAL CONFERENCE - A	243.96	
			CALIBRATION STANDARD FOR CL2 ANALYZER	233.31	
			PPE: SANITIZING HAND WIPES (FOF) AND RA	231.81	
			REPLACEMENT LEAK DETECTOR FOR TO #2	231.19	
			PART IS FOR DREDGE A/C	212.72	
			SAFETY SHOES FOR E. PADILLA	211.07	
			ANNUAL MEMBERSHIP RENEWAL 09/23/19-12/31	210.00	
			R. LAWRENCE SAFETY SHOES	207.56	
			HR TEAM BUILDING MEETING	204.01	
			SEVILLA, V. PROTECTIVE FOOTWEAR	200.00	

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			D. GRIFFIN AWWA MEMBERSHIP 11-15-19	198.00	
			SUPPLIES FOR DROUGHT GARDEN	197.32	
			CORNELL PUMP REGL SCHOOL & HYDRAULIC SEM	197.12	
			FR PANTS	196.62	
			D. LEONARDO CWEA ASSOCIATION MEMBERSHIP	192.00	
			J. BERTACCHI CWEA MEMBERSHIP RENEWAL	192.00	
			HEIDI BIRDSELL CWEA RENEWAL	192.00	
			D. GRIFFIN CWEA MEMBERSHIP RENEWAL	192.00	
			SUV JACK & LEATHER GLOVES	188.98	
			BOOKS FOR CWEA TEST - DAVID HIGARES	185.73	
			TRAFFIC CONTROL TRAINING - L. GOSS 12-10	185.00	
			QTY (5) GPS DONGLES AND (5) CAR CHARGERS	182.90	
			T. LEONARDO - BACKFLOW TESTER CERTIFICAT	180.00	
			BUILDING A SUPPLIES	176.46	
			POWER INVERTER FOR FSL HARVESTING	173.58	
			PHOTOS FOR VALUES AND OPERATING STANDARD	169.00	
			COMPLETE LIGHTING FOR FACILITIES	166.04	
			SUPPLIES FOR FLUSHING	164.93	
			LGOSS: REGN FEE RE: NORTHERN SAFETY DAY	163.00	
			NEIGHBORHOOD MEETING FOOD	154.46	
			BUILDING A SHEETROCK AND SUPPLIES	153.10	
			HALLOWEEN POTLUCK EXPENSE	150.00	
			FUEL FOR TRUCK 110	150.00	
			FUEL FOR TRUCK 110	150.00	
			FUEL FOR TRUCK 110	150.00	
			OFFICE SUPPLIES	147.49	
			GENERAL SUPPLIES	142.28	
			KOZANDA, S. SHOES	142.03	
			REPLACEMENT CONCRETE BLADES	140.71	

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			GALLARDO- CSRMA MEETINGS AIRFARE	137.98	
			PPE: NITRILE GLOVES FOR FLEET MTCE	135.58	
			ATWOOD - CSMFO 2020 ANNUAL CONFERENCE -	127.96	
			FUEL FOR TRUCK 109	124.52	
			BUILDING A REMODEL	123.21	
			LAB SINK REPAIRS	121.89	
			HOLIDAY LUNCHEON 12/10/19 - SUPPLIES	120.57	
			OFFICE SUPPLIES - JEFF	117.92	
			BATTERIES AND SHOP RESTOCK	114.40	
			CHEN - CSMFO MEMBERSHIP 2020	110.00	
			BIAN - CSMFO MEMBERSHIP 2020	110.00	
			FUEL FOR TRUCK 110	105.62	
			M. BAILEY REGISTRATION @ CDIAC WORKSHOP	100.00	
			S. ROBERSON CWEA CSM GRADE 3 CERTIFICATE	99.00	
			ILOPEZ: MT-3 CERTIFICATE RENEWAL, EXP 12	99.00	
			TSTODDARD: E/I-3 CERTIFICATE RENEWAL, EX	99.00	
			REPAIRED LAB SINK	98.36	
			WATER PROOF UTILITY CASE (3)	97.38	
			LAB SINK PARTS	96.14	
			SHOP SUPPLIES	93.69	
			OFFICE SUPPLIES FOR DO 10 29 19	93.43	
			FUEL FOR TRUCK #29	89.00	
			DAFT AIR COMP PLUMBING	88.36	
			FUEL FOR TRUCK 109	86.98	
			SOLDER FOR PLANT AIR COOLERS, LOCKS FOR	86.20	
			UNDERGROUND STORAGE TANK OPERATOR EXAM-L	85.00	
			SBEC NOVEMBER MEETING R. PORTUGAL AND D.	80.00	
			TORCH KIT FOR PS20B REPAIR	76.45	
			ATWOOD - CSMFO MEMBERSHIP 2020	75.00	

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Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
			BUILDING A SUPPLIES	73.13	
			PVC CUTTER FOR PIPING FOR INSTRUMENTATIO	73.07	
			OFFICE SUPPLIES FOR DO HR BOD 10 28 19	70.87	
			KEURIG MINI FOR RECRUITMENT	69.91	
			TOOLS FOR TRUCK 80	67.66	
			VACUUM BAGS FOR FLEET VACUUM	66.58	
			WATERPROOF UTILITY CASE (2)	64.92	
			OFFICE SUPPLIES FOR DO HR 11 5 19	64.52	
			REBUILD KITS FOR CUTTER MOTORS	61.90	
			FUEL FOR TRUCK 29	60.00	
			LAB SAMPLING (ASBESTOS) FLOOR TILES	60.00	
			INK CARTRIDGE REFILLS FOR CCTV VAN PRINT	58.02	
			SPRAY TIP PAINTING - FACILITIES	57.88	
			GENERAL SUPPLIES	57.38	
			STUDY GUIDE FOR MAINTENANCE	56.05	
			PS300B PIPE FITTINGS	55.18	
			SHUTTLE FOR N. GENZALE & V. CHIU TO/FROM	54.98	
			SUPPLIES - CLASP ENVELOPES	54.93	
			MISC SUPPLIES	53.35	
			OFFICE SUPPLIES	53.24	
			ATWOOD & GALLARDO- 2019 ANNUAL CALPELRA	52.41	
			FLEET SHOP PARTS STEAM CLEANER	50.66	
			FACILITIES SUPPLIES	47.99	
			HACH SAMPLE CELL FOR PORTABLE TURBIDIMET	47.04	
			FUEL FOR FLUSHING	46.69	
			LABELS FOR GLYCOL CHILLERS AND BUCKETS	46.24	
			FUEL FOR TRUCK 109	46.08	
			LAUNDRY ROOM PART	43.57	
			POWER CORD FOR SURFACE	43.34	

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Dublin San Ramon Services District

From: 12/5/2019 To: 1/8/2020

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Date	Check #	Vendor	Description	Amount Paid	Check Total
			GASOLINE - DISTRICT POOL VEHICLE #106	43.15	
			REPLACEMENT WATER FILTER FOR FOF KITCHEN	43.12	
			OPS QTRLY MTG FRUITS AND OJ	42.07	
			FUEL FOR TRUCK 112	42.00	
			PARTS FOR TRUCK 80	40.91	
			SPRAY TIPS FOR FACILITIES	40.40	
			TEST FOR OPERATIONS CONTROL SYSTEMS SUPE	40.00	
			MATERIAL	39.85	
			QTY (2) MINI DP TO DP ADAPTERS FOR JOHNS	39.31	
			NEIGHBORHOOD MEETING REFRESHMENT	38.94	
			FUEL FOR COMPANY VEHICLE	37.90	
			PHONE CHARGERS FOR FACILITIES FLEET GUYS	37.10	
			BATTERIES FOR TEST EQUIPMENT/INSTRUMENTS	36.58	
			BUILDING A SUPPLIES	34.62	
			SS CLAMP	33.95	
			CORK BOARD TO PROPERLY MOUNT & DISPLAY H	33.20	
			PRO SUBSCRIPTION (NOVEMBER 2019)	33.00	
			NOZZLES	32.73	
			SEAL KIT FOR INJECTOR MOTOR	30.95	
			FUEL FOR TRUCK 112	30.10	
			SPARE KEYS FOR FOD FILE CABINET	29.85	
			KEY BLANKS TO MAKE A COPY OF A KEY THAT	28.39	
			HEX KEY DRILL BITS FOR PS20B REPAIR	27.99	
			LAB TECH RECRUITMENT APPRAISAL BOARD EXP	27.98	
			PHENOLIC LABEL FOR NEW HEAT LOOP CONTROL	27.31	
			AMAZON SPACE HEATER ZAVADIL 112-2921610-	26.20	
			PLIERS TO REMOVE METAL SPLINTER IN THUMB	26.01	
			SIMMERSON - 2019 ANNUAL CALPELRA CONFERE	24.58	
			QTY (1) LOGITECH WIRELESS KB MOUSE FOR L	24.02	

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Date	Check #	Vendor	Description	Amount Paid	Check Total
			QTY (1) LOGITECH WIRELESS KB/.MOUSE FOR O	24.02	
			HALLOWEEN PARTY POTLUCK 10/31/19 - EXPEN	23.92	
			TOOL BOX PARTS	22.48	
			CHANG - ULTIMATE PHOTOGRAPHY CRASH COURSE	22.16	
			GRASHUIS - 2019 ANNUAL CALPELRA CONFEREN	21.94	
			STORAGE CONTAINERS FOR BACTI WATER SAMPL	21.84	
			COMPLETE REPLACEMENT TIPS FOR SHOP WELDE	21.84	
			NEIGHBORHOOD MEETING SUPPLIES	20.94	
			PARTS FOR TRUCK 128/115	20.40	
			IRRIGATION VALVE PARTS FOR LANGMUIR REPA	20.02	
			ERGO: GEL MOUSEPAD FOR CACHE	19.65	
			PHOTOGRAPHY REFERENCE BOOK	19.50	
			ACCESS POINT CONN. REPLACEMENT	19.23	
			BUILDING A MATERIALS	18.73	
			BUILDING A REMODEL	18.70	
			SCREW EXTRACTOR FOR PS20B REPAIR	18.55	
			WEATHERPROOF BOX TO STORE CRITICAL INSTR	16.60	
			SPARE KEYS FOR 4B GENERATOR	16.39	
			WATER CERT STUDY GUIDE FOR ~	16.38	
			TWO CERTIFIED MAIL PACKAGES FOR NOA FOR	15.80	
			IS SUPERVISOR & ASSOCIATE ENG-SUPERVISOR	15.43	
			SAMPLE STATION PLUMBING FITTINGS	15.42	
			ERGO: MOUSEPADS, (1) CCHE, (1) DEEPA FOF	15.27	
			PARTS FOR REBUILDING DERWA CL2 ANALYZER	15.04	
			AUDIOBOOK - CULTURE BY DESIGN BY DAVID F	14.95	
			AUDIBLE LISTENER MEMBERSHIP	14.95	
			PLASTIC TO FAB SHIMS FOR COGEN HEAT LOOP	12.84	
			REPLACEMENT BLADES FOR WORK KNIFE	12.01	
			BLEVINS - CAPIO SMART PHONE VIDEO WORKSH	12.00	

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Date	Check #	Vendor	Description	Amount Paid	Check Total
			SUPPLIES FOR ON-CALL TRUCK	11.45	
			RETIREMENT CARDS FOR DAN LOPEZ	10.58	
			PS300B PIPE FITTINGS	10.35	
			DROUGHT GARDEN - SUPPLIES	10.28	
			TUBING PARTS FOR INSTRUMENTS FOR CL2 REB	10.11	
			CHAIN LINKS FOR GATE DRIVE MOTOR REPAIR	6.83	
			TAPE FOR "REPAIRS" WHITEBOARD	6.53	
			DMC PARKING 10 25 19 - OAKLAND MANAGERS	6.00	
			DMC PARKING 11 12 19 - OAKLAND HOUSING	6.00	
			SEAL TAPE FOR TRUCK 80	5.35	
			SAMPLING SUPPLIES	4.58	
			GRASHUIS - NORCAL PLANNING MTG. PARKING	1.50	
			APPLE ICLOUD STORAGE FOR NOVEMBER 2019 -	0.99	
			RETURNED ITEMS BOUGHT FOR TRUCK 128/115	-20.40	
			AMAZON - RETURN - ACCT - HP MICROTONER F	-386.62	39,493.30
12/19/2019	102903	09458 STEVEN ANDERSEN	S. ANDERSEN REIMB FOR MILEAGE AT TRAININ	265.99	265.99
12/19/2019	102904	09040 ANDERSON PACIFIC ENGINEERI	17-P004 - PP#8 11/01/19-11/30/19	276,839.50	276,839.50
12/19/2019	102905	01013 BARRETT BUSINESS SERVICES	K. YAN: W/E 11/24/19	2,207.80	
			J. RUTHRUFF: W/E 11/24/19	1,419.60	
			E. VILLAMOR: W/E 11/24/19	1,383.20	
			A. SMITH: W/E 11/24/19	1,064.00	
			K. BECK: W/E 11/24/19	997.50	
			P. MULLEN: WE 11/24/19	905.93	
			M. ZAKLAN: WE 11/24/19	588.80	
			A. GEHMLICH: WE 11/24/19	486.40	
			N. POON: WE 11/24/19	460.80	
			T. AMARO: W/E 11/24/19	425.60	9,939.63

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12/19/2019	102906	00937 GRAINGER, INC.	DRAINS FOR LAB SINKS	394.44	
			PARTS FOR VFD BLOWER MOTOR	4.26	398.70
12/19/2019	102907	04424 GRAYBAR ELECTRIC COMPANY	PARTS FOR NEW VIBRATION ANALYZER - LAVWM	248.53	248.53
12/19/2019	102908	06791 HYLAND SOFTWARE, INC.	HYLAND - PROFESSIONAL SERVICES 10/27/19	752.50	
			HYLAND - PROFESSIONAL SERVICES 10/27/19	215.00	967.50
12/19/2019	102909	03853 ICMA	ICMA 457 DEFERRED COMPENSATION: PAYMENT	46,977.60	46,977.60
12/19/2019	102910	00439 IUOE LOCAL 39	LOCAL 39 UNION DUES: PAYMENT	4,812.05	4,812.05
12/19/2019	102911	06964 RYAN PENDERGRAFT	R. PENDERGRAFT REIMB EXP @ CONSTRUCTION	53.59	53.59
12/19/2019	102912	02470 SHRED-IT USA LLC	SHREDDING SERVICE - SVC DATE 11/27/2019	121.89	121.89
12/19/2019	102913	00805 SUE STEPHENSON	S. STEPHENSON REIMB EXP @ ACWA 12/03-05/	94.24	94.24
12/19/2019	102914	00843 THE COVELLO GROUP INC	17-P004 T.O. 1 9/27/19 TO 10/24/19	51,396.92	51,396.92
12/19/2019	102915	05026 UNIVAR USA INC.	4800.50 GL SOD HYPO DELV 11/27/19	3,525.39	
			4699.80 GL SOD HYPO DELV 11-26-19	3,451.44	6,976.83
12/19/2019	102916	05026 UNIVAR USA INC.	135 GAL FOD SODIUM HYPOCHLORITE 12.5%	99.14	99.14
12/19/2019	102917	07290 V. W. HOUSEN & ASSOCIATES, INC.	15-W017 T.O. OC-4 9/1/19 THROUGH 10/31/19	1,435.50	
			15-W017 T.O. OC-4 8/1/19 THROUGH 8/31/19	841.50	2,277.00
12/19/2019	102918	00957 WEST YOST & ASSOCIATES	17-P004 T.O. 3 10/5/19 TO 11/8/19	44,910.05	44,910.05
12/19/2019	102919	03831 JACLYN YEE	J. YEE REIMB EXP @ CONSTRUCTION MANAGEME	32.13	32.13
12/19/2019	102920	02158 AMADOR VALLEY INDUSTRIES	DO GARBAGE SVC - FOR NOV 2019	751.67	751.67
12/19/2019	102921	04042 BAY AREA NEWS GROUP	16-A005 BID - ORDINANCE #346 - BAY AREA	695.70	695.70
12/19/2019	102922	01085 CALPERS LONG-TERM CARE PR	LONG-TERM CARE: PAYMENT	68.12	68.12
12/19/2019	102923	00118 CALTEST ANALYTICAL LAB	SUBCONTRACTED SAMPLE ANALYSES	323.95	323.95
12/19/2019	102924	00136 CDW GOVERNMENT INC.	CDW QUOTE LBQT039 - SINGLEWIRE 1Y MNT SU	1,417.50	1,417.50

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12/19/2019	102925	09158 CLAREMONT EAP	EE ASSISTANCE: JANUARY 2020 CHARGES	377.00	377.00
12/19/2019	102926	01089 CWEA - NRTC	KHAW - LABORATORY ANALYST GRADE 2 CERT R	94.00	94.00
12/19/2019	102927	09076 D. W. NICHOLSON	REPLACE THE EXISTING BUS DUCT INTERCONNE	42,578.10	42,578.10
12/19/2019	102928	00237 EBMUD MAIL REMITTANCE DER	DERWA BILLING - OCT 2019	29,940.86	29,940.86
12/19/2019	102929	09201 DST CONTROLS	SCADA, DMZ, & CORP HISTORIANS UPGRADE &	1,040.00	1,040.00
12/19/2019	102930	05839 EUROFINS EATON ANALYTICAL I	SAMPLE ANALYSES	85.00	85.00
12/19/2019	102931	02656 FASTENAL COMPANY	PPE: BLDG S VENDING MACHINE RESTOCK	81.34	
			PPE: FOF VENDING MACHINE RESTOCK	69.13	
			PPE: BLDG A VENDING MACHINE RESTOCK	20.83	171.30
12/19/2019	102932	00314 FEDEX	EXPRESS SHIPMENT 11-25-19	15.17	15.17
12/19/2019	102933	02914 STATE OF CALIFORNIA FRANCHI	FRANCHISE TAX BOARD: PAYMENT	150.00	150.00
12/19/2019	102934	09459 AUBREY GEHMLICH	A. GEHMLICH REIMB EXP @ DAN LOPEZ RETIRE	11.98	11.98
12/19/2019	102935	00352 GOLDEN STATE FLOW MEASUR	SENSUS ONMI C2 CHAMBER METER 2.0 INCH (Q	13,726.13	13,726.13
12/19/2019	102936	07996 CLA-VAL GRISWOLD INDUSTRIE	PILOT ASSEMBLY (QTY. 4)	423.89	423.89
12/19/2019	102937	07523 ID ARCHITECTURE	19-A005 T.O. OC-7 OCTOBER DESIGN SERVICE	12,319.98	12,319.98
12/19/2019	102938	02718 OF NO. CALIFORNIA JENSEN INS	FLOW METERS FOR BALLASTED FLOCK HCS	7,585.77	7,585.77
12/19/2019	102939	01225 KAESER COMPRESSORS, INC	PARTS FOR SHOP AIR COMPRESSOR AND SF	2,433.10	2,433.10
12/19/2019	102940	01225 KAESER COMPRESSORS, INC	SHOP AIR COMPRESSOR	528.73	
			SAND FILTER AIR COMPRESSOR TROUBLE SHOOT	428.25	956.98
12/19/2019	102941	00486 APPARATUS REPAIR INC KOFFLE	REPLACEMENT MOTOR PUMP #3 PS 200A	5,825.98	5,825.98
12/19/2019	102942	00344 LUCITY INC.	LUCITY MOBILE UPGRADE WITH PRO-RATED CON	24,675.00	24,675.00
12/19/2019	102943	02166 MAZE & ASSOCIATES	FYE2019 AUDIT SERVICES AND AUP PERFORMED	2,346.00	
			LAWWMA AUDIT SVCS - JUNE 2019 (WORK IN N	847.00	3,193.00

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Date	Check #	Vendor	Description	Amount Paid	Check Total
12/19/2019	102944	01272 MCH ELECTRIC	MTR# 63983844 RETURNED	1,610.56	1,610.56
12/19/2019	102945	04231 MSC INDUSTRIAL SUPPLY CO	HEPA VAC SYSTEM FOR SAND BLASTER	1,493.44	
			MECHANICAL SHOP SUPPLIES	220.19	
			OFFICE SUPPLIES FOR MAINT	12.31	1,725.94
12/19/2019	102946	04796 NAPA AUTO PARTS	TRUCK #20 WASHER FLUID FOR SHOP	164.46	
			FLEET STOCK	130.04	
			#71 PARTS	83.63	
			#29 CIRCUIT BREAKER	43.00	
			STOCK ORDER	25.67	
			STOCK ORDER #70	24.02	
			#29 FUSE HOLDER	15.83	
			PLANT WIPER BLADES	14.62	
			DIGESTERS #1 & #2 WIPER SEALS	7.40	508.67
12/19/2019	102947	09136 OAKWOOD LAKE WATER DISTRI	FORENSIC TESTING FOR TUSCANY LEAK PVC PI	7,500.00	7,500.00
12/19/2019	102948	00620 P G & E	WWTP ELECTRICITY - NOV 2019	23,364.35	
			DISTRICT OFFICE ELECTRICITY - NOV 2019	1,579.22	
			FSL AERATORS; LAB HVAC; FLEET - NOV 2019	1,487.98	
			PLEASANTON RECYCLED WATER TURNOUT SEP 20	1,045.59	
			DO UTILITY BLDG ELECTRICITY - NOV 2019	139.41	
			RESERVOIR R100 DERWA TANK 1 - DEC 2019	41.15	
			DO UTILITY BLDG GAS SERVICE - NOV 2019	28.80	
			DISTRICT OFFICE GAS SERVICE - NOV 2019	8.92	27,695.42
12/19/2019	102949	02906 PACIFIC SURFACING INC	MTR# 77822378 RETURN	1,792.90	1,792.90
12/19/2019	102950	04211 PLATT ELECTRIC SUPPLY	SHOP TOOL	381.28	381.28
12/19/2019	102951	07412 PURETEC INDUSTRIAL WATER	DI WATER SYSTEM MAINTENANCE SERVICES	177.56	
			DI WATER SYSTEM MAINTENANCE SERVICES	168.30	345.86

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Date	Check #	Vendor	Description	Amount Paid	Check Total
12/19/2019	102952	09023 QUENCH USA, INC.	WWTP WATER FILTRATION SERVICE BLDG A & B	131.10	131.10
12/19/2019	102953	04105 R & B COMPANY	INVENTORY RESTOCK	1,332.85	
			INVENTORY RESTCOK	666.43	
			PARTS FOR TO2 VAULT CHEMICAL INJECTION	518.37	2,517.65
12/19/2019	102954	07707 RICE LAKE WEIGHING SYSTEMS	LABORATORY SUPPLIES AND CALIBRATION SERV	250.00	250.00
12/19/2019	102955	08024 SAFETY COMPLIANCE MANAGEI	RESPIRATOR SAFETY TRAINING AND FIT-TESTI	3,730.00	3,730.00
12/19/2019	102956	08646 SAUSAL CORPORATION	19-A005&16-A004-PP#4 FOR 11/01/19-11/30/	590,122.22	590,122.22
12/19/2019	102957	00774 SIEMENS INDUSTRY, INC	LEVEL TRANSDUCER FOR RES R20 & LEVEL TRA	3,526.59	3,526.59
12/19/2019	102958	09374 TOM MAYO CONSTRUCTION	MTR# 77992256 RETURNED	1,575.03	1,575.03
12/19/2019	102959	01806 U.S. BANK EQUIPMENT FINANCE	COPIER LEASE LAB/CUST SVC/EXEC - 12/01/1	1,680.26	1,680.26
12/19/2019	102960	05234 UNION SANITARY DISTRICT	YEE, PENDERGRAFT, PORTUGAL - CONSTRUCTIO	858.78	858.78
12/19/2019	102961	01222 IRS UNITED STATES TREASURY	GARNISHMENT - IRS: PAYMENT	420.50	420.50
12/19/2019	102962	00556 UNITED WAY OF THE BAY AREA	UNITED WAY: PAYMENT	175.07	175.07
12/19/2019	102963	08561 VERIZON CONNECT	FY20 BPO DIV53: FLEET GPS TRACKING SYSTE	1,320.90	1,320.90
12/19/2019	102964	00924 VERIZON WIRELESS	CELL PHN SVC AND EQUPTMNT CHARGES 11/04/	4,552.79	4,552.79
12/19/2019	102965	00933 VWR INTERNATIONAL, INC.	LABORATORY SUPPLIES AND CHEMICALS	450.04	
			LABORATORY SUPPLIES AND CHEMICALS	145.79	
			LABORATORY SUPPLIES AND CHEMICALS	117.36	
			PUMP STATION CHEMICALS	95.44	
			LABORATORY SUPPLIES AND CHEMICALS	66.47	875.10
12/19/2019	102966	08423 WATERTALENT LLC	R. GAMBLE: WE 11/24/19	6,497.00	6,497.00
12/19/2019	102967	04061 WAXIE SANITARY SUPPLY	JANITORIAL SUPPLIES	222.05	
			JANITORIAL SUPPLIES	212.02	434.07
12/23/2019	8183	05511 DISBURSEMENT UNIT CALIFORN	CHILD SUPPORT GARNISHMENT: PAYMENT	699.23	699.23

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12/23/2019	1001467083	00494 PERS	RETIREMENT: PAYMENT	98,282.15	98,282.15
12/24/2019	44218259	00558 IRS - PAYROLL TAXES	FEDERAL WITHHOLDING TAXES: PAYMENT	135,561.15	135,561.15
12/24/2019	203221952	00559 EDD - PAYROLL	CALIFORNIA STATE TAXES: PAYMENT	36,666.73	36,666.73
12/26/2019	102968	07554 AIRGAS USA, LLC	FY20 BPO DIV53: WELDING SUPPLIES	199.47	199.47
12/26/2019	102969	07831 ALBOUM & ASSOCIATES	TRANSLATION SERVICES FOR CS MULTI-LINGUA	150.00	150.00
12/26/2019	102970	01568 ASBURY ENVIRONMENTAL SVCS	FY20 BPO DIV53: HAZARDOUS MATERIAL REMOV	55.00	55.00
12/26/2019	102971	00622 AT&T	LAWWMA PHONE & DSL - DEC 2019	561.13	561.13
12/26/2019	102972	08684 BIOGAS ENGINEERING	16-P028 T.O. 1 11/30/19	640.00	640.00
12/26/2019	102973	00091 & JUDSON BOLD, POLISNER, MA	MONTHLY LEGAL SERVICES - NOV 2019	9,820.43	9,820.43
12/26/2019	102974	09463 YURIY BONDARENKO	YURIY BONDARENKO'S CLAIM UNDER CIVIL COD	355.16	355.16
12/26/2019	102975	00118 CALTEST ANALYTICAL LAB	SUBCONTRACTED SAMPLE ANALYSES	184.30	184.30
12/26/2019	102976	09297 COMPUTER COURAGE INC.	LAWWMA WEBSITE UPGRADE - NOVEMBER 2019	461.70	
			LAWWMA WEBSITE UPGRADE - OCTOBER 2019	261.90	723.60
12/26/2019	102977	00307 FAIRWAY EQUIPMENT & SUPPLY	17-P004 PRIMARY BYPASS PARTS	1,062.03	
			TOOL RACK FLOORING	711.52	1,773.55
12/26/2019	102978	00368 HACH COMPANY	SUPPLIES FOR WATER SAMPLING	2,289.18	
			WATER SAMPLING SUPPLIES	1,257.88	3,547.06
12/26/2019	102979	07207 HILL BROTHERS CHEMICAL CON	100 GAL AQUEOUS AMMONIA FOR PAX RES 1A A	303.13	303.13
12/26/2019	102980	06732 HIRERIGHT, INC.	EMPLOYMENT BACKGROUND SCREENING (MAINTEN	99.50	99.50
12/26/2019	102981	07652 HUNT & SONS, INC.	RED DIESEL	3,126.17	3,126.17
12/26/2019	102982	06074 INSIGHT PUBLIC SECTOR	RENEW CISCO ISE LICENSE SUBSCRIPTION 12/	3,638.50	3,638.50
12/26/2019	102983	07848 JARVIS, FAY & GIBSON, LLP	GENERAL COUNSEL SVCS - NOV. 2019	7,385.00	7,385.00
12/26/2019	102984	03958 LIVERMORE AUTO GROUP	#33 BRAKES	326.61	326.61

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12/26/2019	102985	00536 MC MASTER-CARR SUPPLY CO.	PLANT AIR CODING SYSTEM PARTS	67.96	67.96
12/26/2019	102986	04231 MSC INDUSTRIAL SUPPLY CO	BEARINGS FOR PS20B PUMP REBUILDS	258.64	258.64
12/26/2019	102987	05364 ON-SITE HEALTH & SAFETY	RESPIRATOR FIT TESTING - JUSTIN LANKFORD	63.00	63.00
12/26/2019	102988	00620 P G & E	LAWWMA PS FEEDER A - DEC 2019	86,708.78	
			LAWWMA PS FEEDER B - DEC 2019	51,673.67	
			MISC PUMP STATIONS, COMMERCE CIR ELEC &	26,506.50	
			PUMP STATION R200B ELECTRIC - DEC 2019	3,727.85	
			LAWWMA PIPELINE & LIVERMORE LINE - DEC 2	673.16	
			RESERVOIR 3A ELECTRICITY - NOV 2019	47.79	
			DERWA TURNOUT - DEC 2019	29.83	169,367.58
12/26/2019	102989	08356 PACE SUPPLY	REPAIR ITEMS FOR SHOP STOCK	4,135.70	
			SUPPLIES FOR ON-CALL TRUCK	1,279.61	
			REDUCERS, MECHANICAL JOINT , FLANGE	928.92	
			TOOLS FOR ON-CALL TRUCK	270.59	
			SERVICE LINE FITTINGS (QTY. 2)	103.90	
			RETURNED ITEMS - ORIG INV 145746390 LINE	-201.93	6,516.79
12/26/2019	102990	09098 PATRIOT PEST MANAGEMENT	PEST CONTROL: MONTHLY SERVICE WWTP & FOF	145.00	145.00
12/26/2019	102991	04211 PLATT ELECTRIC SUPPLY	05-3103	7,141.67	
			BUILDING Q POWER PROJECT	5,441.34	
			BUILDING S MATERIAL	1,150.40	13,733.41
12/26/2019	102992	00663 PLEASANTON GARBAGE SVC IN	WWTP GARBAGE SERVICE & GRIT BOXES NOV '1	10,028.25	
			FOF MONTHLY GARBAGE SERVICE - NOV 2019	588.15	10,616.40
12/26/2019	102993	07412 PURETEC INDUSTRIAL WATER	DI WATER SYSTEM MAINTENANCE SERVICES	138.92	138.92
12/26/2019	102994	04105 R & B COMPANY	FLANGED FITTINGS (3), MUELLER GATE VALVE	2,408.96	
			RW GATE VALVE	1,956.45	
			REPAIR SUPPLIES RESTOCK FOR FOD WAREHOUS	1,358.81	

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019

To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
			BLOW OFF VALVE	311.36	
			EXPOXY KITS (2) - AVB JOB	91.77	6,127.35
12/26/2019	102995	00058 READYREFRESH	LAB BOTTLED WATER SERVICE - NOV 2019	73.91	73.91
12/26/2019	102996	00825 SWRCB - ATTN: ACCT OFFICE	ED PADILLA DRINKING WATER OPERATOR D3 CE	190.00	190.00
12/26/2019	102997	06004 VANGUARD CLEANING SYSTEM	DEC '19 WWTP MONTHLY JANITORIAL SERVICE	3,295.00	
			FY20 JANITORIAL SERVICES FOR WWTP, DO &	2,845.00	
			FY20 LAVWMA JANITORIAL SERVICES	495.00	6,635.00
12/26/2019	102998	00920 VASCO ROAD LANDFILL	FY20 UNLOADING OF WWTP SOLIDS/GRIT SCREE	901.65	901.65
12/26/2019	102999	00933 VWR INTERNATIONAL, INC.	GLOVES(LRG) FOR OPERATOR'S	122.75	
			GLOVES (MED) FOR OPERATORS	122.75	
			GLOVES (XL) FOR OPERATORS	122.75	
			LABORATORY SUPPLIES AND CHEMICALS	61.84	430.09
12/26/2019	103000	00031 ALLIED FLUID PRODUCTS CORP	PSR1 SEAL	1,275.85	1,275.85
12/26/2019	103001	01013 BARRETT BUSINESS SERVICES	S. MONTAGUE: W/E 11/10/19	1,380.00	
			J. RUTHRUFF: W/E 12/1/19	1,098.50	
			P. MULLEN: WE 12/1/19	717.20	
			M. ZAKLAN: WE 12/1/19	672.00	
			K. BECK: W/E 12/1/19	638.40	
			A. SMITH: W/E 12/1/19	638.40	
			T. AMARO: W/E 12/1/19	625.10	
			N. POON: WE 12/1/19	486.40	
			A. GEHMLICH: WE 12/1/19	486.40	6,742.40
12/26/2019	103002	06176 BAY VALVE SERVICE & ENG'G LL	FSL VALVE REPAIR	2,423.20	2,423.20
12/26/2019	103003	07954 BENEFIT COORDINATORS CORP	12/19 - EE LIFE & DISABILITY INSURANCE P	11,428.16	11,428.16
12/26/2019	103004	03614 CAROLLO ENGINEERS INC.	PROF SRVS FROM 9/1/19 TO 11/30/19 DIGEST 07-3203 T.O. 2 11/1/19 TO 11/30/19	6,004.96	
				5,221.66	

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019

To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
			16-R014 T.O. OC-19 11/1/19 TO 11/30/19	4,374.50	15,601.12
12/26/2019	103005	00319 ACCT # 217838-001 FISHER SCIE	LABORATORY SUPPLIES AND CHEMICALS	372.85	372.85
12/26/2019	103006	00937 GRAINGER, INC.	SUMP PUMP FOR PS2B	498.55	
			BLDG D WELD SHOP HOIST REPAIR	352.60	
			MECHANICS GLOVES	123.89	
			BIFOCAL SAFETY GLASSES & MECHANICS GLOVE	71.08	1,046.12
12/26/2019	103007	00937 GRAINGER, INC.	RAIN JACKET & RAIN PANTS	170.85	170.85
12/26/2019	103008	04424 GRAYBAR ELECTRIC COMPANY	SHOP STOCK MATERIAL	905.03	
			WIREWAY PARTS FOR NEW VIBRATION MONITORS	605.80	
			SHOP STOCK MATERIAL	21.16	1,531.99
12/26/2019	103009	03853 ICMA	ICMA 457 DEFERRED COMPENSATION: PAYMENT	40.00	40.00
12/26/2019	103010	00485 KOFF & ASSOCIATES INC.	CLASSIFICATION STUDY - INFORMAL APPEAL P	780.00	780.00
12/26/2019	103011	01171 MCGUIRE & HESTER	ON-CALL WATER & SEWER REPAIRS FOR SEPT &	189,057.11	189,057.11
12/26/2019	103012	07109 DANIEL MCINTYRE	D. MCINTYRE REIMB EXP FOR MILEAGE AUG-NO	547.75	
			D. MCINTYRE REIMB EXP @ ACWA 12/02-04/19	330.77	878.52
12/26/2019	103013	00666 RUDY PORTUGAL	R. PORTUGAL MILEAGE REIMB EXP @ BAYWORK	27.84	27.84
12/26/2019	103014	05490 JESSIE VALDEZ	J. VALDEZ REIMB EXP FOR PAYROLL CABINET	29.46	29.46
12/26/2019	103015	06643 WEIR TECHNICAL SERVICES	MANAGEMENT SERVICES - NOV. 2019	8,408.10	8,408.10
12/26/2019	103016	00957 WEST YOST & ASSOCIATES	16-R018 T.O. OC-13 11/9/19 TO 12/6/19	1,262.50	1,262.50
12/26/2019	12262019	00501 LAVWMA	LAVWMA FY2020 DEBT AND O&M	2,556,556.96	2,556,556.96
12/27/2019	1001470689	01111 CALPERS	2019 REPLACEMENT BENEFIT FUND CONTRIBUTI	253.80	253.80
01/02/2020	103017	01719 A & M PRINTING, INC.	POSTCARD PRINTING & MAILING - ASSISTANT/	7,865.14	7,865.14
01/02/2020	103018	07554 AIRGAS USA, LLC	FY20 BPO DIV/53: WELDING SUPPLIES	22.91	22.91
01/02/2020	103019	09003 AMERICAN METALS	STEEL SUPPLIES	524.84	524.84

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019

To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
01/02/2020	103020	06349 ARCSINE ENGINEERING	16-A005 T.O. 1 11/1/19 TO 11/30/19	3,083.30	3,083.30
01/02/2020	103021	08663 AWARDS NETWORK	RETIREMENT GIFT - D. LOPEZ	273.13	273.13
01/02/2020	103022	01085 CALPERS LONG-TERM CARE PR	LONG-TERM CARE: PAYMENT	68.12	68.12
01/02/2020	103023	00136 CDW GOVERNMENT INC.	CDW QUOTE LBQK310 - CISCO ASA WITH FIREP	3,532.24	3,532.24
01/02/2020	103024	02685 C/O NORCAL RENTAL GROUP CF	EXCAVATOR RENTAL FOR TO 2 REPAIR	5,291.33	5,291.33
01/02/2020	103025	01559 EATON CORPORATION	05-3206 POWERNET UPGRADE	58,873.19	58,873.19
01/02/2020	103026	05839 EUROFINS EATON ANALYTICAL I	SAMPLE ANALYSES	595.00	595.00
01/02/2020	103027	00314 FEDEX	OVERNIGHT MAIL OF NEW HIRE PACKET ON 11/	30.10	30.10
01/02/2020	103028	02914 STATE OF CALIFORNIA FRANCHI	FRANCHISE TAX BOARD: PAYMENT	150.00	150.00
01/02/2020	103029	07137 GOODYEAR COMMERCIAL TIRE	#117 TIRES	634.01	634.01
01/02/2020	103030	00368 HACH COMPANY	SUPPLIES FOR TURNOUT	2,250.22	2,250.22
01/02/2020	103031	03149 HDS WHITE CAP CONST SUPPLY	SUPPLIES FOR VILLAGE PKWY & AMADOR VALLE	2,387.88	
			TOOLS FOR ON-CALL TRUCK	2,301.91	
			TOOLS FOR ON-CALL TRUCK	653.85	
			RAIN GEAR FOR J. GENTRY & IMPACT SOCKETS	255.85	5,599.49
01/02/2020	103032	07652 HUNT & SONS, INC.	GAS & DIESEL 683 87 OCT 472 CLEAR DIESEL	3,250.04	3,250.04
01/02/2020	103033	07523 ID ARCHITECTURE	19-A005 T.O. OC-7 NOVEMBER DESIGN SERVIC	948.75	
			16-A005 T.O. 3 NOVEMBER DESIGN SERVICES	424.35	1,373.10
01/02/2020	103034	03958 LIVERMORE AUTO GROUP	#63 OPS	81.41	81.41
01/02/2020	103035	04231 MSC INDUSTRIAL SUPPLY CO	TOOLS - REPLACEMENT	468.93	468.93
01/02/2020	103036	07726 MUNICIPAL RESOURCE GROUP,	PROFESSIONAL SERVICES	1,776.56	1,776.56
01/02/2020	103037	00620 P G & E	DUBLIN LIFT STN (NEW LS1) ELECTRICITY -	219.30	219.30
01/02/2020	103038	08356 PACE SUPPLY	REPAIR SUPPLIES RESTOCK FOR FOD WAREHOUS	1,821.35	

Check History Description Listing

Dublin San Ramon Services District

From: 12/5/2019

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Date	Check #	Vendor	Description	Amount Paid	Check Total
			REPAIR SUPPLIES FOD SHOP RESTOCK	1,284.29	
			WATER SUPPLIES - FOF WAREHOUSE RESTOCK	501.46	3,607.10
01/02/2020	103039	04211 PLATT ELECTRIC SUPPLY	UPGRADE OUR FSL MIXER STARTERS TO SOFT S	6,537.01	6,537.01
01/02/2020	103040	04211 PLATT ELECTRIC SUPPLY	HOLOPHANE WALLPACK LIGHT FIXTURES	3,905.56	3,905.56
01/02/2020	103041	05543 PREFERRED BENEFIT INSURAN	DECEMBER 2019 - DENTAL	23,763.00	
			JANUARY 2020 - DENTAL	23,669.50	47,432.50
01/02/2020	103042	09023 QUENCH USA, INC.	WATER FILTRATION SERVICE FOR FOF, BLDG T	196.65	
			FOF WATER FILTRATION SERVICE - OCT 2019	65.55	
			DO WATER FILTRATION SERVICE - NOV 2019	65.55	327.75
01/02/2020	103043	04105 R & B COMPANY	SUPPLIES FOR VILLAGE PKWY & AMADOR VALLE	9,358.36	
			ITEMS FOR FOF WAREHOUSE STOCK	5,407.88	
			RESTOCK FOR FOF WAREHOUSE	1,365.63	
			RESTOCK FOR FOD WAREHOUSE	240.35	16,372.22
01/02/2020	103044	00058 READYREFRESH	LAWWMA BOTTLED WATER SERVICE - DEC 2019	8.73	8.73
01/02/2020	103045	04301 RESOURCE TRENDS, INC.	POLICY BRIEF AND DSRSDDTODAY FOLLOW-UP	350.00	350.00
01/02/2020	103046	00774 SIEMENS INDUSTRY, INC	WWTP BUILDING A SIEMENS CONTROLLER REPLA	389.47	389.47
01/02/2020	103047	08010 SLOAN SAKAI YEUNG & WONG L	LABOR RELATED LEGAL FEES (10/19)	390.08	390.08
01/02/2020	103048	06240 SWINERTON BUILDERS	19-A005 T.O. 1 11/1/19 - 11/30/19	34,240.00	34,240.00
01/02/2020	103049	06447 TYLER BUSINESS FORMS	2019 W-2S AND 1099 - MISC FORMS AND ENVE	345.68	
			2019 FORM 1095B & 1095C	73.24	418.92
01/02/2020	103050	01222 IRS UNITED STATES TREASURY	GARNISHMENT - IRS: PAYMENT	420.50	420.50
01/02/2020	103051	00556 UNITED WAY OF THE BAY AREA	UNITED WAY: PAYMENT	115.38	115.38
01/02/2020	103052	00933 VWR INTERNATIONAL, INC.	LABORATORY SUPPLIES AND CHEMICALS	143.07	
			LABORATORY SUPPLIES AND CHEMICALS	59.02	202.09

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Dublin San Ramon Services District

From: 12/5/2019

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Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
01/02/2020	103053	08423 WATERTALENT LLC	R. GAMBLE: WE 12/08/19	6,675.00	6,675.00
01/02/2020	103054	01013 BARRETT BUSINESS SERVICES	J. RUTHRUFF: W/E 12/8/19	1,419.60	
			P. MULLEN: WE 12/08/19	1,094.67	
			A. SMITH: W/E 12/8/19	997.50	
			S. MONTAGUE: W/E 12/08/19	858.00	
			K. BECK: W/E 12/8/19	638.40	
			M. ZAKLAN: WE 12/08/19	608.00	
			A. GEHMLICH: WE 12/08/19	486.40	
			N. POON: WE 12/8/19	460.80	
			T. AMARO: W/E 12/8/19	332.50	6,895.87
01/02/2020	103055	03614 CAROLLO ENGINEERS INC.	18-P002 TO OC-17 WWTP ELEC SYS STUDIES/D	11,193.75	11,193.75
01/02/2020	103056	07701 VIVIAN CHIU	V. CHIU REIMB EXP @ 2019 CITY CLEARKS NE	157.00	157.00
01/02/2020	103057	03985 NICOLE GENZALE	N. GENZALE REIMB EXP @ 2019 CITY CLEARKS	160.00	160.00
01/02/2020	103058	04424 GRAYBAR ELECTRIC COMPANY	BLDG A LED FIXTURE UPGRADE	589.80	589.80
01/02/2020	103059	00386 HDR ENGINEERING INC.	CONTRACT HDR FOR 2019 WATER CAPACITY RES	3,795.00	3,795.00
01/02/2020	103060	03853 ICMA	ICMA 457 DEFERRED COMPENSATION: PAYMENT	63,712.33	63,712.33
01/02/2020	103061	00473 KEMIRA WATER SOLUTIONS INC	FERROUS CHLORIDE 47660.00 LB DELV 12-11-	8,083.71	8,083.71
01/02/2020	103062	00762 TEST AMERICA LABORATORIES	SAMPLE ANALYSIS	150.00	150.00
01/02/2020	103063	05026 UNIVAR USA INC.	4498.60 GL SOD HYPO DELV 12-4-19	3,303.68	3,303.68
01/03/2020	311983040	00559 EDD - PAYROLL	CALIFORNIA STATE TAXES: PAYMENT	40.00	40.00
01/03/2020	385389178	00558 IRS - PAYROLL TAXES	FEDERAL WITHHOLDING TAXES: PAYMENT	257.30	257.30
01/06/2020	8185	05511 DISBURSEMENT UNIT CALIFORN	CHILD SUPPORT GARNISHMENT: PAYMENT	699.23	699.23
01/06/2020	1001475289	00494 PERS	RETIREMENT: PAYMENT	97,728.15	97,728.15
01/07/2020	24429232	00558 IRS - PAYROLL TAXES	FEDERAL WITHHOLDING TAXES: PAYMENT	171,163.02	171,163.02

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Dublin San Ramon Services District

From: 12/5/2019 To: 1/8/2020

Bank code: apbank

Date	Check #	Vendor	Description	Amount Paid	Check Total
01/07/2020	576503232	00559 EDD - PAYROLL	CALIFORNIA STATE TAXES: PAYMENT	34,595.89	34,595.89
315 checks in this report					Total Checks: 8,277,913.62

Dublin San Ramon Services District

Treasurer's Report - Portfolio Management Summary

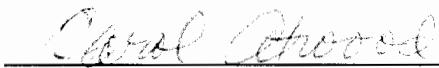
As of: December 31, 2019

Description	Face Amount	Market Value	Book Value	% of Portfolio	Permitted by Policy	In Compliance	YTM @ Cost
CAMP	35,169,736.64	35,169,736.64	35,169,736.64	17.79%	100%	Yes	1.800%
Certificate of Deposit	7,250,000.00	7,399,406.28	7,250,000.00	3.67%	30%	Yes	2.802%
Corporate Bonds	24,286,000.00	24,718,099.68	24,189,397.37	12.28%	30%	Yes	2.629%
Federal Agency Callables	76,500,000.00	76,301,354.30	76,500,000.00	38.69%	100%	Yes	1.787%
LAIF - Operating	33,214,817.45	33,214,817.45	33,214,817.45	16.80%	\$50 million	Yes	2.110%
Municipals	20,195,000.00	20,327,953.85	20,193,455.48	10.21%	100%	Yes	2.465%
Money Market Funds	1,086,379.58	1,086,379.58	1,086,379.58	0.5495%	20%	Yes	1.490%
Total Investments	\$ 197,701,933.67	\$ 198,217,747.78	\$ 197,603,786.52	100.00%			1.953%
Bank of America	10,014,228.58	10,014,228.58	10,014,228.58				
Total Cash & Investments	\$ 207,716,162.25	\$ 208,231,976.36	\$ 207,618,015.10				1.953%

I certify that this report reflects all Government Agency pooled investments and is in conformity with the Investment Policy of Dublin San Ramon Services District.

The investment program herein shown provides sufficient cash flow liquidity to meet the next four month's expenses.

Market values for investments other than CAMP and LAIF were provided by Wells Fargo Securities, LLC.



Carol Atwood, Treasurer



Date

For comparison - prior month summary as of:

11/30/2019

Description	Face Amount	Market Value	Book Value	% of Portfolio	Permitted by Policy	In Compliance	YTM @ Cost
CAMP	27,123,565.89	27,123,565.89	27,123,565.89	14.06%	100%	Yes	1.880%
Certificate of Deposit	7,500,000.00	7,660,173.04	7,500,000.00	3.89%	30%	Yes	2.798%
Corporate Bonds	24,286,000.00	24,715,291.72	24,189,397.37	12.59%	30%	Yes	2.629%
Federal Agency Callables	87,500,000.00	87,275,513.73	87,500,000.00	45.36%	100%	Yes	1.854%
LAIF - Operating	27,214,817.45	27,214,817.45	27,214,817.45	14.11%	\$50 million	Yes	2.150%
Municipals	18,195,000.00	18,362,671.20	18,193,455.48	9.43%	100%	Yes	2.489%
Money Market Funds	1,084,969.00	1,084,969.00	1,084,969.00	0.5624%	20%	Yes	1.590%
Total Investments	\$ 192,904,352.34	\$ 193,437,002.03	\$ 192,806,205.19	100.00%			2.026%
Bank of America	6,279,088.87	6,279,088.87	6,279,088.87				
Total Cash & Investments	\$ 199,183,441.21	\$ 199,716,090.90	\$ 199,085,294.06				2.026%

Dublin San Ramon Services District

Treasurer's Report - Portfolio Management Detail

As of 12/31/2019

Description	CUSIP/Ticker	Transaction ID	Settlement Date	Face Amount/Shares	Market Value	Book Value	Coupon Rate	YTM @ Cost	Next Call Date	Days To Call/Maturity	Days To Maturity	Maturity Date	Accrued Interest
Bank of America - Concentration													
Bank of America MM	MM0000		04/30/2017	10,014,228.58	10,014,228.58	10,014,228.58	0.000	0.000	N/A	1	1	N/A	
Sub Total / Average Bank of America - Concentration				10,014,228.58	10,014,228.58	10,014,228.58	0.000	0.000		1	1		0.00
CAMP													
CAMP LGIP	LGIP6300		06/30/2011	35,169,736.64	35,169,736.64	35,169,736.64	1.800	1.800	N/A	1	1	N/A	
Sub Total / Average CAMP				35,169,736.64	35,169,736.64	35,169,736.64	1.800	1.800		1	1		0.00
Certificate of Deposit													
ALLY BANK 2.75 6/15/2020	02007GDD2	57803	06/14/2018	250,000.00	251,254.19	250,000.00	2.750	2.750		167	167	06/15/2020	320.21
AMEX NATIONAL BANK 3 6/14/2021	02589AAJ1		06/12/2018	250,000.00	254,728.63	250,000.00	3.000	3.000		531	531	06/14/2021	390.41
BANK OF AMERICA 2.75 8/17/2020	06051VB70	3510	08/15/2018	250,000.00	251,719.01	250,000.00	2.750	2.750		230	230	08/17/2020	2,599.32
BANK OF BARODA 3.3 9/28/2023	06062R4E9	33681	09/28/2018	250,000.00	263,181.74	250,000.00	3.300	3.300		1,367	1,367	09/28/2023	2,124.66
BARCLAYS BANK 3.35 10/10/2023	06740KMG9	57203	10/10/2018	250,000.00	263,755.25	250,000.00	3.350	3.350		1,379	1,379	10/10/2023	1,881.51
BMW BANK 2.7 5/18/2020	05580AMU5	35141	05/18/2018	250,000.00	250,994.22	250,000.00	2.700	2.700		139	139	05/18/2020	795.21
CITIBANK 2.7 5/11/2020	17312QL56	7213	05/11/2018	250,000.00	250,943.80	250,000.00	2.700	2.700		132	132	05/11/2020	924.66
COMENITY CAPITAL BANK 3.25 8/14/2023	20033AD37	57570	08/13/2018	250,000.00	262,392.88	250,000.00	3.250	3.250		1,322	1,322	08/14/2023	400.68
Continental Bank 2.1 7/26/2021	211163GW4	57571	01/26/2018	250,000.00	251,584.78	250,000.00	2.100	2.100		573	573	07/26/2021	2,272.60
COUNTRY BANK FOR SAVINGS 2.7 1/31/2022	222297CB7	23992	01/31/2019	250,000.00	255,012.41	250,000.00	2.700	2.700		762	762	01/31/2022	0.00
DISCOVER BANK 2.7 5/18/2020	254673PN0	5649	05/16/2018	250,000.00	250,995.80	250,000.00	2.700	2.700		139	139	05/18/2020	832.19
ENERBANK USA 2.65 5/20/2024-19	29278THB9	57293	05/20/2019	250,000.00	250,130.09	250,000.00	2.650	2.650		1,602	1,602	05/20/2024	199.66
HSBC Bank USA NA 2.45 3/21/2022-19	40434YGK7	57890	03/21/2017	250,000.00	250,412.50	250,000.00	2.450	2.450	03/21/2020	81	811	03/21/2022	1,694.86
INDUS & COMM BANK 3.3 6/30/2023	45581EAX9	24387	08/30/2018	250,000.00	262,433.94	250,000.00	3.300	3.300		1,277	1,277	06/30/2023	22.60
IOWA STATE BANK 3.15 9/28/2023	46256YAY5	15947	09/28/2018	250,000.00	261,830.96	250,000.00	3.150	3.150		1,367	1,367	09/28/2023	2,028.08
Marlin Business Bank 2.2 1/19/2021	57116AQQ4	58267	01/18/2018	250,000.00	251,392.74	250,000.00	2.200	2.200		385	385	01/19/2021	2,501.37
MERRICK BANK 3.1 8/22/2022	59013J2N8	34519	08/21/2018	250,000.00	258,482.94	250,000.00	3.100	3.100		965	965	08/22/2022	212.33
Morgan Stanley Bank 2.5 1/18/2022	61747MG54	32992	01/18/2018	250,000.00	253,926.69	250,000.00	2.500	2.500		749	749	01/18/2022	2,842.47
MORGAN STANLEY BANK 2.75 6/15/2020	61760ALY3	34221	06/14/2018	250,000.00	251,254.19	250,000.00	2.750	2.750		167	167	06/15/2020	320.21
NBT BANK 2.6 2/1/2021	628779GC8	7230	01/30/2019	250,000.00	252,509.16	250,000.00	2.600	2.600		398	398	02/01/2021	2,742.47
NORTHWEST BANK 3.25 10/12/2023	66736ABN8	58752	10/12/2018	250,000.00	262,907.02	250,000.00	3.250	3.250		1,381	1,381	10/12/2023	422.95
Sallie Mae Bank/Salt Lake 2.35 3/22/2022	795450ZWB8	58177	03/22/2017	250,000.00	253,332.81	250,000.00	2.350	2.350		812	812	03/22/2022	1,609.59
STATE BANK OF INDIA NY 2.8 5/30/2024-19	856285QA2	33682	05/30/2019	250,000.00	250,475.26	250,000.00	2.800	2.800		1,612	1,612	05/30/2024	594.52
Synchrony Bank 2.25 2/3/2022	87165HQJ2	87165HQJ2	02/03/2017	250,000.00	252,703.04	250,000.00	2.250	2.250		765	765	02/03/2022	2,311.64
Third Federal Savings & Loan 2.5 1/31/2022	88413QBY3	30012	01/30/2018	250,000.00	253,972.74	250,000.00	2.500	2.500		762	762	01/31/2022	2,636.99
TOWNE BANK 2.7 5/26/2020	89214PBN8	35095	05/24/2018	250,000.00	251,053.22	250,000.00	2.700	2.700		147	147	05/26/2020	684.25
UBS BANK USA 2.8 6/15/2020	90348JCT5	57565	06/13/2018	250,000.00	251,301.80	250,000.00	2.800	2.800		167	167	06/15/2020	345.21
WELLS FARGO BANK 3.35 10/12/2023	949763UN4	3511	10/12/2018	250,000.00	261,992.99	250,000.00	3.350	3.350		1,381	1,381	10/12/2023	435.96
WEST TOWN BANK 3.25 9/28/2023	956310AH9	28151	09/28/2018	250,000.00	262,731.48	250,000.00	3.250	3.250		1,367	1,367	09/28/2023	2,092.47
Sub Total / Average Certificate of Deposit				7,250,000.00	7,399,406.28	7,250,000.00	2.802	2.802		763	788		36,239.08
Corporate Bonds													
APPLE INC 1.55 2/7/2020	037833AX8		06/01/2016	1,786,000.00	1,785,306.66	1,786,688.26	1.550	1.470		38	38	02/07/2020	10,919.41
BERKSHIRE HATHAWAY 3.75 8/15/2021	084670BC1		08/21/2019	3,000,000.00	3,097,915.38	3,000,000.00	3.750	1.750		593	593	08/15/2021	42,500.00
COSTCO COMPANIES 2.75 5/18/2024-20	22160KAL9		05/17/2019	3,500,000.00	3,624,028.35	3,500,000.00	2.750	2.527	05/17/2020	138	1,600	05/18/2024	11,496.53
EXXON MOBIL 2.726 3/1/2023-23	30231GAR3		05/14/2018	5,000,000.00	5,121,392.30	4,934,790.64	2.726	3.130	01/01/2023	1,097	1,156	03/01/2023	45,433.33
Johnson & Johnson 2.05 3/1/2023-23	478160BT02		11/09/2018	4,000,000.00	4,024,454.00	4,000,000.00	2.050	3.135	01/01/2023	1,097	1,156	03/01/2023	27,333.33
Johnson & Johnson 2.05 3/1/2023-23	478160BT0		03/16/2018	1,000,000.00	1,006,113.50	975,983.09	2.050	2.790	01/01/2023	1,097	1,156	03/01/2023	6,833.33
Microsoft 1.85 2/6/2020	594918BV5		03/16/2018	3,000,000.00	2,999,869.77	2,991,935.38	1.850	2.400		37	37	02/06/2020	22,354.17
TOYOTA MOTOR CREDIT CORP 2.625 1/10/2023-22	89233P7F7		02/14/2019	3,000,000.00	3,059,019.72	3,000,000.00	2.625	2.985	11/15/2022	1,050	1,106	01/10/2023	37,406.25
Sub Total / Average Corporate Bonds				24,286,000.00	24,718,099.68	24,189,397.37	2.510	2.629		682	924		204,276.35

Federal Agency												
FFCB 1.35 9/21/2020-17	3133EGVK8		09/21/2016	5,000,000.00	4,993,288.55	5,000,000.00	1.350	1.350		265	265	09/21/2020 18,750.00
FFCB 1.77 12/7/2020-17	3133EGR49		12/07/2016	4,500,000.00	4,498,543.49	4,500,000.00	1.770	1.770		342	342	12/07/2020 5,310.00
FFCB 2.4 6/19/2023-20	3133EKRJ7		06/19/2019	2,000,000.00	2,002,692.76	2,000,000.00	2.400	2.400	06/19/2020	171	1,266	06/19/2023 1,600.00
FFCB 3 3/25/2025	3133EKEH5		03/25/2019	5,000,000.00	5,008,218.15	5,000,000.00	3.000	3.000		1,911	1,911	03/25/2025 40,000.00
FHLB 1.4 5/18/2020-16	3130A7ZT5		05/18/2016	5,000,000.00	4,995,035.20	5,000,000.00	1.400	1.400		139	139	05/18/2020 8,361.11
FHLB 1.57 11/16/2021-18	3130AA2A5		11/16/2016	5,000,000.00	4,982,251.75	5,000,000.00	1.570	1.570		686	686	11/16/2021 9,812.50
FHLB 2 8/21/2024-20	3130AGWU5		08/21/2019	5,000,000.00	4,948,091.35	5,000,000.00	2.000	2.000	08/21/2020	234	1,695	08/21/2024 36,111.11
FHLB 2.12 10/16/2024-20	3130AHA37		10/16/2019	5,000,000.00	4,919,472.35	5,000,000.00	2.120	2.120	04/16/2020	107	1,751	10/16/2024 22,083.33
FHLMC 1.4 7/27/2020-17	3134GATN4		10/27/2016	5,000,000.00	4,996,331.75	5,000,000.00	1.400	1.400	01/27/2020	27	209	07/27/2020 29,944.44
FHLMC 1.5 11/10/2020-17	3134GATD6		11/10/2016	5,000,000.00	4,994,129.90	5,000,000.00	1.500	1.500	02/10/2020	41	315	11/10/2020 10,625.00
FHLMC 1.5 8/26/2020-16	3134G9KA4		05/26/2016	5,000,000.00	4,990,885.65	5,000,000.00	1.500	1.500	02/26/2020	57	239	08/26/2020 26,041.67
FHLMC 2 11/26/2024-20	3134GUWG1		11/26/2019	5,000,000.00	5,000,473.55	5,000,000.00	2.000	2.000	05/26/2020	147	1,792	11/26/2024 9,722.22
FNMA 1.25 8/28/2020-17	3136G3Y58		08/30/2016	5,000,000.00	4,998,053.65	5,000,000.00	1.250	1.250		241	241	08/28/2020 21,354.17
FNMA 1.35 6/30/2020-17	3136G3SS5		06/30/2016	5,000,000.00	4,991,161.95	5,000,000.00	1.350	1.350		182	182	06/30/2020 0.00
FNMA 1.65 4/28/2021-16	3135G0J87		04/28/2016	5,000,000.00	4,988,083.75	5,000,000.00	1.650	1.650	01/28/2020	28	484	04/28/2021 14,437.50
FNMA 2.7 2/14/2022-20	3136G4TU7		02/14/2019	5,000,000.00	5,004,640.50	5,000,000.00	2.700	2.700	02/14/2020	45	776	02/14/2022 51,375.00
Sub Total / Average Federal Agency				76,500,000.00	76,301,354.30	76,500,000.00	1.787	1.787		293	752	305,528.05
LAIF - Operating												
LAIF LGIP	LGIP1001		06/30/2011	33,214,817.45	33,214,817.45	33,214,817.45	2.110	2.110	N/A	1	1	N/A
Sub Total / Average LAIF - Operating				33,214,817.45	33,214,817.45	33,214,817.45	2.110	2.110		1	1	0.00
Money Market Fund												
Fidelity Treas Only Inst MM	31607A802		10/31/2018	1,086,379.58	1,086,379.58	1,086,379.58	1.490	1.490	N/A	1	1	N/A
Sub Total / Average Money Market Fund				1,086,379.58	1,086,379.58	1,086,379.58	1.490	1.490		1	1	0.00
Municipals												
CA DWR Power Supply 2 5/1/2022	13066YTZ		08/17/2018	2,000,000.00	2,010,900.00	2,000,000.00	2.000	2.750		852	852	05/01/2022 6,666.67
CA DWR Power Supply 2 5/1/2022	13066YTZ2		07/23/2018	3,130,000.00	3,147,058.50	3,130,000.00	2.000	2.800		852	852	05/01/2022 10,433.33
City of Los Angeles 3.11 9/1/2023	544351MP1		07/16/2018	2,000,000.00	2,065,220.00	2,000,000.00	3.110	3.115		1,340	1,340	09/01/2023 20,733.33
ORANGE UNIFIED SD 2.35 5/1/2026	684133LE9		12/19/2019	2,000,000.00	1,988,460.00	2,000,000.00	2.350	2.240		2,313	2,313	05/01/2026 1,566.67
State of CA 1.8 4/1/2020	13063CSQ4		04/29/2015	2,000,000.00	2,000,540.00	2,000,858.54	1.800	1.710		92	92	04/01/2020 9,000.00
State of CA 2.5 10/1/2022	13063DDF2		01/11/2018	3,000,000.00	3,055,650.00	2,997,596.94	2.500	2.528		1,005	1,005	10/01/2022 18,750.00
State of Ohio 2.15 5/1/2026	677522T61		11/20/2019	5,000,000.00	4,979,800.00	5,000,000.00	2.150	2.220		2,313	2,313	05/01/2026 12,243.00
TEXAS STATE GO REF BONDS 2.589 10/1/2021	882723PP8		01/08/2019	1,065,000.00	1,080,325.35	1,065,000.00	2.589	2.530		640	640	10/01/2021 6,893.21
Sub Total / Average Municipals				20,195,000.00	20,327,953.85	20,193,455.48	2.267	2.465		1,343	1,343	86,286.27
Total / Average				207,716,162.25	208,231,976.36	207,618,051.10	1.920	1.953		345	543	632,329.75

MARKET VALUES

TRACKER	
MMF	1,086,379.58
CD	7,399,406.28
CORP BOND	24,718,099.68
FEDERAL AGENCIES	76,301,354.30
MUNICIPALS	20,327,953.85
Total Tracker	129,833,193.69
WFB Securities	128,746,814.11
WFB MMF	1,086,379.58
Variance	0.00

FACE VALUES		
TRACKER	BANK	VARIANCE
BofA-Cash Worksheet	10,014,228.58	10,014,228.58
LAIF	33,214,817.45	33,214,817.45
CAMP	35,169,736.64	35,169,736.64
All other (WFB)	129,317,379.58	129,317,379.58
Total	207,716,162.25	207,716,162.25
	0.00	0.00

Agency Bonds Face Value		
FFCB	16,500,000.00	22%
FHLB	20,000,000.00	26%
FHLMC	20,000,000.00	26%
FNMA	20,000,000.00	26%
Total	76,500,000.00	100%



TITLE: Approve AT Dublin Project Supplemental Water Supply Assessment

RECOMMENDATION:

Staff recommends the Board of Directors approve, by Resolution, the AT Dublin Project Supplemental Water Supply Assessment.

SUMMARY:

The AT Dublin development project (Project) is located on 76.1 acres east of Tassajara Road between Interstate 580 and Gleason Drive. In accordance with the 2001 Senate Bills 610 and 221, a project-specific water supply assessment and written verification of sufficient water supply is required for the Project. As the water supplier for the Project, DSRSD is required to prepare the assessment and verification.

In February 2018, the Water Supply Assessment (WSA) for the Project was completed with the assistance of West Yost Associates (West Yost). The Project was proposed to consist of up to 670 residential units and up to 415,000 square feet of commercial development, including up to 240 hotel rooms. West Yost evaluated the water supply needed for the Project under two water supply scenarios: 1) indoor use for the Project would be met by potable water supply and outdoor use would be met by recycled water supply, and 2) both indoor and outdoor water uses would be met by potable water supply. The WSA was adopted by the DSRSD Board of Directors on February 20, 2018 (Resolution No. 12-18).

Since then, SCS Development Company (SCS), the developer for the Project, has updated the proposed land use plan. In general, the updated land use plan includes fewer residential dwelling units at a lower density, in addition to fewer square feet of commercial development and a smaller hotel.

The new land use plan consists of up to 566 residential units (240 multi-family units in Planning Area (PA) 1, 196 medium-density residential units in PA 2, and 130 low-density residential units in PA 3 and PA 4). It also includes up to 245,000 square feet of commercial development, including 45,000 square feet of medical office use, and up to 155 hotel rooms. The Project's updated land use plan is included as Attachment 1.

West Yost has completed a technical memorandum as a supplement to the adopted 2018 WSA to reflect the updated land use. The memorandum indicates that the change in land use will result in a decrease in indoor water use from 229 to 210 acre-feet annually and outdoor water use from 28 to 23 acre-feet annually. The memorandum also indicates that DSRSD will be able to meet both indoor and outdoor water demands with potable water if recycled water supplies are unavailable, verifying that water supply is sufficient for the Project.

Upon Board approval, the supplemental technical memorandum to the WSA will be delivered to the City of Dublin and Shea Properties Management Company Inc. to support the California Environmental Quality Act study associated with the Project.

Originating Department: Engineering Services	Contact: I. Suroso	Legal Review: Not Required
Cost: \$0	Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input checked="" type="checkbox"/> Other (see list on right)	Attachment 1 – Updated Land Use Plan	



N SHEET L1

APRIL 22, 2019

LANDSCAPE MASTER PLAN

Shea Properties

AT DUBLIN

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING THE SUPPLEMENTAL WATER SUPPLY ASSESSMENT FOR THE AT DUBLIN PROJECT

WHEREAS, Shea Properties Management Company, Inc. (Shea) is the managing partner of a joint venture with SCS Development Company, Award Homes, Inc., and SCS Dublin Realty LLC, for the development of the AT Dublin Project (Project) in Dublin; and

WHEREAS, Shea has submitted an updated land use plan with the City of Dublin (City); and

WHEREAS, under the 2001 Senate Bill 610 (SB 610), development projects consisting of residential projects with greater than 500 units and commercial projects employing more than 1,000 persons or having greater than 250,000 square feet require a project-specific Water Supply Assessment (WSA) prior to project approval; and

WHEREAS, under the 2001 Senate Bill 221 (SB 221), development projects consisting of subdivisions of more than 500 dwelling units require written verification of sufficient water supply prior to project approval; and

WHEREAS, as the water supplier for the Project, the District is required to verify the water supply is sufficient for the updated land use plan; and

WHEREAS, on February 20, 2018, the DSRSD Board of Directors adopted the WSA for the Project; and

WHEREAS, Shea has revised the proposed Project land use since the adoption of the WSA; and

WHEREAS, the proposed Project is revised land use consists of up to 566 residential units and 245,000 square feet of commercial space, requiring an SB 610 water supply assessment and an SB 221 verification of sufficient water supply; and

WHEREAS, the supplement to the WSA for the Project is revised land use finds that the District has available water supply and verifies that water supply is sufficient for the AT Dublin Project.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

The AT Dublin Project Supplemental Water Supply Assessment, attached hereto and incorporated herein as Exhibit "A", is hereby approved, and the General Manager is hereby authorized to submit the AT Dublin Project Water Supply Assessment Supplemental to the City of Dublin and Shea Properties Management Company, Inc.

Res. No. _____

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary

TECHNICAL MEMORANDUM

DATE: January 13, 2020

Project No.: 406-60-19-69
SENT VIA: EMAIL

TO: Irene Suroso, Associate Engineer
Dublin San Ramon Services District

FROM: Rhodora N. Biagtan, PE, RCE #59371
Kambria Tiano, PE, RCE# 84129

REVIEWED BY: Elizabeth Drayer, PE, RCE# 46872 *ED*

SUBJECT: Supplemental Water Supply Assessment and Water and Sewer System Capacity Analysis for the Updated Proposed AT Dublin Development Project



This Technical Memorandum (TM) has been prepared by West Yost Associates (West Yost) for Dublin San Ramon Services District (DSRSD) to review the potable water, recycled water, and wastewater service demands for the updated, proposed AT Dublin Development Project (Proposed Project) and confirm that the findings of the February 2018 *DSRSD: AT Dublin Project Water Supply Assessment* (2018 WSA) and the June 2018 *Proposed AT Dublin Development Project Water and Sewer System Capacity Analysis* (2018 Capacity Analysis) remain valid.

PROJECT BACKGROUND

The Proposed Project consists of approximately 77 acres of new development in the City of Dublin (City). The Proposed Project is bounded by Tassajara Road to the west, Brannigan Street to the east, Interstate 580 (I-580) to the south, and a sliver to the north of Gleason Drive. The area currently consists entirely of vacant, developable parcels.

In 2018, West Yost prepared a Water Supply Assessment (WSA) and Water and Sewer Capacity Analysis for the Proposed Project as proposed in the January 2018 Proposed AT Dublin Land Use Plan. At that time, the Proposed Project consisted of up to 670 residential units and up to 415,000 square feet of commercial development, including up to 240 hotel rooms. The WSA was completed in February 2018 and adopted by the DSRSD Board of Directors on February 20, 2018 (Resolution No. 12-18). The Water and Sewer Capacity Analysis was completed in June 2018.

Since then, SCS Development Company (SCS), the developer for the Proposed Project, has updated the proposed land use plan. In general, the updated land use plan includes fewer residential dwelling units at a lower density, in addition to fewer square feet of commercial development and a smaller hotel. Additionally, DSRSD/EBMUD Recycled Water Authority (DERWA), DSRSD's wholesale recycled water supply provider, adopted Resolution No. 19-3 on March 25, 2019 to reduce overall recycled water demand and adjust allocations for its member agencies. DSRSD may require that the AT Dublin Project use potable water for all of its water service demands.

PROPOSED LAND USE PLAN

The updated Proposed Project, as proposed in October 2019, is a mixed-use area in the center of Dublin with general commercial, medical office, and some lower-density residential land uses, as shown on Figure 1. As shown, the Proposed Project is divided into four planning areas. The updated proposal consists of up to 566 residential units (240 multi-family units in Planning Area (PA) 1, 196 medium density residential units in PA 2, and 130 low-density residential units in PA 3 and PA 4). It also includes up to 245,000 square feet of commercial development, including 45,000 square feet of medical office use, and up to 155 hotel rooms.

Figure 1. AT Dublin Updated Proposed Land Use Plan



Source: Shea Properties, dated April 22, 2019

The land use summary for the updated Proposed Project is presented in Table 1.¹

Table 1. Updated Land Use Summary for Proposed Project^(a)

Land Use Designation	Gross Acreage ^(b)	Permitted Density	Proposed Density	Total Development Potential ^(c)
Mixed Use	23.7	0.3 to 1.0 FAR	0.45 FAR	245,000 square feet, including up to 155 hotel rooms, plus 240 dwelling units
Medium Density Residential	29.4	6.1 to 14.0 du/acre	6.7 du/ac	196 dwelling units, including 2 acres of open space
Low Density Residential	23.8	0.9 to 6.0 du/acre	5.46 du/ac	130 dwelling units, including 0.5 acres of open space
Total	76.9	-	-	-

(a) Based on the "Land Use Summary Table - Alternative Plan with Age Restricted in PA 2 & Medical Office Building in PA 1", dated October 22, 2019.
(b) Gross Acreage is the Net Site Area plus 25 feet of the area of the abutting streets.
(c) Unit counts and commercial square footage are based on the Stage 1 & 2 Development Plans.

¹ Land Use Summary Table-Alternative Plan with Age Restricted in PA 2 & Medical Office Building in PA 1, SCS Development Company, October 22, 2019.

Technical Memorandum

January 13, 2020

Page 3

Compared to the January 2018 Proposed Project, the updated proposed land use reflects reductions in commercial land use (170,000 less square feet), hotel rooms (85 less hotel rooms), and high-density apartment units (50 less dwelling units). The medium density residential (MDR) was increased by 16 units. The 200 units of proposed medium-high residential were eliminated and 130 units of low-density single-family residential (SFR) were added.

DSRSD's 2015 Urban Water Management Plan (UWMP) accounted for future commercial and residential development within the Proposed Project area using the City's General Plan land use. The assumptions used in DSRSD's 2015 UWMP and the City's General Plan differ from both the previous and the updated proposed land use as shown in Table 2.

Table 2. Comparison of Current and Previous Land Use Assumptions for Proposed Project Area

Land Use Category	Currently Proposed Land Use ^(a) (based on the AT Dublin Land Use Plan dated October 22, 2019)	Previously Proposed Land Use ^(b) (based on the AT Dublin Land Use Plan dated January 17, 2018)	Previously Assumed Land Use ^(c) (as included in the DSRSD 2015 UWMP)
Residential	Residential (up to 566 Dwelling Units) <ul style="list-style-type: none"> Low Density Residential: 130 dus Medium Density Residential: 196 dus High Density Residential: 240 dus 	Residential (up to 670 Dwelling Units) <ul style="list-style-type: none"> Medium Density Residential: 180 dus Medium High Density Residential: 200 dus High Density Residential: 290 dus 	Residential (up to 375 Dwelling Units) <ul style="list-style-type: none"> Medium Density Residential: 16 dus Medium High Density Residential: 170 dus High Density Residential: 189 dus
Commercial	Mixed Use (23.7 acres) (245,000 sf) <ul style="list-style-type: none"> General Commercial: 125,000 sf Medical Office Building: 45,000 sf Hotel: 155 rooms, 75,000 sf 	Mixed Use (39.2 acres) (415,000 sf) <ul style="list-style-type: none"> General Commercial: 186,500 sf Mixed Use – Commercial: 78,500 sf Hotel: 240 rooms; 150,000 sf 	Commercial (54.2 acres) (590,000 sf) <ul style="list-style-type: none"> Retail: 590,000 sf
Public/Semi-Public	-	-	Public/Semi-Public (0.9 acres) <ul style="list-style-type: none"> Public: 9,800 sf
Open Space	Open Space (2.5 acres) <ul style="list-style-type: none"> Neighborhood Park: 2.5 acres 	-	-

(a) Based on the "Land Use Summary Table - Alternative Plan with Age Restricted in PA 2 & Medical Office Building in PA 1", dated October 22, 2019.
 (b) From Table 2-2 of 2018 WSA; based on the AT Dublin Land Use Plan – Proposed (sheet A0.3) dated January 17, 2018.
 (c) From Table 2-2 of 2018 WSA; based on 2016 DSRSD Water System Master Plan.

VALIDATION OF 2018 WATER SUPPLY ASSESSMENT

The 2018 WSA verified that DSRSD's water supplies are sufficient to meet projected demands associated with the January 2018 Proposed Project, in addition to DSRSD's existing and planned future uses, including, but not limited to, industrial uses. Using the same assumptions and standard unit water use factors, a reanalysis was conducted using the land uses in the updated Proposed Project. Should the projected water demands of the updated Proposed Project be less than or substantially equivalent to the projected demands of the January 2018 Proposed Project, the findings of the 2018 WSA remain valid.

2018 WSA Water Demand Projections

The January 2018 Proposed Project had a total projected potable water demand of 229 acre-feet annually (AFA) and recycled water demand of 28 AFA.² The water use factors used to develop the projected demands are consistent with DSRSD's 2016 Water System Master Plan (WSMP), in which standard unit water use factors were developed for use in projecting potable and recycled water demands based on the proposed land use, the number of dwelling units or square footage, and whether recycled water is proposed for exterior water uses. Projected water demands were calculated assuming that all interior water demands will be met with potable water supplies. Exterior water demands for homeowner-maintained landscaping were also assumed to be met with potable water. Exterior landscape irrigation water demand for open space, parks, mixed-use and non-residential land uses, which are commonly maintained by property management, the City, or homeowner associations (HOAs), were assumed to be met with recycled water supplies from DSRSD if available. The 2018 WSA noted that DSRSD has sufficient water supply to provide potable water to meet both interior and exterior water demands should recycled water supplies be unavailable.

Current Updated Water Demand Projections

The projected potable and recycled water demands for the October 2019 Proposed Project are presented in Table 3. The updated Proposed Project presents a total projected potable water demand of 210 AFA and recycled water demand of 23 AFA, a decrease in potable water demand of 19 AFA and a decrease in recycled water demand of 6 AFA. The reduction of higher density residential units with lower water use factors, and the inclusion of low-density single-family residential use with greater interior water use factors, resulted in a slight decrease in potable water demand. The decrease in irrigable areas in the commercial portion of the property and the inclusion of single-family homes, which would not use recycled water for landscape irrigation, have resulted in a slight decrease in overall recycled water demand despite the addition of open space and parks.

Table 4 shows the 2015 UWMP potable and recycled water demand projections for the area compared to the projected water demands of the Proposed Project, as proposed in January 2018 and as updated in October 2019. As shown, the Proposed Project, as updated in October 2019, presents a lower increase in potable water demand and recycled water demand. The 2018 WSA findings indicate that DSRSD has sufficient water supply to provide potable water to meet both interior and exterior water demands should recycled water supplies be unavailable. Because of the decrease in overall water demands, the 2018 WSA findings remain valid.

² Table 2-5, 2018 WSA.

Table 3. Potable and Recycled Water Demands for the Proposed Project

Development	Land Use Data					Potable Water Demand					Recycled Water Demand							
	Land Use Designation	Area, acres	Quantity	Units	Interior Water Use Factor	Units	Exterior Water Use Factor, gpd/acre	Potable Water Demand, mgd	Potable Water Demand, AFA	Residential Density, DU/acre	Area, acres	Percent of Irrigable, %	Percent of Irrigation with Recycled Water, %	Unit Demand, inches/yr	Normal Irrigation Demand, AFA	Plant Type Factor	Recycled Water Demand, mgd	Recycled Water Demand, AFA
AT Dublin Project	Residential - Low Density	23.3	130	du	350	gpd/du		0.048	54.2	0.9-6.0	23.3	30%	0%	48	0.0	0.9	0.000	0.0
	Residential - Medium Density	27.4	196	du	255	gpd/du		0.053	59.6	6.1-14.0	27.4	15%	30%	48	4.9	0.9	0.004	4.4
	Residential - High Density (part of Mixed Use)	23.7	240	du	135	gpd/du		0.034	38.6		23.7	15%	100%	48	14.2	0.9	0.011	12.8
	Commercial - Retail (part of Mixed Use)		245,000	ft ²	0.17	gpd/ft ²	267.8	0.051	57.2									
	Open Space - Neighborhood Park	2.5	2.5	acre	125	gpd/acre		0.000	0.4		2.5	80%	75%	48	6.0	1.0	0.005	6.0
TOTAL		77	566	DU	-	-	-	0.19	210	-	77	-	-	-	-	0	0.02	23
Notes:		<p>Land uses, areas and quantities per AT Dublin "Land Use Summary Table - Alternative Plan with Age Restricted in PA2 & Medical Office Building in PA1", dated 10/22/2019.</p> <p>The Residential land use areas do not include the area designated for Open Space.</p> <p>The Commercial - Retail land use includes 75,000 square feet of hotel (155 rooms).</p> <p>Potable water use based on DSRSD unit water demand factors (2016 DSRSD Water System Master Plan).</p> <p>The Commercial - Retail interior water use factor is higher than the 0.14 gpd/ft² provided for in the 2016 DSRSD Water System Master Plan, as it accounts for a hotel water use factor of 115 gpd/room (based on historical hotel water use data within the DSRSD water service area).</p> <p>Potable water demand includes unaccounted-for water, assuming 6% potable water loss (per the 2016 DSRSD Water System Master Plan).</p> <p>Recycled water use assumed for irrigation for all proposed land uses.</p> <p>Recycled water factors (% irrigable and % irrigated with recycled water) based on 2016 Water System Master Plan. Unit irrigation demand assumed to be 48 inches per year.</p>																

Table 4. Summary of Projected Potable and Recycled Water Demands for the Proposed Project

Source Document	Land Use Assumptions	Potable Water Demand (Difference from 2015 UWMP)	Recycled Water Demand (Difference from 2015 UWMP)
DSRSD 2015 UWMP ^(a)	Based on the City of Dublin General Plan Land Use Map (updated August 26, 2014)	185 AFA	7 AFA
AT Dublin Stage 1 Development Plan	Proposed Land Use Plan (dated January 17, 2018) (see Table 2-1 in 2018 WSA)	229 AFA	28 AFA
		(+ 44 AFA)	(+ 21 AFA)
AT Dublin Revised Development Plan	Revised Land Use Plan (dated October 22, 2019) (see Table 1)	210 AFA	23 AFA
		(+ 25 AFA)	(+ 16 AFA)

(a) The projected demands in DSRSD's 2015 UWMP are based on land use projections as documented in DSRSD's 2016 Water System Master Plan.

Findings

The 2018 WSA findings show that DSRSD's water supplies are sufficient to meet demands associated with existing DSRSD demands and projected water demands for the AT Dublin project area as proposed in January 2018. The updated Proposed Project presents a slight decrease in the overall projected water demands and the demands are within the range of the analysis. Thus, the 2018 WSA findings remain valid. DSRSD has sufficient water supply to provide potable water to meet both interior and exterior water demands should recycled water supplies be unavailable.

WATER AND SEWER CAPACITY ANALYSIS UPDATE

The 2018 Capacity Analysis evaluated the potable water, recycled water, and wastewater infrastructure needed to provide services for the Proposed Project using the land uses proposed in January 2018. The analysis provided recommendations regarding improvements and expansion of the potable water, recycled water, and wastewater infrastructure given existing service demands and projected services to the Proposed Project.

The potable water and recycled water demands, and wastewater flows for the revised proposed project are summarized in Table 5. Recommended changes to potable and recycled water facilities and wastewater collection system are discussed below.

Table 5. Potable and Recycled Water Demands and Wastewater Flows for the Proposed Project

Development	Land Use Data				Potable Water Demand				Recycled Water Demand								Wastewater Flow							
	Land Use Designation	Area, acres	Quantity	Units	Interior Water Use Factor	Units	Exterior Water Use Factor, gpd/acre	Potable Water Demand, mgd	Potable Water Demand, AFA	Residential Density, DU/acre	Area, acres	Percent of Irrigable, %	Percent of Irrigation with Recycled Water, %	Unit Demand, inches/yr	Normal Irrigation Demand, AFA	Plant Type Factor	Recycled Water Demand, mgd	Recycled Water Demand, AFA	BWF Factor, gpd/unit	BWF, mgd	GWI Factor, gpd/Acres	GWI, mgd	ADWF, mgd	
AT Dublin Project	Residential - Low Density	23.3	130	du	350	gpd/du		0.048	54.2	0.9-6.0	23.3	30%	0%	48	0.0	0.9	0.000	0.0	210	0.027	172,456	0.005	0.032	
	Residential - Medium Density	27.4	196	du	255	gpd/du		0.053	59.6	6.1-14.0	27.4	15%	30%	48	4.9	0.9	0.004	4.4	180	0.035	172	0.005	0.040	
	Residential - High Density (part of Mixed Use)	23.7	240	du	135	gpd/du		0.034	38.6		23.7	15%	100%	48	14.2	0.9	0.011	12.8	130	0.031	172	0.004	0.072	
	Commercial - Retail (part of Mixed Use)		245,000	ft ²	0.17	gpd/ft ²	267.8	0.051	57.2										0.15	0.037	172			
	Open Space - Neighborhood Park	2.5	2.5	acre	125	gpd/acre		0.000	0.4		2.5	80%	75%	48	6.0	1.0	0.005	6.0	0.00	0.000	172	0.000	0.000	
		TOTAL	77	566	DU	-	-	0.19	210	-	77	-	-	-	-	-	0.021	if	-	0.13	-	0.01	0.14	
<p>Notes:</p> <p>Land uses, areas and quantities per AT Dublin "Land Use Summary Table - Alternative Plan with Age Restricted in PA2 & Medical Office Building in PA1", dated 10/22/2019.</p> <p>The Residential land use areas do not include the area designated for Open Space.</p> <p>The Commercial - Retail land use includes 75,000 square feet of hotel (155 rooms).</p> <p>Potable water use based on DSRSD unit water demand factors (2016 DSRSD Water System Master Plan).</p> <p>The Commercial - Retail interior water use factor is higher than the 0.14 gpd/ft² provided for in the 2016 DSRSD Water System Master Plan, as it accounts for a hotel water use factor of 115 gpd/room (based on historical hotel water use data within the DSRSD water service area).</p> <p>Potable water demand includes unaccounted-for water, assuming 6% potable water loss (per the 2016 DSRSD Water System Master Plan).</p> <p>Recycled water use assumed for irrigation for all proposed land uses.</p> <p>Recycled water factors (% irrigable and % irrigated with recycled water) based on 2016 Water System Master Plan. Unit irrigation demand assumed to be 48 inches per year.</p> <p>BWF Factors and GWI Factors can be found in Chapter 3 of 2019 DSRSD Collection System Master Plan</p> <p>Residential - Low Density land use has 15 units within basin that has GWI Factor of 456 gpd/acre, and remaining units within basin that has factor of 172 gpd/acre.</p>																								

Potable Water System

The District's 2016 WSMP system planning and design criteria was used to evaluate the proposed potable water infrastructure for the Proposed Project in the 2018 Capacity Analysis. Although recycled water is proposed for common area landscape irrigation, the potable water system was evaluated assuming that all interior and exterior water demands for the Proposed Project are met with potable water in the event that recycled water supply is insufficient at the time of connection. The total average water demand for the January 2018 Proposed Project was projected to be 257 AFA, or 220,000 gallons per day (gpd). The Proposed Project had a required fire flow of 2,500 gallons per minute (gpm) for two hours to serve lots designated for commercial and multi-family residential, and 1,000 gpm for two hours to serve lots designated for single-family residential.

The 2018 Capacity Analysis found that the infrastructure improvements for potable water storage and pumping recommended in the 2016 WSMP are sufficient to meet existing and January 2018 projected water demands for the project. The potable water distribution pipelines were sized to meet fire flows at adequate pressures while not exceeding DSRSD's maximum pipeline velocity requirements.

The total average water demand for the updated Proposed Project is projected to be 0.21 million gallons per day (mgd), which is slightly less than the 0.23 mgd January 2018 projections. The proposed land uses presented no changes in required fire flow and a slight decrease in overall indoor and outdoor water demands. The updated Proposed Project does not present significant changes in demand to affect recommended potable water storage and pumping facilities in the 2016 WSMP. However, the changes in land use in a portion of the project requires changes in the pipeline distribution system. The Proposed Project's engineer will need to modify the pipeline alignment of the potable water distribution system to be within the City-approved street alignments and provide services to each building. The pipeline sizes are predominantly set by fire flow requirements. The pipelines within the residential areas in PA 2, PA 3, and PA 4 are recommended to be 8 inches in diameter. The pipelines within the commercial/mixed-use portion of the proposed project, PA 1, are recommended to be 10 inches in diameter. These recommended pipe sizes are adequate to serve both indoor and outdoor demands.

Recycled Water System

Exterior landscape irrigation water demand for mixed-use and non-residential land uses, which are commonly maintained by property management, the City, or HOAs, were assumed to be met with recycled water supplies from DSRSD, if available. The District's 2016 WSMP system planning and design criteria was used to evaluate the proposed recycled water infrastructure for the Proposed Project in the 2018 Capacity Analysis. The total average recycled water demand for the January 2018 Proposed Project was projected to be 28 AFA, or 25,000 gpd.

The 2018 Capacity Analysis found that the existing storage and pumping facilities are sufficient to meet existing and January 2018 projected recycled water demands for the project. The recycled water distribution system was sized to meet the peak hour demand scenario based on a 10-hour irrigation schedule. The 2018 Capacity Analysis recommended that recycled water pipelines should be 4 inches in diameter and follow the existing potable water pipeline alignments.

The projected total average water demand for the updated Proposed Project is 23 AFA, or 21,000 gpd, which is slightly less than the January 2018 projections. The updated Proposed Project included additional open space and parks that would be irrigated with recycled water. However, the recycled water irrigable area was reduced due to a decrease in higher density residential with common area landscaping and non-residential land uses. The updated Proposed Project does not present significant changes in demand to affect existing recycled water storage and pumping facilities. The Proposed Project's engineer will need to modify the pipeline alignment of the recycled water distribution system to be within the City-approved street alignments and to extend recycled water to points of connection to serve common area landscaping, open space, streetscapes and parks. The pipeline size is predominantly set by peak hour recycled water demands. The slight decrease in recycled water demand does not modify the recommended recycled water pipeline distribution system size, as DSRSD's minimum recycled water pipeline size is 4-inch diameter.

Sanitary Sewer System

DSRSD was preparing its 2019 Collection System Master Plan (CSMP) while the 2018 Service Capacity Analysis was conducted. The design and planning criteria used in the analysis is consistent with the 2019 CSMP. The primary criteria in sizing gravity wastewater collection mains are:

- Maintain less than 1.0 for the ratio of the maximum flow in the pipe (q) and the full pipe capacity (Q) during peak flow conditions; and
- Maintain velocities greater than 2.0 feet per second (fps) when flowing half full to ensure adequate flushing of solids, with a maximum velocity of 8 to 10 fps.

Using the above criteria, the 2018 Service Capacity Analysis recommends the collection system throughout the Proposed Project to be 8-inch diameter.

The updated Proposed Project presents 0.14 mgd of average dry weather flow (ADWF) in the wastewater collection system. This represents a slight decrease of 0.02 mgd compared with the January 2018 Proposed Project.

Changes in the land use in the updated Proposed Project will require changes in the pipeline alignment of the wastewater collection system. The Proposed Project's engineer will need to modify the pipeline alignment of the wastewater collection system to be within the City-approved street alignments and provide services to each building. As long as the new alignment follows District standards for minimum gravity main slope, the proposed pipelines will all require a diameter of 8-inches, identical to the recommendations in the 2018 Service Capacity Analysis. The slight decrease in wastewater flow does not modify the recommended wastewater collection system because DSRSD's minimum wastewater collection pipeline size is 8-inch diameter.

Findings

Review of the updated Proposed Project shows a slight decrease in service demands. The design and planning criteria set by DSRSD's 2016 WSMP and 2019 CSMP predominantly set the capacity of the potable and recycled water, and wastewater collection system. The slight change in service demands does not alter the sizes of the potable and recycled storage and pumping facilities. The recommended potable water facilities are sufficient to meet indoor and outdoor

demands in the event that recycled water supply is insufficient at the time of connection. The Proposed Project's engineer will need to modify the potable water, recycled water, and collection system pipeline alignments so that they are within approved street alignments and provide service at the location of the demands. The recommended pipeline sizes within each planning area are shown in Table 6.

Table 6. Recommended Diameter of Pipeline System Within Planning Areas (inches)				
Service Type	PA 1	PA 2	PA 3	PA 4
Potable Water	10	8	8	8
Recycled Water	4	4	4	4
Sanitary Sewer	8	8	8	8



TITLE: Approve Amendment to the Capital Improvement Program (CIP) Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years 2020 and 2021, and Authorize Execution of Task Order No. 2 with HydroScience Engineers, Inc. for Design Services for the Camp Parks Water Mains – Cromwell Avenue, 12th Street, and Mitchell Drive Project (CIP 20-W024)

RECOMMENDATION:

Staff recommends the Board of Directors, approve, by two separate actions, the following:

1. Approve, by Resolution, an amendment to the Capital Improvement Program (CIP) Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years Ending 2020 and 2021 to delete the Camp Parks Water Main - Mitchell Drive, Powell to 8th Street Project (CIP 20-W016) and increase the Camp Parks Water Mains - Cromwell Avenue, 12th Street, and Mitchell Drive Project (CIP 20-W024) budget.
2. Authorize, by Motion, the General Manager to execute Task Order No. 2 to the Master Agreement for Consulting Services dated July 8, 2019 with HydroScience Engineers, Inc. in an amount not to exceed \$273,300.

SUMMARY:

In the late 1990's, the District took over the utilities within Camp Parks. Many of the water mains within the base were installed in the 1940's and are the oldest water mains within the District's service area. Based on the District's asset management model, a history of frequent breaks and repairs, and ongoing poor water quality, the CIP budget included two projects to replace approximately 3,300 linear feet of the water mains in Camp Parks: Camp Parks Water Main - Mitchell Drive, Powell to 8th Street (CIP 20-W016) and Camp Parks Water Mains - Cromwell Avenue, 12th Street, and Mitchell Drive (CIP 20-W024). Attachment 1 shows the project locations.

Staff recommends combining the two projects and use one project design consultant and one bid construction contract for the water main replacement to reduce the overall construction overhead and mobilization costs. To more efficiently administer the design and construction work, staff recommends deleting the Camp Parks Water Main - Mitchell Drive, Powell to 8th Street Project (CIP 20-W016) and increasing the Camp Parks Water Mains - Cromwell Avenue, 12th Street, and Mitchell Drive Project (CIP 20-W024) (Project) budget.

The total budget of the current projects is \$949,000. Staff recommends an increase to the budget of the Project to \$1,479,000 to reflect recent preliminary contractor estimates. The increased budget covers design, construction, construction management, staff time, and a construction change order contingency. The funding source for this Project is Water Replacement (Fund 610). Exhibit A to the resolution shows the project description sheet.

On November 4, 2019, staff sent a Request for Proposals (RFP) to six prospective consulting firms to provide professional consulting engineering services for the Project. Services included: design, preliminary engineering, environmental support, and engineering services during the bid and award period. On December 5, 2019, one proposal was received from HydroScience Engineers, Inc.; the other five consulting firms declined to propose. The majority of the firms that declined to propose cited that their current workload prevented them from taking on additional projects. HydroScience Engineers, Inc. team was selected based on its availability along with the depth and breadth of its design team experience on similar projects and its overall approach to the proposed work.

Staff recommends the Board authorize execution of Task Order No. 2 with HydroScience Engineers, Inc. for the project planning and design in the amount of \$273,300. Based on the proposed schedule, construction for the replacement pipeline will commence in late fall 2020 and should be completed by spring 2021.

Originating Department: Engineering Services	Contact: R. Portugal	Legal Review: Not Required
Cost: \$530,000 – CIP 20-W024 increased budget, \$273,300 Task Order	Funding Source: Water Replacement (Fund 610)	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input checked="" type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input checked="" type="checkbox"/> Other (see list on right)	Attachment 1 – Map of Project Locations	



DSRSD WATER WITHIN CAMP PARKS FOR REPAIR IN 2020

HydroScience Engineers, Inc.
Task Order No. 2 to Agreement No. A19-11 dated 7/8/2019
Agreement Expiry Date: 6/30/2022

Issue Date: 2/4/2020
Project Name and Number: Camp Parks Water Main - Cromwell Avenue, 12th Street, and Mitchell Drive (CIP 20-W024)
Task Title: Engineering Design Services
Project Manager Name and Signature: Rudy Portugal _____
Source of Funds: Water Replacement (Fund 610)
Account Number: 20-W024.design.cip
Authorization Amount: \$273,300.00 NTE
Original PO Amount: \$0.00
Increase PO Amount: \$0.00
New PO Amount: \$0.00
Purchase Order Number: TBD
Return Purchase Order to: Evita Schnupp
Compensation Method: Time and materials as per Agreement
Completion Date: 6/30/2021
Insurance Requirements: As per Agreement; no special requirements
Work Product: See Attachment "A"
Digital Drawings, if applicable: Digital files shall be in AutoCAD 2010 or higher drawing format. Drawing units shall be decimal with a precision of 0.00. Angles shall be in decimal degrees with a precision of 0. All objects and entities in layers shall be colored by layer. All layers shall be named in English. Abbreviations are acceptable. All submitted map drawings shall use the Global Coordinate system of USA, California, NAD 83 California State Planes, Zone III, U. S. foot.
Scope of Work: See Attachment "A"
Economic Disclosure: Not Required
Recommended by: Judy Zavadil (_____)

Accepted by: _____

Curtis Lam, Principal
HydroScience Engineers, Inc.

Date

Authorized by: _____

Daniel McIntyre, General Manager
Dublin San Ramon Services District

Date

HydroScience's Scope of Work

The proposed scope of work for the Project is divided into the following four tasks in alignment with the phases outlined by DSRSD for the Project.

- Task 1.0 – Project Management and Quality Assurance/Quality Control
- Task 1.A – Preliminary Engineering (Phase 1A)
- Task 1.B – NEPA Environmental Support & Public Outreach (Phase 1B)
- Task 2.0 – Detailed Design (Phase 2)
- Task 3.0 – Bid and Award Phase Engineering Services (Phase 3)
- Task 4.0 – (Future) Engineering Services During Construction

Supplemental detail describing effort may be found in the Approach to Work section

Task 1.0 – Project Management and Quality Assurance/Quality Control

HydroScience will ensure that DSRSD is fully abreast of project status and issues at all times, that the project stays on schedule and within scope, and that all submittals receive HydroScience QA/QC prior to DSRSD review. Monthly progress reports will accompany each invoice detailing the tasks completed during that time period. Completed and outstanding items will be documented in a tracking log. The project manager will coordinate with the internal project team and DSRSD staff throughout the length of the project, and maintain the project schedule.

Task 1.0 Deliverables

- Monthly progress reports included with each invoice – PDF
- Tracking log & schedule, as requested and at 50%, 90% and bid set submittal levels – PDF

Task 1.A – Preliminary Engineering (Phase 1A)

The work associated with the preliminary engineering task includes hosting a kick off meeting; performing the geotechnical desktop study; completing the topographic survey including utility information; conducting the hydraulic evaluation; evaluating design alternatives; and preparing a conceptual design report (CDR). A Preliminary Design Workshop will be held with DSRSD staff to present the conceptual design options and cost estimates. Each of these items is further discussed below.

Kickoff Meeting: During the kickoff meeting, HydroScience will confirm the scope of work, schedule, budget, and availability of project documents and electronic files; review project goals, priorities, and conceptual design requests; review unique project features, discuss format of deliverables; and clarify responsibilities of each party. A site visit will follow.

Geotechnical Desktop Study: HydroScience's geotechnical subconsultant, CE&G, will review available geotechnical information in the area to characterize the soil conditions anticipated to be encountered. Available information regarding geology, soil, and groundwater level will be sought across the project area. Findings will be presented in a technical memorandum (TM).

Topographic Survey: HydroScience's topographic survey subconsultant, O'Dell, will coordinate with a private utility locator to identify and mark subsurface utility features, and then perform full topographic surveying and mapping for the segments of roadway to be impacted by the Project. O'Dell will also collect aerial photographs and process them to generate high resolution orthophotography on the project coordinate system. The topographic survey will clearly locate and identify the following within the project footprint: utilities (electrical, storm drains, sewers, water lines, communications, etc.) and appurtenant structures, fences, property lines, trees and large shrubs/vegetation, structures, roadways, sidewalks curbs and gutters, and parking lot and lane striping.

Hydraulic Evaluation: A hydraulic evaluation will be conducted using DSRSD's potable hydraulic model in InfoWater and the criteria developed and adopted in DSRSD's 2016 Water Master Plan. Hydraulic constraints and operational requirements presented by current and ultimate buildout scenarios will be determined. Hydraulic modeling results will be used to determine recommended pipeline size and material. A summary of the hydraulic modeling evaluation and results will be incorporated in the CDR discussed below.

Design Alternatives Analysis: Equipped with the project basemaps, HydroScience will perform a site visit to review the project area for preliminary alignment and construction alternatives against site access and constraints, traffic and impacts to site users, existing utilities, and overall constructability relative to other active/future improvement projects in the area.

Conceptual Design Report: The CDR will be developed based on the outcome of the aforementioned tasks. This CDR is expected to include the following:

- Outline of key objectives in the selection of the preferred alternative;
- Analysis of the alternatives with their associated construction cost estimates, with the alternatives in matrix format for ease of comparison;
- 10% civil design plans drawn at a 1"=20' scale of the preferred alternatives, including the size and alignment of the new water mains; and
- Recommended project phasing (if any).

HydroScience will host a Preliminary Design Workshop to initiate DSRSD's review of the draft CDR. The conceptual design options and cost estimates will be presented, along with service connections and any potential challenging aspects of the project. Criteria for preferred alternatives will be discussed. HydroScience will document decisions made in the meeting minutes' decision log.

Following the workshop, DSRSD staff will review the conceptual designs, finalize/approve meeting minutes, and select the preferred design alternative(s) for detailed design. HydroScience will finalize the CDR after receipt of review comments.

Task 1.A Meetings

- Kickoff (1 ea)
- Workshop (1 ea)

Task 1.A Deliverables

- Project Kickoff Meeting minutes – word, PDF
- Geotechnical Desktop Study TM – 3 hard copies and PDF
- Topographic Survey and Utility Basemaps – AutoCAD drawings
- Conceptual Design Report – 3 hard copies and PDF
- Preliminary Design Workshop minutes – word, PDF

Task 1.A Assumptions

- DSRSD will provide a copy of DSRSD's InfoWater hydraulic model to HydroScience
- DSRSD will have 15 working days to review the CDR and finalize the meeting minutes
- DSRSD will provide land use and demand information for development that has occurred since the "current" scenario of the previous model as reported in the 2016 Water Master Plan, and the same information for the updated ultimate buildout scenario

Task 1.B –NEPA Environmental Support & Public Outreach (Phase 1B)

Upon DSRSD's selection of preferred design alternative(s), the appropriate NEPA environmental analysis form 4283 will be issued by the Army, with declaration of a category exclusion expected. CEQA will not be required for the project per recent Army correspondence. Property rights to construct the water main are assumed to be secured per the discussion in the Approach to Work section of this proposal. Public outreach for this Project is also included in this task.

NEPA Support: HydroScience will support the NEPA category exclusion process by completing the description of work and a detailed map describing limits of work as part of the form 4283 needed by the Army. One meeting is included in case on-site coordination is required.

Public Outreach: HydroScience will provide as-needed support to attend meetings with the Army and developers at Camp Parks to discuss the Project and help respond to questions. HydroScience has budgeted a total of 16 hours plus one meeting to assist DSRSD with this effort.

HydroScience will also work with DSRSD to schedule and hold one public meeting as needed to describe the project, construction activities, and construction schedule. HydroScience will prepare any collateral material, exhibits, or other material as directed by DSRSD.

Task 1.B Meetings

- NEPA coordination meeting (1 ea)
- Public outreach meeting (1 ea)

Task 1.B Deliverables

- NEPA form 4283 elements – format transmitted by Army will be used
- NEPA related meeting minutes (1 meeting) – PDF
- Public outreach supporting materials and minutes/notes (1 meeting) – PDF

Task 1.B Assumptions

- CEQA will not be required for this project.
- NEPA will be issued by the Army based on an assumed category exclusion.

Task 2.0 – Detailed Design (Phase 2)

After completion of the CDR, HydroScience will then transition to preparing the contract documents. We anticipate submitting plans, specifications, and a cost estimate (PS&E) at the 50%, 90%, and bid set levels of completion. After each progress submittal, a project meeting with key stakeholders will be held to receive comments. Draft meeting minutes will be prepared and distributed within seven calendar days from each meeting. Each submittal will include an explanation as to how all previous submittal comments have been addressed. HydroScience has reserved time for up to two additional meetings with stakeholders, one with Field Operations and one with Camp Parks staff, to coordinate review of the project drawings.

The anticipated sheet list is as follows:

SHEET TITLE	
1-3	Title Sheet, Vicinity Map, Sheet Index, Abbreviations, Symbols, Standard Notes
4	Survey control
5, 6	Water Service Schedule and Service Connection Map
7-11	Plan and Profile
12-14	Construction Details
15	Traffic Control Plan

Geotechnical Investigation: Should available geotechnical information gathered in the desktop study be insufficient to properly validate design recommendations or characterize construction parameters, CE&G will be authorized to proceed with a detailed geotechnical investigation for this project. CE&G will work with the Camp Parks PWD to obtain authorization to perform between three and six subsurface borings up to 15 feet in depth. Incorporating findings from the desktop study, CE&G will prepare a geotechnical data and design report that includes the summary of information from the data research and review, boring logs and results of laboratory tests (if applicable), discussion of soil materials encountered and geotechnical engineering analysis for the proposed pipelines, including design and installation considerations.

50% Design Submittal: The 50% design submittal for review will include the plan and profile drawings for the water main and will be based on the alignment recommended in the CDR. The plan will be further detailed for the 50% submittal and the profile created based on the pipeline location and available utility information obtained in Task 1.A. An estimate of probable construction costs will be included. Geotechnical design issues will be addressed. Any construction sequencing and constraints to be conveyed to the contractor, as required to maintain

operations as needed during construction, including temporary water connections to buildings during construction, will be included. Construction and traffic control details, complete technical specifications, water main appurtenances, and the water service connections are likely to be excluded from the 50% submittal, but will be included in the 90% submittal.

90% Design Submittal: The 90% review submittal will include a complete set of unsigned plans and specifications that is to a level suitable for advertisement. The 90% submittal will incorporate any comments on the 50% submittal. An updated estimate of probable construction costs, a redline of the DSRSD's Standard Front Ends, and the draft technical provisions will be prepared and included in the submittal.

Final Design/Bid Documents: The final design/bid set submittal will incorporate all comments from the 90% and be submitted to DSRSD as a set of contract documents suitable for advertisement. The contract documents will include a California Professional Engineer stamped and signed final drawings, completed DSRSD Standard Front Ends and project technical specifications, final construction cost estimate, and the construction schedule.

Permits: HydroScience will assist in submitting plans and specifications to the Army as needed for requisite approvals prior to construction.

Task 2.0 Meetings

- 50% & 90% review (2 total)
- Stakeholder (2 ea)

Task 2.0 Deliverables

- Geotechnical report – 3 hard copies and PDF
- 50% & 90% Progress submittals – 5 half size copies and PDF of drawings, electronic (PDF) copy of specifications and cost estimate
- 50% & 90% review meeting minutes – PDF
- 50% & 90% submittal comment responses – PDF
- Stakeholders meetings minutes – PDF
- Bid Set Submittal 24 X 36 and 11 X 17 plans – hardcopy, PDF, and AutoCAD; finalized DSRSD standard front ends and technical specifications – hardcopy, PDF and Word
- Final construction cost estimate – PDF and Excel
- Construction schedule – PDF and MS Project

Task 2.0 Assumptions

- DSRSD will provide its Standard Front End (CSI Division 0 and 1) specifications in PDF format for HydroScience to redline and utilize in the contract specifications
- DSRSD staff will have 15 working days to review design submittals and project meeting minutes

[**Task 3.0 – Bid and Award Phase Engineering Services**](#)

[**\(Phase 3\)**](#)

During the bid period, HydroScience will prepare the agenda for and participate in the pre-bid meeting. HydroScience will document and respond to questions from prospective bidders. Notes from the meeting will be prepared and submitted to DSRSD. HydroScience will provide any support required to respond to technical questions submitted during the bidding phase. Clarifications and addenda will be prepared for DSRSD distribution. All communications with potential bidders will be conducted in accordance with the DSRSD Front Ends.

After bid opening, HydroScience will evaluate bids received and assist DSRSD in determining responsive responsible bidders. Conformed drawings and specifications will be prepared to incorporate any addenda issued during the bid period.

Task 3.0 Meeting

- Pre-bid (1 ea)

Task 3.0 Deliverables

- Responses to bidder inquiries – Word or PDF
- Addenda (up to three) – Word
- Pre-bid meeting agenda and notes – Word and PDF
- Evaluation of project bids – Excel or PDF
- Conformed drawings – PDF and AutoCAD, and specifications – PDF and Word

[**Task 4.0 – \(Future\) Engineering Services During Construction – See Appendix**](#)

HydroScience will provide a scope and fee for engineering services during construction to DSRSD as the project nears completion.

FEE ESTIMATE

Dublin San Ramon Services District
Camp Parks Water Main - Cromwell Ave., 12th St., and Mitchell Dr. (CIP 20-W024)
Consultant's Name: HydroScience Engineers, Inc.

#	Task Description	Tasks						Subconsultants and ODCs	Total
		Total Labor Costs			Markup & ODCs				
Total Hours		Survey		Geotech		O'Dell		CE&G	
		Dodge	Preuss	Kohagura	Le Park	Watson	Drafter	LS	LS
		\$210	\$250	\$230	\$190	\$200	\$180	\$110	
1.0	Project Management & QA/QC	40	14	16	40			110	\$23,180
1.1A	PHASE 1A: Preliminary Engineering	40	4		64	28	32	168	\$32,920
1.1B	PHASE 1B: NEPA Environmental Support & Public	44	2		44			90	\$18,100
2.0	PHASE 2: Detailed Design Phase								
	50% Design	24	2	68	50	36	180	\$31,420	\$26,180
	90% Design	24	2	68	50	30	174	\$30,760	\$300
	100% Design	18	2	48	50	30	148	\$25,700	\$300
	Engineering Permit Preparation/Acquisition	12		32	24		68	\$12,920	\$275
3.0	PHASE 3: Bid and Award Phase Services	12	2	36		8	58	\$10,740	\$100
Total Services		214	28	16	400	28	206	104	996
									\$185,740
									\$43,750
									\$36,600
									\$7,192
									\$273,300

Notes:

- 1 No markup on actual direct costs. ODCs includes a 10% markup on subconsultants fees only.
- 2 Year 2020 Billing Rates.

HYDROSCIENCE ENGINEERS, INC.

Standard Schedule of Estimated Billing Rates

Effective January 1, 2020 through December 31, 2020

Labor Classification	2020 Hourly Rate
Principal	\$250
Engineer IX	\$240
Engineer VIII	\$230
Engineer VII	\$220
Engineer VI	\$210
Engineer V	\$200
Engineer IV	\$190
Engineer III	\$180
Engineer II	\$170
Engineer I	\$155
Engineering Aide	\$90
Construction Professional VI	\$170
Construction Professional V	\$160
Construction Professional IV	\$150
Construction Professional III	\$140
Construction Professional II	\$130
Construction Professional I	\$120
Cross Connection Control Specialist	\$110
CAD Manager	\$130
CAD Designer	\$110
Marketing Professional	\$100
Administrative II	\$90
Administrative	\$75

Hourly billing rates include postage and telephone charges that are normal to the work authorized. Other direct costs for travel, reproduction, mail service, outside services, etc. will be invoiced at 110 percent of the actual cost.

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING AN AMENDMENT TO THE CAPITAL IMPROVEMENT PROGRAM (CIP) TEN-YEAR PLAN FOR FISCAL YEARS 2020 THROUGH 2029 AND TWO-YEAR BUDGET FOR FISCAL YEARS 2020 AND 2021 TO DELETE THE CAMP PARKS WATER MAIN - MITCHELL DRIVE, POWELL TO 8TH STREET PROJECT (CIP 20-W016) AND INCREASE THE CAMP PARKS WATER MAIN - CROMWELL AVENUE, 12TH STREET, AND MITCHELL DRIVE PROJECT (CIP 20-W024) BUDGET

WHEREAS, the Board of Directors adopted the current Capital Improvement Program (CIP) Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years Ending 2020 and 2021 ("CIP Budget") on July 2, 2019, authorizing project budgets to meet the District's capital infrastructure needs; and

WHEREAS, the CIP Budget included the Camp Parks Water Main – Mitchell Drive, Powell to 8th Street Project (CIP 20-W016) with a budget of \$182,000; and

WHEREAS, the CIP Budget included the Camp Parks Water Main – Cromwell Avenue, 12th Street, and Mitchell Drive Project (CIP 20-W024) with a budget of \$767,000; and

WHEREAS, staff recommends to delete the Camp Parks Water Main – Mitchell Drive, Powell to 8th Street Project (CIP 20-W016); and

WHEREAS, staff recommends an increase to the Camp Parks Water Main – Cromwell Avenue, 12th Street, and Mitchell Drive Project (CIP 20-W024) to a total budget of \$1,479,000.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

1. The Camp Parks Water Main – Mitchell Drive, Powell to 8th Street Project (CIP 20-W016) is hereby deleted from the CIP Two-Year Budget for Fiscal Years Ending 2020 and 2021.
2. The Camp Parks Water Main – Cromwell Avenue, 12th Street, and Mitchell Drive Project (CIP 20-W024) is hereby increased to a total budget of \$1,479,000 in the CIP Two-Year Budget for Fiscal Years Ending 2020 and 2021 in accordance with the project description sheet (Exhibit "A").

Res. No. _____

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

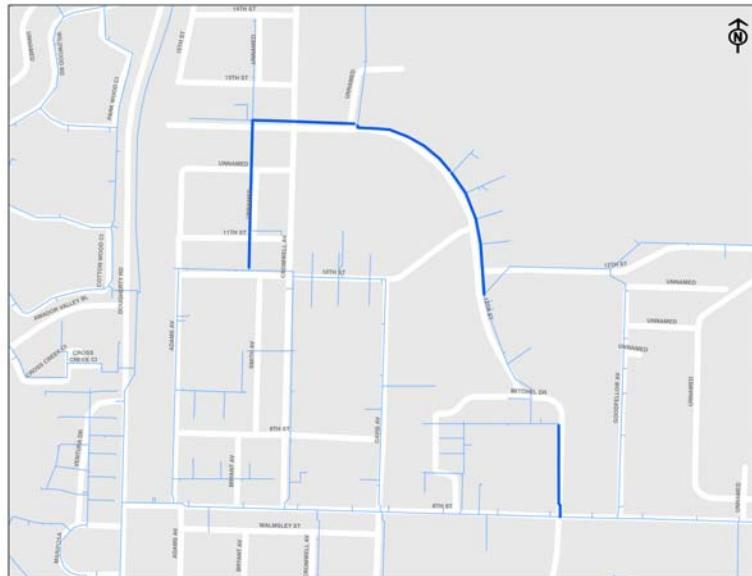
ATTEST: _____
Nicole Genzale, District Secretary

DSRSD CIP 10-Year Plan for FYEs 2020 through 2029**CATEGORY: WATER SYSTEM****Water Replacement (Fund 610)****CIP No. 20-W024 Camp Parks Water Main - Cromwell Avenue, 12th Street, and Mitchell Drive****Funding Allocation:** 100% 610**Project Manager:** Rudy Portugal**Status:** New Project**Project Summary:**

This project will replace 6-inch and 8-inch feet of cast iron potable water lines west of Cromwell Avenue between 10th and 12th Street, in 12th Street west of Cromwell Avenue north of Davis Avenue, and in Mitchell Drive north of 8th Street. These lines have a history of frequent breaks and repairs, several have been shear type breaks. This project will be coordinated with Camp Parks development.

CEQA: Statutory Exemption [CEQA Guideline 15282]**Reference:** Camp Parks Privatization Study, WBA, July 1998; Asset Management Program**Fund Allocation Basis:** Project is required to replace or rehabilitate existing water fund assets.**10-Year Cash Flow and Estimated Project Cost:**

Prior	FYE 20	FYE 21	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	Future
0	1,479,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost **\$1,479,000**Current Adopted Budget **\$767,000**Increase/(Decrease) **\$712,000**



TITLE: Approve the Salary Range for the New Operations Compliance Supervisor Job Classification

RECOMMENDATION:

Staff recommends the Board of Directors approve, by Resolution, the salary range for the new Operations Compliance Supervisor job classification.

SUMMARY:

In March 2019, the Senior Engineer/Plant Engineer overseeing the Operations Support Services Division took a position in the Engineering Services Department and the vacant supervisory position was transferred to that department. During the development of the two-year Operating Budget for FY20 and FY21, the Operations Manager determined that there was a need for a manager-level position in the Operations Department to continue overseeing the regulatory compliance functions, including environmental, health, and safety as well as other regulatory compliance requirements. The position description was developed with the help of human resources consulting firm, Koff and Associates, Inc. The final job classification was approved by the General Manager on January 9, 2020 (Attachment 1).

Applicants for the Operations Compliance Supervisor position will be required to have at least a bachelor's degree majoring in business or public administration, environmental science, industrial or civil engineering, public health, or a closely related field; and five (5) years of experience in regulatory compliance programs or public utility administration including significant interface with a variety of governmental regulatory agencies, program administration within a wastewater treatment operation, water services, or similar process industry, and two (2) years of supervisory experience. Staff believes these requirements and the higher level of duties will allow the District to attract quality applicants who possess the necessary experience and knowledge to effectively manage the Operations Support Services Division.

In accordance with the District's New/Revised Job Classifications and Salary policy (P700-18-3) for all positions, the General Manager shall present the salary range to be applicable to any new or revised job classification to the Board for approval and adoption (Attachment 2). The proposed salary range for the new Operations Compliance Supervisor is set as a result of a compensation analysis, in accordance with the Mid-Management Employees' Bargaining Unit (MEBU) Memorandum of Understanding (MOU) and the District's compensation structure. The salary range for the Operations Compliance Supervisor position will be \$13,396 – \$16,283 per month. This new position will be included in the successor MOU, and the salary will be reviewed and set in accordance with MOU requirements. Staff has met and consulted with representatives of MEBU on the proposed new job definitions and salary range for the Operations Compliance Supervisor job description. Upon adoption, staff intends to begin recruiting to fill the vacant position in the Operations Support Services Division.

Originating Department: Administrative Services	Contact: M. Gallardo	Legal Review: Not Required
Cost: \$0	Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input checked="" type="checkbox"/> Other (see list on right)	Attachment 1 – Operations Compliance Supervisor Job Classification, effective 1/9/2020 Attachment 2 –New/Revised Job Classifications and Salary policy (P700-18-3)	72 of 415

Effective Date: January 9, 2020
Job Title: Operations Compliance Supervisor
W/C Code: 8810
FLSA Status: Exempt
Unit: Mid-Management
Job Code: MOCSUP

DEFINITION

Under general direction, plans, organizes, integrates, manages and evaluates the activities, operations, and services affiliated with regulatory compliance for District operations including the environmental, safety, and health programs; evaluates, develops, and implements regulatory actions to ensure operations and assigned functions comply with applicable laws and regulations, as well as industry standards; provides complex and responsible staff assistance to the District's management staff in areas of expertise; interfaces with Federal, State and regulatory agencies; assists in the coordination and implementation of intergovernmental activities and regulatory programs in conjunction with other local, state, and national agencies; and performs related duties as assigned.

SUPERVISION RECEIVED AND EXERCISED

Receives general direction from the Operations Manager. Exercises direct and general supervision over professional, technical, and administrative support staff.

DISTINGUISHING CHARACTERISTICS

This is a mid-management level classification responsible for regulatory monitoring and compliance programs and projects related to District operations. Responsibilities include developing and implementing policies and procedures for assigned programs, budget administration and reporting, and program evaluation, in addition to assisting and supporting the Operations Manager in the planning and execution of programs and projects to ensure regulatory compliance. Incumbents serve as a professional-level resource for organizational, managerial, and operational analyses and studies, and are accountable for accomplishing divisional planning and operational goals and objectives, and for furthering District goals and objectives. Performance of the work requires the use of considerable independence, initiative, and discretion within established guidelines. Incumbent is expected to work independently, perform complex work which requires exercising sound judgment and applying professional knowledge and skills to programs, policies, and problems that have District-wide implications.

TYPICAL DUTIES

- Participates in the development and implementation of goals, objectives, policies, and priorities for the environmental, health and safety programs; identifies resource needs; recommends and implements policies and procedures, including standard operating procedures for assigned area.

Class Description: Operations Compliance Supervisor

- Assesses and monitors workloads, administrative and support systems, and internal reporting relationships; identifies opportunities for improvement; directs and implements needed changes.
- Provides responsible staff assistance to the Operations Manager; attends a variety of board, committee, civic and commission meetings; prepares and presents staff reports and other necessary correspondence
- Selects, trains, evaluates, and monitors the performance of Division personnel, directly or through subordinate staff.
- Develops, implements, and maintains policies and procedures while ensuring that operation and maintenance, financial, regulatory, and legal requirements are met.
- Interprets District ordinances, policies, and applicable laws and regulations to ensure compliance within assigned areas of accountability.
- Designs and implements monitoring procedures, including determining appropriate equipment and training; and provides guidance on new techniques, instruments, and changing regulations.
- Oversees the Regulatory Compliance Program by ensuring timeliness of reporting, providing quality assurance and quality controls, and reviewing data collection procedures, data, and analysis methodology; ensures field operations are compliant by completing permits for projects and operations and overseeing staff permit development work; gathers, researches, and analyzes operational needs, technical and legal information related to operational issues; identify gaps and provides recommendations to address; and acts as lead on implementation of interdepartmental efforts.
- Provides oversight and support to asset management efforts including workflow improvements to meet departmental needs.
- Provides technical expertise in negotiations with regulatory agencies by ensuring accuracy and completeness of data collection and compliance with regulatory processes; identify presents and defends data and collection processes to regulators; and represents interests for the District at stakeholder meetings.
- Oversees the preparation and submission of statistical and analytical reports to regulatory agencies such as the Certified Unified Program Agencies (CUPA), Department of Fish and Game, Regional Water Quality Control Board (RWQCB) NPDES, Drinking Water General Order, ELAP (Lab), Source Control, Bay Area Air Quality Management District (BAAQMD), California Air Resources Board (CARB), and Department of Toxic Substance Control (DTSC), California, Cal-OSHA, EPA Biosolids, Alameda/ Contra Costa Counties, and other regulatory agencies.
- Advises the Operations Manager on all operational-related matters, specifically those with significant policy, legal, regulatory, and/or political impact.
- Participates in developing District plans and inter-agency agreements; represents District position regarding issues and collaboratively engages with committees/work groups, including staff work groups and the public, and with outside agencies.
- Explains, justifies and defends programs, policies and activities; negotiates and resolves sensitive and controversial issues; investigates and responds to difficult and sensitive citizen inquiries and complaints.
- Negotiates and administers contracts for a variety of routine and complex consulting projects which includes monitoring and reviewing progress and scheduling and approving progress payment.
- Oversees the preparation of the division's budget, monitors expenditures and prepare complex administrative and financial reports
- Monitors and stays abreast of new trends, laws, regulations, and innovations; research emerging products and enhancements including integrated systems solutions and their applicability to District needs; attends and participates in professional group meetings.
- Performs other duties as assigned.

QUALIFICATIONS

To perform this job successfully, an individual must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge and abilities required. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Knowledge of:

- Principles and practices of employee supervision, including work planning, assignment, review, and evaluation, and the training of staff in work procedures.
- Organization and management practices as applied to the development, analysis, and evaluation of programs, policies, and operational needs of the Environmental Health and Safety (EHS) function.
- Fiscal management principles including budget preparation, budget and contract administration and management.
- Federal, State and local laws and regulations governing environmental compliance such as the Alameda County CUPA requirements; Cal/Environmental Protection Agency (EPA); Federal EPA; RWQCB (wastewater, recycled water, water); CARB; BAAQMD, and DTSC for water, air, underground storage tanks, hazardous materials/waste, and wastewater/industrial discharges and related aspects of District operations.
- Policies, regulations, specifications, procedures, and requirements governing industrial safety and accident prevention for industrial production facilities, construction field activities, and office environments including Cal/OSHA regulations, National Fire Protection Association (NFPA), DOT, the American National Standards Institute, ergonomics, SEMS/NIMS, and Office of Emergency Services (OES).
- Wastewater agency operations including principles and methods of wastewater collection, treatment, recycling and discharge.
- General principles, methods, and terminology of chemical, biological, and bacteriological testing commonly performed for water/wastewater and soil analyses.
- Hydrology, limnology, chemistry, groundwater, and field biology monitoring techniques.
- Methods of scientific research, quantitative and qualitative analyses, and reporting.
- Practices, principles, and techniques of effective organizational management and development practices, including leadership development and succession planning.
- Administrative principles and practices, including goal setting, program development, implementation, and evaluation.
- Principles and practices of operation and maintenance of equipment and instruments common to a modern wastewater treatment facility.
- Technical, legal, financial, and public relations issues associated with the management of water, wastewater and recycled water programs.
- Techniques for effectively representing the District in contacts with governmental agencies, community groups, various business, professional, educational, and regulatory organizations, and the public.
- Modern integrated computer maintenance management systems (CMMS) including the principles, methods, and techniques of implementing a comprehensive maintenance and asset management programs.
- Principles and practices of employee training and instructional methods and techniques.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and District staff.
- Modern equipment and communication tools used for business functions and program, project, and task coordination.

Class Description: Operations Compliance Supervisor

- Use of enterprise computer systems (e.g., databases, Microsoft software packages, etc.) to conduct, compile, and/or generate documentation.

Ability to:

- Select and supervisor staff, provide training and development opportunities, ensure work is performed effectively, and evaluate performance in an objective and positive manner.
- Develop and implement goals, objectives, policies, procedures, work standards, and internal controls for the District and assigned program areas.
- Interpret, apply, explain, and ensure compliance with applicable Federal, State, and local laws, rules, regulations, policies, and procedures.
- Make effective written, graphic, and oral presentations of complex and highly technical information.
- Prepare clear, concise and comprehensive correspondence, reports, studies and other written materials.
- Identify and respond appropriately to sensitive community and organizational issues, concerns and needs.
- Monitor, evaluate and effectively motivate the performance of subordinate staff.
- Conduct effective negotiations and effectively represent the District in meetings with governmental agencies, contractors, vendors, and various businesses, professional, regulatory, and legislative organizations.
- Analyze data and information using established criteria in order to determine consequences and to identify and select alternatives.
- Understand, interpret, and apply all pertinent laws, codes, regulations, policies and procedures, and standards relevant to work performed.
- Effectively use computer systems, software applications, and modern business equipment to perform a variety of work tasks.
- Communicate clearly and concisely, both orally and in writing, using appropriate grammar and syntax.
- Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

EDUCATION AND EXPERIENCE

The minimum qualifications described on class specifications represent the typical way to obtain the required knowledge, skills, and abilities to perform the essential duties of the job. Any combination of education, licensing, and/or experience which has provided the knowledge, skills, and abilities necessary to perform the job satisfactorily may qualify the candidates to be considered for open positions in the class specification.

A bachelor's degree majoring in business or public administration, environmental science, industrial or civil engineering, public health, or a closely related field; and five (5) years of experience in regulatory compliance programs or public utility administration including significant interface with a variety of governmental regulatory agencies, program administration within a wastewater treatment operation, water services, or similar process industry, and two (2) years of supervisory experience.

CERTIFICATES, LICENSES, REGISTRATIONS

Possession of a Class C Driver's License required by the State of California, Department of Motor Vehicles, to perform the duties of the position. Continued maintenance of said driver's license in compliance with established District vehicle operation standards, and the ability to be insured for the operation of a

Class Description: Operations Compliance Supervisor

vehicle/District vehicle in accordance with the terms and conditions of the District's insurance program are conditions of continuing employment. The CSRMA driving standards are included herein by reference.

DISASTER SERVICE WORKER

All Dublin San Ramon Services District employees are, by State and Federal law, Disaster Service Workers. The roles and responsibilities for Disaster Service Workers are authorized by the California Emergency Services Act and are defined in the California Labor Code. In the event of a declaration of emergency, any employee of the District may be assigned to perform activities which promote the protection of public health and safety or the preservation of lives and property. Such assignments may require service at locations, times, and under conditions that are significantly different than the normal work assignments and may continue into the recovery phase of the emergency. If a "Local Emergency" is declared during the employee's shift, employees will be expected to remain at work to respond to the emergency needs of the community. If a "Local Emergency" is declared outside of the employee's shift, employees must make every effort to contact their direct supervisor or department head to obtain reporting instructions as Disaster Service Workers.

WORK ENVIRONMENT

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to talk, hear, taste, or smell. Specific vision abilities required by this job include close vision, distance vision, and depth perception. The noise level in the work environment is usually moderate, but the employee will be exposed to loud industrial equipment and machinery when performing job responsibilities.

The employee is occasionally exposed to confined spaces; fumes or airborne particles; toxic or caustic chemicals; extreme cold; extreme heat; and risk of electrical shock or mechanical hazards. The employee works indoors, which is temperature controlled. Works outdoors, and is subject to inclement weather. Works at heights including ladders.

PHYSICAL DEMANDS

Standing

Average Frequency: Up to $\frac{1}{2}$ hour.
Duration: Seconds to 5 minutes at a time.
Maximum Frequency: Up to 2 hours.
Duration: Seconds to 5 minutes at a time.
Surfaces: Tile, carpet, concrete, asphalt, dirt, gravel, mud, metal grating, grass, uneven terrain.
Description: Performs during trainings, visiting field sites including performing investigations and observations, performing confined space entry trainings, maintaining signage and markings including using basic tools, communicating with coworkers, contractors or public during informal meetings, operating standard office equipment, accessing files, drawers or shelves and performing other described job duties.

Class Description: Operations Compliance Supervisor

Walking

Average Frequency: $\frac{1}{2}$ hour to 1 hour.
Duration: Seconds to 10 minutes at a time.
Maximum Frequency: Up to 1 $\frac{1}{2}$ hours.
Duration: Seconds to 10 minutes at a time.
Surfaces: Tile, carpet, concrete, asphalt, dirt, gravel, mud, metal grating, grass, uneven terrain.
Description: Performs during trainings, visiting field sites including performing investigations and observations, within buildings, to and from offices, relocating files, paperwork or office supplies, using carts, or dollies, transporting video projectors, and performing other described job duties.

Sitting

Average Frequency: 7 to 8 hours.
Duration: $\frac{1}{2}$ to 2 hours at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Surfaces: Cushioned vehicle seat or office chair.
Description: Performing various desk station activities including using a computer, reading and writing, driving a vehicle, during meetings, and performing other described job duties.

Kneeling/Crouching/Squatting

Average Frequency: 2 to 4 times.
Duration: Seconds at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Surfaces: Tile, carpet, concrete, asphalt, dirt, gravel, mud, metal grating, grass, uneven terrain.
Description: Performs while retrieving or positioning paperwork/files, boxes or equipment on and off lower shelves, drawers or ground level, visiting field sites including performing investigations or and equipment inspections.

Crawling

Average Frequency: 1 time every 6 months.
Duration: Seconds to 5 minutes at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Surfaces: Tile, carpet, concrete, asphalt, dirt, gravel, metal grating.
Description: Performs while visiting field sites including performing accident investigations or equipment inspections.

Laying on Back/Stomach

Average Frequency: 1 time every 6 months.
Duration: Seconds to 5 minutes at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Surfaces: Tile, carpet, concrete, asphalt, dirt, gravel, metal grating.
Description: Performs while visiting field sites including performing accident investigations or equipment inspections.

Class Description: Operations Compliance Supervisor

Climbing/Balancing

Average Frequency: 6 to 10 times.
Duration: Seconds at a time.
Maximum Frequency: Up to 30 times.
Duration: Seconds at a time.
Surfaces: Stair or ladder steps, vehicle floorboard.
Description: Performs while ascending or descending stair steps to access plant sites; entering or exiting vehicle cabs, one step; using step, extension or vertical ladders to access manholes, reservoirs, pump stations, and performing other described job duties. A variable to using a step stool or ladder includes employee's height.

Reaching

Above Shoulder Level:

Average Frequency: 2 times.
Duration: Seconds to 1 minute at a time.
Maximum Frequency: Up to 10 times.
Duration: Seconds to 1 minute at a time.
Description: Performs while maintaining signs in conjunction with using basic tools, accessing or placing files/paperwork and related items on and off upper shelves. Unilateral or bilateral upper extremities from less than full-to-full extensions at each occurrence. A variable to reaching above shoulder level includes employee's height.

Between Waist and Shoulder Level:

Average Frequency: 3 to 5 hours.
Duration: Seconds to 30 minutes at a time.
Maximum Frequency: 5 to 6 hours.
Duration: Seconds to 30 minutes at a time.
Description: Performs during trainings including setups, using basic tools, while maintaining signs or markings, visiting field sites including performing investigations, utilizing a computer keyboard and input device to enter or retrieve data, which includes reaching within the primary reach zone, operating standard office equipment including a copy or fax machine, handling office supplies, driving a vehicle in conjunction with maneuvering a steering wheel, using a cart or dollies while transporting projectors and performing other described job duties. Unilateral or bilateral upper extremities from less than full-to-full extensions on each occurrence.

Below Waist Level:

Average Frequency: 2 to 4 times.
Duration: Seconds at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Description: Performs while retrieving or positioning paperwork/files, boxes or equipment on and off lower shelves, drawers or ground level, visiting field sites including performing investigations or observations. Unilateral or bilateral upper extremities from less than full-to-full extensions on each occurrence.

Pushing/Pulling

Average Frequency: Up to 10 minutes.

Class Description: Operations Compliance Supervisor

Duration: Seconds to 5 minutes at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Description: Performs while opening or closing file cabinet drawers, using a four-wheel cart or dolly, transporting projectors, using basic tools to maintain signs including wrenches. Unilateral or bilateral arm use.

Twisting/Rotating

Waist:

Not a job requirement.

Neck:

Average Frequency: 1 to 2 hours.
Duration: Seconds at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Description: Performs during normal body mechanics, performing general office tasks, driving, visiting field sites including performing investigations and observations, and performing other described job duties.

Wrists:

Average Frequency: 15 to 30 minutes.
Duration: Seconds at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Description: Performs while handling office supplies and paperwork, using basic tools including wrenches, pliers, screwdrivers, etc. while maintaining signs, possibly during field investigations and performing other described job duties. Unilateral or bilateral hand use.

BENDING

Waist:

Alternated with squatting, employee preference.

Head/Neck:

Average Frequency: 2 to 3 hours.
Duration: Seconds to 10 minutes at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Description: Performs during normal body mechanics, using basic tools to maintain signs and markings, visiting field sites including performing investigations and observations, reading, writing and reviewing paperwork, operating standard office equipment, performing general office tasks and other described job duties.

Wrists:

Average Frequency: 2 to 3 hours.
Duration: Seconds to 5 minutes at a time.
Maximum Frequency: Average frequency is consistent.

Class Description: Operations Compliance Supervisor

Duration: N/A
Description: Performs during normal body mechanics, handling office supplies and paperwork, driving in conjunction with maneuvering a steering wheel, using basic tools to maintain signs and markings, visiting field sites including performing investigations and performing other described job duties. Unilateral or bilateral hand use.

Lifting/Carrying

0 to 10 lbs.

Objects: Basic tools including tape measures, wrenches, pliers, hammers, screwdrivers etc., testing instrumentation, writing utensils, paperwork/files, telephone handset, office supplies, standard office tools, cameras, and other related items,
Average Frequency: 2 to 3 hours.
Maximum Frequency: Average frequency is consistent.
Duration: Seconds to 15 minutes at a time.
Distance: 0 to 50 yards.
Height: Ground to shoulder or above.
Description: Performs while utilizing basic tools including tape measures, wrenches, pliers, hammers, screwdrivers etc., testing instrumentation, a writing utensil to complete paperwork, using a telephone, handling paperwork or files, office supplies, and other related items.

11 to 25 lbs.

Objects: File box, supplies, fire extinguishers, SCBA equipment.
Average Frequency: 1 to 2 times per week.
Maximum Frequency: Up to 10 times, during special projects.
Duration: Seconds at a time.
Distance: Up to 15 feet.
Height: Ground to shoulder or above.
Description: Performs while retrieving and relocating a file box, supplies, fire extinguishers, SCBA equipment.

26 to 50 lbs.

Objects: File box, equipment, materials, fire extinguishers, SCBA equipment.
Average Frequency: 2 to 3 times per week.
Maximum Frequency: Up to 10 times, during special projects.
Duration: Seconds at a time.
Distance: Up to 15 feet.
Height: Ground to waist level.
Description: Performs while retrieving and relocating a file box, equipment, materials, fire extinguishers, SCBA equipment.

51 to 75 lbs.

Not a job requirement.

76 to 100 lbs.

Not a job requirement.

100+ lbs.

Class Description: Operations Compliance Supervisor

Not a job requirement.

Simple Grasping

Average Frequency: 2 to 3 hours.
Duration: Seconds to 15 minutes at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Description: Performs while handling paperwork and files, handling office supplies, using a telephone handset, driving in conjunction with maneuvering a steering wheels using carts, dollies or transporting projectors, using a variety of basic tools to maintain signs and markings, during field investigations, and performing other described job duties. Unilateral or bilateral hand use.

Power Grasping

Average Frequency: 5 to 10 minutes.
Duration: Seconds at a time.
Maximum Frequency: Average frequency is consistent.
Duration: N/A
Description: Performs while retrieving and relocating a file box, fire extinguishers, confined space entry equipment, using basic tools, maintaining signs and markings including using wrenches, pliers, screwdrivers, hammers etc., and performing other described job duties. Bilateral hand use.

Fine Manipulation

Average Frequency: 2 $\frac{1}{2}$ to 3 hours.
Duration: Seconds to 30 minutes at a time.
Maximum Frequency: 4 to 4 $\frac{1}{2}$ hours.
Duration: Seconds to 30 minutes at a time.
Description: Performs while maintaining signs including handling hardware, using basic tools, handling instruments including performing calibrations, utilizing a computer keyboard and input device to enter or retrieve data, which includes a combination of fine manipulation and simple grasping, sorting and handling paperwork, pressing telephone buttons to make outgoing calls, operating office equipment by pressing buttons, using writing utensils to complete paperwork, using a digital camera, and performing other described job duties. Unilateral or bilateral hand use.

MACHINES/TOOLS

Writing utensils
Computer
Standard office equipment including copy and fax machines, scanners and printers, laminator, shredder
Telephone
Standard office tools including staplers, stapler removers and other related items
Vehicle
Camera
Cart or dolly
Confined space entry equipment
Basic tools, wrenches, tape measures, pliers, hammers, screwdrivers
Testing instrumentation

PERSONAL PROTECTIVE EQUIPMENT

Depending on the exposure, the employee is required to wear hearing, foot, eye, respiratory, head protection, raingear, and a Tyvex suit.

Incumbents in this class are required to be clean-shaven as required to wear respiratory protection or other safety equipment.

WEIGHTS AND MEASURES

None.

NOTICE: The Examples of Functions, responsibilities, work environment, physical demands etc. listed in this Job Analysis are representative only, and not exhaustive of the tasks that an employee may be required to perform.



Policy No.: P700-18-3	Type of Policy: Personnel
Policy Title: New/Revised Job Classifications and Salary	
Policy Description: Non-standard job classifications and/or salary requiring Board approval and adoption	
Approval Date: 8/19/2014	Last Review Date: 2018
Approval Resolution No.: 53-14	Next Review Date: 2022
Rescinded Resolution No.: 71-11	Rescinded Resolution Date: 11/15/2011

It is the policy of the Board of Directors of Dublin San Ramon Services District:

The General Manager may approve new or revised job titles, job definitions, and job duties for all standard job classifications except senior level management. Job titles, job definitions and job duties for all senior management positions shall be presented to the Board by the General Manager for approval and adoption.

For all positions, including senior level management, the General Manager shall present the salary range to be applicable to any new or revised job classification to the Board for approval and adoption. The proposed salary range for a job classification shall be consistent with District compensation structure and/or applicable Memoranda of Understanding (MOU). In the event that an approved salary range for a job classification is determined to be insufficient to recruit a qualified employee due to the unique nature of the job classification and/or due to a difficult labor market and the recommended salary for the job classification is outside the parameters contained in a MOU, the General Manager shall recommend and submit for Board approval a revised monthly salary range which is in best keeping with District practices and priorities. No new or revised salary range shall be applicable to a classification until approved by the Board. Upon approval of any new or revised salary range, the District's salary plan shall be updated in accordance with the District's Salary Plan policy.

Policy is current and no changes need to be adopted by the Board of Directors. <u>Status Quo Chronology:</u>	
Date Adopted:	
August 19, 2014	
Reviewed by Committee or Board:	Date:
Board	December 4, 2018

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING THE SALARY RANGE FOR THE NEW OPERATIONS COMPLIANCE SUPERVISOR JOB CLASSIFICATION

WHEREAS, the General Manager has authority to approve new or revised job titles, job definitions, and job duties for all standard job classifications except senior level management as described in Resolution No. 53-14; and

WHEREAS, the District has a need for a qualified Operations Compliance Supervisor in the Operations Support Services Division to oversee regulatory compliance and environmental, health, and safety programs for the Operations Department; and

WHEREAS, the Operations Compliance Supervisor job classification is subject to the provisions of the Memorandum of Understanding between the District and the Mid-Management Employees' Bargaining Unit (MEBU) dated December 18, 2017; and

WHEREAS, all meet and confer obligations have been met by the District and the MEBU; and

WHEREAS, for all positions, including senior level management, the General Manager shall present the salary range to be applicable to any new or revised job classification to the Board for approval and adoption.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, that the salary range for the Operations Compliance Supervisor is set to \$13,396/month - \$16,283/month.

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary



TITLE: Appoint Jan R. Lee as Assistant General Manager and Adopt Personal Services Agreement

RECOMMENDATION:

The General Manager recommends the Board of Directors approve, by Resolution, Jan R. Lee as Assistant General Manager and adopt a Personal Services Agreement between the District and Jan R. Lee.

SUMMARY:

With the approval of the District's Operating Budget for Fiscal Years Ending 2020 and 2021, on July 2, 2019, the Board of Directors authorized the filling of the Assistant General Manager position. The intention was to provide sufficient resources to address a number of key tasks in the updated five-year Strategic Plan.

The District commenced an open, competitive recruitment and selection process. The process was conducted from August 2019 through January 2020, with consulting support provided by Heather Renschler, CEO and Executive Recruiter of Ralph Andersen & Associates. The recruiting process was impacted and delayed on two occasions because of last fall's Public Safety Power Shutoff events. The finalists were interviewed in early January, and the General Manager has made a selection of the top candidate for the position.

The proposed Personal Services Agreement (PSA) has been negotiated with the candidate Jan R. Lee for the position of Assistant General Manager. Compensation is specified in Exhibit A of the PSA, benefits are specified in Exhibit B, and supplementary benefits and conditions of employment are specified in Exhibit C. The initial salary will be \$218,568, potentially increasing after three years to be 7.5% above the top salary for the department head senior managers. The PSA also specifies a standard benefit package that is consistent with that provided to other District employees with two exceptions:

1. The PSA does not provide for a \$2,500 a year match to a deferred compensation plan by the District, which is a benefit received by all other District employees (except the General Manager).
2. The PSA provides for 80 hours of administrative leave to be credited to the employee upon start of employment with the District. Under the terms of the PSA, this administrative leave must be taken in 2020, and cannot be carried over or cashed out.

The PSA is attached to its approving resolution.

As a result of both the salary level at which the position is being filled, and the delay in filling the position in fiscal year ending (FY) 2020, there will be a budgetary savings (salary and benefits) of approximately \$218,000 in FY 2020. There will be budgetary savings of approximately \$6,000 in FY 2021.

Originating Department: Office of the General Manager	Contact: D. McIntyre	Legal Review: Yes
Cost: Savings of \$224,000 for FYE 2020 and FYE 2021	Funding Source: Water Enterprise (Fund 600) – 40% Administrative Overhead (Fund 900) – 60%	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input type="checkbox"/> Other (see list on right)		86 of 415

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING AND AUTHORIZING EXECUTION OF AN AGREEMENT FOR PERSONAL SERVICES BETWEEN JAN R. LEE AND DUBLIN SAN RAMON SERVICES DISTRICT

WHEREAS, Dublin San Ramon Services District (the "District") is a community services district established under the Community Services District Law (Government Code Section 61000 et seq.) governed by the District's Board of Directors (the "Board"); and

WHEREAS, pursuant to Government Code Section 61050 (a), the Board is required and empowered to appoint a General Manager for District; and

WHEREAS, the Board has authorized the General Manager to organize staff at all levels of the organization consistent with budgets and staffing limitations as adopted by the Board from time to time; and

WHEREAS, Government Code Section 61051 (b) grants the General Manager the power and duty to appoint, supervise, discipline, and dismiss District employees consistent with the employee relations system established by the Board; and

WHEREAS, the District Code exempts persons engaged under contract to supply expert, professional, technical, or other services from the District's classified service as that service is defined in District Code Section 6.10.010; and

WHEREAS, through the approval and execution of the "Agreement for Personal Services between Jan R. Lee and Dublin San Ramon Services District," a copy of which is attached hereto, marked Exhibit "A," and by this reference incorporated herein ("Agreement"), Jan R. Lee (hereafter "Manager") and District will thereby agree that Manager is a person engaged under contract to supply expert, professional, or other services and as such is and shall henceforth be exempt from the District's classified service upon and after the Effective Date of Agreement; and

WHEREAS, the General Manager desires to appoint and employ Manager to the job classification of Assistant General Manager and Manager desires to accept said appointment and employment subject to the terms and conditions of Agreement.

NOW THEREFORE BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

Res. No. _____

1. That certain Agreement titled, "Agreement for Personal Services between Jan R. Lee and Dublin San Ramon Services District," a copy of which is attached hereto, marked Exhibit "A," and by this reference incorporated herein, is hereby approved, and the General Manager and District Secretary are hereby authorized and directed to execute, and to attest thereto, respectively, said Agreement for and on behalf of the District.

2. Consistent with Government Code Section 61051 (b) and the employee relations system established by the Board, the General Manager's authority to exercise the power and duty to appoint, supervise, discipline, and dismiss District employees is hereby confirmed.

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary

AGREEMENT FOR PERSONAL SERVICES

JAN R. LEE

THIS AGREEMENT FOR PERSONAL SERVICES (“Agreement”), is made and entered into this 2nd day of March, 2020 (the “Effective Date”) by and between the Dublin San Ramon Services District, a public agency of the State of California in the Counties of Alameda and Contra Costa (“District”), and Jan R. Lee (“Manager”).

WITNESSETH:

WHEREAS, District is a community services district established under the Community Services District Law (Govt. C. § 61000 et seq.) governed by District’s Board of Directors (the “Board”); and

WHEREAS, pursuant to Government Code Section 61240 (a) the Board is required and empowered to appoint a General Manager for District; and

WHEREAS, Board has authorized General Manager to organize staff at all levels of the organization consistent with Board adopted budgets and staffing limitations; and

WHEREAS, the Community Services District Law grants the General Manager the power and duty to appoint, supervise, discipline and dismiss District employees consistent with the employee relations system established by the Board; and

WHEREAS, the District Code exempts persons engaged under contract to supply expert, professional, technical or other services from the District’s classified service as that service is defined in District Code Section 6.10.010; and

WHEREAS, with the approval and execution of this Agreement, Manager and District agree that Manager is a person engaged under contract to supply expert, professional or other services and as such is exempt from the District’s classified service upon the Effective Date of this Agreement; and

WHEREAS, the General Manager desires to appoint and employ Manager to the below referenced job classification of Assistant General Manager and Manager desires to accept said appointment and employment subject to the terms and conditions of this Agreement.

NOW, THEREFORE, the District and Manager hereto agree as follows:

1. SERVICES From and after the Effective Date, Manager shall perform all duties, assume all obligations and constantly meet all qualifications of the Assistant General Manager job classification as that job classification exists as of the Effective Date and as it may, from time to time, be amended by the District. Manager shall be subject to all pertinent provisions of the ordinances, resolutions, rules, regulations and all other lawful orders and directives of the General Manager, the District, and the Board. Said duties and obligations shall be performed in an efficient and professional manner and in conformance with the standards generally prevailing for the performance of the duties and obligations pertaining to the position of similar managerial positions of public or private entities, including, but not limited to, community services districts.

2. COMPENSATION The District shall provide compensation to Manager in the form of Base Salary and Deferred Compensation as specified in “Exhibit A” attached hereto and by this reference made a part hereof.

3. BENEFITS The District shall provide a benefits package to Manager consisting of a retirement program, various types of insurance and various types of leave as respectively specified in "Exhibit B" and in "Exhibit C," both attached hereto and by this reference made a part hereof.

4. AVAILABILITY AND COMMUNICATIONS

4.1 Continuous Availability Manager shall maintain a continuous presence or means of communication with District staff at all times, either in person or via telephone, cell phone, e-mail, and/or VPN. Allowance during off duty hours shall be made for social events or personal enjoyment. At such times Manager shall ensure that duties have been properly and appropriately delegated to qualified District staff. If District is unable to contact Manager in a reasonable time for reasons beyond the Manager's control such as on-duty or off-duty air travel, Manager's presence in areas without cellular, phone service, email access, international travel or other similar circumstances, Manager's inability to maintain continuous availability shall not be considered a breach of this agreement or grounds for termination for cause.

4.2 Manager Furnished Communication Device As of Effective Date, Manager shall be issued a District-owned mobile device (e.g. smart phone) with cell phone, e-mail, and VPN functionality for District business use in accordance with District technology use policy. Email and VPN functionality can be provided by use of the District- provided notebook or tablet computer.

4.3 Notebook or Tablet Computer The District shall provide Manager with use of a notebook or tablet computer (such as a Surface Pro or equivalent) for District business-use in accordance with District technology use policy. The equipment so provided is the property of the District and the District shall have the right to control the access to, and use of, equipment through its personnel policies, risk management policies or any other policies, and shall also provide Information Technology support as needed to facilitate performance of Manager duties and obligations as an employee of the District.

5. TERMINATION

5.1 Service at Pleasure of the District It is understood and agreed that as of Effective Date Manager shall, and does, hold position of employment as such at the will and pleasure of the District and shall not have nor acquire a property interest or right to continuing employment, except as described below. Manager further agrees that Manager's employment as a person engaged under contract to supply expert, professional, technical or other services exempts Manager from the District's classified service as that service is defined in District Code Section 6.10.010.

5.2 Termination by District for Cause Nothing herein provided shall be deemed to affect or limit the right of District to terminate Manager's employment for cause, or otherwise to exercise District's rights, whether in law or in equity, by reason of breach hereof by Manager or for any other cause. "Cause" as used herein shall include, but not necessarily be limited to: below standard performance; refusal or failure to act in accordance with a specific written directive or order of the General Manager provided that such directive or order is legal; malfeasance or misfeasance in office; conviction of any felony or any crime involving moral turpitude; unauthorized absence; incompetence or inefficiency; insubordination; performance of duties or obligations as Manager while intoxicated or under the influence of drugs, narcotics, other substances, the use, dispensing, or sale of which is prohibited or controlled by the State of California; neglect of duty; breach of this Agreement or any similar or like act or omission. Notwithstanding the use of the term "cause" herein, nothing herein contained shall be deemed to create or

establish a property right or a right to continuing employment in the position of employment of Manager or affect District's right to terminate the employment of Manager with or without cause.

In the event of termination for cause, District shall not be obligated to compensate Manager in any amount except for services already rendered, including paid leave accrued in Manager's Employee Leave Bank, prior to the date of termination; provided that payment of such compensation shall not bar District's recovery of such damages as may accrue to District under the circumstances, nor shall termination for cause preclude District from exercising any other right or remedy it may have, whether in law or equity, which may accrue to District under the circumstances giving rise to such termination, or otherwise.

5.3 Termination at Discretion of District

5.3.1 Process At District's sole discretion, District may terminate this Agreement and Manager's employment without cause and in accordance with this paragraph by giving written notice of its intent thereof to Manager which notice shall specify the effective date on which Manager shall no longer act in said capacity. Any notice provided in accordance with this section shall be deemed given on the date it is given by District. No minimum amount of notice is required. Upon notice, District shall place Manager in paid administrative leave status from the date of said notice to the effective date specified in that notice. Nothing herein provided in this paragraph or this Agreement constitutes an appeal procedure for the Manager of termination in accordance with this provision.

5.3.2 Severance Upon the effective date of termination by the District, District shall compensate Manager in a lump sum amount equal to four (4) months' base salary. Manager's benefits shall continue after termination for the period of time for which premiums have been paid before the effective date of termination. In addition, District will pay the same amount as it was paying on behalf of the Manager prior to termination towards the Manager's first four (4) months of COBRA premiums for health, dental and vision insurance benefits as described in Exhibit B for a period of four (4) months after District benefits lapse unless Manager chooses to retire from District Service within 120 calendar days of termination in which case these benefits, including COBRA premiums being paid by District shall cease upon retirement or revert to benefits to be provided in retirement in accordance with "Exhibit B."

This section is intended to comply with Section 53260 et seq. of the California Government Code. This severance payment shall be made within thirty (30) days of the effective date of the termination, and is subject to applicable withholdings.

5.4 Termination by Manager At Manager's sole discretion, Manager may terminate this Agreement at any time upon minimum thirty (30) calendar days' prior written notice to District in accordance with Section 8. Any notice provided in accordance with this section shall be deemed given on the date it is given by Manager. Such termination shall be effective on the date specified in the notice unless the date is less than thirty (30) calendar days from receipt of the notice by the District in which case the date of termination shall be thirty (30) calendar days from receipt of notice by the District. In the event Manager terminates the Agreement in accordance with this provision, Manager shall not be entitled to severance or other benefits or COBRA payments beyond the date of termination, but the District shall, consistent with its rules and regulations, pay Manager for salary earned and accrued "Employee Leave Bank (ELB)" and accrued benefits through the effective date of termination. In the event during the period covered by the notice, the District terminates the Agreement in accordance with Section 5.3, severance shall be reduced to a lump sum amount equal to one-half of one month's salary.

5.5 Mutual Termination This Agreement may be terminated at any time by mutual written consent of the District's General Manager and Manager. In the event of mutual termination in accordance with this provision, Manager shall not be entitled to severance or other benefits beyond the date of termination, but the District shall, consistent with its rules and regulations, pay Manager for salary earned and accrued employee leave and accrued benefits through the effective date of termination.

5.6 Termination is Final This Agreement, the Manager's employment and the District's obligations to compensate the Manager excepting benefits which are specifically identified to continue into retirement shall cease on the effective date of Manager's termination.

Pursuant to California Government Code Section 53260, in no event shall Manager receive a settlement that exceeds Manager's monthly salary multiplied by eighteen (18).

Pursuant to California Government Code Section 53243.2, any lump sum severance payment or other non-contractual payments related to termination paid to Manager under Section 5 of this Agreement shall be fully reimbursed by Manager to the District if Manager is convicted of a crime involving an abuse of office or position. For purposes of this Agreement, the phrase "abuse of office or position" shall have the meaning set forth in Government Code Section 53243.4.

6. STATUS Manager shall have the status of an employee of District, subject to all terms and conditions of employment pertaining to the job classification and position under the ordinances, resolutions, rules, regulations, or other lawful directives or orders of District or the Board; provided, however, that in the event of any conflict between such ordinances, resolutions, rules, regulations, directives or orders, and the provisions of this Agreement, the provisions of this Agreement shall prevail. To the extent not modified or otherwise provided in this Agreement, the District and Manager hereto agree that the provisions of said ordinances, resolutions, rules, regulations, or other lawful directives or orders pertaining to the relationship of employment between the District and its employees, shall also pertain to Manager. Notwithstanding any other provision, Manager shall serve as the pleasure of the District and may be discharged at any time with or without cause.

7. APPEALS Manager may appeal any action of the General Manager under Section 5.2 Termination for Cause to the District Board of Directors which may refer, but is not obligated to refer, the matter for investigation to a Board Committee. Said appeal shall be in writing and shall be timely filed within ten (10) calendar days of the General Manager's action that is being appealed. An untimely filing shall be deemed denied with no further right of appeal. Any appeal meeting may be in closed session, unless the Manager asks that it be in open session. Decisions by the Board of Directors shall be binding and final.

8. NOTICES All written notices required to be given hereunder shall be delivered personally or by depositing the same with the United States Postal Service, first class (or equivalent) postage prepaid, addressed, in the case of General Manager, to:

General Manager
Dublin San Ramon Services District
7051 Dublin Blvd.
Dublin, CA 94568

and, in the case of Manager to the most recent address on record in the District's records. Notices delivered personally shall be deemed received as of actual receipt; mailed notices shall be deemed received as of one business day following the date of mailing of the notice.

Any party may change its address for the purpose of this section by giving written notice of such change to the other party in the manner herein provided.

9. ORIGINAL COUNTERPARTS This Agreement shall be executed in duplicate original counterparts, each of which, when executed, shall be deemed an original agreement.

10. PARAGRAPH HEADINGS Paragraph headings and titles of attachments as used herein are for convenience only and shall not be deemed to alter or modify the provisions of the paragraph headed thereby.

11. TERM The term of this Agreement shall be indefinite subject to the provisions of the Termination Section.

12. AMENDMENT This Agreement may be amended only by a written document executed by each party hereto. Approximately three months prior to the end of any calendar year, either party may request an amendment to any part of this Agreement. The other party is under no obligation to accept such proposed amendment.

13. ENTIRE AGREEMENT This Agreement integrates, includes, and supersedes all prior agreements, understandings, whether written or oral, whether mutual or unilateral on the part of either party. This Agreement constitutes the only and entire agreement between District and Manager. Each party to this Agreement acknowledges that no representations, inducements, promises, or agreements, oral or otherwise, have been made by any party, or anyone acting on behalf of any party, that are not embodied herein, and that no agreement, statement, or promise not contained in this Agreement shall be valid or binding on either party.

IN WITNESS WHEREOF, the District and Manager hereto have executed this Agreement as of the Effective Date.

DUBLIN SAN RAMON SERVICES DISTRICT,

A public agency of the State of California

By: _____

Daniel B. McIntyre, General Manager

Attest: _____

Nicole Genzale, District Secretary

By: _____

Jan R. Lee, "Manager"

EXHIBIT A

COMPENSATION

1. BASE SALARY

1.1 Initial Base Salary Commencing on the Effective Date of this Agreement District shall compensate Manager a base salary of \$18,214 per month (\$218,568 annually), payable in bi-weekly installments in accordance with District's standard payroll procedures.

1.2. Annual Cost of Living Base Salary Adjustments Subject to satisfactory performance as determined by the General Manager, Manager's base salary shall be adjusted effective on the first day of the first pay period of Calendar Year 2021 by 2.75%.

1.3 Annual Merit Increase Adjustment Subject to satisfactory performance as Assistant General Manager and accomplishment of goals as assigned by the General Manager, at the discretion of the General Manager and upon Board approval, Assistant General Manager shall be eligible to receive a merit increase in base salary (after cost of living adjustment [COLA] has been applied in calendar year 2021 only), in the amount of five percent (5.0%) on the first day of the first pay period of calendar year 2021, 2022 and 2023. Assistant General Manager is not automatically entitled to an annual merit increase adjustment. The General Manager, within his discretion, may still determine no merit increase is warranted.

2. DEFERRED COMPENSATION

2.1. Plan Existence and Participation The District and Manager acknowledge that as of the Effective Date the District provides a Deferred Compensation Plan pursuant to an agreement or agreements with financial institution(s) qualified to provide such plans under the statutes of the United States Internal Revenue Code. Subject to the terms and conditions of such agreement(s) and the Deferred Compensation Plan collectively thereby established, the District and Manager acknowledge that Manager shall be eligible to participate in said Plan as Manager shall determine. Nothing herein contained shall be deemed to limit the Board's discretion to revise, amend, or terminate said Plan, nor shall District be deemed obligated to replace said Plan in the event of its termination.

2.2. District Matching Contribution Manager may participate in the District-sponsored deferred compensation (457) plan on a voluntary basis in accordance with the IRC maximum contribution limitations. Manager is not entitled to, nor shall the Manager receive any matching contributions from the District.

EXHIBIT B

RETIREMENT, HEALTH & WELFARE PLANS/INSURANCE AND LEAVE BENEFITS

1. RETIREMENT

1.1 Program District shall furnish Manager with retirement benefits through the California Public Employees Retirement System (“PERS”) under contract with PERS entered into pursuant to Government Code Sections 20450 et seq. Manager has been identified as a “classic” member. District shall provide a retirement plan with the following benefits: 2.7% at 55 benefit formula with modified social security coverage, 12 month final average compensation period, sick leave credit, standard non-industrial disability coverage, Optional Settlement 2W pre-retirement death benefits, \$500 lump sum post-retirement death benefits, and 2% COLA option.

1.2 Manager’s Share Manager shall pay the Manager’s seven (7.0) percent employee share plus the one (1.0) percent statutory employee contribution for the enhanced retirement formula plus an additional two (2.0) percent (total of 10.0%) from the Effective Date through the first pay period ending in 2025. After that date, Manager shall no longer pay the additional two (2.0) percent which percent shall be paid by the District. Manager and District acknowledge that substantially similar provisions are included in memoranda of understanding and contracts with all other District employees. If the District agrees to modify those provisions for any employee or employee group, Manager agrees that the District will similarly amend this Agreement and Manager will agree to those amendments.

1.3 Program Revisions In the event that the retirement program described in Section 1.1 of this Exhibit B is (a) modified or terminated by the District or (b) modified, terminated or no longer offered by the State, Manager and District shall negotiate in good faith an amendment to this Agreement.

1.4 IRS 414(h)(2) Program The District shall maintain an IRS 414(h)(2) Plan during the term of this Agreement.

2 HEALTH & WELFARE/INSURANCE

2.1 Medical Insurance

2.1.1 Availability The District is committed to providing medical insurance to Manager. The District currently obtains its medical insurance through CalPERS and shall endeavor to continue that coverage through 2021. If it is unable to do so, the District will endeavor to obtain coverage that is comparable to the CalPERS program coverage. The District shall endeavor to provide a medical insurance program that has at least two choices for coverage for Health Maintenance Organizations (HMO) and two choices for Preferred Provider Organizations (PPO) Plans.

2.1.2 Premiums District shall pay Manager’s medical insurance premiums up to a maximum amount not to exceed the District “Maximum Contribution” for each level (employee only, employee plus one dependent, and employee plus two or more dependents).

Payment by District shall be for employee or employee plus eligible dependents, whichever represents the employee’s situation. Manager shall pay the balance of the cost incurred in excess of the medical insurance premium Maximum Contribution. If the medical insurance premium of the plan Manager selects is less than the District Maximum Contribution, the District shall only pay the amount of the premium cost of the selected plan.

The District medical insurance premium Maximum Contribution for calendar year 2020 is as follows:

	Employee Only	Employee + 1 Dependent	Employee + 2 or more Dependents
District Maximum Contribution	\$780.00	\$1,560.00	\$2,028.00

Effective January 1, 2021, Manager will share in the cost of future medical insurance premium increases above the Kaiser rate as described in the example below.

Each year, cost increases in the Kaiser medical insurance premium rates will be shared 50% by the District and 50% by Manager. For calendar year 2021, the Kaiser premium rates for 2021 will be compared to the District Maximum Contribution for 2020; if the Kaiser rate is higher than the 2020 District Maximum Contribution, then the new District Maximum Contribution will be calculated by adding 50% of the increase to the Kaiser 2020 premium rate to establish the Maximum Contribution for calendar year 2021.

If the Kaiser premium rate for 2021 is less than the District Maximum Contribution for 2020, then the District Maximum Contribution rate for calendar year 2021 will be:

	Employee Only	Employee + 1 Dependent	Employee + 2 or more Dependents
District Maximum Contribution	\$780.00	\$1,560.00	\$2,028.00

EXAMPLE

	Premium	Increase from Maximum Contribution	DSRSD Share of Increase	Manager Share of Increase	District Max Contribution
Max Contribution 2020	\$ 2,028				
Kaiser Rate 2021	\$ 2,195	\$ 167	\$ 83.50	\$ 83.50	\$ 2,112

Manager will pay those amounts in excess of the District medical insurance premium Maximum Contribution and the premium of the plan he or she selects. District Maximum Contribution amounts will be rounded up to the nearest dollar.

2.1.3 Employer Contribution for Retiree Medical Insurance Benefits District shall contract with CalPERS to provide Manager with retiree medical insurance benefits. The benefit that shall be provided is the CalPERS Vesting Program for Retiree Health Care (CA Government Code Section 22893), and in accordance with Resolution 65-05. In addition to other requirements of that Vesting Program, Manager acknowledges Manager's understanding that, in addition to other

requirements for Manager's qualification as determined by CalPERS, Manager must retire from the District and must have at least five (5) years of service with the District.

2.1.4 Changes to the Law In the event Federal or State legislation that provides health care coverage for Manager is enacted into law prior to 2020, or any subsequent year thereafter, and such legislation has an adverse impact on either party, the District and Manager shall negotiate in good faith an amendment to Agreement related to the impact of such legislation on the Agreement.

2.1.5 Waiver of Coverage Consistent with District's Share the Savings Program, and subject to any limitations of the law, Manager may elect Affordable Care Act (ACA) compliant group health insurance coverage elsewhere and elect in writing to forgo medical coverage through the District and receive a contribution to Manager's deferred compensation 457 plan in the amount of three hundred and fifty dollars (\$350) per month (payable bi-monthly). Manager must make the election for herself and Manager's dependents. This contribution amount to Manager's deferred compensation 457 plan shall not count toward the District's deferred compensation match per Exhibit A, Section 2.2 to this Agreement.

2.2 Dental The District shall provide dental care benefits covering Manager, spouse, and eligible dependents. Dental care benefits will not be provided to Manager after retirement from the District.

2.3 Vision The District shall provide Manager with vision care benefits covering Manager, spouse, and eligible dependents. Vision care benefits will not be provided to Manager after retirement from the District.

2.4 Basic Term Life Insurance

2.4.1 Amount The District shall provide Manager with Life Insurance. The amount of the life insurance to be provided shall be equal to two (2) times Manager's annual salary, rounded up to the nearest \$1,000 to a maximum of \$400,000. The imputed cost of coverage in excess of \$50,000 will be included in Employee's income, using the IRS Premium Table, and are subject to applicable Federal and State taxes.

2.4.2 Additional Coverage In addition to the life insurance provided at District expense, the District shall make arrangements for Manager to purchase additional life insurance for his/herself, his/her spouse, or his/her eligible dependents at Manager's cost.

2.4.3 Life Insurance During Retirement Life Insurance will not be provided to Manager in retirement.

2.5 Short Term Disability The District shall provide Manager with Short-Term Disability Insurance. The Short-Term Disability Insurance shall provide for sixty percent (60%) of regular weekly salary, to a maximum of \$1,667 weekly benefit, after a 29-day waiting period. Benefits continue for a maximum of one year, if totally disabled. Integration of short-term insurance benefits and sick leave is to be automatic; the District may not waive integration. Short Term Disability Insurance benefits cease the day the termination of Manager occurs.

2.6 Long Term Disability The District shall provide Manager with Long -Term Disability Insurance. Long Term Disability Insurance shall provide 70% of regular monthly base salary (i.e., excluding any other compensation, including deferred compensation and matching contributions), to a maximum of \$10,000 monthly benefit, after 365 calendar days of short term disability coverage. Long Term Disability Insurance benefits cease the day the termination of employment occurs.

2.7 Changes to Providers of Health and Welfare Benefit Plans The District intends to periodically evaluate the Health and Welfare plans currently available to employees to determine if similar or better coverage may be available at lower cost to the District. While District will endeavor to obtain similar or better coverage, Manager agrees that the District may, within its discretion, substitute new insurance carriers, provide different levels of coverages, or arrange for self-insurance.

3. FLEXIBLE BENEFITS/IRS SECTION 125 PLAN

District shall provide a Flexible Benefits Plan in accordance with IRS Section 125. The District shall allow employee contributions by the Manager to the maximum extent permitted by law as well as allowable pre-tax deductions for employee-paid premiums associated with eligible health care costs.

4. LEAVE BENEFITS

4.1 Employee Leave Bank (“ELB”)

4.1.1 Definition Employee Leave Bank (“ELB”) is paid leave provided to Manager on an accrual basis to be used for personal time away from work and in accordance with Personnel Rule for Vacation/ELB.

4.1.2 Employee Leave Bank Accrual Rate Manager shall accrue time in the Employee Leave Bank at the rate of 9.23 hours each biweekly pay period (30 days per year based on eight hour work days) which rate of accrual shall increase one (1) day per year on the anniversary of the Manager’s original hire date up to a maximum accrual rate of 12.31 hours each biweekly pay period (40 days per year based on eight (8) hour work days), in accordance with the table below:

Year	Vac	FH	Admin	Total Days	Total Hours	Per PP
1-26 (1st year)	15	5	10	30	240	9.23
27-52 (2nd year)	16	5	10	31	248	9.54
53-78 (3rd year)	17	5	10	32	256	9.85
79-104 (4th year)	18	5	10	33	264	10.15
105-130 (5th year)	19	5	10	34	272	10.46
131-156 (6th year)	20	5	10	35	280	10.77
157-182 (7th year)	21	5	10	36	288	11.08
183-209 (8th year)	22	5	10	37	296	11.38
210-235 (9th year)	23	5	10	38	304	11.69
236-261 (10th year)	24	5	10	39	312	12.00
262-287 (11 th year)	25	5	10	40	320	12.31

4.1.3 Maximum Leave Bank Accrual The maximum amount of leave in the Employee Leave Bank shall no greater than an amount representing two years of leave accrual at any given time.

4.1.4 Employee Leave Bank Sell Back Manager shall have an option to annually sell back up to 80 hours of leave from Manager’s Employee Leave Bank; said option shall be exercised no more than one time in a calendar year provided that there are at least eighty (80) hours remaining after such sell back.

4.1.5 Use of Employee Leave Bank All Employee Leave Bank Leave shall be scheduled at the discretion of the General Manager; approval will not be unreasonably withheld.

4.2 Holidays Manager shall be entitled to nine (9) days' holiday leave (based on eight (8) hour work days) in accordance with District's personnel rules and regulations pertaining to holidays, as may be amended from time to time.

4.3 Sick Leave

4.3.1 Benefits Manager shall carry forward under this Agreement all accrued sick leave that accrued prior to the Effective Date. Manager shall accrue sick leave at the rate of eight (8) hours per month credited in hours per pay period. Sick leave usage shall not be considered as a privilege which Manager may use at his/her discretion, but shall be allowed only in case of necessity of sickness or disability in accordance with state law and the District Personnel Rules, or for Manager's dental, eye, or other physical or medical examination or treatment by a licensed practitioner.

4.3.2 Use of Sick Leave Manager may use sick leave on an hour for hour basis (or fraction thereof) in any pay period that she has not worked her scheduled hours. Sick leave may not be used before it is credited.

4.3.3 Health Care Provider's Certificate When the Manager is absent due to his/her own illness or health condition for more than five (5) consecutive workdays, Manager shall submit to General Manager and/or Human Resources a certification from a health care provider stating that the Manager is unable to work due to illness or health condition and the anticipated date of Manager's return to work.

4.3.4 Illness of Family Member Manager shall be entitled to use sick leave consistent with the Paid Sick Leave law, Labor Code sections 245-249, and Kin Care law, Labor Code section 233.

4.3.5 Family and Medical Care Leave Family and Medical Care leave shall be administered in accordance with State and Federal Law.

4.4 Jury Duty Leave If Manager is summoned to jury duty, Manager shall notify General Manager and Human Resources and if required to report and/or serve, may be absent from duty with full pay only for those hours required to report and/or serve.

4.5 Bereavement Leave In the event of a death in the immediate family of Manager, Manager shall, upon request, be granted such time off with pay as is necessary to make arrangements for the funeral and attend same, not to exceed three (3) regularly scheduled workdays. The immediate family shall be restricted to father, mother, brother, sister, spouse, child, mother-in-law, father-in-law, grandparents, grandchildren, and stepchild in those cases where a direct child-rearing-parental relationship may be demonstrated. At the request of the General Manager, Manager shall furnish a death certificate and proof of relationship. Sick leave shall not be used in lieu of Bereavement Leave.

EXHIBIT C

SUPPLEMENTAL BENEFITS AND SPECIAL CONDITIONS OF EMPLOYMENT

1. CERTIFICATE REIMBURSEMENT – PROFESSIONAL ENGINEER’S (PE) LICENSE

Per pre-employment negotiation, and during the term of this Agreement and Manager’s employment with the District, Manager will be reimbursed for the bi-annual license renewal fee only for maintenance of Manager’s Professional Engineer’s (PE) license. Reimbursement procedures are in accordance with the District Personnel Rule for Certificate Reimbursement Program.

2. PRE-EMPLOYMENT NEGOTIATED ADMINISTRATIVE LEAVE

Per pre-employment negotiation, Manager will be granted a special one-time credit of administrative leave in the amount of 80 hours. This one-time credit of administrative leave is an incentive to accept employment. The one-time 80-hour grant of administrative leave must be used by December 24, 2020 or forfeited. Use of Administrative Leave is subject to District Personnel Rules and is not eligible for cash-out as described in Section 4.1.4 of Exhibit B, Employee Leave Sell-Back. This special, one-time credit will not occur on an annual basis.



TITLE: Approve Continuation of Emergency Action Procurement by General Manager for Repair of the District Office and Find that the Need for the District Office Flooding Emergency Still Exists

RECOMMENDATION:

Staff recommends the Board of Directors approve, by Motion, a continuation of the Emergency Action as declared in Board Resolution No. 53-18 and find that there exists a need for continuing the District Office flooding emergency which the Board last confirmed on January 7, 2020.

SUMMARY:

On November 11, 2018, the District Office flooded due to a leak in the building's fire service line. The General Manager, as the District's Emergency Manager per the District's Emergency Response Plan policy, immediately proclaimed a District State of Emergency to reduce potential further property damage due to water exposure and to minimize the time to restore core business operations.

Per the District's Purchasing policy, in case of an emergency and in accordance with Public Contract Code Section 22050, the General Manager may let contracts for any amount without giving notice for bids for repair or replacement of a public facility, and procure the necessary equipment, services, and supplies for those purposes. Resolution No. 53-18 was adopted by the Board of Directors on November 20, 2018, approving emergency action procurement by the General Manager for restoration of the District Office.

The District Office Renovation Project (CIP 19-A005), which is a part of the Capital Improvement Program (CIP), includes the restoration of the building, as well as renovations for the District Office. The building restoration work will be reimbursed through an insurance claim, and the renovation work will be paid through CIP project budgets. A summary of the contracts entered under the emergency action is attached.

The District Office is closed until further notice. Displaced District Office staff are now assigned to the Field Operations Facility. District administrative operations and customer service have been hampered in the following ways:

- The Board's customary meeting place for Board meetings is unavailable for use, inconveniencing the public who might wish to attend Board meetings;
- Customer service functions related to "in-person" bill payment have been suspended;
- There is minimal meeting space for staff for internal meetings, to meet with developer representatives and contractors, and to confer with other agency personnel;
- Natural work efficiencies are degraded with District Office staff working in ad hoc workspaces at the Field Operations Facility;
- Many supervisory staff have lost use of their individual offices for confidential meetings pertaining to performance management, coaching, and recruiting; and
- Through relocation of staff to the Field Operations Facility Training Room, space for large group training activities has been lost.

Based on the above consequences of the District Office being closed for restoration and repair, staff is requesting the Board of Directors find that there still exists a need for continuing the State of Emergency reflected by Board Resolution No. 53-18. Per the Public Contract Code, at every regularly scheduled meeting following the initial emergency action, the Board shall review and determine by a four-fifths vote, the need to continue the emergency action. Staff, therefore, recommends that the Board of Directors confirm the need to continue the State of Emergency.

Originating Department: Engineering Services	Contact: J. Ching	Legal Review: Not Required
Cost: \$0	Funding Source: Insurance Claim	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input checked="" type="checkbox"/> Other (see list on right)	Attachment 1 – Summary of Contracts	

**District Office Renovation
Summary of Contracts**

Vendor	Service/Contract Type	Contract Amount
Restoration Management Company	Emergency Restoration, Contents Inventory and Storage	\$ 579,387.74
VIP Security	Building Security	\$ 16,750.00
Cal Engineering & Geology / HDR	Engineering Services for Concrete Slab Repair	\$ 91,328.28
Overaa Construction	Construction Services for Fire Riser and Concrete Slab Repair	\$ 224,374.46
ID Architecture	Architectural Design Services, Construction Management Services	\$ 167,750.00
Sausal Corporation	Design-Build Services	\$ 4,187,206.00
Swinerton Management and Consulting	Construction Management	\$ 413,858.00
Omega/RHP Environmental	Environmental/Abatement Monitoring	\$ 12,885.46
CORT Furniture	Office Furniture Rental (FOF)	\$ 121,508.36
Sam Clar Office Furniture	New Office Furniture	\$ 427,212.65
Total Contract Amount		\$ 6,242,260.95



TITLE: Adopt Revised Social Media Policy and Rescind Resolution No. 27-12

RECOMMENDATION:

Staff recommends the Board of Directors adopt, by Resolution, the revised Social Media Policy and rescind Resolution No. 27-12.,

SUMMARY:

All District policies are reviewed periodically to ensure that they remain current and that the Board seated at that time continues to concur with that policy. The purpose of the Social Media policy is to establish appropriate use of and consistent standards for District-maintained social media accounts.

Since the policy (P200-12-1) was adopted in 2012, social media has gained in popularity, and the District has increased its use of social media to reach the public. Social media is a fast and cost-effective way for the District's customers to engage with the District and elected officials on issues that concern them. Social media platforms enable residents to learn from the District and from one another. Social media enables conversations that enhance the democratic process. These are all very positive features of social media. However, the use of social media does have risks. Because people can be anonymous, they sometimes are hostile on social media sites. If information is inaccurate, staff corrects it with a brief statement and then directs people to the District's website for more details. Sometimes other customers correct misinformation about the District, which can be more powerful coming from a third party than from the District.

Staff recommends completely rewriting the policy to address account management, right to restrict or remove content, and posts as public records. Attachment 1 shows the old text in strikethrough as well as the new text. The policy is scheduled for review again in 2024 if the Board adopts a revised policy this year.

Originating Department: Office of the General Manager	Contact: S. Stephenson	Legal Review: Yes
Cost: \$0	Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input type="checkbox"/> Other (see list on right)	Attachment 1 – Marked-up Social Media policy	



POLICY

Dublin San Ramon Services District

Policy No.:	P200-12-4	Type of Policy:	General
Policy Title:	Social Media		
Policy Description:	Establish <u>appropriate use of and</u> consistent standards for <u>District-maintained and ensure appropriate use of</u> social media <u>accounts</u> administered by the District.		

Approval Date:	June 19, 2012 2/4/2020	Last Review Date:	20122020
Approval Resolution No.:	27-12	Next Review Date:	20162024
Rescinded Resolution No.:	N/A27-12	Rescinded Resolution Date:	N/A6/19/2012

It is the Policy of the Board of Directors of Dublin San Ramon Services District:

To establish consistent standards for, and ensure appropriate use of, District sponsored social media sites (i.e., sites established and administered by the District).

- A. All official District presences on District sponsored social media sites are considered an extension of the District's network and are subject to all related District policies, including, but not limited to, policies and personnel rules on records retention, the web site, Board correspondence, and the use of electronic media.
- B. Only authorized individuals shall have permission to create, publish or comment on behalf of the District on District sponsored social media sites.
- C. The official web site for the District remains the District's primary and predominant internet presence, www.dsrsd.com
- D. District sponsored social media posts are a public record subject to disclosure under the California Public Records Act (Government Code § 6250 to 6270). Therefore, all material posted on District sponsored social media sites must be archived and managed in accordance with the applicable records retention schedule.
- E. All District sponsored social media sites will be established and administered in compliance with all applicable federal, state, and local laws.

The General Manager shall develop comprehensive rules in furtherance of this policy.

The purpose of this policy of the Board of Directors of the Dublin San Ramon Services District is to establish appropriate use of and consistent standards for District-maintained social media accounts.

1. General

The Dublin San Ramon Services District (DSRSD) shall use social media as an extension of its communications and outreach efforts. DSRSD has a presence on social media to do the following: disseminate time-sensitive information as quickly as possible, especially in an emergency; increase DSRSD's ability to communicate information to and receive feedback and inquiries from members of the public; be open and transparent about the services DSRSD provides; educate customers regarding regulatory and legislative issues; promote DSRSD's achievements, activities, and significant events; and ensure accurate information is conveyed regarding controversial and sensitive incidents and issues.

2. Account Management

The General Manager, through the Public Affairs Division, is responsible for managing DSRSD's social media accounts and monitoring pages regularly to respond to questions and comments, as well as to moderate inappropriate third-party content. DSRSD may also share relevant content from other social media platforms that it believes may be of interest or useful to DSRSD's followers.

Employees representing DSRSD through social media outlets must maintain a high level of ethical conduct and professionalism. Information they present must follow generally accepted standards for grammar and spelling, with limited jargon, be easy to understand, and encourage engagement by members of the public.

3. Right to Restrict or Remove Content

DSRSD's social media platforms serve as *limited public forums*, and all content is subject to monitoring. DSRSD reserves the right to remove user-generated content that includes or promotes:

- Off-subject or out-of-context material
- Obscene or profane language or content
- Sexual material or links to sexual material
- Personal identifying information, sensitive personal information, or confidential information
- Photographs or images of a featured minor without a verbal or written release from the minor's parent or legal guardian
- Threats, harassment, or discrimination, particularly on the basis of race, creed, color, age, religion, gender, gender identification, marital status, veteran status, national origin, sexual orientation, and physical or mental disabilities
- Violent or illegal activities

- Information that reasonably could compromise the safety or security of individuals, the public, public systems, or DSRSD employees
- Political candidates or campaigns not supported by the DSRSD Board of Directors and candidate or ballot measure advocacy that may violate Government Code Section 8314 regarding the use or permit to use public resources for a campaign activity, or personal or other purposes not authorized by law.
- Links to spam, commercial ventures, products, or other advertisements
- Copyright violation or legal ownership interest of any other party that could subject the District to liability for publishing the information

4. Public Records Law

Information posted on DSRSD's social media sites is subject to the California Public Records Act (Government Code Section 6250 *et seq.*) with respect to content maintained in a social media format related to DSRSD business, including communication posted by DSRSD and communication received from members of the public, and each such communication is a public record. The District Secretary is responsible for responding completely and accurately to any public records request for social media content.

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT REVISING THE SOCIAL MEDIA POLICY AND RESCINDING RESOLUTION NO. 27-12

WHEREAS, on June 19, 2012, by Resolution No. 27-12, the Board adopted a new Social Media policy because social networking holds great promise as a tool for the District to have a conversation with its customers regarding issues and services and to achieve the mission and goals of the District; and

WHEREAS, the revised policy better establishes consistent standards for and ensures the appropriate use of social media sponsored by the District; and

WHEREAS, this policy applies to all District sponsored social media sites and platforms; and

WHEREAS, this policy is not intended to regulate the personal activities of District employees nor contractors with respect to the use of social media.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, that the revised Social Media policy, attached as Exhibit "A," is hereby adopted; and Resolution No. 27-12, attached as Exhibit "B," is hereby rescinded.

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary



Policy No.:	Type of Policy: General			
Policy Title: Social Media				
Policy Description: Establish appropriate use of and consistent standards for District-maintained social media accounts				
Approval Date: 2/4/2020		Last Review Date: 2020		
Approval Resolution No.:	XX-XX	Next Review Date: 2024		
Rescinded Resolution No.:	27-12	Rescinded Resolution Date: 6/19/2012		

The purpose of this policy of the Board of Directors of the Dublin San Ramon Services District is to establish appropriate use of and consistent standards for District-maintained social media accounts.

1. General

The Dublin San Ramon Services District (DSRSD) shall use social media as an extension of its communications and outreach efforts. DSRSD has a presence on social media to do the following: disseminate time-sensitive information as quickly as possible, especially in an emergency; increase DSRSD's ability to communicate information to and receive feedback and inquiries from members of the public; be open and transparent about the services DSRSD provides; educate customers regarding regulatory and legislative issues; promote DSRSD's achievements, activities, and significant events; and ensure accurate information is conveyed regarding controversial and sensitive incidents and issues.

2. Account Management

The General Manager, through the Public Affairs Division, is responsible for managing DSRSD's social media accounts and monitoring pages regularly to respond to questions and comments, as well as to moderate inappropriate third-party content. DSRSD may also share relevant content from other social media platforms that it believes may be of interest or useful to DSRSD's followers.

Employees representing DSRSD through social media outlets must maintain a high level of ethical conduct and professionalism. Information they present must follow generally accepted standards for grammar and spelling, with limited jargon, be easy to understand, and encourage engagement by members of the public.

3. Right to Restrict or Remove Content

DSRSD's social media platforms serve as *limited public forums*, and all content is subject to monitoring. DSRSD reserves the right to remove user-generated content that includes or promotes:

Policy No.:**Policy Title:** Social Media

- Off-subject or out-of-context material
- Obscene or profane language or content
- Sexual material or links to sexual material
- Personal identifying information, sensitive personal information, or confidential information
- Photographs or images of a featured minor without a verbal or written release from the minor's parent or legal guardian
- Threats, harassment, or discrimination, particularly on the basis of race, creed, color, age, religion, gender, gender identification, marital status, veteran status, national origin, sexual orientation, and physical or mental disabilities
- Violent or illegal activities
- Information that reasonably could compromise the safety or security of individuals, the public, public systems, or DSRSD employees
- Political candidates or campaigns not supported by the DSRSD Board of Directors and candidate or ballot measure advocacy that may violate Government Code Section 8314 regarding the use or permit to use public resources for a campaign activity, or personal or other purposes not authorized by law.
- Links to spam, commercial ventures, products, or other advertisements
- Copyright violation or legal ownership interest of any other party that could subject the District to liability for publishing the information

4. **Public Records Law**

Information posted on DSRSD's social media sites is subject to the California Public Records Act (Government Code Section 6250 *et seq.*) with respect to content maintained in a social media format related to DSRSD business, including communication posted by DSRSD and communication received from members of the public, and each such communication is a public record. The District Secretary is responsible for responding completely and accurately to any public records request for social media content.

RESOLUTION NO. 27-12

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT ADOPTING A NEW SOCIAL MEDIA POLICY

WHEREAS, social networking holds great promise as a tool for the District to have a conversation with our customers regarding issues and services and to achieve the mission and goals of the District; and

WHEREAS, this policy establishes consistent standards for, and ensures appropriate use of, social media sponsored by the District; and

WHEREAS, this policy applies to all District sponsored social media sites; and

WHEREAS, this policy is not intended to regulate the personal activities of District employees or contractors with respect to the use of social media.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency in the counties of Alameda and Contra Costa, California, that the new policy titled "Social Media" is hereby adopted by the Board of Directors of Dublin San Ramon Services District and is attached as "Exhibit A."

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, counties of Alameda and Contra Costa, at its regular meeting held on the 19th day of June 2012, and passed by the following vote:

AYES: 4 - Directors D.L. (Pat) Howard, Georgean M. Vonheeder-Leopold
Dawn L. Benson, Richard M. Halket

NOES: 0

ABSENT: 0


Richard M. Halket, President

ATTEST: Nancy G. Hatfield
Nancy G. Hatfield, District Secretary



TITLE: Rescind No-Net-Demand Service Policy (P600-15-1) and Resolution No. 34-94

RECOMMENDATION:

Staff recommends the Board of Directors rescind, by Resolution, the No-Net-Demand Service policy (P600-15-1) and Resolution No. 34-94.

SUMMARY:

The Board of Directors currently has 61 adopted District policies in the areas of Board Business, General, Operations, Finance, Purchasing, Service, and Personnel. By long-standing practice, the Board reviews each policy once every four years to determine its applicability and continuing usefulness. This ensures that all policies are reviewed at least one time during each Boardmember's term of office. Additionally, it serves as an opportunity for each Boardmember in the first term of office to become acquainted with all the Board policies.

The No-Net-Demand Service policy (Policy) was adopted by Resolution No. 34-94 on August 16, 1994 to outline the District's position for service to areas where, at the time, the District did not have the capacity to serve. At the time, the District's wastewater disposal capacity through the Livermore-Amador Valley Water Management Agency (LAVWMA) was constrained. In addition, development of the Dougherty Valley area was under consideration and Zone 7 Water Agency (Zone 7) could not supply water to the area as it was outside of Alameda County.

The policy allowed the District to provide wastewater services to a development if, on a monthly basis, it used recycled water equal to the wastewater it generated or provided storage for recycled water when its wastewater generation exceeded its ability to use recycled water. Alternatively, the development could fund recycled water infrastructure in other areas. The policy also allowed the District to provide water service to a development if it acquired long-term water rights, contractual entitlements or similar acquisition of water sufficient to meet the ultimate needs of the proposed development.

The policy was applied to the Dougherty Valley development in partnership with Windemere BLC and Shapell Industries who then funded the acquisition of water entitlements from Berrenda Mesa Water District that was transferred to and now conveyed by Zone 7. Aspects of the policy were also applied to the development of Alameda County land between Arnold Road and Tassajara Road within the East Dublin Specific Plan.

Staff recommends the policy be rescinded as it is no longer necessary because the District now has LAVWMA disposal capacity for the planned development within the District's service area. Also, the policy was adopted prior to the District's current contract with Zone 7 and prior to the statutory requirement that urban water suppliers have an Urban Water Management Plan (UWMP) to ensure that adequate water supplies are available to meet existing and future water needs. The District's current UWMP indicates the District will have adequate supply for planned development of the service area.

Originating Department: Engineering Services	Contact: J. Yee	Legal Review: Not Required
Cost: \$0	Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input type="checkbox"/> Other (see list on right)	111 of 415	

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT RESCINDING THE NO-NET-DEMAND SERVICE POLICY AND RESCINDING RESOLUTION NO. 34-94

WHEREAS, on August 16, 1994, the Board adopted the No-Net-Demand Service policy (Policy) by Resolution No. 34-94; and

WHEREAS, the purpose of the Policy was to outline the District's position for service to areas where, at the time, the District did not have the capacity to serve; and

WHEREAS, the Policy was referenced by the Areawide Facility Agreement between Dublin San Ramon Services District, the County of Alameda, and the Alameda County Surplus Property Authority (AWFA) dated December 20, 1994 to develop the land between Arnold Road and Tassajara Road when wastewater treatment and disposal capacity were limited; and

WHEREAS, the Policy was applied to Dougherty Valley development whereby Windemere BLC and Shapell Industries funded the acquisition of water entitlements for the associated development; and

WHEREAS, the Policy is no longer required because the wastewater treatment and disposal facilities were expanded and, per the District's Urban Water Management Plan, the District will have supply for planned development within the service area.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

The Board of Directors hereby rescinds the No-Net-Demand Service policy, attached as Exhibit "A," and rescinds Resolution No. 34-94, attached as Exhibit "B."

Res. No. _____

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary



Dublin San Ramon Services District

Water, wastewater, recycled water

Policy

Policy No. P600-15-1

Type of Policy: Service

Policy Title: No-Net-Demand Service

Policy Description: Defines conditions and terms under which the District would provide non-traditional methods of providing wastewater disposal and/or potable water service.

Approval Date: 8/16/1994

Last Review Date: 2015

Approval Resolution No.: 34-94

Next Review Date: 2019

Rescinded Resolution No.: N/A

Rescinded Resolution Date: N/A

It is the policy of the Board of Directors of Dublin San Ramon Services District:

1. "No-net-demand service" is a non-traditional method of providing wastewater disposal and/or potable water service by which such services are provided without increasing the demand upon the District's sewerage treatment and/or disposal capacity or the demand upon the District's potable water resources. No-net-demand facilities are subject to the policy on Infrastructure Responsibilities and Funding. Detailed planning and engineering studies must be undertaken in accordance with the District's policy on Infrastructure Responsibilities and Funding to provide no-net-demand services.
2. The provision of no-net-demand service to a given area shall be at the sole discretion of DSRSD and may be accomplished by such alternative means as the District shall select.
3. When a no-net-demand system is to be implemented, the property owners, developers, and land use planning agencies (as applicable) so effected shall:
 - (a) Enter into a written agreement with the District acknowledging that the District has analyzed its ability to provide traditional service on a regional basis and concluded that in order to provide service, the district must do so in a non-traditional no-net-demand fashion which will require different terms and conditions of service as compared to non-no-net-demand service areas as well as when compared to other no-net-demand service areas;
 - (b) Agree that the terms and conditions of the no-net-demand service shall be recorded in the official records of the County in which the property so affected is located and agree to disclose such terms and conditions to all parties having an interest in the property;
 - (c) Agree to defend, indemnify, and hold harmless the District from claims, suits, and actions arising out of the no-net-demand policy and implementation thereof;
 - (d) Agree that the no-net-demand policy and implementation thereof shall be binding on all successors in interest to the property affected thereby; and
 - (e) Agree to such other terms and conditions as shall be just and equitable in furtherance of the no-net-demand policy.

Policy No. P600-15-1

Policy Title: No-Net-Demand Service

4. A no-net-demand system for wastewater disposal shall:
 - (a) Provide for complete reuse and storage, as necessary, of all wastewater generated by the project subject to the no-net-demand policy on a monthly basis within the project development or, alternatively, and at the sole discretion of the District, participate in the funding of recycled water infrastructure in other areas within the service area of the District which will allow this goal to be met;
 - (b) Provide storage (above ground or below ground) or, alternatively, use of, recycled water generated by such project during those months when wastewater generation exceeds recycling ability in order to address the requirement of no-net-demand service that storage of wastewater during the wet weather season shall be provided; and
 - (c) Maximize the amount of recycled water stored and/or used on such project site before consideration will be given to off-site uses.
5. A no-net-demand system for potable water service shall:
 - (a) Include the acquisition of long-term water rights, contractual entitlements or similar acquisition of water sufficient to meet the ultimate needs of the proposed development with equal or greater reliability than the existing water supply; and
 - (b) Be conditioned upon agreements and approvals necessary for the conveyance, treatment, and storage of water from its point of origin to the District's turnouts, including provision of pumping, storage, and treatment facilities.
6. No-net-demand service shall be provided on a permanent basis for any development to which it initially is subjected.
7. Acknowledging the difficulties in implementing a no-net-demand service, the District reserves the right to pursue such projects on a regional basis involving areas larger than any particular development, so long as the region is subject to land use regulations and plans consistent with no-net-demand service.
8. The No-Net-Demand policy established hereby is subject to the District's policy regarding Annexation and Utility Extension.
9. All other provisions and requirements pertaining to implementation of the No-Net-Demand policy hereby established shall be subject to the District's sound discretion.

Policy is current and no changes need to be adopted by the Board of Directors.
<u>Status Quo Chronology:</u>
Date Adopted:

August 16, 1994	
Reviewed by Committee or Board:	Date:

Wastewater	July 13, 2006
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Wastewater	May 3, 2010
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Board	March 17, 2015
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RESOLUTION NO. 34-94

RESOLUTION OF THE BOARD OF DIRECTORS OF THE DUBLIN SAN RAMON SERVICES DISTRICT ADOPTING POLICIES REGARDING PROVISION OF "NO-NET-DEMAND" SERVICE

WHEREAS, this Board adopted a Policy Regarding Extension of Utility Services pursuant to Resolution No. 38-92; and

WHEREAS, that policy provides, in part, that commitments would be made to provide utility service to development projects only at the time of annexation to the District of the project property, subject to the terms and conditions specified in the annexation ordinance; and

WHEREAS, certain developments currently in the District's advanced planning areas cannot be provided traditional wastewater export or potable water service, either temporarily or permanently; and

WHEREAS, it may be feasible to provide such services on a non-traditional "no-net-demand" basis; and

WHEREAS, given the non-traditional nature of such services, the District's policies in this regard must be clearly articulated from the onset of consideration of development proposals; and

WHEREAS, this Board has previously adopted a Policy on the Planning, Design and Construction of Major Infrastructure pursuant to Resolution No. 29-94.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE DUBLIN SAN RAMON SERVICES DISTRICT, A PUBLIC AGENCY IN THE COUNTIES OF ALAMEDA AND CONTRA COSTA, CALIFORNIA, AS FOLLOWS:

1. "No-net-demand service" is a non-traditional method of providing wastewater disposal and/or potable water service by which such services are provided without increasing the demand upon the District's sewerage treatment and/or disposal capacity

O O

Res. No. 34-94

or the demand upon the District's potable water resources. No-net-demand facilities are subject to the Policy on Major Infrastructure (Resolution No. 29-94). Detailed planning and engineering studies must be undertaken in accordance with the District's Policy on Major Infrastructure to provide no-net-demand services.

2. The provision of no-net-demand service to a given area shall be at the sole discretion of DSRSD and may be accomplished by such alternative means as the District shall select.
3. When a no-net-demand system is to be implemented, the property owners, developers, and land use planning agencies (as applicable) so effected shall:
 - (a) Enter into a written agreement with the District acknowledging that the District has analyzed its ability to provide traditional service on a regional basis and concluded that in order to provide service, the District must do so in a non-traditional no-net-demand fashion which will require different terms and conditions of service as compared to non-no-net-demand service areas, as well as when compared to other no net demand service areas;
 - (b) Agree that the terms and conditions of the no-net-demand service shall be recorded in the official records of the County in which the property so affected is located and agree to disclose such terms and conditions to all parties having an interest in the property;
 - (c) Agree to defend, indemnify, and hold harmless the District from claims, suits, and actions arising out of the no-net-demand policy and implementation thereof;
 - (d) Agree that the no-net-demand policy and implementation thereof shall be binding on all successors in interest to the property affected thereby;

Res. No. 34-94

(e) Agree to such other terms and conditions as shall be just and equitable in furtherance of the no-net-demand policy.

4. A no-net-demand system for wastewater disposal shall:

(a) Provide for complete reuse and storage, as necessary, of all wastewater generated by the project subject to the no-net-demand policy on a monthly basis within the project development or, alternatively, and at the sole discretion of the District, participate in the funding of recycled water infrastructure in other areas within the service area of the District which will allow this goal to be met.

(b) Provide storage (above ground or below ground) or, alternatively, use of, recycled water generated by such project during those months when wastewater generation exceeds recycling ability in order to address the requirement of no-net-demand service that storage of wastewater during the wet weather season shall be provided.

(c) Maximize the amount of recycled water stored and/or used on such project site before consideration will be given to off-site uses.

5. A no-net-demand system for potable water service shall:

(a) Include the acquisition of long-term water rights, contractual entitlements or similar acquisition of water sufficient to meet the ultimate needs of the proposed development with equal or greater reliability than the existing water supply.

(b) Be conditioned upon agreements and approvals necessary for the conveyance, treatment, and storage of water from its point of origin to the District's turnouts, including provision of pumping, storage, and treatment facilities.

Res. No. 34-94

6. No-net-demand service shall be provided on a permanent basis for any development to which it initially is subjected.

7. Acknowledging the difficulties in implementing a no-net-demand service, the District reserves the right to pursue such projects on a regional basis involving areas larger than any particular development so long as the region is subject to land use regulations and plans consistent with no-net-demand service.

8. The no-net-demand policy established hereby is subject to the District's Policy Regarding the Extension of Utility Services (Resolution No. 38-92).

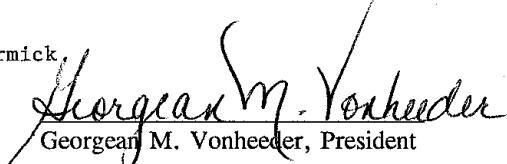
9. All other provisions and requirements pertaining to implementation of the no-net-demand policy hereby established shall be subject to the District's sound discretion.

ADOPTED by the Board of Directors of Dublin San Ramon Services District at its regular meeting being held on the 16th day of August, 1994, and passed by the following vote:

AYES: 4 - Directors Jeffrey G. Hansen, Joseph Covello,
James B. Kohnen, Georgean M. Vonheeder

NOES: 0

ABSENT: 1 - Director G.T. (Tom) McCormick


Georgean M. Vonheeder, President

ATTEST: Nancy Gamble
Nancy Gamble, Secretary



TITLE: Approve and Adopt Sewer System Management Plan Five-Year Update

RECOMMENDATION:

Staff recommends the Board of Directors approve and adopt, by Resolution, the Sewer System Management Plan Five-Year Update.

SUMMARY:

The Sewer System Management Plan (SSMP) is prepared in compliance with the requirement of the San Francisco Bay Regional Water Quality Control Board (RWQCB) and the State Water Resources Control Board General Waste Discharge Requirements (GWDR). The program elements included in the SSMP document the District's current plan to manage, operate, and maintain its sanitary sewer system. The GWDR requires the SSMP to be updated and/or revised at least once every five years, or whenever significant changes are made to the SSMP.

The District's initial SSMP was approved and adopted in 2007. The last five-year update of the SSMP was certified by Board Resolution No. 43-12 on September 18, 2012. The current five-year update was completed in 2018. There has been a delay in the presentation to the Board for re-certification due to a misunderstanding of the re-certification requirements. The GWDR Section D.14 language states: "The SSMP must be updated every five (5) years, and must include any significant program changes. Re-certification by the governing board of the Enrollee is required in accordance with Section D.14 when significant updates to the SSMP are made." As there were no significant updates for this period, re-certification was not initially expected to be required for this cycle.

However, after reviewing other interpretations of Section D.14, a more concise description of the requirement would reflect that the SSMP must be updated and re-certified every five years by a governing board, whether or not there are any significant changes. In addition, if there are significant changes outside of the 5-year cycle, the SSMP should be re-certified again (in advance of the five-year cycle). Going forward, all future 5-year updates of the SSMP will automatically be presented to the Board for re-certification.

The following are the only minor changes for this update:

- Added Attachment C: Tri-Valley Intergovernmental Reciprocal Services Master Agreement document. This is to help facilitate regional cooperative efforts in the occasion of a significant sanitary sewer event impacting one or more agencies beyond their ability to react internally.
- Added Attachment D: Sewer System Major Equipment Inventory; Critical Sewer Replacement Parts Inventory; and Contact Information for Vendors and Contractors. This is to provide an updated inventory of major equipment, repair materials, and contractor support resources available as needed.
- Added Attachment E: Contractor Outreach Flyer. This is to raise awareness among repair and maintenance contractors of the risks and impacts of construction debris or illegal dumping of grease or septic waste in the collections system.
- Added Attachment I: SSMP Audit Guidance Documents and Reports. This is the formal review of the previous iteration of the SSMP for missing or needed updates to SSMP. The audit report summary gives the identification of missing elements and corrective actions taken to mitigate them.

Originating Department: Operations	Contact: J. Carson	Legal Review: Not Required
Cost: \$0	Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input type="checkbox"/> Other (see list on right)	120 of 415	

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING AND
ADOPTING A SEWER SYSTEM MANAGEMENT PLAN (SSMP) FIVE-YEAR UPDATE

WHEREAS, the State Water Resources Control Board General Water Discharge Requirements (GWDR) for sanitary sewer systems mandates the development of a Sanitary System Management Plan (SSMP); and

WHEREAS, Section D.14 of the GWDR requires the SSMP to be updated every five years and must include any significant program changes; and

WHEREAS, the last five-year update of the District's SSMP was certified by Board Resolution No. 43-12 on September 18, 2012; and

WHEREAS, the District has updated its SSMP and it is ready for re-certification.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, that the Sewer System Management Plan Updated November 2018, attached as Exhibit "A," is hereby approved and adopted.

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

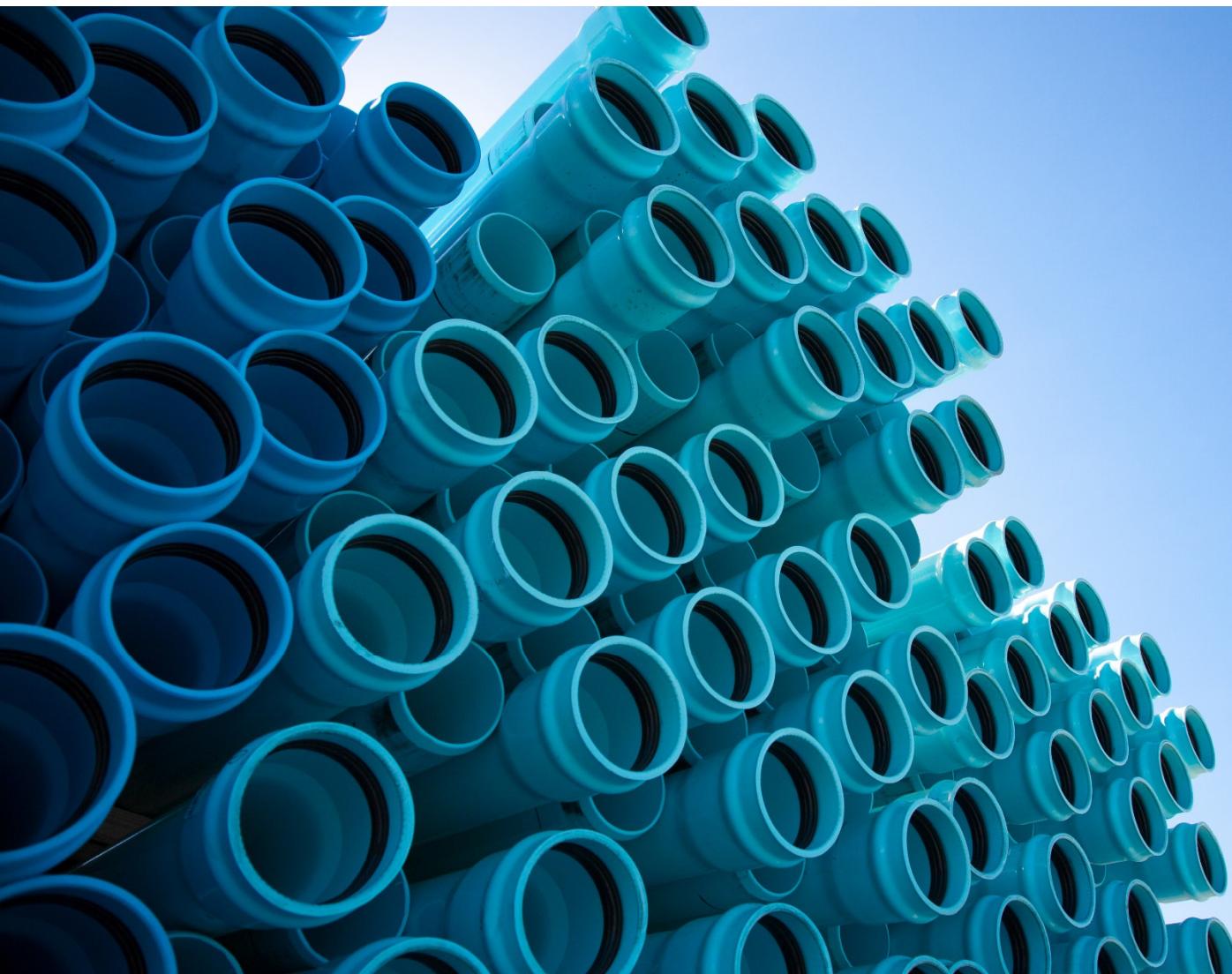
Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary



Dublin San Ramon Services District

Sewer System Management Plan



March 2007
(Updated November 2018)

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Attachments

- Attachment A: Contact Information for Responsible Officials in SSMP Content Development
- Attachment B: Overflow Emergency Response Plan (OERP); District Procedures for Reporting Spills; and Dublin Lift Station Emergency Information
- Attachment C: Tri-Valley Intergovernmental Reciprocal Services Agreement
- Attachment D: Sewer System Major Equipment Inventory; Critical Sewer Replacement Parts Inventory; and Contact Information for Vendors and Contractors
- Attachment E: Contractor Outreach Flyer
- Attachment F: Standard Procedures, Specifications and Drawings for Wastewater Utilities
- Attachment G: FOG Public Outreach Materials
- Attachment H: Wastewater Collection System Master Plan Report
- Attachment I: Sewer System Management Plan Audit Guidance Documents and Reports
- Attachment J: Sewer System Management Plan Change Log
- Attachment K: Sewer System Management Plan Board Adoption Documents

List of Abbreviations

BMP	<i>Best Management Practices</i>
	Refers to the procedures employed in commercial kitchens to minimize the quantity of grease that is discharged to the sanitary sewer system. Examples include scraping food scraps into a garbage can and dry wiping dishes and utensils prior to washing.
CCTV	<i>Closed Circuit Television</i>
	Refers to the process and equipment that is used to internally inspect the condition of gravity sewers.
CIP	<i>Capital Improvement Program</i>
	Refers to the document that identifies future capital improvements to the District's sanitary sewer system.
CIWQS	<i>California Integrated Water Quality System</i>
	Refers to the State Water Resources Control Board online electronic reporting system that is used to report SSOs, certify completion of the SSMP, and provide information on the sanitary sewer system.

CMMS	<i>Computerized Maintenance Management System</i>
	Refers to the computerized maintenance management system that is used by the District to plan, dispatch, and record the work on its sanitary sewer system. Infor is the proprietary software the District uses for CMMS.
CWEA	<i>California Water Environment Association</i>
District	<i>Refers to the Dublin San Ramon Services District</i>
DS	<i>Data Submitters</i>
FOG	<i>Fats, Oils, and Grease</i>
	Refers to fats, oils, and grease typically associated with food preparation and cooking activities that can cause blockages in the sanitary sewer system.
GWDR or WDR	<i>General Waste Discharge Requirements</i>
	Refers to the State Water Resources Control Board Order No. 2006-0003, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, dated May 2, 2006.
GIS	<i>Geographical Information System</i>
	Refers to the District's system that is used to capture, store, analyze, and manage geospatial data associated with the District's sanitary sewer system assets.
GRD	<i>Grease Removal Device</i>
	Refers to grease traps and grease interceptors that are installed to remove FOG from the wastewater flow at food service establishments.
I&I	<i>Infiltration and Inflow</i>
	Refers to water that enters the sanitary sewer system from storm water and groundwater. Infiltration enters through defects in the sanitary sewer system after flowing through the soil. Inflow enters the sanitary sewer without flowing through the soil. Typical points of inflow are holes in manhole lids and direct connections to the sanitary sewer (e.g. storm drains, area drains, and roof leaders).
Lateral	<i>See Private Sewer Lateral</i>
LRO	<i>Legally Responsible Official</i>
	Refers to person(s) formally designated by an agency to be responsible for formal reporting and certifying of all reports submitted to the CIWQS.
Mainline Sewer	Refers to District wastewater collection system piping that is not a private lateral connection to a user.

MRP

Monitoring and Reporting Program

State Water Resources Control Board Executive Order WQ 2013-0058-EXEC
effective September 9, 2013.

NPDES

National Pollution Discharge Elimination System Permit

INTRODUCTION

Background

The Sewer System Management Plan (SSMP) was initially prepared in compliance with requirements of the San Francisco Bay Regional Water Quality Control Board (RWQCB) pursuant to Section 13267 of the California Water Code, as described in the letter from the RWQCB to the District dated July 7, 2005. The RWQCB letter mandated that Dublin San Ramon Services District (DSRSD, District) prepare an SSMP following the guidelines in the SSMP Development Guide prepared by the RWQCB in cooperation with the Bay Area Clean Water Agencies (BACWA). At that time, the District also complied with RWQCB sanitary sewer overflow (SSO) electronic reporting requirements issued in November 2004.

Subsequently, the State Water Resources Control Board (SWRCB) acted at its meeting on May 2, 2006 to require all public wastewater collection system agencies in California with greater than one mile of sewers to be regulated under General Waste Discharge Requirements (GWDR). The SWRCB action also mandated the development of an SSMP and the reporting of SSOs using an electronic reporting system. The SWRCB SSMP requirements are similar to those promulgated by the RWQCB but differ in organization and some details.

The District's initial SSMP was prepared to meet the requirements of both the RWQCB and the Statewide GWDR and was approved and adopted by the District's Board of Directors by resolution on September 18, 2007. Section D.14 of the GWDR requires the SSMP to be updated every five years and must include any significant program changes. The program elements included herein document the District's current plan to manage, operate, and maintain its sanitary sewer system. The first SSMP update was approved and adopted by the District's Board of Directors on September 18, 2012.

This SSMP is intended to update the District's existing SSMP, in continued compliance with the GWDR. The structure (section numbering and nomenclature) of this SSMP follows the above referenced GWDR and associated Monitoring and Reporting Program (MRP) requirements. This SSMP is organized by the SWRCB outline of elements; and contains language taken from the GWDR at the beginning of each element. The GWDR uses the term "Enrollee" to mean each individual municipal wastewater agency that has completed and submitted the required application for coverage under the WDR (in this case, the Enrollee is the District). The District's waste discharger identification number in the California Integrated Water Quality System (CIWQS) is 2SSO10128.

Organization of Plan

The organization of this document is consistent with the RWQCB guidelines, but the contents address both the RWQCB and SWRCB requirements. The SSMP includes eleven elements, as follows:

1. Element 1 – District Goals
2. Element 2 – Organization
3. Element 3 – Legal Authority
4. Element 4 – Operations and Maintenance Program
5. Element 5 – Design and Performance Provisions
6. Element 6 – Overflow Emergency Response Plan (OERP)
7. Element 7 - Fats, Oils and Grease (FOG) Control Program
8. Element 8 – System Evaluation and Capacity Assurance Plan
9. Element 9 – Monitoring, Measurement, and Program Modifications
10. Element 10 – SSMP Program Audits
11. Element 11 – Communication Plan

Sanitary Sewer System Facilities

The District's wastewater service area includes the City of Dublin in Alameda County and the southern portion of the City of San Ramon in Contra Costa County (the northern portion of San Ramon and Dougherty Valley are located in the Central Contra Costa Sanitary District wastewater service area.). In addition to these areas, the service area includes Parks Reserve Forces Training Area (Parks RFTA, or Camp Parks). The flow from the wastewater service area is conveyed to the DSRSD Wastewater Treatment Plant (WWTP), which is located in the City of Pleasanton. Pleasanton owns, operates, and maintains a separate sanitary sewer system that delivers wastewater to the District's WWTP. The District's SSMP does not address Pleasanton's sewer system or its compliance with the RWQCB or SWRCB GWDR requirements. Wastewater effluent is discharged to the Livermore Amador Valley Water Management Agency (LAVWMA) effluent disposal facilities for conveyance and discharge to San Francisco Bay.

The existing wastewater service area encompasses approximately 13,340 acres, or 20.85 square miles. It should be noted that the District's wastewater service area is different than both the wastewater treatment service area and the water service area.

The District's wastewater infrastructure includes the wastewater collection system and the WWTP. The collection system conveys wastewater primarily by gravity to the WWTP, which is located south of the District's wastewater service area on Johnson Drive, in the City of Pleasanton. Generally, wastewater flows by gravity from the northwest to the south and from the east to the west and then to the south within the wastewater service area. The collection system consists of approximately 207 miles of gravity mains, 26 feet of force main, 2 siphons, 29 gravity creek crossings, one permanent lift station, and one temporary lift station. An overview of the District's collection system is shown on **Figure 1** at the end of this section. The gravity mains, force mains, and lift stations that comprise the collection system are described in more detail in the following sections.

Gravity Mains

Table 1 and Table 2 provide the composition of the sewer piping by size and material of construction.

Table 1. DSRSD Existing Gravity Sewer Mains by Diameter

Diameter, inches	Length, feet	Length, miles	Percentage of System, %
4	194	0.04	0.02
6	24,843	4.71	2.27
8	878,289	166.34	80.21
10	73,061	13.84	6.67
12	39,578	7.50	3.61
15	19,714	3.73	1.80
18	7,671	1.45	0.70
21	1,878	0.36	0.17
24	12,931	2.45	1.18
27	4,739	0.90	0.43
30	3,759	0.71	0.34
33	2,053	0.39	0.19
36	17,542	3.32	1.60
39	3,565	0.68	0.33
42	4,801	0.91	0.44
48	306	0.06	0.03
Total	1,094,924	207.37	100%

Source: District Geographical Information system (GIS) updated in September 2017.

Table 2. DSRSD Existing Gravity Sewer Mains by Pipeline Material

Material	Length, feet	Length, miles	Percentage of System, %
Polyvinyl Chloride (PVC)	537,635	101.82	49.10
Vitrified Clay Pipe (VCP)	505,897	95.81	46.20
Reinforced Concrete	28,785	5.45	2.63
Acrylonitrile Butadiene Styrene (ABS)	10,497	1.99	0.96
Asbestos Cement (AC)	5,118	0.97	0.47
Ductile Iron Pipe (DIP)	3,780	0.72	0.35
Concrete	1,144	0.21	0.10
Reinforced Concrete Lined with Polyvinyl Chloride	764	0.14	0.07
Alloy Stainless Steel	737	0.14	0.07
Cast Iron Pipe	420	0.08	0.04
Steel	147	0.03	0.01
Total	1,094,924	207.37	100%

Source: District Geographical Information system (GIS) updated in September 2017.

Lift Stations

The District's collection system has one permanent lift station located in Dublin Boulevard. The Dublin Boulevard Lift Station raises the elevation of the tributary wastewater flow by approximately 17 feet so it can continue to flow by gravity to the DSRSD WWTP. The station has two submersible pumps in a 6-foot diameter wet well located under the sidewalk. The current lift station has a rated firm capacity of approximately 300 gallons per minute (gpm).

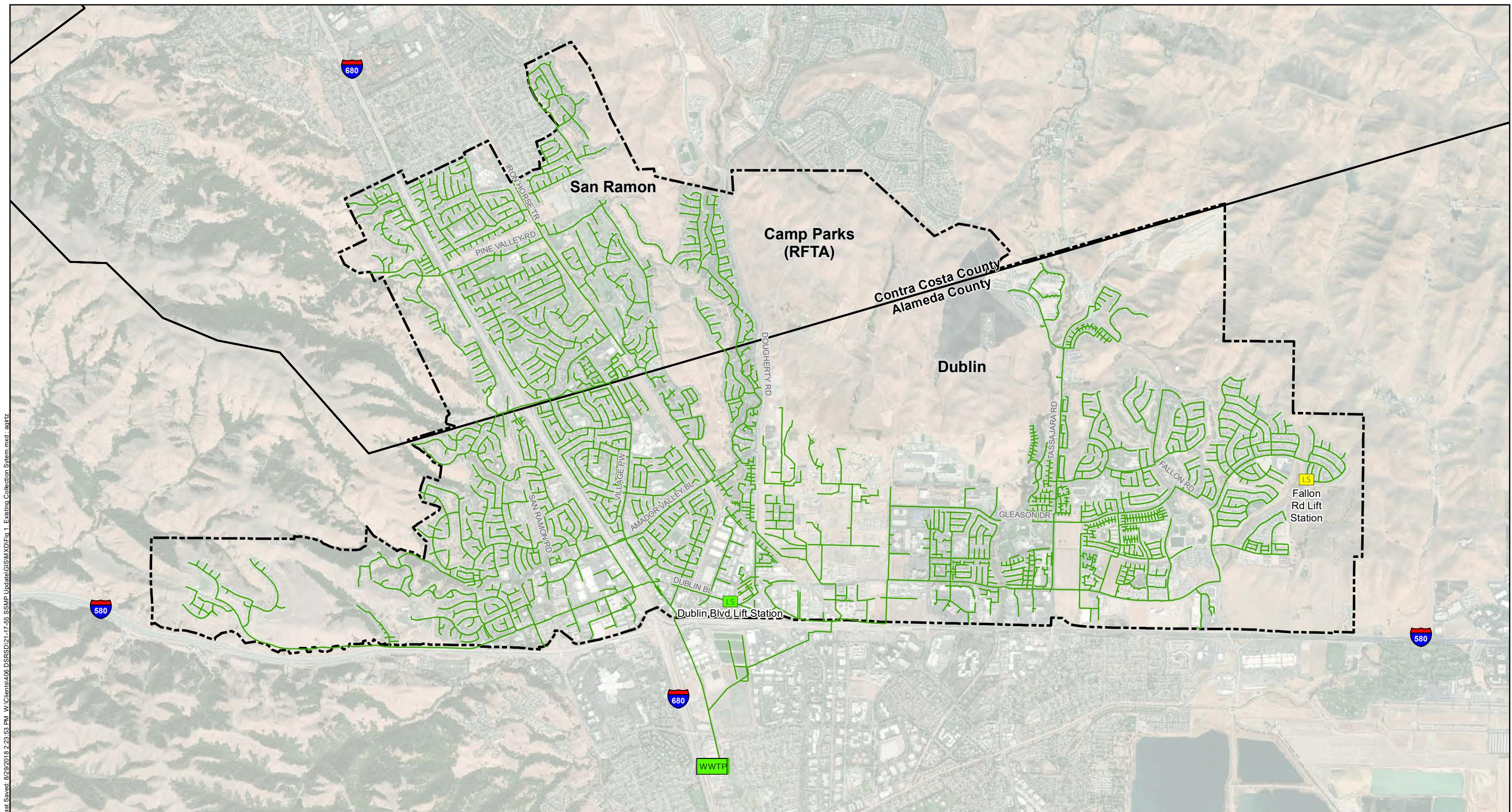
In addition to the Dublin Boulevard Lift Station, the District owns and operates one temporary lift station that is identified as both the Fallon Road Lift Station and the Eastern Dublin Lift Station. The Fallon Road Lift Station, located at the northeast corner of Terracina Drive and Croak Road, serves a newly developed tributary area that cannot be served by gravity using the existing collection system. As development in the area continues, gravity mains will be installed that serve this tributary area, and the Fallon Road Lift Station will no longer be required. The existing capacity of each lift station is provided in **Table 3**.

Table 3. DSRSD Lift Station Details

Lift Station	Pump Number	Pump Capacity, gpm	Design Head, ft	Firm Capacity, gpm
Dublin Blvd Lift Station, LS1	1 2	300 300	24	300
Fallon Road Lift Station, LS2 (Eastern Dublin Lift Station)	1 2	80 80	55	80

Force Mains

The existing collection system includes approximately 26 feet of 6-inch force main. This force main discharges wastewater from the Dublin Boulevard Lift Station into the 10-inch gravity main in Dublin Boulevard.



Symbology

- WWTP
- Permanent Lift Station
- Temporary Lift Station
- Gravity Main
- Wastewater Service Boundary

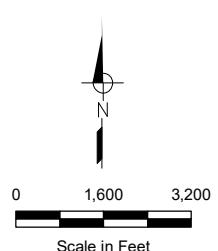


Figure 1

Existing Collection System

Dublin San Ramon Services District
132 of 415
2018 Sewer System Management Plan (SSMP) Update

ELEMENT 1. GOALS

State Resources Water Control Board (SWRCB) Waste Discharge Requirement:

The goal of the Sewer System Management Plan (SSMP) is to provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system. This will help reduce and prevent Sanitary Sewer Overflows (SSOs), as well as mitigate any SSOs that do occur.

1.1 Introduction

The purpose of this section is to identify the goals that the District has set for its SSMP. These goals are intended to provide focus for District staff to continue high-quality work and to implement improvements in the management of the District's wastewater collection system.

1.2 SSMP Goals

The goals of the DSRSD SSMP are as follows:

1. Properly manage, operate, and maintain all portions of the District's wastewater collection system to ensure uninterrupted service to its customers.
2. Provide a plan and schedule to properly manage, operate, and maintain all parts of the sanitary sewer system to help reduce and prevent SSOs, as well as mitigate any SSOs that do occur.
3. Provide adequate capacity to convey peak wastewater flows to the District's WWTP. Adequate capacity, for the purposes of this SSMP, is defined as the capacity to convey the peak wastewater flows that are associated with a design storm event, as defined in the District's 2018 Wastewater Collection System Master Plan Update.
4. Be proactive in maintenance, inspection, rehabilitation, and replacement of wastewater collection system facilities to maintain their long-term structural integrity and reliability, thereby minimizing SSOs and replacement costs.
5. Investigate the causes of and minimize the frequency of SSOs.
6. Respond to customer notifications of backups or SSOs promptly and courteously.
7. Mitigate the impacts associated with SSOs.
8. Meet all applicable regulatory notification and reporting requirements.
9. Maintain the SSMP as a living document, which will serve as an up-to-date, comprehensive reference for the District's sewer system management practices.

ELEMENT 2. ORGANIZATION

SWRCB Waste Discharge Requirement:

The SSMP must identify:

- a. The name of the responsible or authorized representative as described in Section J of the SSMP WDR.
- b. The names and telephone numbers for management, administrative, and maintenance positions responsible for implementing specific measures in the SSMP program. The SSMP must identify lines of authority through an organization chart or similar document with a narrative explanation; and
- c. The chain of communication for reporting SSOs, from receipt of a complaint or other information, including the person responsible for reporting SSOs to the State and Regional Water Board and other agencies if applicable (such as County Health Officer, County Environmental Health Agency, Regional Water Board, and/or State Office of Emergency Services (OES)).

2.1 Background

DSRSD was established in 1953 as a special community services district. The District provides water and wastewater services to the City of Dublin, water services to the Dougherty Valley area of San Ramon, and wastewater services to portions of southern San Ramon. The District is governed by a five-member Board of Directors elected at large. Directors serve four-year terms. The District Board meets on the first and third Tuesdays of each month, with special meetings called as necessary. Daily management is carried out by the General Manager, who oversees the District's staff and reports directly to the Board of Directors.

2.2 Organization Chart

The organization chart for the management, operation, and maintenance of the District's wastewater collection system is shown in **Figure 2**. The organization chart is updated frequently and the latest version should be reviewed on the District's website at <http://www.dsrsd.com/careers/organizational-chart>.

2.2.1 Authorized Representative

The District's staff with a role in implementation of the SSMP are identified in **Table 2.1** along with their roles and responsibilities as they relate to the collection system operations. Additionally, District staff responsible for the reporting and certification of spill reports through the California Integrated Water Quality System (CIWQS) are identified as either a Legally Responsible Official (LRO) or Data Submitter (DS), as appropriate. Staff designated as either an LRO or DS are responsible for the reporting of SSOs to the SWRCB. The LRO is responsible for certifying these reports.

Figure 2: Organization Chart

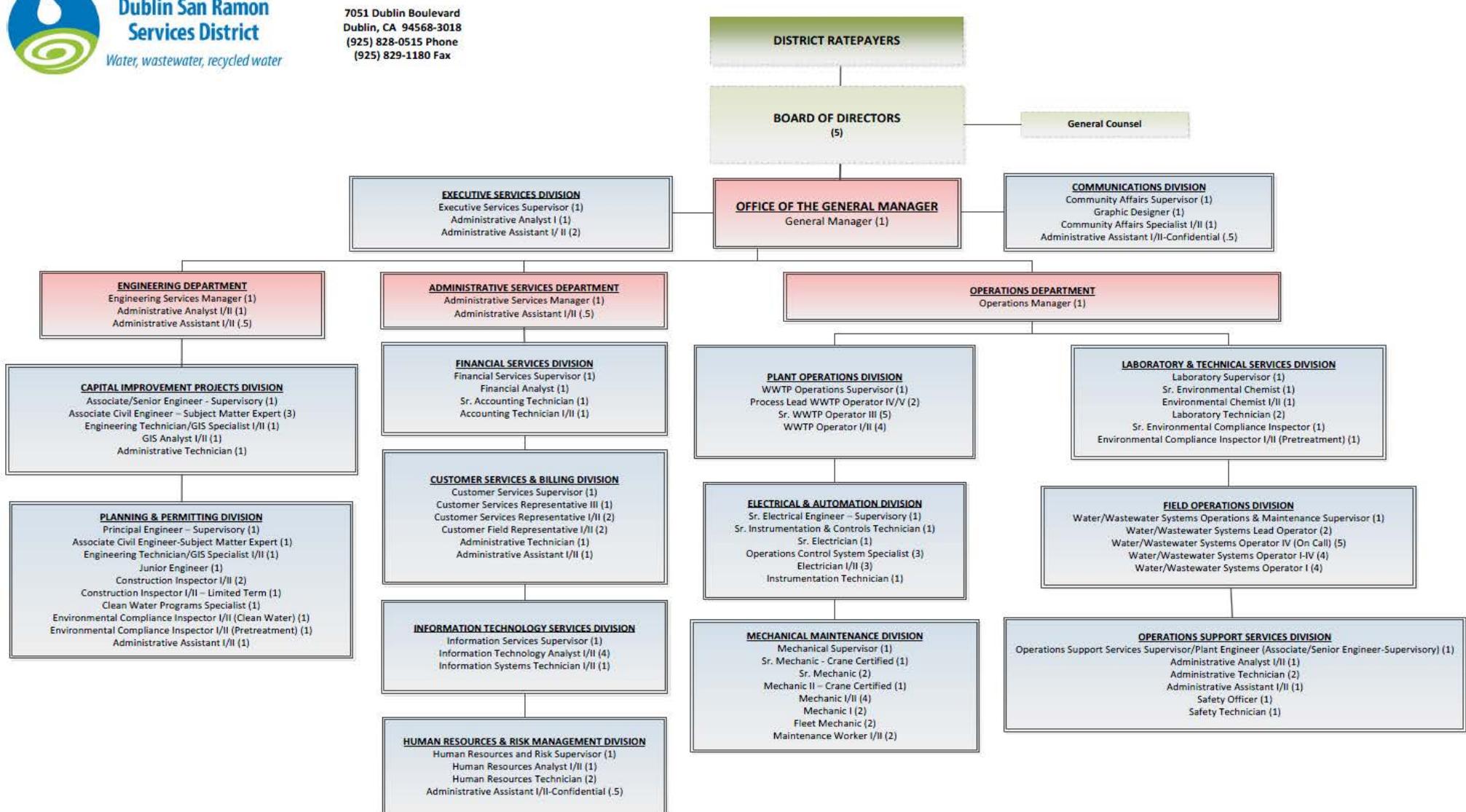


Table 2.1. Roles and Responsibilities Defined

Positions	Roles and Responsibilities
Board of Directors	Establishes policy for the management of the District facilities.
General Manager	The District's authorized representative in all wastewater collection system matters. The District's authorized representative in all wastewater collection system matters. Plans, coordinates and directs, through subordinate department heads, the operations, engineering and construction programs, and the financial affairs of the District; carries out the policies of the Board and observes and enforces all laws, rules, and regulations governing the affairs of the District.
Engineering Services Manager	Authorized to act on the General Manager's behalf in his absence. Oversees and manages the planning, design and construction of District wastewater facilities; reviews and approves developer dedicated facilities; develops, implements and manages the Capital Improvement Program (CIP); administers the District's planning, engineering, construction management, construction inspection, environmental compliance, and drafting and surveying functions; negotiates developer agreements; procures and manages consultants; performs a variety of difficult professional engineering and design activities including overseeing capital improvement projects; operates and controls operating and project budgets; manages industrial waste permitting and enforcement activities; and oversees all engineering efforts in support of operations.
Operations Manager	Authorized to act on the General Manager's behalf in his absence. Oversees and manages all operations of the District's wastewater systems; plans, organizes, directs, and coordinates the operation and maintenance of the wastewater treatment plant, field operations, collection system maintenance, and related activities; administers the District's laboratory, and sewage analysis programs; and participates in research and long-range planning activities pertaining to wastewater treatment and wastewater collection.
Wastewater Treatment Plant Operations Supervisor and Process Lead WWTP Operator	Organize and supervise the operation and ongoing maintenance of the wastewater treatment and pumping facilities. The General Manager has designated both the Water/Wastewater Systems Operations and Maintenance Supervisor and the WWTP Operations Supervisor as his duly authorized representatives, or Legally Responsible Official (LRO) to prepare, certify, and submit electronic spill reports to the RWQCB and SWRCB and to notify other government agencies. Both are designated as the LRO so that a backup is available if needed in an emergency.

Water/Wastewater Systems Operations and Maintenance Supervisor	Responsible for maintaining, providing training, and implementing the District's SSMP. The Field Operations Division plans, organizes and supervises various field operations of the District, and performs complex operations and maintenance duties related to wastewater collection. The General Manager has designated both the Water/Wastewater Systems Operations and Maintenance Supervisor and the WWTP Operations Supervisor as his duly authorized representatives, or Legally Responsible Official (LRO) to prepare, certify, and submit electronic spill reports to the RWQCB and SWRCB and to notify other government agencies. Both are designated as the LRO so that a backup is available if needed in an emergency.
Field Operations Staff: Water/Wastewater Systems Operators	Supports Field Operations & Maintenance Supervisor. Performs a broad range of duties associated with the operation, maintenance and repair of major water, wastewater and recycled water facilities. The Water/Wastewater Systems Operator is a multi-skilled position, required to perform a variety of tasks including, but not limited to, treatment and process calibration, maintenance, quality control, safety, automation, team and business skills, and problem solving.

2.2.2 Responsibility for SSMP Implementation

District staff responsible for developing, implementing, and maintaining specific elements of the SSMP are identified by job title in **Table 2.2**. The names, positions, and contact information for each of the District employees responsible for implementing specific measures of this SSMP are included in **Attachment A**.

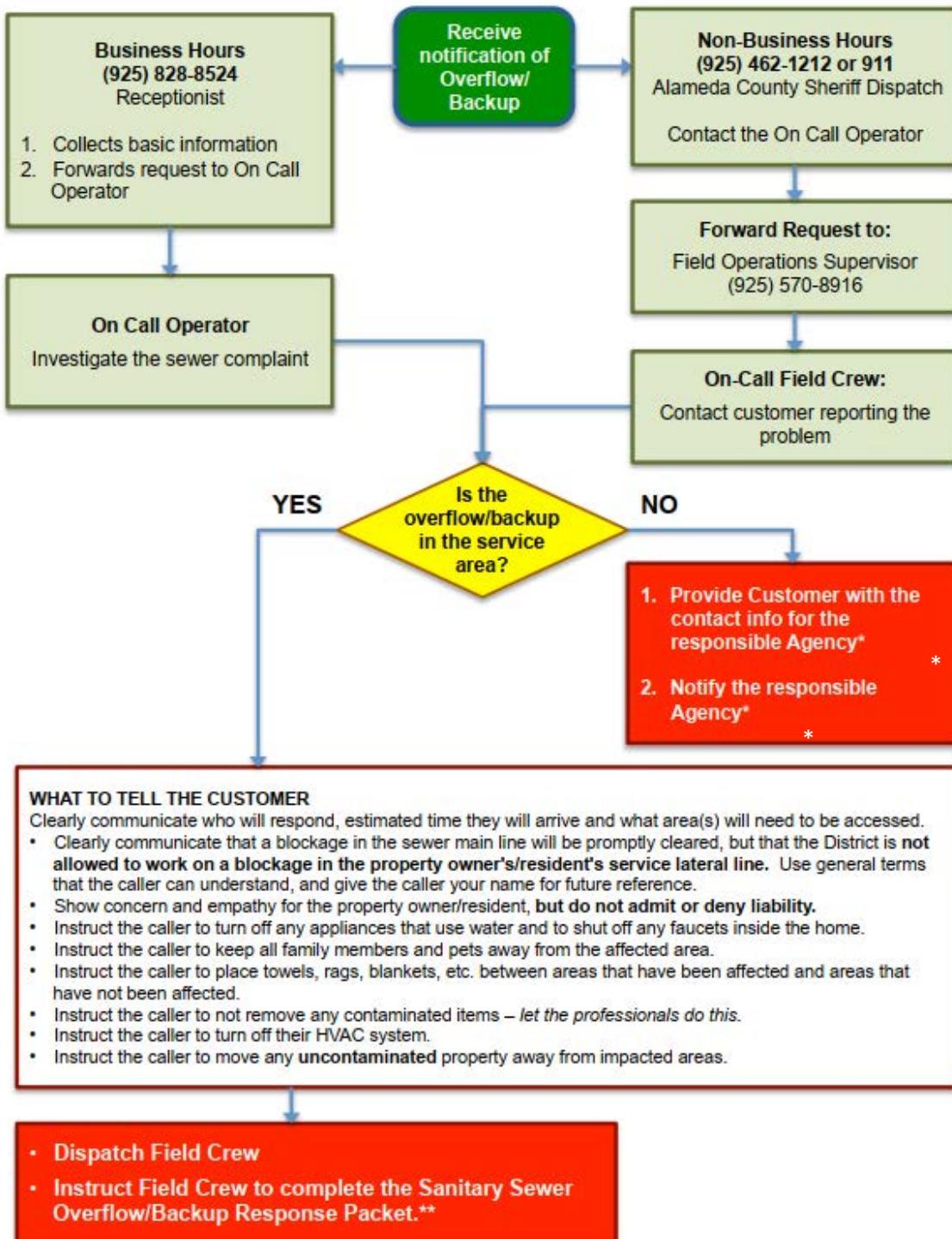
2.2.3 SSO Reporting Chain of Communication

SSO detection, notification, response, and reporting processes are described in Section 6 and further detailed in **Attachment B** – Overflow Emergency Response Plan and the District's Procedures for Reporting Spills. The SSO reporting chain of communications is shown in **Figure 3** below. All of the District's Senior WWTP Operators are authorized to submit the initial SSO report to California Integrated Water Quality System (CIWQS). The certified report is submitted only by one of the District's LRO's, the Wastewater Operations Supervisor and the Operations Manager.

Table 2.2. SSMP Responsibilities

Element No.	Element Name	Responsible District Official
-	Introduction	Operations Manager
1	Goals	General Manager, supported by Operations Manager and Engineering Services Manager
2	Organization	General Manager, Operations Manager
3	Legal Authority	General Manager
4	Operations and Maintenance Program	Engineering Services Manager
5	Design and Performance Provisions	Operations Manager
6	Overflow Emergency Response Plan (OERP)	Water/Wastewater Systems Operations and Maintenance Supervisor
7	FOG Control Program	Engineering Services Manager
8	System Evaluation and Capacity Assurance Plan	Water/Wastewater Systems Operations and Maintenance Supervisor
9	Monitoring, Measurement and Program Modifications	Field Operations & Maintenance Supervisor, Sr. Civil Engineer - Environmental Compliance
10	Program Audits	Operations Manager
11	Communications Program	General Manager
Attachment A	Contact Information for Responsible Officials in SSMP Content Development	Operations Manager
Attachment B	Overflow Emergency Response Plan (OERP); District Procedures for Reporting Spills; Dublin Lift Station Emergency Information	Operations Manager Water/Wastewater Systems Operations and Maintenance Supervisor
Attachment C	Tri-Valley Intergovernmental Reciprocal Services Agreement	General Manager
Attachment D	Sewer System Major Equipment Inventory, Critical Sewer Replacement Parts Inventory, Contact Information for Vendors and Contractors	Operations Manager
Attachment E	Contractor Outreach Flyer	Engineering Services Manager
Attachment F	Standard Procedures, Specifications and Drawings for Wastewater Utilities	Engineering Services Manager
Attachment G	FOG Public Outreach Materials	Sr. Civil Engineer - Environmental Compliance
Attachment H	Wastewater Collection System Master Plan Report	Engineering Services Manager
Attachment I	Sewer System Management Plan Audit Guidance Documents and Reports	Operations Manager
Attachment J	Sewer System Management Plan Change Log	Operations Manager
Attachment K	Sewer System Management Plan Board Adoption Documents	General Manager

Figure 3: SSO Reporting Chain of Communication



* This information can be found in Attachment B, Appendix A (Regulatory Notification Packet).

** This information can be found in Attachment B, Appendix B (Sanitary Sewer Overflow/Backup Response Packet). Blank packets can be found in all Field Operations Division vehicles.

ELEMENT 3. LEGAL AUTHORITY

SWRCB Waste Discharge Requirement:

Each Enrollee must demonstrate, through sanitary sewer system use ordinances, service agreements, or other legally binding procedures, that it possesses the necessary legal authority to:

- a. Prevent illicit discharges into its sanitary sewer system (examples may include infiltration and inflow (I/I), stormwater, chemical dumping, unauthorized debris and cut roots, etc.);
- b. Require that sewers and connections be properly designed and constructed;
- c. Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency;
- d. Limit the discharge of FOG and other debris that may cause blockages; and
- e. Enforce any violation of its sewer ordinances.

3.1 District Code

District Code contains legal authority for the SSMP required by the RWQCB and the SWRCB. Title 3 of the District Code is dedicated to application for water and wastewater services. Title 5 of the District Code is dedicated to wastewater service delivery. The code is posted on the District's website at: <http://www.dsrsd.com/about-us/district-code>

The following subparagraphs of Chapters 3.20, 5.10, 5.20 and 5.30 are discussed in more detail below, as they pertain to proper design and construction of sewer and connections, maintenance access, prevention of illicit discharges, and enforcement measures:

- 3.20 Basis of Service. Provides requirements for connection to and use of sanitary sewer facilities installed, altered, or repaired within the District's service area
- 5.10 Wastewater Facilities Use Regulation and Protective Measures. Includes provisions to protect the District's wastewater facilities, prevent and control pollution, and to protect human health
- 5.20 Wastewater Discharge and Pretreatment Regulations. Includes requirements to prevent discharge of pollutants into the District's wastewater facilities, enables the District to comply with all applicable State and Federal regulations, including the Clean Water Act and the General Pretreatment Regulations, and provides enforcement measures.
- 5.30 Rates and Charges. Includes policies and provisions pertaining to fees, including service charges, billing and collection, and calculation of capacity reserve fees.

Table 3.1 presents the legal authority reference in DSRSD and California government codes for compliance with the SWRCB Waste Discharge Requirements.

Table 3.1. Legal Authority

Requirement	DSRSD Code
Prevent illicit discharges into its sanitary sewer system	<ul style="list-style-type: none">• Chapter 5.20 Section 040• Chapter 5.20 Section 140• Chapter 5.20 Section 180• Chapter 5.20 Section 210• Chapter 5.20 Sections 300 through 370
Require that sewers and connections be properly designed and constructed	<ul style="list-style-type: none">• Chapter 3.20 Section 020• Chapter 3.30 Section 010• Chapter 3.50 Section 010• Chapter 3.50 Section 060
Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the Public Agency	DSRSD does not own or maintain service laterals as specified in Section 5.10.080A
Limit the discharge of FOG and other debris that may cause blockages	<ul style="list-style-type: none">• Chapter 5.20 Section 040• Chapter 5.20 Section 140
Enforce any violation of its sewer ordinances	<ul style="list-style-type: none">• Chapter 5.20 Sections 460 through 620• Government Code Sections 54740 and 54740.5

3.2 Agreements with Other Agencies

The SSMP requirements for legal authority are fulfilled by the District Code. The District has additional legal agreements with other agencies, which are described in this section for reference. These include agreements with Camp Parks and with the County of Alameda.

3.2.1 Camp Parks Agreement

The District entered into an agreement (DSRSD Board of Directors Resolution No. 41-99) with the US Army Camp Parks RFTA on July 7, 1999 to grant DSRSD the ownership and operational responsibilities of the Camp Parks wastewater collection system. The agreement grants DSRSD the authority for operation, replacement, repair, and maintenance of the system.

3.2.2 Alameda County Agreement

The District entered into an agreement with the County of Alameda and the Alameda County Surplus Property Authority on December 20, 1994. This agreement defines the capacity rights for wastewater collection, wastewater treatment, wastewater disposal, and no net demand wastewater disposal¹. The agreement retains county wastewater facilities that have not been integrated by DSRSD as County property; these facilities cannot be used for wastewater collection. The agreement also sets the wastewater treatment parameters and disposal capacity for the Santa Rita Jail.

3.2.3 Interagency Agreements

The District participates in the Tri-Valley Intergovernmental Reciprocal Services Agreement, a cost recovery/sharing agreement with local agencies. This agreement is included as **Attachment C**.

¹ No Net Demand Wastewater Disposal Service.

(a) General. The County hereby agrees that, at either the County's or District's initial expense as provided herein, the District shall provide Recycled Water Facilities and Capacity as described in accordance with its Major Infrastructure Policy for the purpose of landscape irrigation and/or other beneficial uses on the County's Properties in such minimum amount (measured in mgd flow) as to offset, on an annual basis, the aforesaid excess demand upon the flow parameter of Wastewater Disposal Capacity from the Santa Rita Correctional Facility described in Paragraph 10 of the Area wide Facility Agreement between Dublin San Ramon Services District and County of Alameda and Alameda County Surplus Property Authority for Water, Wastewater and Recycled Water Service.

ELEMENT 4. OPERATIONS AND MAINTENANCE PROGRAM

SWRCB Waste Discharge Requirement:

The Sewer System Management Plan (SSMP) must include those elements listed below that are appropriate and applicable to the Enrollee's system:

- a. Maintain an up-to-date map of the sanitary sewer system, showing all gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities;
- b. Describe routine preventive operation and maintenance activities by staff and contractors, including a system for scheduling regular maintenance and cleaning of the sanitary sewer system with more frequent cleaning and maintenance targeted at known problem areas. The Preventive Maintenance (PM) program should have a system to document scheduled and conducted activities, such as work orders;
- c. Develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency. The program should include regular visual and TV inspections of manholes and sewer pipes, and a system for ranking the condition of sewer pipes and scheduling rehabilitation. Rehabilitation and replacement should focus on sewer pipes that are at risk of collapse or prone to more frequent blockages due to pipe defects. Finally, the rehabilitation and replacement plan should include a capital improvement plan that addresses proper management and protection of the infrastructure assets. The plan shall include a time schedule for implementing the short- and long-term plans plus a schedule for developing the funds needed for the capital improvement plan;
- d. Provide training on a regular basis for staff in sanitary sewer system operations and maintenance, and require contractors to be appropriately trained; and provide equipment and replacement part inventories, including identification of critical replacement parts.

4.1 Introduction

The Field Operations Division is responsible for the operation, maintenance, inspection, and repair of the wastewater collection system within the District's service area. The Field Operations Division, led by the Field Operations Supervisor, plans, organizes, and supervises various field operations and performs complex operations and maintenance duties related to wastewater collection.

Currently, five (5) Field Operations staff members are assigned to maintain the water and sewer systems. Employees are cross-trained on both systems and rotate on an approximate six-month schedule between water systems (e.g. exercising valves) and sewer system (cleaning and CCTV inspection).

4.2 Collection System Mapping

DSRSD currently uses a Geographic Information System (GIS) to create and maintain maps of its collection system facilities. The geo-database includes pipe and manhole inventory information, including length, size, material, rim and invert elevations, year of construction, surface cover, address and other notes. All of this information is available for mapping. The District has both basin maps (used to schedule maintenance activities) and grid maps. Field operators access GIS mapping in the field via portable electronic tablets. The field tablets access the District GIS via Wi-Fi and cellular telephone. Mapping is accessed via Explorer for ArcGIS and Collector for ArcGIS. Both are available in Android and iOS formats. Field observations to correct GIS data are made in the field and logged on the tablets using Informap. A designated DSRSD staff member updates GIS based on the Informap notations from the field. Record sewer drawings, as well as plans for pump stations and appurtenant facilities, are available electronically to all employees.

Currently, storm drain information has been added as a GIS layer for the City of Dublin and portions of San Ramon and Pleasanton. The District is working with the cities of San Ramon and Pleasanton to obtain remaining GIS storm drain information.

4.3 Prioritized Preventative Maintenance

The District employs different methods of routine preventive maintenance activities. Specific elements of the program are described in the sections below.

4.4 Sewer Cleaning

Cleaning via hydrocleaning and inspection via CCTV are the District's primary sewer maintenance activities.

The District utilizes a prioritized scheduling program based on asset condition, consequence of failure, pipe age, and other risk factors. Pipes with higher risk, higher flows, or close proximity to surface waters are cleaned with a greater frequency. Sewers that are newer, convey less flow, or pose less risk, are scheduled for cleaning less often. The schedule includes monthly, quarterly, biannual and annual cleaning events as shown in **Table 4.1**.

Table 4.1. Pipeline Cleaning Interval

Asset	Frequency
Trouble spots (roots, grease, sags, etc.)	Monthly
As determined	Quarterly
Siphons	Biannually
As determined	Annually

A troublespot is automatically placed on a one-month cleaning frequency if it experiences an overflow or backup. After re-evaluation, a troublespot may be re-categorized for less frequent cleaning. The current troublespot cleaning frequency map is included as **Figure 5** following this section.

The length cleaned changes each year depending on the criteria listed above and the date of last cleaning. In years when less cleaning is scheduled, operations staff will perform other maintenance tasks.

Historical sewer line cleaning results are shown in **Table 4.2** and **Table 4.3**. Blank rows are provided in historical cleaning and inspection tables as a place to record subsequent years' data.

Table 4.2. Historical Sewer Line Hydrocleaning Results¹

Year	In-House		Contracted		Total
	Line Cleaned, feet	Line Cleaned, miles	Line Cleaned, feet	Line Cleaned, miles	
2012	137,787	26.1	-	-	12.6%
2013	226,463	42.9	-	-	20.7%
2014	67,815	12.8	-	-	6.2%
2015	253,756	48.1	-	-	23.2%
2016	501,902	95.1	240,481	45.5	67.8%
2017	356,284	67.5	92,649	17.5	41.0%
2018					
2019					
2020					
2021					
2022					

¹ Includes Troublespot cleaning

Table 4.3. Historical Sewer Line Hydrocleaning Results – Troublespot Only

Year	Line Cleaned, feet	Line Cleaned, miles	Percent of System
2012	97,770	18.5	8.9%
2013	80,058	15.2	7.3%
2014	54,796	10.4	5.0%
2015	55,735	10.6	5.1%
2016	76,403	14.5	7.0%
2017	78,377	14.8	7.2%
2018			
2019			
2020			
2021			
2022			

4.4.1 Root Control

The District has a formal root control program. Roots are noted as trouble spots cleaned at an established frequency using mechanical methods, (chain flail or root cutter), and root foaming.

Historical root treatment results are shown in **Table 4.4**.

Table 4.4. Historical Sewer Line Cleaning Results (Root Treatment)

Year	Line Treated, feet	Line Treated, miles	Percent of System
2012	-	-	-
2013	930	0.2	0.1%
2014	32,059	6.1	2.9%
2015	-	-	-
2016	-	-	-
2017	33,312	6.3	3.0%
2018			
2019			
2020			
2021			
2022			

4.4.2 Lift Station Operation and Maintenance

District maintenance staff performs weekly inspections and biannual wet well cleaning of its two lift stations.

The permanent Dublin Boulevard Lift Station is provided flow bypass relief through an existing 10" bypass line located in the next manhole upstream from the gravity inlet pipe. In an electrical outage, a generator is brought to the site to power the pumps. If bypass pumping is required, an overland bypass can be set up to discharge to the next downstream gravity manhole, located in the middle of Dublin Boulevard. An emergency response checklist was prepared for procedures during emergency situations. The checklist and an emergency bypass diagram are included in **Attachment B**.

The temporary Fallon Road Lift Station has approximately 1-hour of wetwell storage capacity during dry weather peak flow conditions. Bypass pumping requires approximately 1,200 feet of hose.

Full site-specific emergency plans for each lift station are planned to be developed within the next two years.

4.4.3 Siphon Operation and Maintenance

The District operates two siphons and has two creek crossings that are within the open channels. The Greenbrier siphon includes a flushing mechanism to enable automatic daily cleaning during cyclical low-flow periods, and is equipped with instrumentation to allow remote monitoring. The second siphon, located on Dublin Boulevard, has higher flows and is designed to be self-flushing. The Dublin Boulevard siphon is included in the trouble spot list of lines that are hydro flushed every six months.

4.4.4 Preventative vs. Corrective Maintenance

The District also tracks whether collection system maintenance is preventative or corrective in nature. **Table 4.5** shows the number of work orders and associated hours by maintenance type. Note that maintenance effort shown here includes tasks for both mains and equipment (electrical, SCADA, pumps, etc.) and contracted preventative maintenance is not included, as hourly data was not available for contracted work.

Table 4.5. Preventative vs. Corrective Maintenance

Year	No. of Work Orders		% of WOs with Labor Hours	Total Labor Hours	
	Preventative	Corrective		Preventative	Corrective
2012	73	4	100.0%	884	6
2013	210	9	99.1%	1,954	29
2014	82	26	96.3%	767	1,066
2015	196	2	86.4%	2,188	4
2016	481	-	76.1%	5,581	-
2017	418	27	82.5%	6,197	-
Totals	1,947	83		26,072	1,158
Percent of Total Maintenance	95.9%	4.1%		95.7%	4.3%

4.4.5 Odor Control

The District has no official collection system odor control program in place. However, if odor complaints are received, District crews respond with an on-site investigation. The District typically receives relatively few odor complaints because manholes are cleaned at the same time lines are hydro flushed. All complaints are entered into the District's Eden® customer account system.

4.4.6 Corrosion Control

The District has no official collection system corrosion control program. If corrosion is deemed a problem in the future, the District may choose to add such a program to its prioritized preventive maintenance.

4.4.7 Investigation of Customer Complaints

The District places high priority on responding to customer complaints about sewer service. Complaints are generally related to sewer stoppages, overflows, or, less frequently, odors. Detailed information about communication flow and the District's response procedures are included in the District's Collection System OERP, which is discussed further in Element 6. Response is performed by the collection system staff during work hours and the standby crew during non-working hours. Response includes making a field assessment of the complaint and taking necessary actions required to resolve the problem. Increased preventive maintenance may be required to minimize recurrence of the issue.

4.4.8 Maintenance Management and Work Orders

The District's sewer system inventory is contained in the Lacity Computerized Maintenance Management System (CMMS). Manhole and pipe data in the Lacity database are also linked to the District's GIS and AutoCAD map files through use of common manhole and pipe identifiers. Attribute information stored in

the database includes basin (geographic areas used as the basis for scheduling system cleaning and inspection), sewer map manhole numbers, pipe diameters and lengths, manhole diameters, rim and invert elevations, pipe and manhole materials, manhole cover type, pipe year of construction, surface cover, address, and other notes such as if the pipe is included in the trouble-spot cleaning schedule. The Lucity CMMS includes modules for generating work orders, maintaining system inventory and inspection information, and rating sewers based on inspection results. Any deficiencies noted during hydro flushing, specific trouble-spot information, and maintenance recommendations are logged in the District's Inframap field data collection system, and then imported regularly into Lucity.

4.4.9 Private Sewer Laterals

Customer sewer laterals are owned by the private property owner. Private ownership begins at the building envelope, extending up to and including the connection to the mainline. The District owns only the mainline and mainline appurtenances, excluding the connection.

Maintenance, inspection, and repair is the responsibility of the private property owner. Failures of the private sewer lateral are also the responsibility of the private property owner. District staff will respond to a report of a private SSO but will act only to protect local storm drains from receiving waste.

4.5 Scheduled Inspections, Condition Assessment, and Rehabilitation Plan

The District conducts inspections of its sewer facilities to evaluate their condition and identify needed repairs and rehabilitation.

4.5.1 Manhole Inspection

The District inspects manholes during hydrocleaning. Any deficiencies are noted and entered into the Lucity database. Urgent repairs are completed under an on-call contractor. Non-urgent repairs are grouped and developed into CIP projects along with other rehabilitation and repair projects.

4.5.2 Pipeline Inspection

CCTV inspections of the collection system are performed on a prioritized basis in coordination with the hydro cleaning schedule as described in Section 4.4. Historical CCTV inspection results are shown in **Table 4.6**.

Table 4.6. Historical Sewer Line Inspection Results (CCTV)²

Year	In-House		Contracted		Total
	Line Inspected, feet	Line Inspected, miles	Line Inspected, feet	Line Inspected, miles	
2012	20,259	3.8	-	0.0	1.9%
2013	74,970	14.2	-	0.0	6.8%
2014	1,691	0.3	27,287	5.2	2.6%
2015	102,314	19.4	14,565	2.8	10.7%
2016	115,799	21.9	234,317	44.4	32.0%
2017	117,541	22.3	98,628	18.7	19.7%
2018					
2019					
2020					
2021					
2022					

² In-house includes codes: CCTV Inspection - Priority; CCTV Inspections; Contracted includes codes: Contracted CCTV Inspection; Contracted CCTV Inspection with Sonar; Contracted CCTV Inspection with Sonar and Laser

In addition to inspection of existing pipelines, the District performs CCTV inspection on all new pipelines. The District's CCTV equipment records CCTV inspection information on DVDs and logs CCTV observations using Pipeline Observation System Management (POSM®) CCTV data capture software. CCTV data is also stored on two hard drives: one external drive and one drive in the computer located in the CCTV truck. The District uploads all data captured in POSM to Lucity. All available CCTV data obtained prior to implementation of the POSM system has also been uploaded to Lucity.

The POSM software contains a full set of CCTV "defect codes" based on the National Association of Sewer Service Companies (NASSCO) Pipeline Assessment Certification Program (PACP) system, which the District utilizes for recording CCTV observations.

4.5.3 Pipeline Condition Assessment and Rehabilitation Planning

CCTV reports and video are the basis for establishing needed system repairs. Results are logged using defect codes and a numerical rating scale (weights assigned to each type of defect). The ratings reflect the relative severity of the observed defects. The rating system is used as the basis of selection of pipes for sewer rehabilitation. Specifically, needed repairs are identified for defects with severity ratings of three or higher.

Repairs costing less than \$15,000 are completed by a local contractor under a District on-call service contract. For repairs estimated to cost between \$15,000 and \$25,000, three quotes are obtained. Larger repair projects are competitively bid. To date, sewer repair work has consisted primarily of spot repairs and pipe and manhole joint sealing. The District performed one pipe bursting, but no sewer lining projects.

Currently, the District's collection system is in very good condition, and relatively few needed repairs have been identified through previous CCTV inspections. The District has been able to fund and construct all needed repairs as they are identified.

The District has developed a system to assess the condition of each pipe and provide recommendations for prioritization of rehabilitation and replacement. Condition assessments are performed based on CCTV observations and remaining useful lives are estimated, along with replacement cost projections. The District's Finance department uses that information to forecast long-term facility replacement needs. As the CCTV work continues, more data will be added to the Lacity database, expanding the available information on which to make decisions.

4.5.4 Lift Station Inspections

District maintenance staff performs weekly inspections of its two lift stations. Weekly inspection records are located at the Field Operations Facility.

4.6 Contingency Equipment and Replacement Inventories

The District maintains a mutual aid list that provides the quantity and location of equipment that can be used during emergencies. Backup equipment includes portable pumps and generators (located at the WWTP). A spare pump for the Dublin Lift Station is stored at the field operations site (Bin #5). The District also stores specific types and sizes of pipe for minor emergency repairs at Field Operations Division. Additionally, DSRSD maintains a contract with a parts manufacturer for service 24 hours a day, 7 days a week. As a result, the District has not encountered any problems in obtaining necessary parts during an emergency. The cities of Pleasanton and Livermore operate identical hydro flushing equipment that the District can utilize in an emergency. Contract line clearing companies are also available as back-up alternatives.

DSRSD maintains a spreadsheet with information regarding District vehicles.

Attachment D provides an inventory of Major Sewer System Equipment, Critical Sewer System Replacement Parts, and Contact Information for Vendors and Contractors.

4.7 Training

DSRSD field operators are formally trained on topics such as Emergency Action Plan Training, Traffic Control, Hazardous Materials, Driver Safety, Utility Line Locating & Marking, Hearing Conservation, Industrial Ergonomics, Asbestos Concrete Pipe Cutting, Heat Illness Prevention, and other related safety procedures. All are required training topics for DSRSD field staff in accordance with the District's Injury Illness and Prevention Program. Compliance is tracked and monitored with the use of a LMS (Learning Management System) and compliance reports are regularly reviewed by Supervisors and Senior Management Personnel. All DSRSD collection systems operators must be certified by California Water Environment Association (CWEA).

Aside from formal technical seminars and conferences, on-the-job training given by experienced operators for new field operators is incorporated into daily activities. Operational training (e.g. operation of hydrocleaning equipment) occurs on the job – as needed and in tailgate sessions.

The District plans to implement formal training for its operations, maintenance, and monitoring staff covering updates to the SSMP and SSO response plan, as well as refreshers as needed.

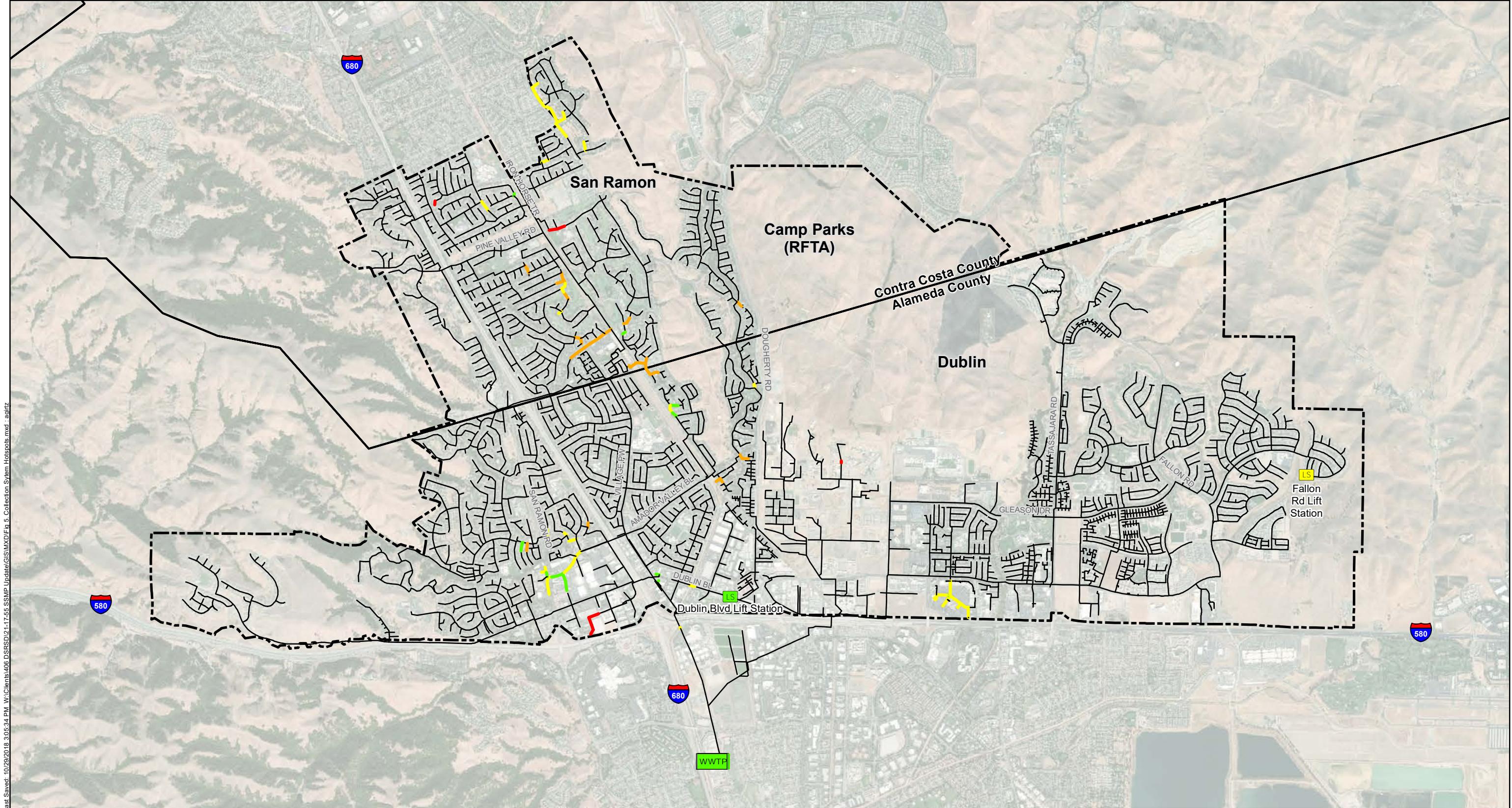
Contractors that perform District collection system maintenance tasks (CCTV or hydrocleaning) are provided project requirements and emergency response procedures at a project kick-off and/or regular tailgate meetings.

Emergency response procedures and design standards are conveyed to construction contractors at pre-construction meetings, regular project meetings and after any contractor involved incidents.

4.8 Outreach to Local Contractors and Plumbers

The District participates in the Bay Area Clean Water Agencies (BACWA) regional outreach program. The Bay Area Pollution Prevention Group (BAPPG), a subcommittee of BACWA develops regional resources and activities to help member agencies meet regulatory outreach requirements. In collaboration with BAPPG, DSRSD has produced a plumber and sewer contractor outreach flyer on SSO prevention and sewer lateral construction standards, provided in **Attachment E**. The District will distribute these flyers from the new permit counter, which is currently under construction.

To further District outreach, field operations and environmental compliance staff frequently communicate with construction and sewer cleaning companies in the District's service area to raise their awareness of actions that can clog or damage the District's collection system, such as dumping construction debris into manholes and illegal dumping of grease or septic waste. The District also includes numerous publications and links to other information on its website.



Symbology

— Gravity Mains

Troublespot Cleaning Frequency

— One Month Troublespot

— Three Month Troublespot

— Six Month Troublespot

— Twelve Month Troublespot

WWTP

LS Permanent Lift Station

LS Temporary Lift Station

Wastewater Service Boundary

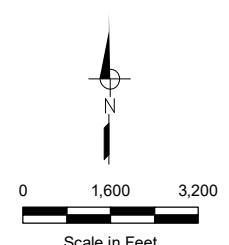


Figure 5
Collection System
Troublespot Cleaning Frequency
Dublin San Ramon Services District
2018 Sewer System Management Plan (SSMP) Update

ELEMENT 5. DESIGN AND PERFORMANCE PROVISIONS

SWRCB Waste Discharge Requirement:

- a. Design and construction standards and specifications for the installation of new sanitary sewer systems, lift stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems; and
- b. Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

5.1 Design and Construction Standards

DSRSD Standard Procedures, Specifications and Drawings for Design and Installation of Potable Water, Recycled Water and Wastewater Utilities identifies design and construction standards for installation of new District collection system facilities as well as any repairs, replacements, or relocations of facilities. The standards were reviewed and updated in 2014. The Standard Procedures, Specifications and Drawings document is included as **Attachment F**.

Section 1, General Requirements, includes general design information and criteria for pipelines and general construction requirements. Section III, Sewer System Requirements, includes design criteria for sewer main sizing, locations of a main, minimum cover, horizontal and vertical curves, manholes, dead-end mains and cleanouts, side sewers, pumping stations, special design considerations, grease and sand traps, grease interceptors; and construction standards for materials used in sewer construction, installation of sewer pipe and appurtenances, connections with existing facilities and testing, cleaning and TV inspection.

Section III-A1 contains provisions for sewer sizing. This includes required methods for determining design sewage flow for single- and multi-family dwellings, as well as required methods for determining minimum and maximum velocity and minimum slope and slope changes.

Section III-A2 defines where a sewer main is to be located (i.e. in streets, above ground, easements, etc.) and Section III-A3 states that the minimum cover of all sewer mains is five feet.

Section III-A4 defines the requirements for horizontal and vertical curves of sewer mains.

Section III-A5 contains provisions for manholes including the maximum distance between manholes for sewer mains of various diameters, location of manholes, slope of manhole channels, drop manholes, manholes in undeveloped areas, rim elevations of manholes, sampling manholes, and stubs for future sewer line extensions within manholes.

Section III-A6 defines District requirements for dead-end mains and cleanouts.

Section III-A7 includes District provisions for side sewers, including size, depth and grade, location, connection angle, maximum deflection, backflow prevention, and use of existing sewer and pipe material.

Section III-A8 prohibits the use of a pumping station unless approved in the event of an extraordinary circumstance.

Section III-A9 states that special design considerations (i.e. air/vacuum relief valves, blow-offs, siphons, etc.) will be examined by the District on a case-by-case basis.

Section III-A10 states the requirements for grease and sand traps and grease interceptors. All restaurants and other establishments with common food preparation facilities must have a grease interceptor on their side sewer; it must be outside the building and easily accessible for cleaning and inspection, appropriately sized, and approved by the District Engineer.

Section III-B defines the District's collection system construction standards, including construction materials for pipe, manholes, and saddle fittings (Section III-B1). Section III-B2 defines the installation of sewer pipe and appurtenance requirements. Section III-B3 contains the District's standards for connections with existing District facilities, including existing sewers and pipes of different materials.

5.2 Testing and Inspection Standards

Section III-B4 states the District's requirements for testing, cleaning, and television inspection. All sewers, force mains and laterals must be tested prior to connection to the house sewer. All sewer testing must be performed by air testing. A water exfiltration test may be required under special circumstances. Additionally, all PVC pipe must be checked by means of a pipe deflection gauge. Upon satisfactory completion of all testing and any subsequent repairs and adjustments, the entire system of new sewers and manholes must be cleaned in accordance with Section III-B4-7. Upon completion of all inspection and sewer cleaning, all new lines must undergo CCTV inspection by the District prior to acceptance.

5.3 Standard Drawings

The District's standard detail drawings contain plans for standard manholes, drop manholes, shallow manholes, manhole frame and covers, miscellaneous manhole details, manhole pads, typical side sewers, lateral sewer connections, cleanouts, sampling manholes, grease and sand traps, grease interceptors, and sampling boxes. Standard drawings can be downloaded individually from the District website: <http://www.dsrsd.com/do-business-with-us/planning-and-permitting/standard-procedures-specifications-and-drawings>.

ELEMENT 6. OVERFLOW EMERGENCY RESPONSE PLAN (OERP)

SWRCB Waste Discharge Requirement:

Each Enrollee shall develop and implement an Overflow Emergency Response Plan (OERP) that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- a. Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- b. A program to ensure an appropriate response to all overflows;
- c. Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Monitoring and Reporting Program (MRP). All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board WDRs or NPDES permit requirements. The SSMP should identify the officials who will receive immediate notification;
- d. Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- e. Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- f. A program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to waters of the United States and to minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

6.1 DSRSD OERP Compliance

DSRSD has completed an Overflow Emergency Response Plan (March 2017) that is in compliance with both SWRCB and RWQCB SSMP OERP requirements. This plan will be updated annually by the Field Operations Supervisor. The full OERP document is included in **Attachment B**.

6.2 DSRSD OERP Components Overview

The DSRSD OERP contains all the required SWRCB and RWQCB components as well as additional supporting information. The DSRSD OERP is organized as follows:

1. Introduction (purpose, policy, regulatory requirements and definitions, goals)
2. SSO Detection and Notification
3. SSO Response Procedures
4. Recovery and Cleanup
5. Water Quality
6. SSOs Into/Onto Private Property
7. Notification, Reporting, Monitoring, and Recordkeeping Requirements

8. Post-SSO Event Debriefing
9. Failure Analysis Investigation
10. SSO Response Training
11. Authority

Appendices found in Attachment B

12. Appendix A – Regulatory Notifications Packet (RN)
13. Appendix B – SSO/Backup Response Packet
14. Appendix C – Field Sampling Kit
15. Appendix D – Contractor Orientation

6.2.1 Detection and Notification Procedures

Section 6 describes ways that spills are detected and how these spills are communicated to the appropriate agencies and individuals, both during and outside of normal working hours. Additionally, flowcharts illustrating spill detection, notification and response communication processes for DSRSD are included. Refer to Element 2 (Organization) for a flow chart depicting the chain of communication and to OERP Appendix A – Regulatory Notifications Packet (RN) Procedures for Reporting Spills.

6.2.2 Response and Reporting Procedures

Section 7 describes the procedures to be followed when responding to and addressing spills, including priorities, traffic, safety, initial response, containment or bypass, and special consideration in sensitive areas.

OERP Appendix A – Regulatory Notifications Packet provides detailed response and reporting requirements for each type of SSO. Section 9 describes the reporting requirements after identification of a Category 1 SSO ($\geq 50,000$ gallons) including water quality sampling, water quality monitoring plan, and reporting to CIWQS.

6.2.3 Mitigation

Section 8 describes procedures for recovery and cleanup after flow has been restored, addressing cleanup under a variety of conditions including: hard surfaces (exterior), landscaped and unimproved natural vegetation, natural waterways, and private property (interior).

This section also addresses communications with the public during and after a spill event. Public notification is required when an SSO poses a threat to the environment or as directed by the County Environmental Health Department. Contamination warning signs shall be posted at visible locations at the direction of the Field Operations Supervisor and not removed until directed. The warning signs serve to provide a warning of potential health risks due to sewage contamination.

6.2.4 Staff and Contractor Training Procedures

Section 14 provides information on the training that is required to support the OERP and SSO response. Training includes: initial training for all District personnel who may have a role in responding to, reporting, and/or mitigating an SSO, prior to being placed in a position where they may have to respond. Annual refresher training is given for all affected employees. Training verification will be achieved through electronic testing, SSO response drills, interviews, and observations.

Contractors working on District sewer facilities will be required to develop a project-specific OERP and will provide training for all personnel on their role in the event of an SSO. OERP Appendix D includes Contractor Orientation materials.

ELEMENT 7. FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM

SWRCB Waste Discharge Requirement:

Each Enrollee shall evaluate its service area to determine whether a FOG control program is needed. If an Enrollee determines that a FOG program is not needed, the Enrollee must provide justification for why it is not needed. If FOG is found to be a problem, the Enrollee must prepare and implement a FOG source control program to reduce the amount of these substances discharged to the sanitary sewer system. This plan shall include the following as appropriate:

- a. An implementation plan and schedule for a public education outreach program that promotes proper disposal of FOG;
- b. A plan and schedule for the disposal of FOG generated within the sanitary sewer system service area. This may include a list of acceptable disposal facilities and/or additional facilities needed to adequately dispose of FOG generated within a sanitary sewer system service area;
- c. The legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG;
- d. Requirements to install grease removal devices (such as traps or interceptors), design standards for the removal devices, maintenance requirements, BMP requirements, record keeping and reporting requirements;
- e. Authority to inspect grease producing facilities, enforcement authorities, and whether the Enrollee has sufficient staff to inspect and enforce the FOG ordinance;
- f. An identification of sanitary sewer system sections subject to FOG blockages and establishment of a cleaning maintenance schedule for each section; and
- g. Development and implementation of source control measures for all sources of FOG discharged to the sanitary sewer system for each section identified in (f) above.

7.1 Nature and Extent of FOG Problems

Historically, the District's SSOs have been limited to one or two a year. Since 2012 there have been five SSOs in the District and only one has been caused by FOG problems. In the past, District has identified sewers with chronic maintenance problems and placed these sewers on a program of "trouble-spot hydro flushing at intervals of one, three, or six months". SSO sites are automatically added to the list of "trouble-spots" that are scheduled to have a preventive maintenance frequency of one, three, or six months. Trouble-spots are monitored by Staff in the field and are documented using the CMMS and GIS to coordinate inspections. Trouble-spots receive increased cleaning, inspection and records verification.

SSO's that are determined to have been caused by FOG are investigated until the source is determined and corrected. The District will continue to evaluate trouble-spots as it completes ongoing closed-circuit television (CCTV) inspections with the objective to eliminate as many as can be practically done.

The low number of FOG related SSOs is due to an effective commercial grease trap source control program (see description below) that is supported by an effective preventive maintenance program. Therefore, the District plans to continue its source control and preventive maintenance programs.

7.2 FOG Source Control Program

The District's Grease Inspection Program has the following goals:

1. Ensure that grease traps or interceptors are functioning properly
2. Service the equipment at proper time intervals
3. Check the overall integrity of the equipment
4. Comply with the WWTP pretreatment requirements

7.2.1 Preventive Maintenance

The District's FOG source control program and its preventive maintenance program are focused on problematic grease dischargers and problematic sewer line segments. Problematic sewer lines have been placed on one-, three-, and six-month cleaning schedules.

7.2.2 Legal Authority to Prevent FOG

Legal authority to prohibit discharges to the system and identify measures to prevent SSOs and blockages caused by FOG is provided by the District Code, Chapter 5.20.040 (the District code can be accessed via the District's website, as noted in Section 3.1). Specifically, District Code provides authority for the following:

- Prohibit grease disposal by restaurants into sewer system or WWTP
- Require the installation of grease traps and interceptors
- Require maintenance and inspection of grease trap and interceptors

7.2.3 Source Control Program

The District mandates that food handling establishments use grease traps or interceptors to collect FOG to prevent it from entering the wastewater collection system and treatment equipment. The District's environmental compliance staff inspects each facility annually and collects and reviews grease interceptor maintenance records to confirm adherence to District Code.

The District's grease inspection program covers approximately 225 commercial facilities organized into twelve service areas. Some facilities have multiple grease traps or interceptors, for a total of approximately 265 grease control devices within the District service area. On average, 94 percent of all grease traps and interceptors are in compliance in any given year. In addition, field operations staff conducts issue-specific inspections when FOG-related SSOs are suspected.

7.2.4 Grease Disposal

The majority of grease haulers dispose of grease pumped from interceptors at a grease collection facility located at one or more wastewater treatment plant facilities in the area, including the East Bay Municipal Utility District (EBMUD) Wastewater Treatment Plant. Some haulers have facilities to recycle the grease to produce biodiesel. There are potential benefits to the community, the environment, and the District in receiving FOG for digestion. The District is completing the construction of a new Digester with startup planned in October 2018. The Digester includes a FOG receiving station configured to accept FOG waste from grease haulers in the service area. The District anticipates beginning to receive FOG waste in 2019.

7.2.5 Public Education

The District currently manages FOG-related problems through a District-wide grease inspection and a public education outreach program. The following is a summary of the tools used by the District to educate its customers for FOG and other items that can cause sewer system blockages.

- Website information
- Customer newsletter (also included information about diapers, wipes, roots)
- Flyers inserted into customers' bills
- Signage on District trucks
- Outreach during holiday season about proper disposal of turkey fryer oil

These programs are developed and implemented by the District's Public Information Division, which is located within the Organizational Services department. The District web site contains information about Best Management Practices (BMPs) for handling and disposing of household FOG.

A sampling of outreach materials is included in **Attachment G**.

ELEMENT 8. SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

SWRCB Waste Discharge Requirement:

The Enrollee shall prepare and implement a CIP that will provide hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the CIP must include:

- a. **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape from the system) associated with conditions similar to those causing overflow events, estimates of the capacity of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;
- b. **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and
- c. **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP shall include an implementation schedule and shall identify sources of funding.

Schedule: The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule shall be reviewed and updated consistent with the SSMP review and update requirements as described in Section D.14.

8.1 Capacity Assessment

The District assesses the capacity of its wastewater collection system as part of regular updates to its Wastewater Collection System Master Plan. These updates take place periodically, whenever substantial changes to the District's system warrant. The most current version (2017 Wastewater Collection System Master Plan, West Yost) is referenced here and included as **Attachment H**. The document can also be found on the District website at: <https://www.dsrsd.com/about-us/library/plans-studies>

The recent Master Planning efforts have included the following tasks:

Flow Monitoring: Flow monitoring was performed between March 15, 2017 and May 26, 2017 at a total of 15 flow monitoring locations and two rainfall gauging sites. Results were used to estimate peaking factors and associated RDII (rainfall-dependent inflow and infiltration) and GWI (groundwater infiltration) entering the system.

Development of Wastewater Collection System Flows: Average and peak flows under dry and wet weather conditions were developed using 2017 flow monitoring data, historical flow data from the WWTP, and a method to characterize the RDII response to a rainfall event (RTK Method). The report also examined the impact of the mid-2010s drought and demand rebound on water demand and wastewater flows.

Update of Hydraulic Model: The existing H2OMap Sewer hydraulic model was updated to the InfoSewer hydraulic modeling platform. The model infrastructure was reviewed updated through comparison to the District's GIS database of the collection system. Major updates included: addition of infrastructure

constructed later than the previous Master Plan (2005); correction of discrepancies in gravity main invert, diameters, and manhole rim elevations; and inactivation of infrastructure that was shown in the model but did not exist in GIS.

Review of Design Flow Criteria: Performance criteria from the District's Standard Procedures, Specifications and Drawings for Wastewater Utilities (District Standards) and from the 2005 Collection System Master Plan was reviewed for use in the CSMP. Key criteria include:

- Maximum allowable flow, in the form of q/Q ratio: maximum flow in the pipe under design conditions (q) to the full pipe capacity (Q). At various times in the past, the District has used both d/D ratios and q/Q ratios to express the maximum allowable flow in gravity mains. It was decided to use a q/Q ratio for this CSMP.
- Design velocities and minimum slopes
- Force main velocities

Capacity Analysis: The capacity of the District's collection system was evaluated based on performance criteria discussed above, for both existing and future condition scenarios. Gravity mains which did not meet performance criteria were identified along with the deficiency classification (major deficiency, minor deficiency, or zero/negative slope), the magnitude of the capacity deficiency, and the upstream and downstream invert elevation source. Force mains were assessed for design flow, firm capacity, and peak velocity.

Long-term Management Strategy: This section evaluated the collection system from a long-term perspective including both capacity and condition of the collection system assets. Policy issues related to private sewer laterals were reviewed, including a review of lateral policy and practice options, and lateral program funding options. A basin-level I&I analysis was performed to identify candidates for high-value long-term management strategies and to better understand the cause of the hydraulic deficiencies. I&I reduction projects were presented as an alternative to upsizing for capacity-related deficiencies.

Prioritized CIP: Deficient infrastructure identified in the capacity analysis were used to develop a recommended Capital Improvement Program (CIP). CIP projects were prioritized based on the development timeline that drives the need for the project as well as the risk posed by the deficiency being corrected or each project. Conceptual costs for each project were developed, along with sources of funding.

8.1.1 System Evaluation and Capacity Assurance Plan

The District's long-term CIP is developed as part of a 10-year plan, the most recent being the 2018-2027 Ten Year Plan. Within the Ten-Year Plan, two-year budgets are set based on near-term project requirements. The District's current CIP is available on the District's website: <http://www.dsrsd.com/about-us/library/financial-information>. The CIP includes a proposed schedule for implementing the recommended sewer improvement projects, budget-level cost estimates for each project, and sources of funding (expansion or replacement funds).

The 2018 Master Plan Update identified five sewer relief projects needed to address potential capacity deficiencies. This included three "near term" projects and two future flow projects. Near term projects will be integrated into the 2020-2021 Two Year Budget. Future flow projects will be incorporated as indicated by development timing.

ELEMENT 9. MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS

SWRCB Waste Discharge Requirement:

The Enrollee shall:

- a. Maintain relevant information that can be used to establish and prioritize appropriate SSMP activities;
- b. Monitor the implementation and, where appropriate, measure the effectiveness of each element of the SSMP;
- c. Assess the success of the preventative maintenance program;
- d. Update program elements, as appropriate, based on monitoring or performance evaluations; and
- e. Identify and illustrate SSO trends, including: frequency, location, and volume.

9.1 Monitoring, Measurement, and Program Modifications

9.1.1 Maintaining and Tracking Information

SSO RECORDS

The District maintains SSO, spill, and records of SSO events in the form of an internal investigation and Regulatory Incident Report. Hardcopies are filed in the WWTP Operations Manager's office, with any other reports related to the event. The District uses the State's CIWQS electronic SSO reporting system, which records the number, volume, locations, and causes of SSOs. All complaints received by the District are entered into the District's Eden system.

PIPE INSPECTION AND CLEANING RECORDS

Important information on the District's collection system, including pipe history, trouble-spot, cleaning schedule, etc., is contained in the Lucy Computerized Maintenance Management System (CMMS) as previously discussed in Section 4.4.8. The Lucy CMMS includes modules for generating work orders, maintaining system inventory and inspection information, and rating sewers based on inspection results. Additionally, the District conducts inspections of its sewer facilities to evaluate their condition and identify needed repairs and rehabilitation.

SSMP AUDITS

The District has conducted periodic audits of the SSMP to monitor the effectiveness of the program for its operation, maintenance, or management activities. DSRSD maintains records on sewer condition, repairs, frequency of cleaning and inspection, number, size and nature of SSOs, etc., in its Lucy system that is described below.

9.1.2 Measuring Effectiveness of SSMP Elements

The District will update elements of this plan and its monitoring program in the future as necessary, if significant changes occur in the District's infrastructure, service area demands, or organizational structure, as appropriate.

With the information available in the CMMS and the SSO reporting system, the District is able to measure the effectiveness of the SSMP and maintenance program by tracking various parameters related to service calls, maintenance and inspection activities, as well as by comparing SSO trends from previous years and identifying system components that may contribute to system failures. Current metrics include:

- Number and Volume of SSOs per year
- Length gravity sewers cleaned per year
- Length of gravity sewers inspected with CCTV per year

The District is planning to advance these metrics and develop key performance indicators (KPIs) which align with the AWWA Utility Benchmarking framework and performance management guidelines.

9.1.3 Updating SSMP Elements

The District will update elements of this plan and its monitoring program in the future as necessary, if significant changes occur in the District's infrastructure, service area demands, or organizational structure, as appropriate.

9.1.4 SSO Trends

Table 9.1 shows the number of SSOs per year by cause of failure.

Table 9.1. Historical SSOs by Failure Cause

Year	FOG	Roots	Debris	Other	Total
2008	1	-	1	-	2
2009	-	-	-	-	0
2010	1	-	-	-	1
2011	2	-	1	-	3
2012	1	-	-	1	2
2013	-	-	-	-	0
2014	-	2	1	-	3
2015	-	-	-	-	0
2016	-	-	-	-	0
2017	-	-	-	-	0

Data retrieved from CIWQS August 2018

Table 9.2 shows the volume of SSOs including total volume, portion recovered, and total volume entering surface waters.

Table 9.2. Historical SSOs Volumes

Year	Total Volume, gallons	Volume Recovered, gallons	Portion Recovered and returned to Sewers, %	Total Volume Entering Surface Waters, gallons
2008	18,450	1,050	6%	17,400
2009	-	-	-	-
2010	300	100	33%	200
2011	3,225	3,125	97%	0
2012	20,650	0	0%	20,650
2013	-	-	-	-
2014	25,495	19,620	77%	0
2015	-	-	-	-
2016	-	-	-	-
2017	-	-	-	-

Data retrieved from CIWQS August 2018

ELEMENT 10. SSMP AUDITS

SWRCB Waste Discharge Requirement:

As part of the SSMP, the Enrollee shall conduct periodic internal audits, appropriate to the size of the system and the number of SSOs. At a minimum, these audits must occur every two years and a report must be prepared and kept on file. This audit shall focus on evaluating the effectiveness of the SSMP and the Enrollee's compliance with the SSMP requirements identified in the WDR, including identification of any deficiencies in the SSMP and steps to correct them.

10.1 SSMP Audits

The District will complete semiannual audits of its SSMP covering the calendar year. The audit will be completed internally, by an appropriate third-party auditor, or possibly through a peer review process involving neighboring agencies. The audit will include the following tasks:

- Review progress made in developing SSMP elements
- Review monitoring and measurement tracked under Element 9
- Identify successes in implementing SSMP elements and needed improvements
- Describe system improvements during the past year
- Describe system improvements planned for the upcoming year
- Complete an SSMP Audit Checklist

10.1.1 Audit Documents

The SSMP Audit Checklist, included in **Attachment I** is used to guide the audit process and includes the GWDR requirements for each SSMP element. The results of the audit, including the identification of any deficiencies and the steps taken or planned to correct deficiencies will be included in an Audit Report. Future modifications and changes to the SSMP will be identified and tracked in a Change Log, included as **Attachment J**.

10.1.2 Previous Audits

Upon completion of an audit, the District will include a copy of the Audit Report in **Attachment I** of this SSMP. The 2012 SSMP was audited in October 2018; the report is included in **Attachment I**.

ELEMENT 11. COMMUNICATION PROGRAM

SWRCB Waste Discharge Requirement:

The Enrollee shall communicate on a regular basis with the public on the development, implementation, and performance of its SSMP. The communication system shall provide the public the opportunity to provide input to the Enrollee as the program is developed and implemented.

The Enrollee shall also create a plan of communication with systems that are tributary and/or satellite to the Enrollee's sanitary sewer system.

11.1 Communication Program

The District has a well-established public outreach program. DSRSD's website (www.dsrsd.com) is an effective communication channel for providing alerts and news to the public and this SSMP is posted on the District website. The website provides the schedule and agendas for upcoming Board meetings, as well as minutes from previous meetings. The public has an opportunity to review, comment, and provide input on SSMP revisions through these meetings. DSRSD also publishes on its website various reports and plans related to its wastewater collection system.

The DSRSD Board of Directors has agency liaisons that communicate with each of the District's tributary and satellite agencies.

DSRSD has used its website and other means of communication to educate the public about a variety of environmental issues related to wastewater collection. As an example, the District's public outreach efforts regarding FOG control was presented in Section 7.2.5.

ATTACHMENT A

Contact Information for Responsible Officials in SSMP Content Development

Attachment A. Contact Info for Responsible Officials in SSMP Content Development

Position	Name	Contact Info
General Manager	Dan McIntyre	P:925-875-2200 email:mcintyre@dsrsd.com
District Engineer/Engineering Services Manager	Judy Zavadil	P:925-875-2272 email:zavadil@dsrsd.com
Operations Manager	Jeff Carson	P:925-875-2345 email:carson@dsrsd.com
Wastewater Treatment Plant Operations Supervisor	Levi Fuller	P:925-875-2300 email:fuller@dsrsd.com
Process Lead WWTP Operator	Virgil Sevilla	P:925-875-2317 email:sevilla@dsrsd.com
Water/Wastewater Systems Operations and Maintenance Supervisor	Dan Martin	P:925-875-2367 email:dmartin@dsrsd.com
Water/Wastewater Systems Lead Operator	Scott Roberson	P:925-875-2372 email:roberson@dsrsd.com
Water/Wastewater Systems Lead Operator	Daniel Leonardo	P:925-875-2355 email:leonardo@dsrsd.com

ATTACHMENT B

Overflow Emergency Response Plan (OERP); District Procedures for Reporting Spills; and Dublin Lift Station Emergency Information

Dublin San Ramon Services District

Overflow Emergency Response Plan



Effective Date: _____

Revised Date: _____

Approved by: _____

Signature: _____

Date: _____

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(ref. SWRCB Order No. 2006-0003-DWQ Element VI)

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Sanitary Sewer Overflow Emergency Response Plan

(ref. SWRCB Order No. 2006-0003-DWQ Element VI)

1. Purpose

The purpose of the Dublin San Ramon Services District Emergency Response Plan (OERP) is to support an orderly and effective response to Sanitary Sewer Overflows (SSOs). The OERP provides guidelines for District personnel to follow in responding to, cleaning up, and reporting SSOs that may occur within the District's service area. This OERP satisfies the SWRCB Statewide General Waste Discharge Requirements (GWDR), which require wastewater collection agencies to have an Overflow Emergency Response Plan.

2. Policy

The District's employees are required to report all wastewater overflows found and to take the appropriate action to secure the wastewater overflow area, properly report to the appropriate regulatory agencies, relieve the cause of the overflow, and ensure that the affected area is cleaned as soon as possible to minimize health hazards to the public and protect the environment. The District's goal is to respond to sewer system overflows as soon as possible following notification. The District will follow reporting procedures in regards to sewer spills as set forth by the San Francisco Regional Water Quality Control Board (SFRWQCB) and the California State Water Resources Control Board (SWRCB).

3. Definitions As Used In This OERP

BUILDING DRAIN – The building drain is that part of the lowest wastewater piping which receives the discharge from drain pipes inside the walls of a building or structure and conveys it to the private lateral (generally connecting within 2' of the building wall).

BUILDING SEWER – Private Sewer Facilities that convey wastewater from the premises of a Customer to the Public Sewer System.

BUILDING WASTEWATER PIPELINES – The building wastewater pipelines are those black or grey water pipes installed within the walls of a building or structure that connect to the building drain. Building wastewater pipelines may include interior sump systems, grease traps or other appurtenances.

CALIFORNIA INTEGRATED WATER QUALITY SYSTEM (CIWQS): Refers to the State Water Resources Control Board online electronic reporting system that is used to report SSOs, certify completion of the SSMP, and provide information on the sanitary sewer system.

FOG – Fats, Oils, and Grease: FOG refers to fats, oils, and grease typically associated with food preparation and cooking activities that can cause blockages in the sanitary sewer system.

LEGALLY RESPONSIBLE OFFICIAL (LRO): Refers to an individual who has the authority to certify reports and other actions that are submitted through CIWQS.

MAINLINE SEWER: Refers to District wastewater collection system piping that is not a private lateral connection to a user.

MAINTENANCE HOLE OR MANHOLE: Refers to an engineered structure that is intended to provide access to a sanitary sewer for maintenance and inspection.

NOTIFICATION OF AN SSO: Refers to the time at which the District becomes aware of an SSO event through observation or notification by the public or other source.

NUISANCE - California Water Code section 13050, subdivision (m), defines nuisance as anything that meets all of the following requirements:

- a. Is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property.
- b. Affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.
- c. Occurs during, or as a result of, the treatment or disposal of wastes.

PREVENTATIVE MAINTENANCE: Refers to maintenance activities intended to prevent failures of the wastewater collection system facilities (e.g. cleaning, CCTV, inspection).

PRIVATE LATERAL(S) – That part of the generally horizontal piping of a drainage system which extends from the end of the building drain and which receives the wastewater discharge from the structure and conveys it to a public sewer or other on-site individual sewage disposal system (septic system). The Private lateral begins at Building Drain and extends to and including the wye or point of connection with the public sewer. Private laterals may include privately owned pipelines, sump systems, interceptors or other appurtenances within private streets or private property common areas that are not dedicated to or owned by the District. Private laterals may also begin at the building drain and extend to a private sewer disposal system.

PRIVATE LATERAL SEWAGE DISCHARGES – Sewage discharges that are caused by blockages or other problems within a privately owned lateral.

PRIVATE SEWER DISPOSAL SYSTEM – The pipelines and points of connection of a building drain to a grease interceptor, an individual sewage disposal system (septic system), holding tank or other private point of disposal unaffiliated with the public sewer comprises a private sewer disposal system.

PRIVATE SEWER FACILITIES – Sewer facilities that are privately constructed and not dedicated and accepted as a Public Sewer Facility by the District. Private Sewer Facilities generally include sewer facilities within a privately owned building, service laterals, private pump stations, grease interceptors, and all other facilities located between the sewer customer and the connection to the collection line, including the integral wye fitting that connects the lateral to a collection line. Sewer facilities intended for dedication to the District are Private Sewer Facilities until such time as they are accepted by the District.

PUBLIC SEWER – A public sewer is the sewer collection system owned by the District lying within limits of public streets, roads, easements, reserves, non-exclusive easements or other public rights of way and downstream of the wye or cleanout on a Private lateral nearest to a sewer main. The location of a Private lateral within any public street or right of way does not convert it to a public sewer owned by the District unless the District has taken an affirmative action to accept ownership. Public sewer facilities owned and maintained by the District, including facilities designed and constructed by the District and facilities that have been dedicated and accepted by the District. Private Sewer Facilities constructed for dedication to the District do not become public sewers until they have been accepted by the District.

PUBLIC SEWER FACILITIES OR PUBLIC SEWER SYSTEM – Sewer facilities owned and maintained by the District, including facilities designed and constructed by the District and facilities that have been dedicated and accepted by the District. Private Sewer Facilities constructed for dedication to the District do not become Public Sewer Facilities until they have been accepted by the District.

ROOTS (R) Tree root (R) invasion presents an additional problem. If a mat of root hair forms in the sewer line it slows the flow of wastewater and exacerbates the rate of accumulation of FOG materials.

SANITARY SEWER BACKUP (BACKUP) - Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

SANITARY SEWER OVERFLOW (SSO) - Any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system. SSOs include:

- (i) Overflows or releases of untreated or partially treated wastewater that reach waters of the United States;
- (ii) Overflows or releases of untreated or partially treated wastewater that do not reach waters of the United States; and
- (iii) Wastewater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of a sanitary sewer system.

SSOs that include multiple appearance points resulting from a single cause will be considered one SSO for documentation and reporting purposes in CIWQS.

NOTE: Wastewater backups into buildings caused by a blockage or other malfunction of a building lateral that is privately owned are not SSOs.

SSO Categories:

Category 1: Discharge of untreated or partially treated wastewater of any volume resulting from a sanitary sewer system failure or flow condition that either:

- Reaches surface water and/or drainage channel tributary to a surface water; or
- Reached a Municipal Separate Storm Sewer System (MS4) and was not fully captured and returned to the sanitary sewer system or otherwise captured and disposed of properly.

Category 2: Discharge of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from a sanitary sewer system failure or flow condition that either:

- Does not reach surface water, a drainage channel, or an MS4, or
- The entire SSO discharged to the storm drain system was fully recovered and disposed of properly.

Category 3: All other discharges of untreated or partially treated wastewater resulting from a sanitary sewer system failure or flow condition.

SANITARY SEWER SYSTEM: Any publicly-owned system of pipes, pump stations, sewer lines, or other conveyances, upstream of a wastewater treatment plant headworks used to collect and convey wastewater to the publicly owned treatment facility. Temporary storage and conveyance facilities (such as vaults, temporary piping, construction trenches, wet wells, impoundments, tanks, etc.) are considered to be part of the sanitary sewer system, and discharges into these temporary storage facilities are not considered to be SSOs.

SENSITIVE AREA: Refers to areas where an SSO could result in a fish kill or pose an imminent or substantial danger to human health (e.g. parks, aquatic habitats, etc.)

SERVICE LATERAL OR LOWER LATERAL – Sewer pipeline from the cleanout or in the absence of a cleanout located in public streets, roads, easements, reserves, non-exclusive easements or other public rights of way to the collection line are District assets. Lower laterals intended for dedication to the District are Private Sewer Facilities until such time as they are accepted by the District.

UNTREATED OR PARTIALLY TREATED WASTEWATER: Any volume of waste discharged from the sanitary sewer system upstream of a wastewater treatment plant headworks.

WATERS OF THE STATE: Waters of the State (or waters of the United States) means any surface water, including saline waters, within the boundaries of California. In case of a sewage spill, storm drains are considered to be waters of the State unless the sewage is completely contained and returned to the wastewater collection system and that portion of the storm drain is cleaned.

4. State Regulatory Requirements for Element 6, Overflow Emergency Response Plan

General Waste Discharge Requirement (GWDR)

The collection system agency shall develop and implement an overflow emergency response plan that identifies measures to protect public health and the environment. At a minimum, this plan must include the following:

- (a) Proper notification procedures so that the primary responders and regulatory agencies are informed of all SSOs in a timely manner;
- (b) A program to ensure appropriate response to all overflows;
- (c) Procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, regional water boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Monitoring and Reporting Program (MRP). All SSOs shall be reported in accordance with this MRP, the California Water Code, other State Law, and other applicable Regional Water Board Waste Discharge Requirements or National Pollutant Discharge Elimination System (NPDES) permit requirements. The Sewer System Management Plan should identify the officials who will receive immediate notification;
- (d) Procedures to ensure that appropriate staff and contractor personnel are aware of and follow the Emergency Response Plan and are appropriately trained;
- (e) Procedures to address emergency operations, such as traffic and crowd control and other necessary response activities; and
- (f) A program to ensure that all reasonable steps are taken to contain untreated wastewater and prevent discharge of untreated wastewater to Waters of the United States and minimize or correct any adverse impact on the environment resulting from the SSOs, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the discharge.

The Sewer System Management Plan and critical supporting documents are available to the public on the District's website: www.dsrsd.com.

5. Goals

The District's goals with respect to responding to SSOs are:

- Work safely;
- Respond quickly to minimize the volume of the SSO;
- Eliminate the cause of the SSO;
- Prevent sewage system overflows or leaks from entering the storm drain system or receiving waters to the maximum extent practicable;
- Contain the spilled wastewater to the extent feasible;
- Minimize public contact with the spilled wastewater;
- Mitigate the impact of the SSO;
- Meet the regulatory reporting requirements;
- Evaluate the causes of failure related to certain SSOs; and
- Revise response procedures resulting from the debrief and failure analysis of certain SSOs.

6. SSO Detection and Notification

ref. SWRCB Order No. 2006-0003-DWQ VI(a)

The processes that are employed to notify the District of the occurrence of an SSO include: observation by the public, receipt of an alarm, or observation by District staff during the normal course of their work.

In the event of any pump failure at a District wastewater lift station, the high level sensor activates the SCADA alarm system and the District is contacted. To prevent overflow, wastewater from the wet well can either be pumped into a vacuum truck for disposal to a nearby sanitary sewer manhole, or bypassed around the station into the sanitary sewer system.

6.1 PUBLIC OBSERVATION

Public observation is the most common way that the District is notified of blockages and spills. Contact numbers and information for reporting sewer spills and backups are in the phone book and on the District's website: www.dsrsd.org. **The District's telephone number for reporting sewer problems are (925) 828-8524 during business hours, and (925) 462-1212 or 911 after hours.**

Normal Work Hours

When a report of a sewer spill or backup is made during business hours, the District's Receptionist receives the call, collects basic information about the caller and the problem, and forwards the request to the On Call Operator (or designee) who will dispatch a crew as appropriate based on the location and nature of the problem.

After Hours

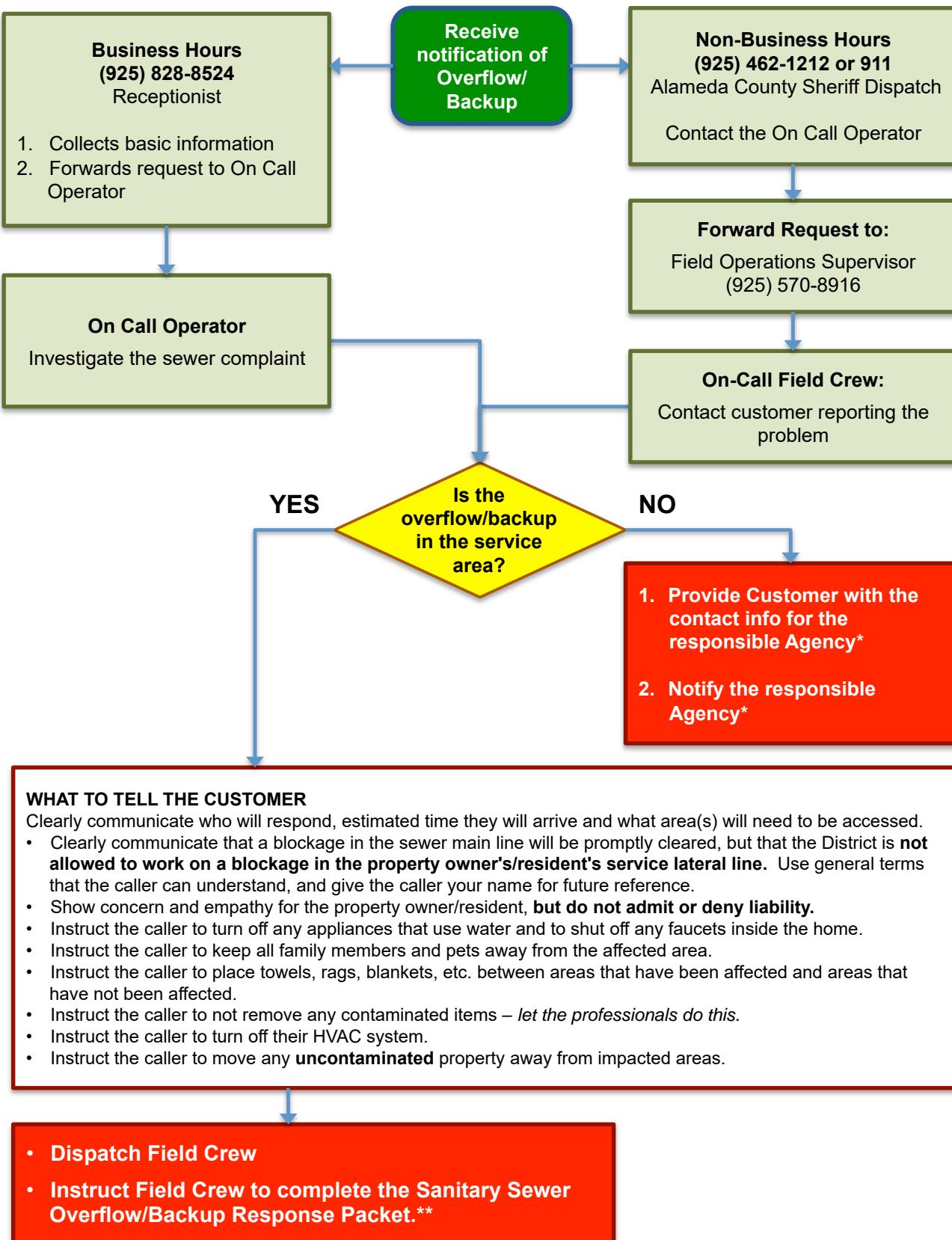
After hours calls are received by the Alameda County Sheriff Dispatch. The call is forwarded to the On Call Operator. The request is forwarded to the Field Operations Supervisor who will dispatch a crew as appropriate based on the location and nature of the problem.

When calls are received, either during normal work hours or after hours, the individual receiving the call will collect the following information:

- Time and date of call
- Specific location of potential overflow or incident
- Nature of call
- In case of SSO, estimated start time of overflow and how long it has been occurring
- Caller's name, telephone number and address
- Caller's observations (e.g., odor, duration, location on property, known impacts, indication if surface water impacted, appearance at cleanout or manhole)
- Other relevant information

Figure 6.1 is an overview of the procedure for receiving a sewage overflow or backup report (see next page):

Fig. 6.1 Overview of Receiving a Sewage Overflow or Backup Report Procedure



* This information can be found in Attachment B, Appendix A (Regulatory Notification Packet).

** This information can be found in Attachment B, Appendix B (Sanitary Sewer Overflow/Backup Response Packet). Blank packets can be found in all Field Operations Division vehicles.

6.2 DISTRICT STAFF OBSERVATION

District staff conducts periodic inspections of its sewer system facilities as part of their routine activities. Any problems noted with the sewer system facilities are reported to appropriate District staff that, in turn, responds to emergency situations. Work orders are issued to correct non-emergency conditions.

6.3 CONTRACTOR OBSERVATION

The following procedures are to be followed in the event that a contractor causes or witnesses a Sanitary Sewer Overflow. If the contractor causes or witnesses an SSO they should:

1. Immediately notify the District by calling (925) 828-8524 during business hours, and (925) 462-1212 or 911 after hours.
2. Protect storm drains.
3. Protect the public.
4. Provide information to the Field Crew such as start time, appearance point(s), suspected cause, weather conditions, etc.
5. Direct ALL media and public relations requests to the Office of the General Manager at (925) 828-0515.

Appendix C includes a handout for Contractors with a flowchart of the above procedures.

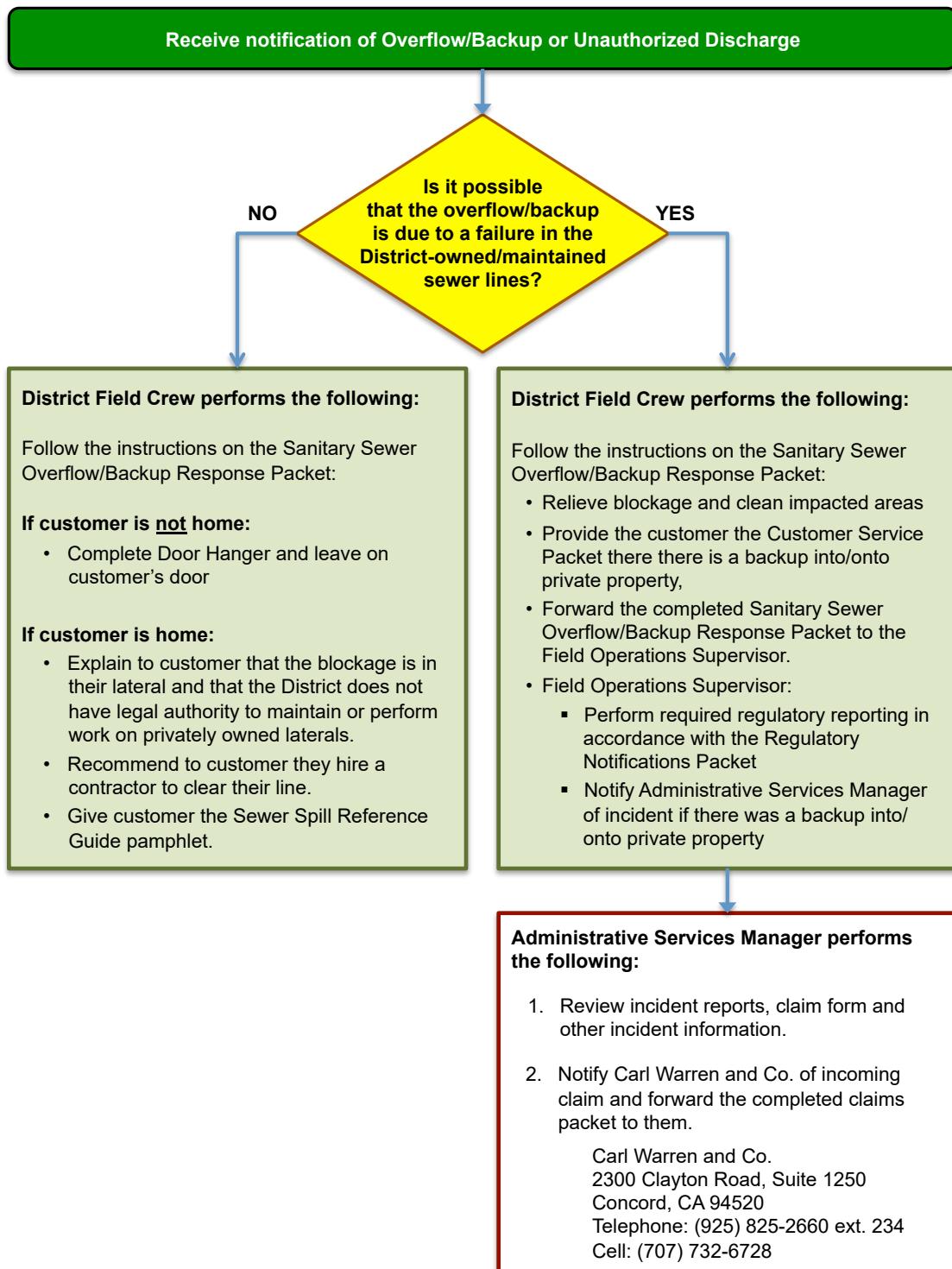
7. SSO Response Procedures

ref. SWRCB Order No. 2006-0003-DWQ Element 6(b)

7.1 Sewer Overflow/Backup Response Summary

The District will respond to SSOs as soon as feasible following notification of an overflow/backup or unauthorized discharge. The following (Figure 7.1) is an overview of the response activities.

Figure 7.1 Overview of SSO/Backup Response



7.2 First Responder Priorities

The first responder's priorities are:

- To follow safe work practices.
- To respond promptly with the appropriate and necessary equipment.
- To contain the spill wherever feasible.
- To restore the flow as soon as practicable.
- To minimize public access to and/or contact with the spilled sewage.
- To promptly notify the Field Operations Supervisor in event of major SSO.
- To return the spilled sewage to the sewer system.
- To restore the area to its original condition (or as close as possible).
- To photograph and document affected and unaffected areas from a spill.

7.3 Safety

The first responder is responsible for following safety procedures at all times. Special safety precautions must be observed when performing sewer work. There may be times when District personnel responding to a sewer system event are not familiar with potential safety hazards associated with sewer work. In such cases it is appropriate to take the time to discuss safety issues, consider the order of work, and check safety equipment before starting the job. This includes use of gas monitoring detectors for air quality in manholes (follow confined space procedures) and traffic controls at the site.

7.4 Initial Response

The first responder must respond to the reporting party/problem site and visually check for potential sewer stoppages or overflows.

The first responder will:

- Note arrival time at the site of the overflow/backup.
- Verify the existence of a public sewer system spill or backup.
- Determine if the overflow or blockage is from a public or private sewer.
- Identify and assess the affected area and extent of spill.
- Contact caller if time permits.
- If the spill is large or in a sensitive area, document conditions upon arrival with photographs. Decide whether to proceed with clearing the blockage to restore the flow or to initiate containment measures. The guidance for this decision is:
 - Small spills (i.e., spills that are easily contained) – proceed with clearing the blockage.
 - Moderate or large spill where containment is anticipated to be simple – proceed with the containment measures.
 - Moderate or large spills where containment is anticipated to be difficult – proceed with clearing the blockage; however, whenever deemed necessary, call for additional assistance and implement containment measures.
- Take steps to contain the SSO. For detailed procedures refer to Appendix B: Sanitary Sewer Overflow and Backup Response Procedures.

7.6 Initiate Spill Containment Measures

The first responder will attempt to contain as much of the spilled sewage as possible using the following steps:

- Determine the immediate destination of the overflowing sewage.

- Plug storm drains using air plugs, sandbags, and/or plastic mats to contain the spill, whenever appropriate. If spilled sewage has made contact with the storm drainage system, attempt to contain the spilled sewage by plugging downstream storm drainage facilities.
- Contain/direct the spilled sewage using dike/dam or sandbags.
- Pump around the blockage/pipe failure.

For detailed procedures refer to Appendix B: Sanitary Sewer Overflow and Backup Response Procedures.

7.5 Restore Flow

Using the appropriate cleaning equipment set up downstream of the blockage and hydro-clean upstream from a clear manhole. Attempt to remove the blockage from the system and observe the flows to ensure that the blockage does not reoccur downstream. If the blockage cannot be cleared within a reasonable time from arrival, or sewer requires construction repairs to restore flow, then initiate containment and/or bypass pumping. If assistance is required, immediately contact other employees, contractors, and equipment suppliers. For detailed procedures refer to Appendix B: Sanitary Sewer Overflow and Backup Response Procedures.

7.6 Equipment

This section provides a list of specialized equipment that may be used to support this Overflow Emergency Response Plan.

- *Closed Circuit Television (CCTV) Inspection Unit* – A CCTV Inspection Unit is required to determine the root cause for all SSOs from gravity sewers.
- *Camera* -- A digital or disposable camera is required to record the conditions upon arrival, during clean up, and upon departure.
- *Emergency Response Trucks* -- A utility body pickup truck, or open bed is required to store and transport the equipment needed to effectively respond to sewer emergencies. The equipment and tools will include containment and clean up materials.
- *Portable Generators, Portable Pumps, Piping, and Hoses* – Equipment used to bypass pump, divert, or power equipment to mitigate an SSO.
- *Combination Sewer Cleaning Trucks* -- Combination high velocity sewer cleaning trucks with vacuum tanks are required to clear blockages in gravity sewers, vacuum spilled sewage, and wash down the impacted area following the SSO event.
- *Air plugs, sandbags and plastic mats*
- *SSO Sampling Kits*

7.7 Outside Assistance

Responders will refer to the Emergency Contractor List as necessary for assistance with the response.

8. Recovery and Cleanup

ref. SWRCB Order No. 2006-0003-DWQ Element 6(e)

The recovery and cleanup phase begins immediately after the flow has been restored and the spilled sewage has been contained to the extent possible. The SSO recovery and cleanup procedures are:

8.1 Estimate the Volume of Spilled Sewage

Use the methods outlined in the Sanitary Sewer Overflow and Backup Response Procedures (Appendix B), and/or the Field Guide to estimate the volume of the spilled sewage. Wherever possible, document the estimate using photos and/or video of the SSO site before and during the recovery operation.

8.2 Recovery of Spilled Sewage

Vacuum up and/or pump the spilled sewage and rinse water, and discharge it back into the sanitary sewer system.

8.3 Clean-up and Disinfection

Clean up and disinfection procedures will be implemented to reduce the potential for human health issues and adverse environmental impacts that are associated with an SSO event. The procedures described are for dry weather conditions and will be modified as required for wet weather conditions. Where cleanup is beyond the capabilities of District staff, a cleanup contractor will be used.

Private Property

District crews are responsible for the cleanup when the property damage is minor in nature and is outside of private building dwellings, such as in front, side and backyards, easements, etc. In all other cases, affected property owners can call a water damage restoration contractor to complete the cleanup and restoration. If the overflow onto private property is definitely the result of District system failure, the property owner can call out a water damage restoration contractor to complete the cleanup and restoration. In both cases, District claim forms may be issued if requested by the property owners.

Hard Surface Areas

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water and/or deozyme or similar non-toxic biodegradable surface disinfectant until the water runs clear. The flushing volume will be approximately three times the estimated volume of the spill. Take reasonable steps to contain and vacuum up the wastewater. Allow area to dry. Repeat the process if additional cleaning is required.

Landscaped and Unimproved Natural Vegetation

Collect all signs of sewage solids and sewage-related material either by protected hand or with the use of rakes and brooms. Wash down the affected area with clean water until the water runs clear. The flushing volume will be approximately three times the estimated volume of the spill. Either contain or vacuum up the wash water so that none is released. Allow the area to dry. Repeat the process if additional cleaning is required.

Natural Waterways

The Department of Fish and Wildlife will be notified by CalOES for SSOs greater than or equal to 1,000 gallons.

Wet Weather Modifications

Omit flushing and sampling during heavy storm events (i.e., sheet of rainwater across paved surfaces) with heavy runoff where flushing is not required and sampling would not provide meaningful results

8.4 Public Notification

Signs will be posted and barricades put in place to keep vehicles and pedestrians away from contact with spilled sewage. County Environmental Health instructions and directions regarding placement and language of public warnings will be followed when directed. Additionally, the Field Operations Supervisor will use their best judgment regarding supplemental sign placement in order to protect the public and local environment. Signs will not be removed until directed by County Environmental Health, Field Operations Supervisor, or designee.

Creeks, streams and beaches that have been contaminated as a result of an SSO will be posted at visible access locations until the risk of contamination has subsided to acceptable background bacteria levels as determined by Alameda County Environmental Health. The warning signs, once posted, will be checked at least every day to ensure that they are still in place. Photographs of sign placement will be taken.

In the event that an overflow occurs at night, the location will be inspected first thing the following day. The field crew will look for any signs of sewage solids and sewage-related material that may warrant additional cleanup activities.

When contact with the local media is deemed necessary, the Office of the General Manager will provide the media with all relevant information.

9. Water Quality

ref. SWRCB Order No. 2006-0003-DWQ Element 6(f)

9.1 Water Quality Sampling and Testing

Water quality sampling and testing is required for Category 1 SSOs of 50,000 gallons or greater to determine the extent and impact of the SSO. The water quality sampling procedures must be implemented within 48 hours and include the following:

- The Field Crew will collect water samples as soon as possible after the discovery and mitigation of the SSO event.
- The water quality samples will be collected from upstream of the spill, from the spill area, and downstream of the spill in flowing water (e.g. creeks). The water quality samples will be collected near the point of entry of the spilled sewage.
- The samples will then be brought to the DSRSD laboratory for analysis.

9.2 Water Quality Monitoring Plan

The District Water Quality Monitoring Plan will be implemented immediately upon discovery of any Category 1 SSO of 50,000 gallons or more in order to assess impacts from SSOs to surface waters. The SSO Water Quality Monitoring Program will:

1. Contain protocols for water quality monitoring.

2. Account for spill travel time in the surface water and scenarios where monitoring may not be possible (e.g. safety, access restrictions, etc.)
3. Require water quality analyses for ammonia and bacterial indicators to be performed by an accredited or certified laboratory.
4. Require monitoring instruments and devices used to implement the SSO Water Quality Monitoring Program to be properly maintained and calibrated, including any records to document maintenance and calibration, as necessary, to ensure their continued accuracy.
5. Within 48 hours of the District becoming aware of the SSO, require water quality sampling for ammonia and total and fecal coliform.
6. Observe proper chain of custody procedures.

9.3 SSO Technical Report

The District will submit an SSO Technical Report to the CIWQS Online SSO Database within 45 calendar days of the SSO end date for any SSO in which 50,000 gallons or greater are spilled to surface waters. The Operations Manager will supervise and prepare this report. This report, which does not preclude the Water Boards from requiring more detailed analyses if requested, shall include at a minimum, the following:

Causes and Circumstances of the SSO:

- Complete and detailed explanation of how and when the SSO was discovered.
- Diagram showing the SSO failure point, appearance point(s), and final destination(s).
- Detailed description of the methodology employed and available data used to calculate the volume of the SSO and, if applicable, the SSO volume recovered.
- Detailed description of the cause(s) of the SSO.
- Copies of original field crew records used to document the SSO.
- Historical maintenance records for the failure location.

District's Response to SSO:

- Chronological narrative description of all actions taken by the District to terminate the spill.
- Explanation of how the SSMP Overflow Emergency Response Plan was implemented to respond to and mitigate the SSO.
- Final corrective action(s) completed and/or planned to be completed, including a schedule for actions not yet completed.

Water Quality Monitoring:

- Description of all water quality sampling activities conducted including analytical results and evaluation of the results.
- Detailed location map illustrating all water quality sampling points.

10. Sewer Backup Into/Onto Private Property Claims Handling Policy

It is the policy of the District that a claims form shall be offered to anyone wishing to file a claim. The following procedures will be observed for all sewer overflows/backups into/onto private property:

- District staff will offer a District claim form irrespective of fault whenever it is possible that the sanitary sewer backup may have resulted from an apparent blockage in the District-owned sewer lines or whenever a District customer requests a claim form. The claim may later be rejected if subsequent investigations into the cause of the loss indicate the District was not at fault.
- It is the responsibility of the Field Operations Supervisor and the Field Crew to gather information regarding the incident and notify the Administrative Services Manager.
- It is the responsibility of the Administrative Services Manager to review all claims and to oversee the adjustment and administration of the claim to closure.

11. Notification, Reporting, Monitoring and Recordkeeping Requirements

ref. SWRCB Order No. 2006-0003-DWQ Element 6(c)

In accordance with the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (SSS GWDRs), the District maintains records for each sanitary sewer overflow. Records include:

- Documentation of response steps and/or remedial actions
- Photographic evidence to document the extent of the SSO, field crew response operations, and site conditions after field crew SSO response operations have been completed. The date, time, location, and direction of photographs taken will be documented.
- Documentation of how any estimations of the volume of discharged and/or recovered volumes were calculated including all assumptions made.

Regulator required notifications are outlined in Section 11.1 on the following page.

11.1 Requirements Table

ELEMENT	REQUIREMENT	METHOD
NOTIFICATION	Within two hours of becoming aware of any Category 1 SSO greater than or equal to 1,000 gallons discharged to surface water or spilled in a location where it probably will be discharged to surface water, the District will notify the California Office of Emergency Services (CalOES) and obtain a notification control number.	Call Cal OES at: (800) 852-7550
REPORTING	<ul style="list-style-type: none"> Category 1 or Category 2 SSO: The District will submit draft report within three business days of becoming aware of the SSO and certify within 15 calendar days of SSO end date. Category 3 SSO: The District will submit certified report within 30 calendar days of the end of month in which SSO the occurred. SSO Technical Report: The District will submit within 45 calendar days after the end date of any Category 1 SSO in which 50,000 gallons or greater are spilled to surface waters. “No Spill” Certification: The District will certify that no SSOs occurred within 30 calendar days of the end of the month or, if reporting quarterly, the quarter in which no SSOs occurred. Collection System Questionnaire: The District will update and certify every 12 months 	Enter data into the CIWQS Online SSO Database ¹ (http://ciwqs.waterboards.ca.gov/) certified by the Legally Responsible Official(s) ² . All information required by CIWQS will be captured in the Sanitary Sewer Overflow Report. Certified SSO reports may be updated by amending the report or adding an attachment to the SSO report within 120 calendar days after the SSO end date. After 120 days, the State SSO Program Manager must be contacted to request to amend an SSO report along with a justification for why the additional information was not available prior to the end of the 120 days.
WATER QUALITY MONITORING	The District will conduct water quality sampling within 48 hours for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.	Water quality results will be uploaded into CIWQS for Category 1 SSOs in which 50,000 gallons or greater are spilled to surface waters.
RECORD-KEEPING	The District will maintain the following records: <ul style="list-style-type: none"> SSO event records. Records documenting Sanitary Sewer Management Plan (SSMP) implementation and changes/updates to the SSMP. Records to document Water Quality Monitoring for SSOs of 50,000 gallons or greater spilled to surface waters. Collection system telemetry records if relied upon to document and/or estimate SSO Volume. In accordance with District records retention schedule, records are maintained within the District's Electronic Records Management System (ERMS) 	Self-maintained records shall be available during inspections or upon request.

¹ In the event that the CIWQS online SSO database is not available, the Wastewater Operations Supervisor will notify SWRCB by phone or email in accordance with the time schedules identified above. In such an event, the District will submit the appropriate reports using the CIWQS online SSO database when the database becomes available. A copy of all documents that certify the submittal in fulfillment of this section shall be retained in the SSO file.

² The District always has at least one LRO. Any change in the LRO(s) including deactivation or a change to contact information, will be submitted to the SWRCB within 30 days of the change by calling (866) 792-4977 or emailing help@ciwqs.waterboards.ca.gov.

For reporting purposes, if one SSO event of any category results in multiple appearance points in a sewer system, a single SSO report is required in CIWQS that includes the GPS coordinates for the location of the SSO appearance point closest to the failure point, blockage or location of the flow condition that cause the SSO, and descriptions of the locations of all other discharge points associated with the single SSO event.

11.2 Complaint Records

The District maintains records of all complaints received whether or not they result in sanitary sewer overflows. The information collected includes:

- Date, time, and method of notification
- Date and time the complainant or informant first noticed the SSO or occurrence related to the call
- Narrative description describing the complaint
- A statement from the complainant or informant, if they know, of whether or not the potential SSO may have reached waters of the state
- Name, address, and contact telephone number of the complainant or informant reporting the potential SSO (if not reported anonymously)
- Follow-up return contact information for each complaint received (if not reported anonymously)
- Final resolution of the complaint with the original complainant
- Work service request information used to document all feasible and remedial actions taken

Records are maintained in the District Computerized Maintenance Management System (Lucity) for a minimum of five years whether or not they result in an SSO.

12. Post SSO Event Debriefing

ref. SWRCB Order No. 2006-0003-DWQ Element 6(d)

Every SSO event is an opportunity to evaluate the District response and reporting procedures. Each overflow event is unique, with its own elements and challenges including volume, cause, location, terrain, climate, and other parameters.

As soon as possible after Category 1 and Category 2 SSO events, all of the participants, from the person who received the call to the last person to leave the site, will meet to review the procedures used and to discuss what worked and where improvements could be made in preventing or in responding to and mitigating future SSO events. The results of the debriefing will be documented and tracked to ensure the action items are completed as scheduled.

13. Failure Analysis Investigation

ref. SWRCB Order No. 2006-0003-DWQ Element 6(d)

The objective of the failure analysis investigation is to determine the “root cause” of the SSO and to identify corrective action(s) needed that will reduce or eliminate future potential for the SSO to recur or for other SSOs to occur.

The investigation will include reviewing all relevant data to determine appropriate corrective action(s) for the line segment. The investigation will include:

- Reviewing and completing the Sanitary Sewer Overflow Report (in Appendix B) and any other documents related to the incident
- Reviewing the incident timeline and other documentation regarding the incident,
- Reviewing communications with the reporting party and witness.
- Review volume estimate, volume recovered estimate, volume estimation assumptions and associated drawings,
- Reviewing available photographs,
- Interviewing staff that responded to the spill.
- Reviewing past maintenance records,
- Reviewing past CCTV records,
- Conducting a CCTV inspection to determine the condition of all line segment(s) immediately following the SSO and reviewing the video and logs,
- Reviewing any Fats, Oil and Grease (FOG) related information or results
- Review any root related information
- Post SSO debrief records
- Interviews with the public at the SSO location

The product of the failure analysis investigation will be the determination of the root cause and the identification and scheduling of the corrective actions. The Collection System Failure Analysis Form (in Appendix B) will be used to document the investigation.

14. SSO Response Training

ref. SWRCB Order No. 2006-0003-DWQ Element 6(d)

This section provides information on the training that is required to support this Overflow Emergency Response Plan.

14.1 Initial and Annual Refresher Training

All District personnel who may have a role in responding to, reporting, and/or mitigating a sewer system overflow will receive training on the contents of this OERP. All new employees will receive training before they are placed in a position where they may have to respond. Current employees will receive annual refresher training on this plan and the procedures to be followed. The District will document all training.

Affected employees will receive annual training on the following topics by knowledgeable trainers:

- The District's Overflow Emergency Response Plan and Sanitary Sewer Management Plan
- Sanitary Sewer Overflow Volume Estimation Techniques
- Researching and documenting Sanitary Sewer Overflow Start Times
- Impacted Surface Waters: Response Procedures
- State Water Resources Control Board Employee Knowledge Expectations

- Employee Core Competency Evaluations on Sanitary Sewer Operations
- Water Quality Sampling Plan

The District will verify that annual safety training requirements are current for each employee, and that employees are competent in the performance of all core competencies. This will be verified through electronic testing, interviews and observations. The District will address, through additional training/instruction, any identified gaps in required core competencies.

Through SWRCB Employee Knowledge Expectations training the employee will be able to answer the following:

1. Please briefly describe your name and job title.
2. Please describe for us approximately when you started in this field and how long you have worked for your agency.
3. Please expand on your current position duties and role in responding in the field to any SSO complaints.
4. Please describe your SOPs used to respond/mitigate SSOs when they occur.
5. Describe any training your agency provides or sends you to for conducting spill volume estimates.
6. We are interested in learning more about how your historical SSO response activities have worked in the field. We understand from discussions with management earlier that you use the OERP from the SSMP. Please elaborate on how you implement and utilize the procedures in the plan.
7. Historically, before any recent changes, can you please walk us through how you would typically receive and respond to any SSO complaints in the field?
8. Can you tell us who is responsible for estimating SSO volumes discharged? If it is you, please describe how you go about estimating the SSO volume that you record on the work order/service request forms?
9. What other information do you collect or record other than what is written on the work order form?
10. Describe if and when you ever talk with people that call in SSOs (either onsite or via telephone) to further check out when the SSO might have occurred based on what they or others know? If you do this, can you tell us where this information is recorded?
11. We understand you may be instructed to take pictures of some sewer spills/backups into structures. Other than these SSOs, when else would you typically take any pictures of an SSO?
12. Please walk us through anything else you'd like to add to help us better understand how your field crews respond and mitigate SSO complaints.

14.2 SSO Response Drills

Periodic training drills or field exercises will be held to ensure that employees are up to date on these procedures, equipment is in working order, and the required materials are readily available. The training drills will cover scenarios typically observed during sewer related emergencies (e.g. mainline blockage, mainline failure, force main failure, pump station failure, and lateral blockage). The results and the observations during the drills will be recorded and action items will be tracked to ensure completion.

14.3 SSO Training Record Keeping

Records will be kept with Human Resources of all training that is provided in support of this plan. The records for all scheduled training courses and for each overflow emergency response training event and will include date, time, place, content, name of trainer(s), and names and titles of attendees.

14.4 Contractors Working On District Sewer Facilities

All construction contractors working on District sewer facilities will be required to develop a project-specific OERP, will provide project personnel with training regarding the content of the contractor's OERP and their role in the event of an SSO, and to follow that OERP in the event that they cause or observe an SSO. Emergency response procedures shall be discussed at project pre-construction meetings, regular project meetings and after any contractor involved incidents.

All service contractors will be provided, and required to observe contractor procedures. See Appendix C: Contractor Orientation.

15. Authority

- Health & Safety Code Sections 5410-5416
- CA Water Code Section 13271
- Fish & Wildlife Code Sections 5650-5656
- State Water Resources Control Board Order No. 2006-0003-DWQ
- State Water Resources Control Board Order 2013-009-DWQ effective September 9, 2013

16. References

- Sanitary Sewer Overflow and Backup Response Field Guide, 2014, DKF Solutions Group, LLC
- Appendix A: Regulatory Notifications Packet
- Appendix B: Sanitary Sewer Overflow/Backup Response Packet
- Appendix C: Contractor Orientation

Appendix A
REGULATORY NOTIFICATIONS PACKET

Regulatory Notifications Packet

Instructions:

1. Receive call from on-site crew reporting a Sanitary Sewer Overflow.
2. Open this packet.
3. Refer to Procedures for Reporting Spills (A-1) and the Regulatory Reporting Guide (A-2) for instructions.
4. Use the notification faxes (A-3 and A-4) as necessary.

Contents:

<u>Form</u>	<u>Page Number</u>
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Regulatory Reporting Guide.....	-2
RWQCB Notification Fax	-3
Local Health Agency Fax	-4

Print on 6"x9" envelope

Regulatory Notifications Packet
Procedures for Reporting Spills

(Revised to include notification of DSRSD Safety Officer and Carl Warren on December 11, 2015)

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Page 1

Whoever receives notification that a spill has occurred or is in progress must immediately contact the District's designated person responsible for reporting spills. The designated person for reporting spills and their backups are as follows:

Levi Fuller	Primary person responsible for reporting spills and SSO's
Jeff Carson	Backup for reporting spills if Levi Fuller is not available
Senior Wastewater Operator on-duty	Backup for reporting spills if Levi Fuller and Jeff Carson are not available

SSO 1,000 gallons or more that escapes to a stream or surface waters (Category 1)

- Notify CAL OES at 800-852-7550 **within 2 hours of confirming** that the spill is sewage from a District sewer and that the spill has reached surface waters or is likely to reach surface waters. **Write down the tracking control number** that OES gives you. CAL OES will automatically notify the RWQCB and the local health department.
- If the spill is estimated to be **50,000 gallons or more to surface waters**, water quality sampling is required. Call Environmental Compliance and ask for assistance collecting samples and photos (Kapil 925-570-6886, or cell 510-449-4745, or home 925-867-4475).
- Keep records or notes of how the spill volume was estimated.
- Notify Levi Fuller at 925-875-2300, 925-570-8775 cell, 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or cell 510-798-6784. If you cannot reach Levi or Jeff, contact the Senior Operator on duty and ask the Senior Operator to report the spill using CIWQS. If you were unable to reach Jeff, contact Dan McIntyre at office 925-875-2200 or cell 925-321-0655.
- Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- If the SSO results in sewage backed up into a home or business, within the first four hours notify Mauri McGuire at Carl Warren & Company at 805-650-7020 extension 1003, or 805-509-1426 cell.
- Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Doug Chun at 510-668-6510 or cell 510-504-0225 and report the spill.
- If the spill impacts a flood control channel, then also e-mail Zone 7 at spillnotice@zone7water.com
- If the spill occurred in Dublin, call Dublin City Engineer Andy Russell's cell at 510-872-4905 and Dublin Public Works at 925-833-6630.
- If the spill occurred in Pleasanton, call Pleasanton Public Works at 925-931-5538.
- Report details concerning the spill to Michelle Gallardo **on the next business day** following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
- Submit a draft SSO report in CIWQS:** prepare and submit an uncertified SSO report using CIWQS **within 3 business days** after becoming aware of the SSO.
- Certify the SSO report in CIWQS:** complete and certify the SSO report **within 15 calendar days of the SSO end date**. The certified report must include detailed information about the spill.
- SSO Technical Report:** for any Category 1 event estimated to spill 50,000 gallons or more into surface waters a Technical Report must be prepared and submitted in CIWQS **within 45 days of the SSO end date**.

SSO less than 1,000 gallons that escapes to a stream or surface waters (Category 1)

- Notify Levi Fuller at 925-875-2300, 925-570-8775 cell, 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or cell 510-798-6784. If you cannot reach Levi or Jeff, contact the Senior Operator on duty and ask the Senior Operator to report the spill using CIWQS.

- Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- If the SSO results in sewage backed up into a home or business, within the first four hours notify Mauri McGuire at Carl Warren & Company at 805-650-7020 extension 1003, or 805-509-1426 cell.
- Keep records or notes of how the spill volume was estimated.
- Report details concerning the spill to Michelle Gallardo on the next business day following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
- **Submit a draft SSO report in CIWQS:** prepare and submit an uncertified SSO report using CIWQS within 3 business days after becoming aware of the SSO.
- Certify the SSO report in CIWQS: complete and certify the SSO report within 15 calendar days of the SSO end date. The certified report must include detailed information about the spill.

SSO 1,000 gallon spill or more that does not reach surface waters or that is 100% captured (Category 2)

- Notify Levi Fuller at 925-875-2300, 925-570-8775 cell, 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or cell 510-798-6784.
- Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- If the SSO results in sewage backed up into a home or business, within the first four hours notify Mauri McGuire at Carl Warren & Company at 805-650-7020 extension 1003, or 805-509-1426 cell.
- Keep records or notes of how the spill volume was estimated.
- If the spill occurred in Alameda County, especially for larger spills, you may want to call Alameda Co Env Health at 510-567-6736.
- If the spill occurred in Contra Costa County, especially for larger spills, you may want to call Contra Costa Co Env Health at 925-692-2500.
- If the spill occurred in Dublin, especially for larger spills, call Dublin City Engineer Andy Russell's cell at 510-872-4905 and Dublin Public Works at 925-833-6630.
- If the spill occurred in Pleasanton, especially for larger spills, call Pleasanton Public Works at 925-931-5538.
- Report details concerning the spill to Michelle Gallardo on the next business day following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
- **Submit a draft SSO report in CIWQS:** prepare and submit an uncertified SSO report using CIWQS within 3 business days after becoming aware of the SSO.
- **Certify the SSO report in CIWQS:** complete and certify the SSO report within 15 calendar days of the SSO end date. The certified report must include detailed information about the spill.

SSO spills less than 1,000 gallons from the District sewer system that do not reach surface waters (Category 3)

- Notify Levi Fuller at 925-875-2300, 925-570-8775 cell, 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or cell 510-798-6784.
- Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- If the SSO results in sewage backed up into a home or business, within the first four hours notify Mauri McGuire at Carl Warren & Company at 805-650-7020 extension 1003, or 805-509-1426 cell.
- Keep records or notes of how the spill volume was estimated.
- Report details concerning the spill to Michelle Gallardo on the next business day following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
- **SSO report in CIWQS:** prepare, submit, and certify an SSO report within 30 calendar days of the end of the month in which the SSO occurred. The certified report must include detailed information about the spill.

Private sewer lateral spills and overflows, any size, residential or business

- Provide the property owner or the business manager with a copy of the **CSRMA instructions** for reporting private sewer spills, and tell the responsible party that notification and reporting are required by State law.
- If DSRSD staff respond to the private lateral spill to mitigate the overflow and/or perform clean-up work, notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- Spills of 1,000 gallons or more to surface waters should be reported by District staff to Cal OES if possible, or if it appears unlikely that the private owner will report the spill. If so, contact **CAL OES** at 800-852-7550.
- If the spill occurred in Dublin, call Dublin City Engineer Andy Russell's cell at 510-872-4905 and Dublin Public Works at 925-833-6630.
- If deemed appropriate, private sewer lateral spills should be reported by the District in CIWQS.** Certification of reports of private sewer lateral spills is not required.
- Report details concerning the spill to CSRMA by contacting Michelle Gallardo on the next business day following the initial report of the spill.
- If the spill occurred in Dublin, call Dublin Public Works at 925-833-6630.
- If the spill occurred in Pleasanton, call Pleasanton Public Works at 925-931-5538.

Partially treated wastewater or sludge spill with discharge to surface waters, 1,000 gallons or more

- Call CAL OES at 800-852-7550 within 2 hours of first learning about the spill, and obtain and write down the tracking control number they give you. CAL OES will automatically notify the RWQCB and the local health.
- Call Environmental Compliance and ask for assistance collecting samples and photos (Kapil 925-570-6886 or cell 510-449-4745 or home 925-867-4475).
- Notify Levi Fuller at 925-875-2300, 925-570-8775 cell, 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or cell 510-798-6784. If you were unable to reach Jeff, contact Dan McIntyre at office 925-875-2200 or cell 925-321-0655.
- Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Doug Chun at 510-668-6510 or cell 510-504-0225 and report the spill.
- If the spill impacts a flood control channel, then e-mail Zone 7 at spillnotice@zone7water.com
- Call Pleasanton Public Works at 925-931-5538.
- Report details concerning the spill to CSRMA by contacting Michelle Gallardo on the next business day following the initial report of the spill.
- Prepare and submit to the RWQCB a full written report of the spill **within 5 business days**. The report should be directed to the RWQCB's **James Parrish**, Case Worker, James.Parrish@waterboards.ca.gov or 510-622-2381.

Partially treated wastewater or sludge spill with no discharge to surface waters, 1,000 gallons or more

- Call the RWQCB spill hotline at 510-622-2369 **as soon as possible** about the spill, and/or contact the RWQCB's Case Worker **James Parrish**, James.Parrish@waterboards.ca.gov or 510-622-2381.
- Notify Levi Fuller at 925-875-2300, 925-570-8775 cell, 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or cell 510-798-6784.
- Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- If the spill occurred in Alameda County, call Alameda Co Env Health at 510-567-6736.

- If the spill occurred in Contra Costa County, call Contra Costa Co Env Health at 925-692-2500 during business hours, or 925-383-5445 after hours.
- Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Doug Chun at 510-668-6510 or cell 510-504-0225 and report the spill.
- Call Pleasanton Public Works at 925-931-5538.
- Report details concerning the spill to CSRMA by contacting Michelle Gallardo on the next business day following the initial report of the spill.
- Prepare and submit to the RWQCB a full written report of the spill **within 5 business days**. The report should be directed to the RWQCB's **James Parrish**, Case Worker, James.Parrish@waterboards.ca.gov or 510-622-2381.

Recycled water spill of 50,000 gallons or more (secondary effluent, 3W, or DERWA)

- Call CAL OES at 800-852-7550 **as soon as possible** about the spill, and obtain and write down the tracking control number they give you. CAL OES will automatically notify the RWQCB and the local health department.
- Call Environmental Compliance and ask for assistance collecting samples and photos (Kapil 925-570-6886, or cell 510-449-4745, or home 925-867-4475).
- Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Doug Chun at 510-668-6510 or cell 510-504-0225 and report the spill.
- If the spill impacts a flood control channel, then e-mail Zone 7 at spillnotice@zone7water.com
- If the spill occurred in Dublin, call Dublin City Engineer Andy Russell's cell at 510-872-4905 and Dublin Public Works at 925-833-6630.
- If the spill occurred in Pleasanton, call Pleasanton Public Works at 925-931-5538.
- Notify Levi Fuller at 925-875-2300, 925-570-8775 cell, 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or cell 510-798-6784. If you were unable to reach Jeff, contact Dan McIntyre at office 925-875-2200 or cell 925-321-0655.
- Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or cell 925-570-8757.
- Prepare and submit to the RWQCB a full written report of the spill **within 5 business days**. The report should be directed to the RWQCB's **James Parrish**, Case Worker, James.Parrish@waterboards.ca.gov or 510-622-2381.

Recycled water spill less than 50,000 gallons (secondary effluent, 3W, or DERWA)

- Gather pertinent information and send to Jeff/Levi/Raj for reporting with the next monthly eSMR.

SSO Reporting and Certification using CIWQS

- Reports must be filed using CIWQS at the following web address: <http://ciwqs.waterboards.ca.gov/>
- If the CIWQS website is down, reports must be faxed to CIWQS at 510-622-2460 containing all of the same on-line information.
- To access CIWQS, first you will need to login by entering a CIWQS **user name** and **password**. If you do not have a CIWQS user name and password, you will need to complete and submit an application. Note that applications must be submitted during normal working hours, and actual approval for access to CIWQS may take a day or more to obtain.

- Applications can be found at:

http://www.waterboards.ca.gov/water_issues/programs/ciwqs/chc_sso.shtml

- Login on at <http://ciwqs.waterboards.ca.gov/>
- Select SSO-Sanitary Sewer Overflows
- Select either Reporting New SSO or Modifying Existing SSO and fill in the appropriate information.
- Detailed information on SSO reporting and requirements can be found at:

http://www.waterboards.ca.gov/water_issues/programs/sso/docs/discharger_workbook.pdf

For convenience, you may want to print a copy of these instructions and keep them in a safe place, along with your personal CIWQS user name and password.

User Name

Password

Regulatory Notifications Packet
Procedures for Reporting Spills

(Revised to include notification of DSRSD Safety Officer and Carl Warren on December 11, 2015)

A-2
Side A

Reporting Instructions				
Deadline	See Attachment B, Appendix A-2 side B for contact information and definitions of the categories of spills of untreated or partially treated wastewater from publically owned sanitary sewer system			Spill from Private Lateral
	Category 1	Category 2	Category 3	
2 hours after awareness of SSO	If the SSO is greater than or equal to 1,000 gallons, call CalOES at (800) 852-7550 Notify the Administrative Services Manager following any backup that could be the responsibility of DSRSD	Notify the Administrative Services Manager following any backup that could be the responsibility of DSRSD	Notify the Administrative Services Manager following any backup that could be the responsibility of DSRSD	-
48 Hours after awareness of SSO	If 50,000 gal or more will likely reach receiving waters, begin water quality sampling and initiate impact assessment	-	-	-
3 Days after awareness of SSO	Submit Draft Spill Report in the CIWQS* database	Submit Draft Spill Report in the CIWQS* database	-	-
15 Days after response conclusion	Certify Spill Report in CIWQS*. Update as needed until 120 days after SSO end time	Certify Spill Report in the CIWQS* database. Update as needed until 120 days after SSO end time	-	-
30 Days after end of calendar month in which SSO occurred	-	-	Certify Spill Report in the CIWQS* database. Update as needed until 120 days after SSO end time	-
45 days after SSO end date	If 50,000 gal or more were not recovered, submit SSO Technical Report using CIWQS*	-	-	-

* In the event that the CIWQS online SSO database is not available, do the following until the CIWQS online SSO database becomes available: (See contact information on Side B)

1. Make required notifications to the San Francisco Regional Water Quality Control Board (SFRWQCB office) using A-3, and
2. Notify the State Water Resources Control Board (SWRCB) by phone or email

Note: For reporting purposes, if one SSO event results in multiple appearance points, complete one SSO report in the CIWQS SSO Online Database, and report the location of the SSO failure point, blockage or location of the flow condition that caused the SSO, in the CIWQS SSO Online Database, including all the discharge points associated with the SSO event.

Regulatory Notifications Packet
Regulatory Reporting Guide

A-2
Side B

Contact Information

Contact	Telephone/Fax/Email	
CalOES	(800) 852-7550	
DSRSD Administrative Services Manager	(510) 828-0515	
Alameda County Environmental Health	Telephone: (510) 567-6736	Fax: (510) 337-9335
San Francisco Regional Water Quality Control Board (SFRWQCB):	Telephone: (510) 622-2369	Fax: (510) 622-2460
State Water Resources Control Board (SWRCB):		
Russell Norman, P.E.	(916) 323-5598	Russell.Norman@waterboards.ca.gov
Gil Vazquez, Water Resources Control Engineer	(916) 322-1400	Gil.Vazquez@waterboards.ca.gov

Authorized Personnel

The following are authorized to perform regulatory reporting:

- Operations Manager
- Wastewater Operations Supervisor
- Field Operations Supervisor

The following are the District's Legally Responsible Officials (LROs) and are authorized to perform regulatory reporting and electronically sign and certify SSO reports in CIWQS:

Title	Telephone
Wastewater Operations Supervisor	(925) 875-2300 or (925) 570-8775
Operations Manager	(925) 875-2345 or (510) 798-6784

Definitions of SSO Categories

The response crew will complete the SSO Report form in the SSO Packet to document how the category was determined.

Category	Definition
Category 1:	Discharge of untreated or partially treated wastewater of any volume resulting from a sanitary sewer system failure or flow condition that either: <ul style="list-style-type: none"> • Reaches surface water and/or drainage channel tributary to a surface water; or • Reached a Municipal Separate Storm Sewer System (MS4) and was not fully captured and returned to the sanitary sewer system or otherwise captured and disposed of properly.
Category 2:	Discharge of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from a sanitary sewer system failure or flow condition that either: <ul style="list-style-type: none"> • Does not reach surface water, a drainage channel, or an MS4, or • The entire SSO discharged to the storm drain system was fully recovered and disposed of properly.
Category 3:	All other discharges of untreated or partially treated wastewater resulting from a sanitary sewer system failure or flow condition

NOTE TO District Staff: Only use this form in the event that the CIWQS online SSO database is not available

FAX TO: San Francisco Regional Water Quality Control Board
Fax Number: (510) 622-2460

Date: _____
Pages: _____

FROM: Dublin San Ramon Services District
Telephone: (925) 828-0515
Fax: (925) 829-1180

Address of SSO: _____ City: _____

County: _____ Date/Time: _____

SSO Start Time: _____ SSO Stop Time: _____

Volume of SSO: _____ Volume Recovered: _____

Final Disposition: _____

Affected Water Body: _____

Samples Collected? YES NO

Taken to: _____

Crew Members: _____

<u>Agencies Notified</u>	<u>Number(s)</u>	<u>Contact</u>	<u>Time</u>	<u>Date</u>
CalOES	(800) 852-7550	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	_____
CIWQS		<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	_____
OTHER:	_____	_____	_____	_____

TO:
Alameda County Environmental Health Department
Fax: (510) 337-9335
Telephone: (510) 567-6700
Re:

FROM:
Dublin San Ramon Services District
Fax: (925) 829-1180
Telephone: (925) 828-0515

DATE:
of Pages:

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY

Notes/Comments:

<p>NOTICE OF SANITARY SEWER OVERFLOW In accordance with California Health and Safety Code Section 5410 et. seq.</p>	
Date: _____	Time spill was noticed: _____
Location: _____	
City: _____	
Estimated Volume: _____	gallons
Actions:	<input type="checkbox"/> Cleanup <input type="checkbox"/> Containment <input type="checkbox"/> Repair needed: Est. Date of _____
Notifications:	<input type="checkbox"/> Notified Regional Water Quality Control Board <input type="checkbox"/> Notified Office of Emergency Services

Appendix B

SANITARY SEWER OVERFLOW/BACKUP RESPONSE PACKET

Sanitary Sewer Overflow/Backup Response Packet
Table of Contents

<u>Form</u>	<u>Form Number</u>
Response Instructions and Chain of Custody	Packet Envelope
Sanitary Sewer Overflow/Backup Response Flowchart	B-1
Start Time Determination Form	-2
Volume Estimation Methods	
Eyeball Estimation	-3a
Area/Volume Estimation	-3b
Upstream Lateral Connections	-3c
Sewer Overflow Report	-4
Lateral CCTV Report	-5
Work Order Form	-6
Bubbled Toilets Letter	-7
Declination of Sewage Cleaning Services	-8
First Responder Form	-9
Lodging Authorization Form	-10
Claims Submittal Checklist	-11
Collection System Failure Analysis Form	-12
Customer Service Packet	
Instructions	envelope
Customer Information (English)	CS-1 English
Customer Information (Spanish)	CS-1 Spanish
Sewer Spill Reference Guide	pamphlet
Regulatory Notifications Packet	See contents list above
Public Posting	n/a
Door Hanger	n/a
Sewer Spill Reference Guide Pamphlet	n/a

For pre-assembled packets contact DKF Solutions Group at (707) 373-9709 or losscontrol@sbcglobal.net

Sanitary Sewer Overflow/Backup Response Packet

- If this is a Category 1 SSO greater than or equal to 1,000 gallons immediately contact one of the following to make the 2-hour notification to CalOES:

<u>Title</u>	<u>Business Hours</u>	<u>After Hours</u>
Operations Manager	(925) 875-2345	(510) 798-6784
Wastewater Operations Supervisor	(925) 875-2300	(925) 570-8775
Field Operations Supervisor	(925) 875-2367	(925) 570-8916

- If there is a backup into/onto private property AND possibly due to a problem in the public sewer, notify the following:

Administrative Services Manager: (925) 875-2270
Mauri McGuire, Carl Warren and Co.: (805) 650-7020 ext. 1003 (office)
(805) 509-1426 (cell)
(707) 732-6728 (main)

- For restoration/remediation:

Contact Restoration Management at (510) 315-5400 (Union City) or (707) 750-6320 (Benicia)

- For any media requests: Contact the Office of the General Manager at (925) 828-0515

Check here if you believe that fats, roots, oils and/grease (FROG) caused/contributed to the SSO:

Field Crew:

- Follow the instructions on the Sanitary Sewer Overflow/Backup Response Flowchart. Note: If there is a backup and multiple dwelling units are affected, use one packet per unit and check here:
- If indicated on the flowchart, give the customer the Bubbled Toilets Letter and/or the Customer Service Packet and have them initial here:
Customer acknowledgement of receipt of Bubbled Toilets Letter: _____
Customer acknowledgement of receipt of Customer Service Packet: _____
- Place completed forms in this envelope, complete the Chain of Custody record (right) and forward this packet to the Field Operations Supervisor.

CHAIN OF CUSTODY

Print Name: _____

Initial: _____

Date: _____

Time: _____

Field Operations Supervisor:

- Follow the instructions on the bottom of the Sanitary Sewer Overflow/Backup Response Flowchart.
- Complete the Regulatory Notifications Packet.
- Complete the Chain of Custody record (right).
- If there is a backup:
- Complete the Claims Submittal Checklist.
 - Forward this completed packet to the Administrative Services Manager.
- If no backup, file this completed packet in accordance with District policy.

CHAIN OF CUSTODY

Print Name: _____

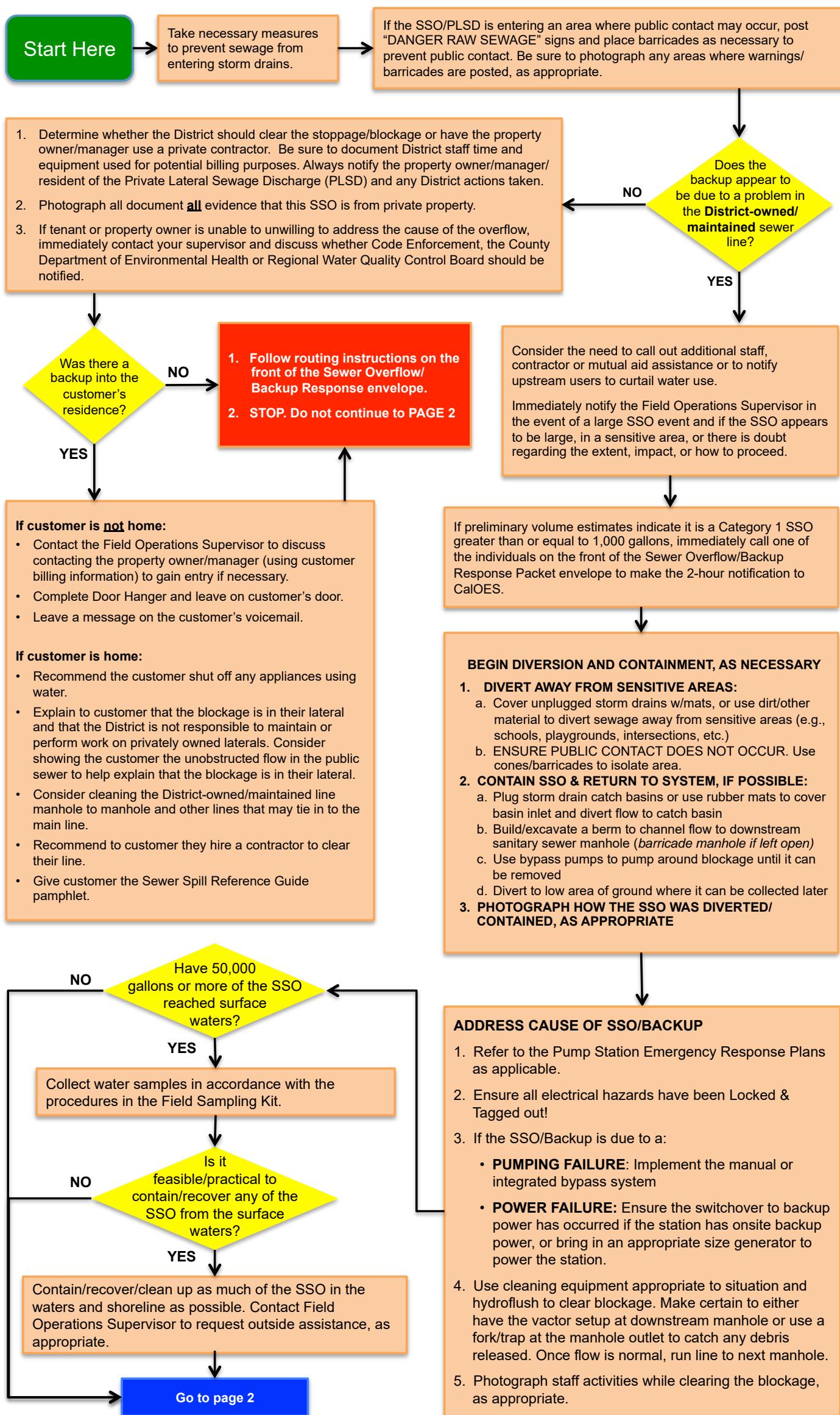
Initial: _____

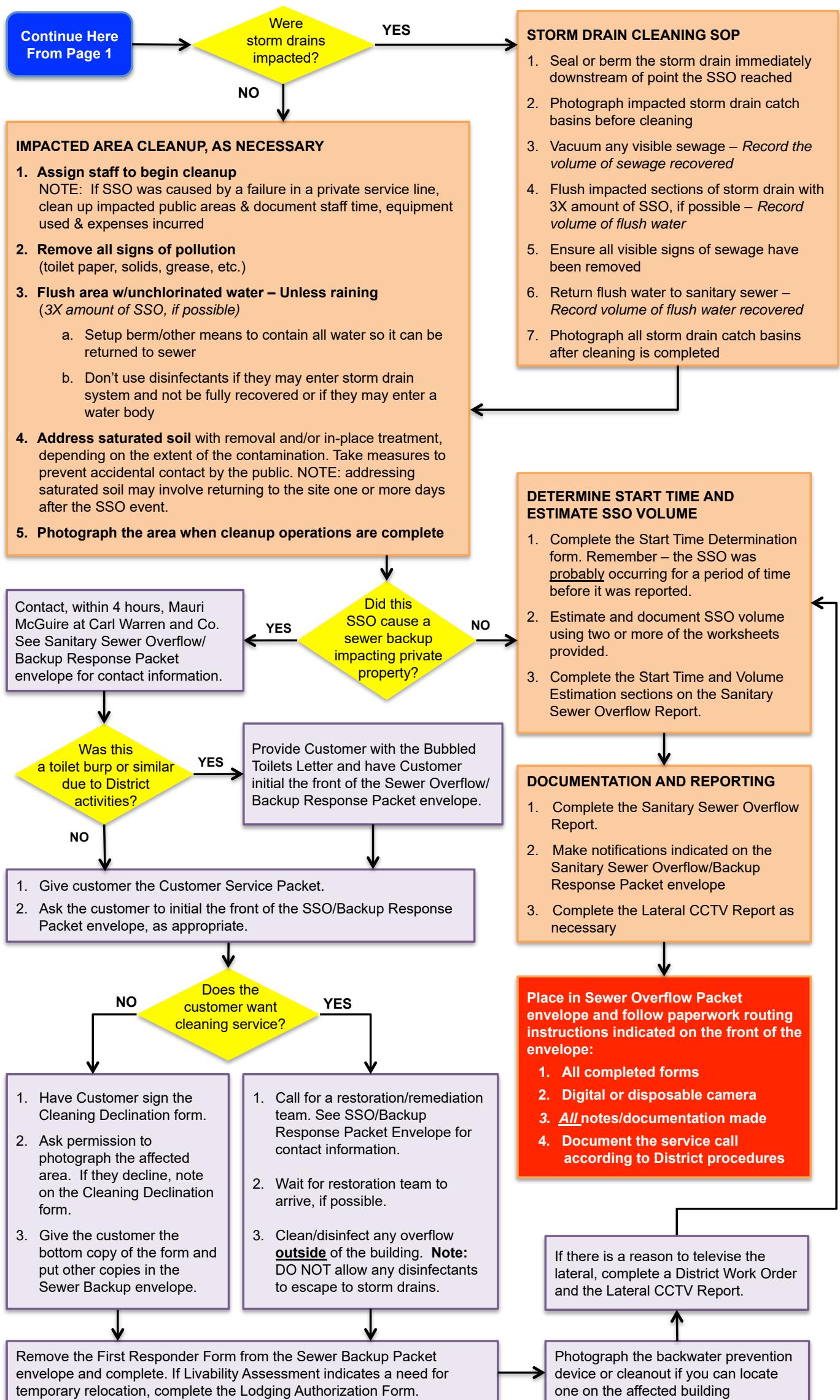
Date: _____

Time: _____

Administrative Services Manager: Refer to the Claims Submittal Checklist.

Dublin San Ramon Services District Overflow Emergency Response Plan





Sanitary Sewer Overflow/Backup Response Packet
Start Time Determination Form

B-2

SSO Start Date: _____ Location: _____

Accurate start time determination is an essential part of SSO volume estimation. Depending on the flow rate, being even one minute off can have a huge impact on the volume estimation. Be as precise as possible. Do not round to quarter hour increments. Start time must be based on all available information (interviews with neighbors, emergency responders, etc.)

What time was the District notified of the SSO? _____ AM PM

Who notified the District? _____

Did they indicate what time they noticed the SSO? YES NO If yes, what time? _____ AM PM

Who at the District received the notification? _____

What time did the crew arrive at the site of the SSO? _____ AM PM

Who was interviewed regarding the start time of the SSO? Include their name, contact information, and the statement they provided:

Name	Contact Information	Statement

Describe in detail how you determined the start time for this particular SSO:

SSO Start Date: _____

SSO Start Time: _____ AM PM

SSO End Date: _____

SSO End Time: _____ AM PM

SSO Duration: _____ minutes

This form completed by:

Name: _____ Signature: _____

Job Title: _____ Date: _____

Use this method only for small SSOs of less than 200 gallons.

SSO Date: _____ Location: _____

STEP 1: Position yourself so that you have a vantage point where you can see the entire SSO.

STEP 2: Imagine one or more buckets or barrels of water tipped over. Depending on the size of the SSO, select a bucket or barrel size as a frame of reference. It may be necessary to use more than one bucket/barrel size.

STEP 3: Estimate how many of each size bucket or barrel it would take to make an equivalent spill. Enter those numbers in Column A of the row in the table below that corresponds to the bucket/barrel sizes you are using as a frame of reference.

STEP 4: Multiply the number in Column A by the multiplier in Column B. Enter the result in Column C.

	A	B	C
Size of bucket(s) or barrel(s)	How many of this size?	Multiplier	Estimated SSO Volume (gallons)
1 gallon water jug		x 1 gallons	
5 gallon bucket		x 5 gallons	
32 gallon trash can		x 32 gallons	
55 gallon drum		x 55 gallons	
Other: _____ gallons		x _____ gallons	
Estimated Total SSO Volume:			

STEP 5: Is rainfall a factor in the SSO? Yes No

If yes, what volume of the observed spill volume do you estimate is rainfall? _____ gallons
If yes, describe how you determined the amount of rainfall in the observed spill?

STEP 6: Calculate the estimated SSO volume by subtracting the rainfall from the SSO volume:

$$\frac{\text{gallons}}{\text{Estimated SSO Volume}} - \frac{\text{gallons}}{\text{Rainfall}} = \frac{\text{gallons}}{\text{Total Estimated SSO Volume}}$$

Do you believe that this method has estimated the entire SSO? Yes No

If no, you MUST use additional methods to estimate the entire SSO. If yes, it is advisable to use additional methods to support the estimation. Explain why you believe this method has/has not estimated the entire SSO:

This worksheet completed by:

Name: _____ Signature: _____
Job Title: _____ Date: _____

Sanitary Sewer Overflow/Backup Response Packet
Volume Estimation: Area/Volume Estimation Method

B-3b
Page 1

Note: Refer to form B-4b Page 3 for computation formulas and guides

SSO Date: _____ Location: _____

STEP 1: Describe spill area surface: Asphalt Concrete Dirt Landscape Inside Building
 Other: _____

STEP 2: Draw/sketch the outline (footprint) of the spill. Then break the footprint down into recognizable shapes. Refer to the example on form B-4b Page 3.

STEP 3: Calculate the area of the footprint by completing the table below for each shape in Step 2. If two shapes overlap, select one of the two shapes and estimate the percentage of that shape that does not overlap. Enter that percentage in the % Not Overlapping column. This will ensure that the overlap area is only counted once. Refer to the example on form B-4b Page 3.

Rectangles	Length		X	Width		X	% Not Overlapping*	=	Area
	ft	X		ft	X			ft ²	
	ft	X		ft	X		%	=	ft ²
	ft	X		ft	X		%	=	ft ²

Triangles	Base		X	Height		Multiplier	X	% Not Overlapping*	=	Area
	ft	X		ft	÷ 2	X	%		ft ²	
	ft	X		ft	÷ 2	X	%	=	ft ²	
	ft	X		ft	÷ 2	X	%	=	ft ²	

Circles	π	X	Radius		X	Radius		X	% Not Overlapping*	=	Area
	3.14	X		ft	X		ft	X		ft ²	
	3.14	X		ft	X		ft	X	%	=	ft ²
	3.14	X		ft	X		ft	X	%	=	ft ²

Total Spill Area (sum of all three tables above): _____ **ft²**

Sanitary Sewer Overflow/Backup Response Packet
Volume Estimation: Area Volume Estimation Method

B-3b
Page 2

STEP 4: Calculate the volume of the spill that was NOT absorbed into the ground. If the entire spill was absorbed, skip to Step 5.

a. If spill is of varying depths, take several measurements at different depths and find the average.

$$\frac{\text{inches}}{\text{sum of measurements}} \div \frac{\text{inches}}{\text{\# of measurements}} = \frac{\text{inches}}{\text{average depth in inches}} \div 12 = \frac{\text{feet}}{\text{average depth in feet of ponded sewage}}$$

b. Calculate spill volume of ponded sewage in cubic feet by multiplying the Total Spill Area in Step 3 by the average depth calculated in Step 4a. Convert from cubic feet to gallons by multiplying by 7.48.

$$\frac{\text{ft}^2}{\text{spill area (Step 3)}} \times \frac{\text{ft}}{\text{average depth (Step 4a)}} = \frac{\text{ft}^3}{\text{spill volume in cubic feet}} \times 7.48 \text{ gal} = \frac{\text{gallons}}{\text{estimated volume of ponded sewage}}$$

STEP 5: Calculate the volume of the spill that was absorbed into the ground. If only a wet stain is observed, use the guidelines on B-4b Page 3 for the average depth. When estimating the volume that was absorbed, take into consideration:

- How long the sewage has been sitting
- The air temperature on the day of the SSO
- Soil type for the area (e.g., hard-packed clay vs. loose or gravelly soil)

When estimating the volume of the spill that was absorbed into the ground, it is also advisable to dig down far enough to reach dry soil and take the depth of the wet soil into consideration.

Estimated volume that was absorbed into the soil: _____ gallons

Explain how this estimation was determined:

STEP 6: Add the volume not absorbed (Step 4) plus the volume absorbed (Step 5) to get the total estimated volume:

$$\frac{\text{gallons}}{\text{volume not absorbed}} + \frac{\text{gallons}}{\text{volume absorbed}} = \frac{\text{gallons}}{\text{Total Estimated Spill Volume}}$$

Do you believe that this method has estimated the entire SSO? Yes No

If no, you MUST use additional methods to estimate the entire SSO. If yes, it is advisable to use additional methods to support the estimation. Explain why you believe this method has/has not estimated the entire SSO:

This worksheet completed by:

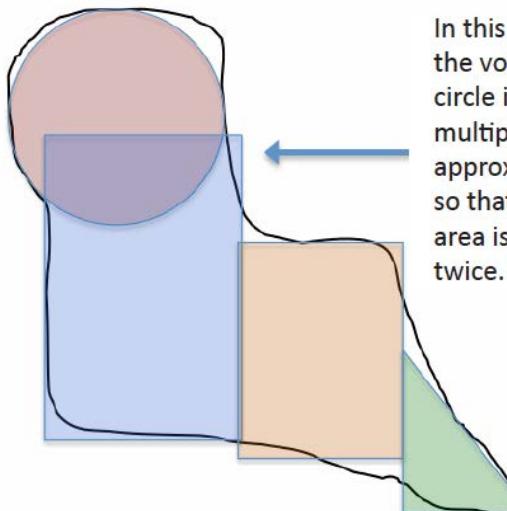
Name: _____ Signature: _____
 Job Title: _____ Date: _____

Sanitary Sewer Overflow/Backup Response Packet
Volume Estimation: Area Volume Estimation Method
B-3b
Page 3
Miscellaneous Computations

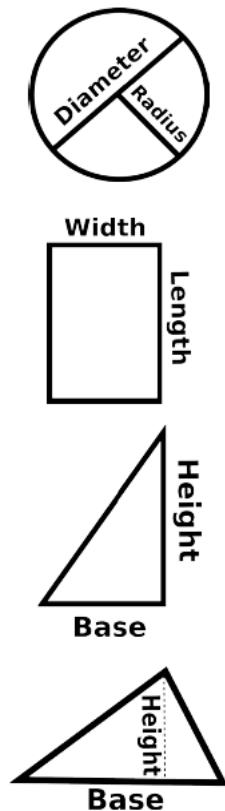
To convert inches to feet	Divide the inches by 12 or use the chart on the bottom right of this page.
Volume of one cubic foot	7.48 gallons of water
Area: Two-dimensional measurement represented in square feet	Square/rectangle: Area = Length x Width Circle: Area = πr^2 (where $\pi \approx 3.14$ and r = radius = $\frac{1}{2}$ diameter) Triangle: Area = $\frac{1}{2}$ (Base x Height)
Volume: Three-dimensional measurement represented in cubic feet	Rectangle/square footprint: Volume = Length x Width x Depth Circle footprint (cylinder): Volume = $\pi r^2 \times$ Depth (where $\pi \approx 3.14$ and r = radius = $\frac{1}{2}$ diameter) Triangle footprint: Volume = $\frac{1}{2}$ (Base x Height) x Depth
Depth: Contained or "Ponded" sewage	Measure actual depth of standing sewage whenever possible. When depth varies, measure several representative sample points and determine the average. Add the depth of the sample points and then divide that total by the number of sample points. If the depth is not measurable because it is only a wet stain, consider using the following estimated depths: <ul style="list-style-type: none">Depth of a wet stain on concrete surface: 0.0026' (1/32")Depth of a wet stain on asphalt surface: 0.0013' (1/64")

Example of how to draw/sketch the outline (footprint) of the spill for Step 2:

1. Sketch the outline of the spill (black line).
2. Break the sketch down into recognizable shapes (circles, squares, etc.) as well as you can.



In this example, after the volume of the circle is determined, multiply it by approximately 65% so that the overlap area isn't counted twice.



Convert Inches to Feet	
Inches	Feet
1/8"	0.01'
1/4"	0.02'
3/8"	0.01'
1/2"	0.04'
5/8"	0.05'
3/4"	0.06'
7/8"	0.07'
1"	0.08'
2"	0.17'
3"	0.25'
4"	0.33'
5"	0.42'
6"	0.50'
7"	0.58'
8"	0.67'
9"	0.75'
10"	0.83'
11"	0.92'
12"	1.00'

Sanitary Sewer Overflow/Backup Response Packet
Volume Estimation: Upstream Lateral Connections Method

B-3C

SSO Date: _____ Location: _____

STEP 1: Determine the number of Equivalent Dwelling Units (EDUs) for this SSO: _____ EDUs
NOTE: A single-family residential home = 1 EDU. For commercial buildings, refer to agency documentation.

STEP 2: This volume estimation method utilizes daily usage data based on flow rate studies of several jurisdictions in California. Column A shows how an average daily of usage of 180 gallons per day is distributed during each 6-hour period. Adjust the table as necessary to accurately represent the actual data.

Complete Column E by entering the number of minutes the SSO was active during each 6-hour time period. Multiply column D times Column E to calculate the gallons spilled during each time period. Add the numbers in Column F together for the Total Estimated SSO Volume per EDU.

Time Period	Flow Rate Per EDU				SSO	
	A	B	C	D	E	F
	Gallons per Period	Hours per period	$A \div B =$ Gallons per Hour	$C \div 60 =$ Gallons per Minute	Minutes SSO was active during period	$D \times E =$ Gallons spilled per period
6am-noon	72	6	12	0.20		
noon-6pm	36	6	6	0.10		
6pm-midnight	54	6	9	0.15		
midnight-6am	18	6	3	0.05		
Total Estimated SSO Volume per EDU:						

STEP 3: Multiply the Estimated SSO Volume per EDU from Step 2 by the number of EDUs from Step 1.

$$\frac{\text{gallons}}{\text{Volume per EDU}} \times \frac{\text{X}}{\text{\# of EDUs}} = \frac{\text{gallons}}{\text{Estimated SSO Volume}}$$

STEP 4: Adjust SSO volume as necessary considering other factors, such as activity that would cause a fluctuating flow rate (doing laundry, taking showers, etc.). Explain rationale below and indicate adjusted SSO estimate (attach a separate page if necessary):

Estimated SSO Volume: _____ gallons

Do you believe that this method has estimated the entire SSO? Yes No

If no, you MUST use additional methods to estimate the entire SSO. If yes, it is advisable to use additional methods to support the estimation. Explain why you believe this method has/has not estimated the entire SSO:

This worksheet completed by:

Name: _____ Signature: _____
 Job Title: _____ Date: _____

Sanitary Sewer Overflow/Backup Response Packet
Sanitary Sewer Overflow Report

B-4
Side A

Spill Category (check one):

- Category 1: Discharge of untreated or partially treated wastewater of any volume resulting from a sanitary sewer system failure or flow condition that either (1) Reaches surface water and/or drainage channel tributary to a surface water; OR (2) Reached a Municipal Separate Storm Sewer System (MS4) and was not fully captured and returned to the sanitary sewer system or otherwise captured and disposed of properly.
- Category 2: Discharge of untreated or partially treated wastewater greater than or equal to 1,000 gallons resulting from a sanitary sewer system failure or flow condition that either (1) Does not reach surface water, a drainage channel, or an MS4, OR (2) The entire SSO discharged to the storm drain system was fully recovered and disposed of properly.
- Category 3: All other discharges of untreated or partially treated wastewater resulting from a sanitary sewer system failure or flow condition
- Spill from Private Lateral

Describe in detail the basis for choosing the spill category:

- IMMEDIATE NOTIFICATION: If this is a Category 1 spill greater than or equal to 1,000 gallons, contact CalOES within 2 hours at (800) 852-7550.**

A. SPILL LOCATION

Spill Location Name:		
Latitude Coordinates :		Longitude Coordinates:
Street Name and Number:		
Nearest Cross Street:	City: American Canyon	Zip Code:
County: Napa	Spill Location Description:	

B. SPILL DESCRIPTION

Spill Appearance Point (check one or more): <input type="checkbox"/> Building/Structure <input type="checkbox"/> Force Main <input type="checkbox"/> Gravity Sewer <input type="checkbox"/> Pump Station <input type="checkbox"/> Other Sewer System Structure (i.e. cleanout) <input type="checkbox"/> Manhole- Structure ID#: <input type="checkbox"/> Other (specify):		
Did the spill reach a drainage channel and/or surface water? <input type="checkbox"/> Yes (Category 1) <input type="checkbox"/> No		
If the spill reached a storm sewer, was it fully captured and returned to the Sanitary Sewer? <input type="checkbox"/> Yes <input type="checkbox"/> No (Category 1)		
Was this spill from a private lateral? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, name of responsible party:		
Discharged into: <input type="checkbox"/> Ocean/ocean beach <input type="checkbox"/> Waters of the state other than ocean <input type="checkbox"/> Drainage channel <input type="checkbox"/> Combined storm drain <input type="checkbox"/> Separate storm drain <input type="checkbox"/> Paved surface <input type="checkbox"/> Unpaved surface <input type="checkbox"/> Building/structure <input type="checkbox"/> Street/curb/gutter <input type="checkbox"/> Other:		
Provide name(s) of affected drainage channels, beach, etc.:		
Total Estimated spill volume (in gallons – 1,000gal or more = Category 1): gallons		
Est. volume that reached a separate storm drain that flows to a surface water body:	gal	Recovered: gal
Est. volume that reached a drainage channel that flows to a surface water body:	gal	Recovered: gal
Est. volume discharged directly to a surface water body:	gal	Recovered: gal
Est. volume discharged to land:	gal	Recovered: gal
Calculation Methods: <input type="checkbox"/> Eyeball <input type="checkbox"/> Photo Comparison <input type="checkbox"/> Upstream Connections <input type="checkbox"/> Area/Volume <input type="checkbox"/> Lower Lateral <input type="checkbox"/> Other (describe):		
NOTE: Attach all Spill Volume Estimation documentation including calculations and summary.		

C. SPILL OCCURRING TIME

Estimated spill start date:	Estimated spill start time:
Date spill reported to sewer crew:	Time spill reported to sewer crew:
Date sewer crew arrived:	Time sewer crew arrived:
Who was interviewed to help determine start time?	
Estimated spill end date:	Estimated spill end time:
NOTE: Attach detailed start time determination documentation.	

Sanitary Sewer Overflow/Backup Response Packet
Sanitary Sewer Overflow Report
B-4
Side B
D. CAUSE OF SPILL

Location of Blockage:	<input type="checkbox"/> Main	<input type="checkbox"/> Lateral	<input type="checkbox"/> Private Lateral	<input type="checkbox"/> Other:
SSO cause (check all that apply):	<input type="checkbox"/> Debris/Blockage <input type="checkbox"/> Flow exceeded capacity <input type="checkbox"/> Grease <input type="checkbox"/> Operator error <input type="checkbox"/> Roots <input type="checkbox"/> Pipe problem/failure <input type="checkbox"/> Pump station failure <input type="checkbox"/> Rainfall exceeded design <input type="checkbox"/> Vandalism <input type="checkbox"/> Inflow/infiltration <input type="checkbox"/> Animal carcass <input type="checkbox"/> Electrical power failure <input type="checkbox"/> Bypass <input type="checkbox"/> Debris from laterals <input type="checkbox"/> Construction Debris <input type="checkbox"/> Other (specify): _____			
Diameter (in inches) of pipe at point of blockage/spill cause (if applicable):				
Sewer pipe material at point of blockage/spill cause (if applicable):				
Estimated age of sewer asset at the point of blockage or failure (if applicable):				
Description of terrain surrounding point of blockage/spill cause: <input type="checkbox"/> Flat <input type="checkbox"/> Mixed <input type="checkbox"/> Steep				

E. SPILL RESPONSE

Spill response activities (check all that apply):	<input type="checkbox"/> Cleaned up	<input type="checkbox"/> Contained all/portion of spill	<input type="checkbox"/> TV inspection	<input type="checkbox"/> Restored flow
<input type="checkbox"/> Returned all/portion of spill to sanitary sewer	<input type="checkbox"/> Other (specify): _____			
Spill response completed (date & time): _____				
Visual inspection result of impacted waters (if applicable):				
Any fish killed? <input type="checkbox"/> Yes	<input type="checkbox"/> No	Any ongoing investigation? <input type="checkbox"/> Yes	<input type="checkbox"/> No	
Were health warnings posted? <input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, provide health warning/beach closure posting/details: _____		
Was there a beach closure? <input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, name of closed beach(es): _____		
Were samples of impacted waters collected? <input type="checkbox"/> Yes	<input type="checkbox"/> No			
If YES, select the analyses: <input type="checkbox"/> DO <input type="checkbox"/> Ammonia <input type="checkbox"/> Bacteria <input type="checkbox"/> pH <input type="checkbox"/> Temperature <input type="checkbox"/> Other: _____				
Recommended corrective actions: (check all that apply and provide detail)				
<input type="checkbox"/> Clean line again ASAP: <input type="checkbox"/> CCTV: <input type="checkbox"/> Re-CCTV: <input type="checkbox"/> Additional work: <input type="checkbox"/> Cleaning schedule change: <input type="checkbox"/> Cleaning method change: <input type="checkbox"/> Fog investigation: <input type="checkbox"/> Repair line segment: <input type="checkbox"/> Replace line segment: <input type="checkbox"/> Additional comments: _____				

List all agency personnel involved in the response including name, title and their role in the response:

Name	Title	Role
------	-------	------

F. NOTIFICATION DETAILS

CalOES contacted date and time (if applicable):	
CalOES Control Number (if applicable):	Spoke to:

G. RECOMMENDED FOLLOW-UP ACTIONS TO PREVENT FUTURE OCCURRENCES

CURRENT PM FREQUENCY:	DATE OF LAST PM:	
RECOMMENDED ACTIONS: <input type="checkbox"/> TV	<input type="checkbox"/> RE-RUN	<input type="checkbox"/> CHANGE CLEANING SCHEDULE
<input type="checkbox"/> REPAIR LINE SEGMENT	<input type="checkbox"/> REPLACE LINE SEGMENT	<input type="checkbox"/> OTHER (describe): _____
NOTES:		

Sanitary Sewer Overflow/Backup Response Packet
Lateral CCTV Report

B-5

PLEASE COMPLETE AS THOROUGHLY AS POSSIBLE

PERSON COMPLETING THIS FORM:		DATE: PHONE:
CAMERA TYPE:		LOCATION OF CAMERA ENTRY:
AFFECTED PROPERTY STREET ADDRESS:		LOCATION OF CAMERA STOP:
CITY, STATE AND ZIP:		DESCRIBE AREA TV'd:
PHONE		UPSTREAM MANHOLE #:
WEATHER AT TIME OF CCTV WORK:		
<p>PLEASE CHECK ALL THAT WERE DISCOVERED – <i>Describe Extent & Location Using Camera Entry Point As Reference:</i></p> <p><input type="checkbox"/> Broken Lateral – Describe: Depth:</p> <p><input type="checkbox"/> Roots – Severity: <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p><input type="checkbox"/> Grease – Severity: <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p><input type="checkbox"/> Sag – Describe: Depth:</p> <p><input type="checkbox"/> BPD – Describe: Location:</p> <p><input type="checkbox"/> Cleanout – Describe: Location:</p> <p><input type="checkbox"/> Joint/Junction – Describe: Depth</p> <p><input type="checkbox"/> Grade – Describe:</p> <p><input type="checkbox"/> Grit – Severity: <input type="checkbox"/> Light <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy</p> <p><input type="checkbox"/> Other – Describe:</p>		<p>TIME OF OVERFLOW:</p> <p>TIME BLOCKAGE RELIEVED:</p> <p>TIME LATERAL TV'd:</p> <p>DEPTH OF LATERAL:</p> <p style="text-align: center;">RECOMMENDED FOLLOW UP WORK ACTIONS:</p>
Mark for USA location? <input type="checkbox"/> Yes <input type="checkbox"/> No		Lateral Locations Marked in Green Paint? <input type="checkbox"/> Yes <input type="checkbox"/> No
SIGNATURE OF EMPLOYEE PERFORMING TV WORK:		DATE

If applicable, place completed form in Sanitary Sewer Overflow/Backup Response Envelope and follow routing instructions.



FOD WORK ORDER

WORK ORDER NO:			PRIORITY:	
			DATE/TIME TAKEN:	
SOURCE OF REQUEST				
LOCATION				
FIRST NAME:	LAST ENTITY:		HOME PHONE:	
ADDRESS	STREET#	STREET NAME:	WORK PHONE:	
STRUCTURE ID:	U16D1-6			
METER#				
COMPLAINT / PROBLEM				
CATEGORY:			STATUS:	
DESCRIPTION OF PROBLEM:				
PROBLEM INVESTIGATION AND RESPONSE				
DESCRIPTION OF WORK DONE:				
JOB INFO				
INDIVIDUALS ON JOB	DATE STARTED	DATE COMPLETED	# OF HRS.	
			0:00	
			0:00	
			0:00	
			0:00	
PERSON COMPLETING REPORT:		SUPERVISOR:		

Dear Dublin San Ramon Services District Customer,

Thank you for informing us that your toilet bubbled while our crews were working in proximity of your property. We apologize for the inconvenience and hope that this letter will answer some of your questions about bubbling toilets.

1. Is this a health risk?

The water that came out of your toilet is potable water from the toilet bowl. Unless your toilet was in use when this occurred, this water is no different than that encountered while cleaning your toilet.

2. What is the District doing in the street?

In order to insure reliable sewer service, the District inspects, cleans, and repairs its sewer system on a continuous basis.

3. How does sewer cleaning cause my toilet to bubble?

Typical industry cleaning equipment uses high-pressure water to clean sewers. The first step is to use the high-pressure water jets to propel the hose and cleaning nozzle upstream as far as 800 feet. During this process, air within the main pipe is displaced and sometimes goes up the private lateral pipe and releases through the toilet. This can also happen during the cleaning phase, when high-pressure water is pulled downstream to the cleaning truck.

4. What causes the air to come from my toilet?

Over the years, District crews have found that the bubbling of toilets have many causes, some of which are:

- Obstructed vent pipes;
- Vent pipes that are positioned too far from the toilet;
- Lateral pipes that may be in use as the crew is cleaning (e.g. draining washing machine, draining bathtub, etc.);
- Lateral pipes that may have obstructions that are causing them to hold water (e.g. roots, grease, etc.).

5. What does District staff do, once informed of a bubbling toilet?

Once notified of a bubbling toilet, the crew leader explains to the customer what has happened, and checks to see if there is a clean-out in the customer's yard that could be opened in the future during cleaning. The crew leader then makes notes and completes paperwork that puts the address on the District's computerized notification list. In the future, crews will notice that this address was "bubbled" at one time, and, before commencing the cleaning, they will notify the occupant of the possibility of bubbling toilets. In the event the occupant is not present when the cleaning begins, the crews will attempt to open clean-outs and/or lower water pressure to avoid bubbling.

6. What can I do to prevent my toilet from bubbling?

When a sewer begins to drain slowly, it may be a sign that it needs to be cleaned or repaired. Trees and shrubs may have root structures that are entering the lateral pipe. The homeowner needs to make sure to have a clean-out for accessing the line. It is the homeowner's responsibility to keep the sewer lateral pipe in good working condition.

It is always a good idea to keep the toilet lid down when not in use, and not install carpets in the bathroom unless they can be easily removed and cleaned. For more information please call the Field Operations Supervisor at (925) 875-2367.

Sincerely,

Dublin San Ramon Services District

Estimado cliente de la Dublin San Ramon Servicios Distrito:

Gracias por informarnos que su inodoro burbujeó mientras nuestros equipos trabajaban en las cercanías de su propiedad. Pedimos disculpas por las molestias y esperamos que esta carta responda algunas de sus preguntas sobre los inodoros que burbujean.

1. ¿Es un riesgo para la salud?

El agua que salió de su inodoro es agua potable de la taza del inodoro. A menos que el inodoro haya estado en uso cuando esto sucedió, esta agua no es diferente a la que se encuentra cuando limpia el inodoro.

2. ¿Qué realiza la Ciudad en la calle?

A fin de asegurar un servicio de alcantarillado confiable, la Ciudad inspecciona, limpia y repara el sistema de alcantarillado de manera continua.

3. ¿De qué manera la limpieza del alcantarillado provoca que mi inodoro burbuje?

El equipo industrial típico de limpieza utiliza agua a alta presión para limpiar el alcantarillado. El primer paso es utilizar el chorro de agua a alta presión para impulsar la manguera y la boquilla de limpieza contracorriente con un alcance de hasta 243,8 m (800 pies). Durante este proceso, el aire dentro de la tubería principal se desplaza y algunas veces sube por la tubería lateral privada y se libera a través del inodoro. Esto también puede ocurrir durante la fase de limpieza, cuando el agua a alta presión se arrastra aguas abajo hasta el camión de limpieza.

4. ¿Qué provoca que el aire se libere por mi inodoro?

A través de los años, los equipos de la Ciudad descubrieron que el burbujeo de los inodoros ocurre debido a varias causas, entre las cuales encontramos las siguientes:

- tubos de ventilación obstruidos;
- tubos de ventilación que se colocan demasiado lejos del inodoro;
- tuberías laterales que pueden estar en uso mientras el equipo realiza la limpieza (por ejemplo, el drenaje de la lavadora, el drenaje de la bañera, etc.);
- tuberías laterales que pueden tener obstrucciones que hacen contener el agua (por ejemplo, raíces, grasa, etc.).

5. ¿Qué hace el personal de la Ciudad una vez que se le informa de un inodoro que burbujea?

Una vez que se notifica un inodoro que burbujea, el líder del equipo le explica al cliente lo que ha sucedido y comprueba si hay un registro de alcantarillado en el patio del cliente que podría abrirse en limpiezas futuras. Luego, el líder del equipo toma notas y completa documentación para incluir la dirección en la lista automatizada de notificaciones de la Ciudad. En el futuro, los equipos notarán que en esta dirección hubo "burbujeos" en un momento y, antes de comenzar la limpieza, notificará al ocupante acerca de la posibilidad de que burbujeen los inodoros. En caso de que el ocupante no esté presente cuando la limpieza se inicia, los equipos intentarán abrir los registros de alcantarillado y bajar la presión del agua para evitar el burbujeo.

6. ¿Qué puedo hacer para evitar que mi inodoro burbuje?

Cuando un alcantarillado comienza a drenar lentamente, puede ser un signo de que es necesario limpiarlo o repararlo. Los árboles y arbustos pueden tener estructuras de raíz que entran en la tubería lateral. El propietario debe asegurarse de tener un registro de alcantarillado para acceder a la línea. Es responsabilidad del dueño de casa mantener la tubería lateral de la alcantarilla en buen funcionamiento.

Siempre es una buena idea mantener la tapa del inodoro baja cuando no está en uso y no instalar alfombras en el baño a menos que puedan quitarse y limpiarse con facilidad. Para obtener más información, comuníquese con el Supervisor de Operaciones de Campo al (925) 875-2367.

Atentamente,

Dublin San Ramon Servicios Distrito

Sanitary Sewer Overflow/Backup Response Packet
Declination of Sewage Cleaning Services

B-8

Customer Information

NAME:	ADDRESS:	TELEPHONE:
-------	----------	------------

ON (date)	AT (time)	Approximately (quantity)	GALLONS OF: <input type="checkbox"/> Sewage <input type="checkbox"/> Grey Water <input type="checkbox"/> Toilet Bowl Water <input type="checkbox"/> Odor <input type="checkbox"/> Other (describe):
--------------	--------------	-----------------------------	--

Overflowed from (or odor emanating from) <input type="checkbox"/> Toilet <input type="checkbox"/> Shower/Tub <input type="checkbox"/> Washer <input type="checkbox"/> Other (describe):	The overflow affected the following areas (check one): <input type="checkbox"/> Bathroom <input type="checkbox"/> Bedroom <input type="checkbox"/> Hallway <input type="checkbox"/> Garage <input type="checkbox"/> Kitchen <input type="checkbox"/> Crawlspace <input type="checkbox"/> Other (specify):
--	--

The overflow affected the following flooring: <input type="checkbox"/> Tile <input type="checkbox"/> Wood Flooring <input type="checkbox"/> Linoleum <input type="checkbox"/> Carpet <input type="checkbox"/> Other (specify):	and/or additional materials: <input type="checkbox"/> Area Rugs <input type="checkbox"/> Towels <input type="checkbox"/> Clothing <input type="checkbox"/> Other (specify):
--	--

Were photos taken?: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, where are photos stored?

This Form Completed By: _____ (Write legibly)	Name: _____	Date: _____
	Title: _____	Time: _____

CUSTOMER, please read the following and sign below:

I/We acknowledge that Dublin San Ramon Services District (District) has offered to provide professional cleaning and decontamination services to remediate the sewage backup and/or overflow described above and that we declined the offer. We further understand and acknowledge that because we have declined, any necessary remediation activities will be conducted without District assistance, and that the District will not accept responsibility for work performed by persons other than those engaged by the District. The District will also not accept responsibility for any charges related to this incident that are not usual and customary. Please refer to the Customer Service Packet for whom to contact if you have any questions.

Customer Signature*:	Date:
The information above was explained to the customer by the following employee:	Name: _____
	Signature: _____
	Date: _____

**Note to responders: if customer declines to sign this form, then have a co-worker sign here as a witness:*

Name: _____ Signature: _____ Date: _____

Recommendations to customer to clean up the spill:

- Keep pets and children out of the affected area
- Turn off heating/air conditioning systems
- Wear rubber boots, rubber gloves, and goggles during cleanup of the affected area.
- Remove and discard items that cannot be washed and disinfected (such as: mattresses, rugs, cosmetics, baby toys, etc.)
- Remove and discard drywall and insulation that has been contaminated with sewage or flood waters.
- Thoroughly clean all hard surfaces (such as flooring, concrete, molding, wood and metal furniture, countertops, appliances, sinks and other plumbing fixtures) with hot water and laundry or dish detergent.
- Help the drying process with fans, air conditioning units, and dehumidifiers.
- After completing cleanup, wash your hands with soap and water. Use water that has been boiled for 1 minute (allow water to cool before washing your hands.) OR use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 30 min. If water is cloudy, use 1/4 teaspoon of household bleach per 1 gallon of water.
- Wash all clothes worn during the cleanup in hot water and detergent (wash separately from uncontaminated clothes).
- Wash clothes contaminated with flood or sewage water in hot water and detergent. Use a laundromat for washing large quantities of clothes and linens until your onsite wastewater system has been professionally inspected and services.
- Seek immediate attention if you become injured or ill.

Distribution Instructions – Top Copy to District records; Middle Copy to Field Operations Supervisor; Bottom Copy to Customer

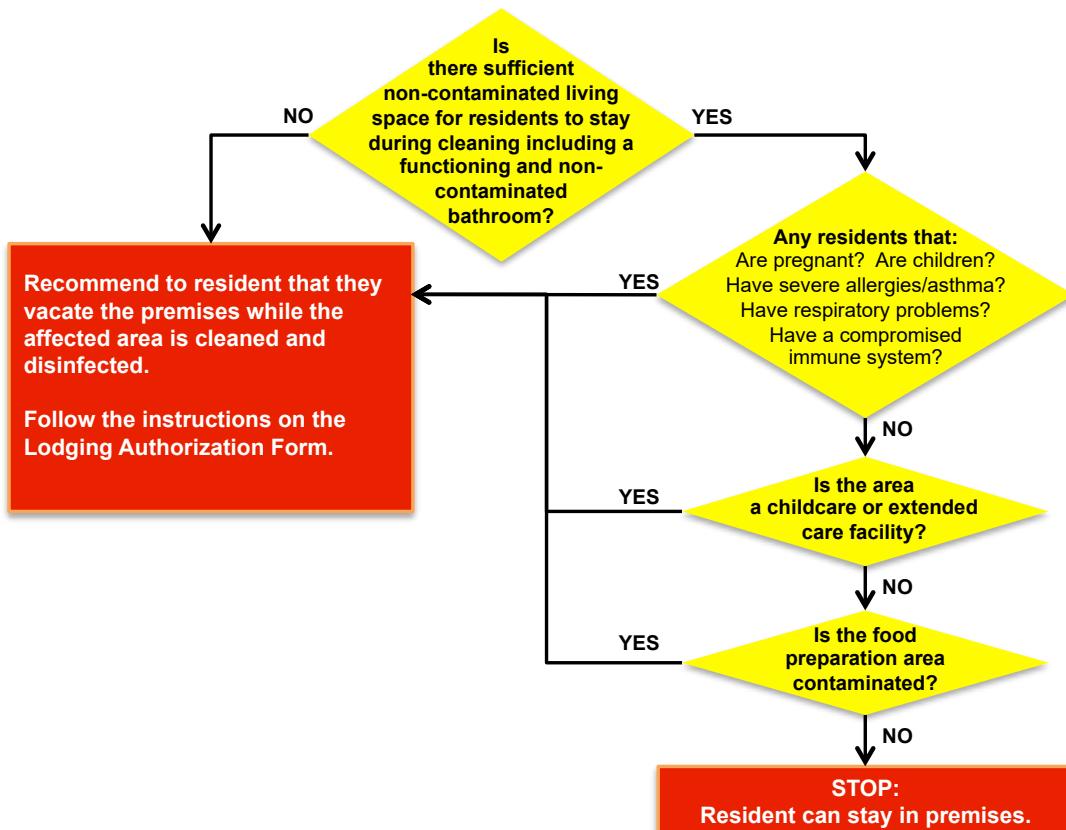
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Fill out this form as completely as possible.
Ask customer if you may enter the home. If so, take photos of all damaged and undamaged areas.

PERSON COMPLETING THIS FORM:		PHONE:
Name: _____		DATE:
Title: _____		TIME:
TIME STAFF ARRIVED ON-SITE:		
DOES THE CUSTOMER WANT THE DISTRICT TO CALL A CLEANING CONTRACTOR? <input type="checkbox"/> Yes <input type="checkbox"/> No IF NO, complete the Declination of Sewage Cleaning Services form.		
DID CUSTOMER CALL CLEANING CONTRACTOR? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, name of contractor: _____		
RESIDENT NAME: <input type="checkbox"/> Owner <input type="checkbox"/> Renter	IF RENT, PROPERTY MANAGER(S): OWNER: _____	
STREET ADDRESS:	STREET ADDRESS:	
CITY, STATE AND ZIP:	CITY, STATE AND ZIP:	
PHONE:	PHONE:	
Is nearest upstream manhole visibly higher than the drain/fixture that overflowed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
# OF PEOPLE LIVING AT RESIDENCE:		
Approximate Age of Home:	# of Bathrooms:	# of Rooms Affected:
Approximate Amount of Spill (gallons):	Approximate Time Sewage Has Been Sitting (hrs/days):	
Numbers of Photographs or Videos Taken: <input type="checkbox"/> Photographs <input type="checkbox"/> Video	Where are photos/video stored?	
Does property have a Property Line Cleanout or BPD?		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Unknown
If yes, was the Property Line Cleanout/BPD operational at the time of the overflow?		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Unknown
Have there ever been any previous spills at this location?		<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Unknown
Has the resident had any plumbing work done recently? <i>If YES, please describe:</i>		<input type="checkbox"/> YES <input type="checkbox"/> NO

GO TO PAGE 2

Sanitary Sewer Overflow/Backup Response Packet
First Responder Form
B-9
Page 2
LIVABILITY ASSESSMENT

SANITARY SEWER LINE BLOCKAGE LOCATION

PLEASE CHECK THE BOXES THAT DESCRIBE YOUR OBSERVATIONS:	
Customer Cleanout Was:	Public Cleanout was:
<input type="checkbox"/> Non-Existent <input type="checkbox"/> Full <input type="checkbox"/> Empty	<input type="checkbox"/> Non-Existent <input type="checkbox"/> Full <input type="checkbox"/> Empty

On the diagram below, indicate the location of the sewer line and where the problem occurred.

Affected House	Upstream House
Did sewage go under buildings? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unsure	

Recommended Follow-Up Action(s):

Place completed form in Sanitary Sewer Overflow/Backup Response Envelope and follow routing instructions

Sanitary Sewer Overflow/Backup Response Packet
Lodging Authorization Form

B-10

INSTRUCTIONS TO EMPLOYEE:

1. Review this form with the customer and instruct them to read and select, in order of preference, which of the hotels below they wish to stay in.
2. Contact the Operations Manager at (925) 875-2345 or the Field Operations Supervisor at (925) 570-8916 who will contact the selected hotel and use the City credit card to authorize one (1) night's lodging.
3. Explain to customer that additional nights and other incidentals will be addressed by the Administrative Services Manager.
4. Instruct the customer that this emergency authorization is for LODGING ONLY – NO FOOD, MINIBAR, MOVIE, PHONE or Other Charges).
5. Have the customer sign the Acknowledgement section of this form.
6. Complete the voucher information and sign. Please note that an unsigned voucher will not be honored at the hotels.
7. Give the bottom copy of this form to the customer.

INSTRUCTIONS TO RESIDENT: Dublin San Ramon Services District recommends that you temporarily relocate to a local hotel for your safety and convenience while your residence is being cleaned. Please note that this emergency authorization is granted under the following conditions:

1. This authorization provides for one (1) nights' lodging at the hotel selected below.
2. The authorization is good for **room and tax ONLY**. Phone, food, minibar and other incidental charges will be your responsibility.
3. Additional nights, other allowances, and special circumstances may be discussed by contacting Dublin San Ramon Services District's Administrative Services Manager at (925) 875-2270.
4. Please bring a photo ID with you so that hotel staff can verify the voucher's authenticity.

CUSTOMER ACKNOWLEDGEMENT:

I/we have read and understood the terms and conditions governing this offer of temporary relocation and agree to abide by them as described above.

Customer Name (please print): _____

Customer Address: _____

Phone # where customer may be reached: _____

Customer Signature: _____ Date: _____

Check here to decline this offer of temporary relocation. Customer Signature: _____

Good for one (1) night's stay on (date): _____ Number of affected residents: _____

DSRSD Representative's Name: _____ Phone Number: _____

This voucher is valid at the following hotels:

Extended Stay America
 4555 Chabot Drive
 Pleasanton, CA 94588
 (925) 730-0000

Residence Inn - Pleasanton
 11920 Dublin Canyon Road
 Pleasanton, CA 94588
 (925) 227-0500

La Quinta Inn & Suites
 6275 Dublin Boulevard
 Dublin, CA 94568
 (925) 828-9393

Distribution: Top Copy to District records Middle Copy to Field Operations Supervisor Bottom Copy to Customer

Complete this form if there is a Sanitary Sewer Backup into/onto Private Property**Field Operations Supervisor**

1. Complete the following information:

Title: _____

Name: _____

Phone: _____

Today's Date: _____

2. Copy the items listed below and retain originals for internal archiving purposes.
3. Place the copies in the Backup Response Envelope and forward to the Administrative Services Manager:

- Form B-2: Start Time Determination Form
- Form B-3: Volume Estimation Forms (a, b and/or c)
- Form B-4: Sanitary Sewer Overflow Report
- Form B-5: Lateral CCTV Report
- Form B-6: Work Order Form
- Form B-8: Declination of Sewage Cleaning Services
- Form B-9: First Responder Form
- Form B-10: Lodging Authorization Form
- Form B-11: Claims Submittal Checklist (*this form*)
- All photos taken: Check here if digital photographs will be forwarded separately
- Any other information you feel is important in this claim

4. Go to Regulatory Notifications Packet and make all appropriate notifications.
5. Complete Form BP-12: Collection System Failure Analysis

Administrative Services Manager

1. Verify claims packet is complete.
2. Notify Carl Warren and Co. of incoming claims and forward the completed claims packet to:

Carl Warren and Co.
2300 Clayton Road, Suite 1250
Concord, CA 94520
Telephone: (925) 825-2660 ext. 234
Cell: (707) 732-6728

To be completed by the Field Operations Supervisor
NOTE: The information contained on this form may be confidential.

Incident Report #	Prepared By		
SSO/Backup Information			
Event Date/Time	Address		
Volume Spilled	Volume Recovered		
Cause			
Summary of Historical SSOs/Backups/Service Calls/Other Problems			
Date	Cause	Date Last Cleaned	Crew
Records Reviewed By:		Record Review Date:	
Summary of CCTV Information			
CCTV Inspection Date		Tape Name/Number	
CCTV Tape Reviewed By		CCTV Review Date	
Observations			

[Go to Page 2](#)

Recommendations					
✓	Type	Specific Actions	Who is Responsible?	Completion Deadline	Who Will Verify Completion?
	No Changes or Repairs Required	n/a	n/a	n/a	n/a
	Repair(s)				
	Construction				
	Capital Improvement(s)				
	Change(s) to Maintenance Procedures				
	Change(s) to Overflow Response Procedures				
	Training				
	Misc.				
Comments/Notes:					
Review Date:					

Dublin San Ramon Services District CA Overflow Emergency Response Plan

Customer Service Packet

<u>Form</u>	<u>Form Number</u>
Customer Information Letter	CS-1
Claim Form	-2
Sewer Spill Reference Guide.....	pamphlet

Instructions:

1. Review the Customer Information letter to determine actions that need to be taken immediately.
2. See the Customer Information letter for information about filing a claim.
3. Review the Sewer Spill Reference Guide pamphlet.

If you have any questions contact:

- Regarding sewer issues: Field Operations Supervisor (925) 570-8916
- Regarding claim issues: Administraive Services Manager (925) 875-2270

This packet provided by: _____**Phone:** _____

Paquete de servicio al cliente

<u>Formulario</u>	<u>Número de formulario</u>
Carta de información para el cliente	CS-1
Formulario de reclamación	-2
Guía de referencia en caso de desborde del alcantarillado	folleto

Instrucciones:

1. Revise la carta de información para el cliente para determinar qué medidas deben tomarse inmediatamente.
2. Consulte la carta de información para el cliente sobre cómo presentar una reclamación.
3. Revise el folleto de la Guía de referencia en caso de desborde del alcantarillado.

Si tiene alguna consulta, comuníquese con las siguientes entidades:

- Para los problemas relacionados con el alcantarillado, comuníquese con el Supervisor de Operaciones de Campo: (925) 570-8916
- Para los problemas relacionados con las reclamaciones, comuníquese con el Gerente de Servicios Administrativos: (925) 875-2270

Este paquete lo proporciona: _____
Teléfono: _____

Print on 6" x 9" envelope
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Dear Resident:

We recognize that sewer back flow incidents can be stressful and require immediate response when all facts concerning how an incident occurred are unknown. Rest assured that we do all we can to prevent this type of event from occurring. Nevertheless, occasionally tree roots or other debris in the sewer lines cause a backup into homes immediately upstream of the blockage. At this time the District is investigating the cause of this incident.

If the District is found to be responsible for the incident, we are committed to cleaning and restoring your property, and to protecting the health of those affected during the remediation process.

The cleaning contractor provided by the District has been selected because of their adherence to established protocols that are designed to assure all parties thorough, cost-effective and expeditious cleaning services. You also have the right to select your own cleaning contractor, but the District does not guarantee payment of fees/expenses incurred and reserves the right to dispute fees/expenses deemed not usual and customary.

What you need to do now:

- Contact a restoration company for clean up and removal of affected surfaces.
- Do not attempt to clean the area yourself, let the company you hire handle this.
- Keep people and pets away from the affected area(s).
- Turn off heating/air conditioning systems.
- Turn off any appliances that use water.
- Prevent any material from reaching floor vents to prevent contamination.
- Do not remove items from the area –the company you hire will handle these contents.
- If you had recent plumbing work, contact your plumber or contractor.
- Contact your homeowner's insurance carrier to report a claim.
- If you believe the District is responsible for damages you may file a claim. Contact the Administrative Services Manager at (925) 875-2270 for more information.

Important Legal Notice: For your protection, read carefully, obtain a reliable translation, and/or consult your attorney.

**Sanitary Sewer Overflow/Backup Response Packet
Customer Information Regarding Sewer Backup Claims****CS-1
SPANISH**

Estimado Residente:

Reconocemos que los incidentes de flujo posterior de alcantarillado ser estresantes y requieren una respuesta inmediata cuando se desconocen todos los hechos concernientes a cómo ocurrió un incidente. Tenga la seguridad de que hacemos todo lo posible para evitar este tipo de acontecimiento que se produzca. Sin embargo, de vez en cuando las raíces de los árboles u otros desechos en las líneas de alcantarillado causan una copia de seguridad en los hogares inmediatamente aguas arriba del bloqueo. En este momento el Distrito está investigando la causa de este incidente.

Si se determina que el Distrito es responsable del incidente, estamos comprometidos a limpiar y restaurar su propiedad ya proteger la salud de los afectados durante el proceso de remediación.

El contratista de limpieza proporcionado por el Distrito ha sido seleccionado debido a su adherencia a los protocolos establecidos que están diseñados para asegurar a todas las partes los servicios de limpieza exhaustivos, costo-efectivos y expeditos. Usted también tiene el derecho de seleccionar su propio contratista de limpieza, pero el Distrito no garantiza el pago de los honorarios / gastos incurridos y se reserva el derecho de disputar los honorarios / gastos que se consideran no usuales y acostumbrados.

Lo que necesita saber en este momento:

- Póngase en contacto con una empresa de restauración para la limpieza y eliminación de las superficies afectadas.
- No intente limpiar el área, deje que la empresa de contratar a manejar esto.
- Mantenga a las personas ya las mascotas alejados de la zona afectada (s).
- Apague la calefacción / aire acondicionado.
- Apague todos los electrodomésticos que utilicen agua.
- Evite que el material alcance respiraderos del piso para evitar la contaminación.
- No quitar elementos de la zona-la empresa que se encargará de contratar a estos contenidos.
- Si ha tenido el trabajo de plomería reciente, póngase en contacto con un plomero o contratista.
- Póngase en contacto con soporte de su seguro de propietario para presentar una reclamación.
- Si usted cree que la ciudad es responsable de los daños que puede presentar una reclamación. Comuníquese con el Gerente de Servicios Administrativos al (925) 875-2270 para obtener más información.

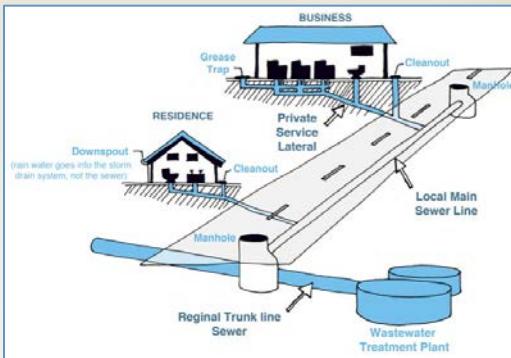
Aviso legal importante: Para su protección, lea atentamente el material, obtenga una traducción confiable y/o hable con su abogado.



<p>A. THE NAME AND POST OFFICE ADDRESS OF THE CLAIMANT:</p>		<p>B: THE POST OFFICE ADDRESS TO WHICH THE PERSON PRESENTING THE CLAIM DESIRES NOTICES TO BE SENT:</p>	
<p>DAYTIME TELEPHONE:</p>			
<p>EVENING TELEPHONE:</p>		<p>TELEPHONE:</p>	
<p>C. THE DATE, PLACE, AND OTHER CIRCUMSTANCES OF THE OCCURRENCE OR TRANSACTION WHICH GAVE RISE TO THE CLAIM ASSERTED:</p> <p>DATE OF OCCURRENCE: _____ TIME OF OCCURRENCE: _____</p> <p>PLACE OF OCCURRENCE: _____</p> <p>CIRCUMSTANCES: _____</p>			
<p>D. A GENERAL DESCRIPTION OF THE INDEBTEDNESS, OBLIGATION, INJURY, DAMAGE OR LOSS INCURRED SO FAR AS IT MAY BE KNOWN AT THE TIME OF PRESENTATION OF THE CLAIM:</p>			
<p>E. THE NAME OR NAMES OF THE PUBLIC EMPLOYEE OR EMPLOYEES CAUSING THE INJURY, DAMAGE, OR LOSS, IF KNOWN.</p>			
<p>F. AMOUNT OF CLAIM: _____ \$ (if less than \$10,000.00)</p>			
<p>JURISDICTION OF CLAIM:</p>		<p><input type="checkbox"/> MUNICIPAL COURT (CLAIMS TO \$25,000) <input type="checkbox"/> SUPERIOR COURT (CLAIMS OVER \$25,000)</p>	
<p>BASIS OF COMPUTATION:</p>			
<p>DECLARATION I DECLARE UNDER PENALTY OF PERJURY UNDER THE LAWS OF THE STATE OF CALIFORNIA THAT THE FOLLOWING INFORMATION IS TRUE AND CORRECT</p>			
<p>SIGNATURE OF CLAIMANT OR REPRESENTATIVE:</p>		<p>DATE:</p>	

How a Sewer System Works

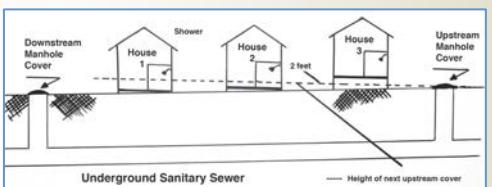
A property owner's sewer pipes are called **service laterals** and are connected to larger local main and regional trunk lines. Service laterals run from the connection at the home to the connection with the public sewer. These laterals are the responsibility of the property owner and must be maintained by the property owner.



Is my home required to have a backflow prevention device?

Section 710.1 of the Uniform Plumbing Code (U.P.C.) states: *"Drainage piping serving fixtures which have flood level rims located below the elevation of the next upstream manhole cover or private sewer serving such drainage piping **shall** be protected from backflow of sewage by installing an approved type of backwater valve."* The intent of Section 710.1 is to protect the building interior from mainline sewer overflows or surcharges.

Additionally, U.P.C. 710.6 states: *"Backwater valves **shall** be located where they will be accessible for inspection and repair at all times and, unless continuously exposed, shall be enclosed in a masonry pit fitted with an adequately sized removable cover."*



If you have a sewage spill from your private sewer line that impacts storm drains, waterways or public property, contact:

Dublin San Ramon Services District

(925) 828-0515

Alameda County Environmental Health

(510) 567-6700

California Health and Safety Code, Sections 5410-5416 requires:

- No person shall discharge raw or treated sewage or other waste in a manner that results in contamination, pollution, or a nuisance.
- Any person who causes or permits a sewage discharge to any state waters:
 - Must immediately notify the local health agency of the discharge.
 - Shall reimburse the local health agency for services that protect the public's health and safety.
 - Who fails to provide the required notice to the local health agency is guilty of a misdemeanor and shall be punished by a fine (between \$500-\$1,000) and/or imprisonment for less than one year.

San Francisco Regional Water Quality Control Board

(510) 622-2300

Requires the prevention, mitigation, response to, and reporting of sewage spills.

California Governor's Office of Emergency Services (CalOES)

(800) 852-7550

California Water Code, Article 4, Chapter 4, Sections 13268-13271 & California Code of Regulations, Title 23, Division 3, Chapter 9.2, Article 2, Sections 2250-2260 require:

- Any person who causes or permits sewage in excess of 1,000 gallons to be discharged to state waters shall immediately notify the Office of Emergency Services.
- Any person who fails to provide the notice required by this section is guilty of a misdemeanor and shall be punished by a fine (less than \$20,000) and/or imprisonment for not more than one year.

Sewer Spill Reference Guide

Your Responsibilities as a Private Property Owner

Provided to you by:

Dublin San Ramon Services District

7051 Dublin Boulevard
Dublin, California 94568

(925) 828-0515

www.dsrsd.com

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How do sewage spills happen?

Sewage spills occur when the wastewater in underground pipes overflows through a manhole, cleanout, or broken pipe. Most spills are relatively small and can be stopped and cleaned up quickly, but left unattended they can cause health hazards, damage to homes and businesses, and threaten the environment, local waterways, and beaches.

CAUTION!

When trying to locate a sewer problem, never open manholes or other public sewer structures. Only our crews are allowed to open & inspect these structures.

Common causes of sewage spills

- Grease build-up
- Tree roots
- Broken/cracked pipes
- Missing or broken cleanout caps
- Undersized sewers
- Groundwater/rainwater entering the sewer system through pipe defects and illegal connections

Prevent most sewage backups with a Backflow Prevention Device

This type of device can help prevent sewage backups into homes and businesses. If you don't already have a Backflow Prevention Device, contact a professional plumber or contractor to install one as soon as possible.

Protect the environment!

If you let sewage from your property discharge to a gutter or storm drain, you may be subject to penalties and/or out-of-pocket costs for clean-up and enforcement efforts. A property owner may be charged for costs incurred by agencies responding to spills from private properties.

What to look for:

Sewage spills can be a very noticeable gushing of water from a manhole or a slow water leak that may take time to be noticed. Don't dismiss unaccounted-for wet areas. Look for:

- Drain backups inside the building.
- Wet ground and/or water leaking around manhole lids onto your street.
- Leaking water from cleanouts or outside drains
- Unusual odorous wet areas: sidewalks, external walls, ground/landscape around a building.

The following are indicators of a possible obstruction in your sewer line:

- Water comes up in floor drains, showers or toilets.
- Toilets, showers or floor drains below ground level drain very slowly.

What to do if there is a spill:

Immediately notify the District. Our crews locate the blockage and determine if it is in the public sewer. If it is, the crew removes the blockage and arranges for cleanup. If the backup is in your private internal plumbing or in the private service laterals, you are required to immediately:

- Control and minimize the spill by shutting off or not using the water
- Keep sewage out of the storm drain system using sandbags, dirt and/or plastic sheeting
- Call a plumbing professional to clear blockages and make repairs as needed. Look in the yellow pages under "Plumbing Drain & Sewer Cleaning" or "Plumbing Contractors."
- Always notify your sewer/public works department or public sewer district of sewage spills.

Spill cleanup inside the home:

For large clean ups, a professional cleaning firm should be contacted to clean up impacted areas. You can locate local firms by looking in the Yellow Pages under "Water Damage" or "Fire Damage." If you hire a contractor, it is recommended to get estimates from more than one company. Sometimes, homeowner's insurance will pay for the necessary cleaning due to sewer backups. Not all policies have this coverage, so check with your agent.

If you decide to clean up a small spill inside your home, protect yourself from contamination by observing the following safety measures. Those persons whose resistance to infection is compromised should not attempt this type of clean up.

Other Tips:

- Keep children and pets out of the affected area until cleanup has been completed.
- Turn off heating/air conditioning systems
- Wear rubber boots, rubber gloves, and goggles during cleanup of the affected area.
- Discard items that cannot be washed and disinfected (such as: mattresses, rugs, cosmetics, baby toys, etc.)
- Remove and discard drywall and insulation that has been contaminated with sewage or flood waters.

- Thoroughly clean all hard surfaces (such as flooring, concrete, molding, wood and metal furniture, countertops, appliances, sinks and other plumbing fixtures) with hot water and laundry or dish detergent.
- Help the drying process with fans, air conditioning units, and dehumidifiers.
- After completing cleanup, wash your hands with soap and water. Use water that has been boiled for 1 minute (allow the water to cool before washing your hands) OR use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 30 min. If water is cloudy, use ¼ teaspoon of household bleach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.
- Seek immediate attention if you become injured or ill.

Spill cleanup outside the home:

- Keep children and pets out of the affected area until cleanup has been completed.
- Wear rubber boots, rubber gloves, and goggles during cleanup of affected area.
- Clean up sewage solids (fecal material) and place in properly functioning toilet or double bag and place in garbage container.
- On hard surfaces areas such as asphalt or concrete, it is safe to use a 2% bleach solutions, or ½ cup of bleach to 5 gallons of water, but don't allow it to reach a storm drain as the bleach can harm the environment.
- After cleanup, wash hands with soap and water. Use water that has been boiled for 1 minute (allow to cool before washing your hands) OR use water that has been disinfected (solution of 1/8 teaspoon of household bleach per 1 gallon of water). Let it stand for 30 min. If water is cloudy, use ¼ teaspoon of household bleach per 1 gallon of water.
- Wash clothes worn during cleanup in hot water and detergent (wash apart from uncontaminated clothes).
- Wash clothes contaminated with sewage in hot water and detergent. Consider using a Laundromat until your onsite wastewater system has been professionally inspected and serviced.
- Seek immediate attention if you become injured/ill.

**Overflow Emergency Response Plan
Public Posting**

DANGER

RAW SEWAGE • AVOID CONTACT



PELIGRO

AGUA CONTAMINADA • EVITE TODO CONTACTO

For more information

Para más información

Dublin San Ramon Services District

(925) 828-0515

Dublin San Ramon Services District

On (date) _____, at (location) _____, we responded to a reported blockage of the sanitary sewer service to your property.

We discovered a blockage in:

- The District sanitary sewer and cleared the line
- Your sanitary sewer lateral, which is your responsibility to maintain.

If you require assistance to clear your portion of the lateral you can look on the Internet or in the Yellow Pages of your telephone book under "Sewer Contractors" or "Plumbing Drains & Sewer Cleaning". If you plan to hire a contractor we recommend getting estimates from more than one company.

Dublin San Ramon Services District representative notes:

Dublin San Ramon Services District Representative:

**For questions or comments, please call
Dublin San Ramon Services District
(925) 828-0515**

**For sewer emergencies
at night and on weekends, please call
(925) 462-1212 or 911**

Dublin San Ramon Services District

On (date) _____, at (location) _____, we responded to a reported blockage of the sanitary sewer service to your property.

We discovered a blockage in:

- The District sanitary sewer and cleared the line
- Your sanitary sewer lateral, which is your responsibility to maintain.

If you require assistance to clear your portion of the lateral you can look on the Internet or in the Yellow Pages of your telephone book under "Sewer Contractors" or "Plumbing Drains & Sewer Cleaning". If you plan to hire a contractor we recommend getting estimates from more than one company.

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Appendix C

FIELD SAMPLING KIT

**Field Sampling Kit
Table of Contents**

<u>Form</u>	<u>Form Number</u>
Procedures for Sampling Receiving Waters.....	C-1
Sample Collection Chain of Custody Record	-2

Go to Water Quality Sampling Area and get the following supplies:

- Cooler with Blue Ice Pack
- Gloves
- Safety Glasses
- Two (2) 1-Liter Plastic Sampling Bottles
- Sample Bottle Labels
- Waterproof Pen
- Four (4) Total/Fecal Coliform Sample Bottles (100ml sterilized bottle)
- Chain of Custody Form

Field Sampling Kit
Procedures for Sampling Receiving Waters

C-1
Side A

**Sanitary Sewer Overflows (SSOs)/LAVWMA Effluent or
Secondary Treated Effluent or Tertiary Treated Effluent Spills
or Leaks to Creeks or any Water Body
Standard Operating Procedures on Sampling and Analysis**

1. Collect upstream (75-100 ft. or the best possible above the point of discharge), the point of discharge, and downstream (75-100 ft. or the best possible below the point of discharge) samples and analyze in the **field** for the following tests:
 - a) Chlorine residual
 - b) Dissolved Oxygen (DO)
 - c) pH
 - d) Temperature
 2. Collect **at least 1 liter** each from each sample point described above and a **separate** bacteriological sample using a sterilized bacteriological sample container from each sample point and bring them to the DSRSD laboratory. Complete Chain of Custody forms for each sample point and record field readings/analysis. Refrigerate upon arrival in the laboratory.
- Inform the lab personnel to make sure that preservatives are added by lab staff if needed and to ensure meeting holding times of samples. During off-hours, please contact the lab supervisor.**
3. The laboratory staff will analyze for the following tests:
 - a) Ammonia
 - b) Biochemical Oxygen Demand (BOD)
 - c) Chemical Oxygen Demand (COD)
 - d) Conductivity
 - e) Fecal Coliform and Enterococcus
 - f) Total Suspended Solids (TSS)
 - g) Turbidity

Note: Holding times for samples:

Test	Holding Time
Ammonia	28 days
*COD/BOD	48 hours
Conductivity	28 days
Fecal Coliform & Enterococcus	6 hours
Total Suspended Solids	7 days
Turbidity	48 hours

*COD test must be run prior to BOD set up.

Field Sampling Kit
Sample Collection Chain of Custody

C-2

DUBLIN SAN RAMON SERVICES DISTRICT
 7399 Johnson Drive, Pleasanton CA 94588
 Phone: (925) 846-4565 Fax (925) 846-2937

CHAIN OF CUSTODY – Leaks / Spills

Company:		Contact:	P.O. Number:
Address:		Sample Number:	
Sampling Location:		Sampling Date/Time:	
Sample Split:	Split Portion Received By/Company:		Sample Collector:

REQUIRED ANALYSIS	Analyzed Date	Analyzed Time	Result	
<input type="checkbox"/> pH – Field				
<input type="checkbox"/> Chlorine Residual – Field				
<input type="checkbox"/> Dissolved Oxygen – Field				
<input type="checkbox"/> Temperature – Field				
<input type="checkbox"/> Conductivity – Field				
<input type="checkbox"/> Ammonia – Lab				
<input type="checkbox"/> COD – Lab				
<input type="checkbox"/> BOD – Lab				
<input type="checkbox"/> Fecal Coliform – Lab				
<input type="checkbox"/> Enterococcus – Lab				
<input type="checkbox"/> Total Suspended Solids – Lab				
<input type="checkbox"/> Others:				
<input type="checkbox"/> Others:				

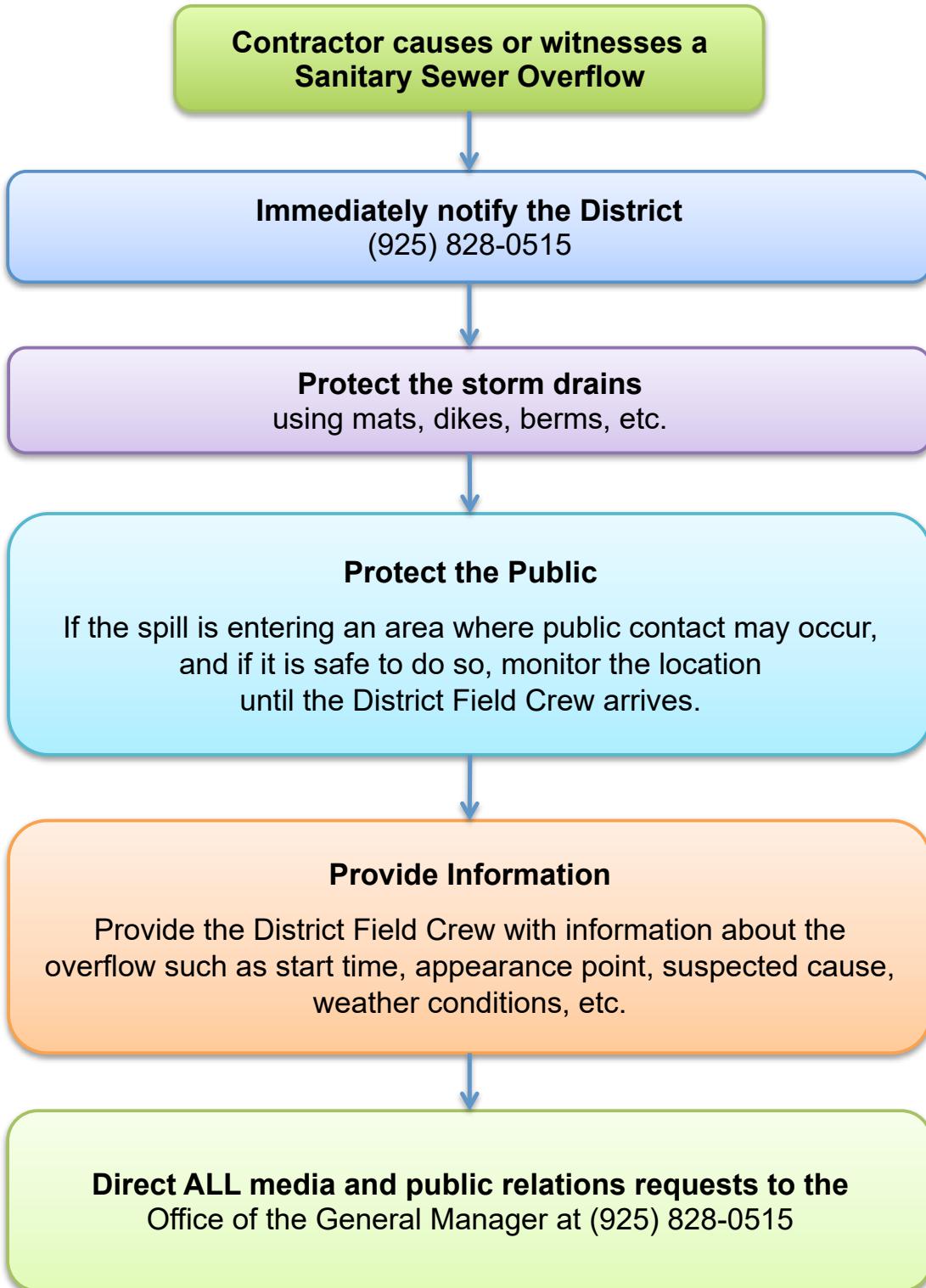
# OF BOTTLES TO LAB	SAMPLES COOLED TO 4°C		SAFETY PRECAUTIONS USED DURING SAMPLING:	
	YES	NO		
RELINQUISHED BY/COMPANY:	DATE:		TIME:	RECEIVED BY/COMPANY:
RELINQUISHED BY/COMPANY:	DATE:		TIME:	RECEIVED BY/COMPANY:
RELINQUISHED BY/COMPANY:	DATE:		TIME:	RECEIVED BY/COMPANY:
COMMENTS:				

Appendix D

CONTRACTOR ORIENTATION

CONTRACTOR ORIENTATION

The following procedures are to be followed in the event that you cause or witness a Sanitary Sewer Overflow.



Sanitary Sewer Overflows

How to avoid them and what to do if you don't

What?

A sanitary sewer overflow (SSO) is a discharge of untreated human and industrial waste before it reaches the wastewater treatment facility.

Where?

SSOs usually occur through manholes, plumbing fixtures and service cleanouts.

Why?

SSOs are usually caused by grease, debris, root balls, or personal hygiene products blocking the sewer lines, or by unusually high flow volume.

How to prevent SSOs:

...when clearing plugged sewer laterals:

- Remove root balls, grease blockages and any other debris from the sewer
- If you can't prevent root balls, grease or debris from entering the sewer main, call us at (925) 828-0515, so we can work with you to remove the blockage and prevent blockages further downstream
- Use plenty of water to flush lines.

...when constructing or repairing sewer laterals:

- Refer to the District website for standard design criteria and permit requirements. Go to www.dsrsd.com.
- Check your work area. Make sure there is no debris left in the sewer line before you backfill.
- Avoid offset joints, which may make sewer lines vulnerable to root intrusion and grease or debris accumulation. Properly bed your joints and don't hammer tap.

If you cause or witness an SSO, immediately contact:

Dublin San Ramon Services District

(925) 828-0515

Dublin San Ramon Services District

7051 Dublin Boulevard
Dublin, CA 94568

www.dsrsd.com

* Add Dan Martin's
Information

PROCEDURES FOR REPORTING SPILLS

Revised December 10, 2018

(Update: new recycled water spill reporting procedures, updated contacts info, new attachments)

Dan Martin
925-875-2367

Whoever receives notification that a spill has occurred or is in progress must immediately contact the District's designated person responsible for reporting spills. The designated person for reporting spills and their backups are as follows:

Levi Fuller	Primary person responsible for reporting spills and SSO's
Jeff Carson	Backup for reporting spills if Levi Fuller is not available
Senior Wastewater Operator on-duty	Backup for reporting spills if Levi Fuller and Jeff Carson are not available

Provide the following information when notifying agencies:

- a. Date and time the spill began and ended
- b. Location of the spill
- c. If the spill entered a storm drain or receiving water
- d. Estimated volume of the spill or flow if the spill is ongoing
- e. Estimated time of repair
- f. Cause of the spill
- g. Agencies involved with the response actions
- h. Corrective actions taken or plans for corrective action
- i. Whether adverse impacts related to the spill were observed such as excessive sedimentation or a fish kill.

SSO 1,000 gallons or more that escapes to a stream or surface waters (Category 1)

1. Notify CAL OES at 800-852-7550 within 2 hours of confirming that the spill is sewage from a District sewer and that the spill has reached surface waters or is likely to reach surface waters. Write down the tracking control number that OES gives you. CAL OES will automatically notify the RWQCB and the local health department.
2. If the spill is estimated to be 50,000 gallons or more to surface waters, water quality sampling is required. Call Environmental Compliance and ask for assistance collecting samples and photos (Kapil 925-570-6886, or cell 510-449-4745, or home 925-867-4475).
3. Keep records or notes of how the spill volume was estimated. See attached *Volume Estimated Method*.
4. ~~* Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 work or 925-719-2997 cell or 510-798-6784 personal cell. If you cannot reach Levi or Jeff, contact the Senior Operator on duty via the Odor Hotline 925-519-0557 and ask the Senior Operator to report the spill using CIWQS. If you were unable to reach Jeff, call Dan McIntyre at 925-875-2200 office or 925-719-4730 cell or 925-321-0655 personal cell.~~
5. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or 925-570-8757 cell.
6. If the SSO results in sewage backed up into a home or business, within the first four hours notify Alan Dialon at Carl Warren & Company at 909-763-4320.
7. Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Evan Buckland at 510-668-6539 and report the spill.
8. If the spill impacts a flood control channel, then also e-mail Zone 7 at spillnotice@zone7water.com
9. If the spill occurred in Dublin, call Dublin Public Works at 925-833-6630.
10. If the spill occurred in Pleasanton, call Pleasanton Public Works at 925-931-5538.
11. Report details concerning the spill to Michelle Gallardo on the next business day following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
12. **Submit a draft SSO report in CIWQS:** prepare and submit an uncertified SSO report using CIWQS within 3 business days after becoming aware of the SSO.

PROCEDURES FOR REPORTING SPILLS

Revised December 10, 2018

13. **Certify the SSO report in CIWQS:** complete and certify the SSO report within 15 calendar days of the SSO end date. The certified report must include detailed information about the spill.
14. **SSO Technical Report:** for any Category 1 event estimated to spill 50,000 gallons or more into surface waters a Technical Report must be prepared and submitted in CIWQS within 45 days of the SSO end date.

SSO less than 1,000 gallons that escapes to a stream or surface waters (Category 1)

- 1. Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or 925-719-2997 cell or 510-798-6784 personal cell. If you cannot reach Levi or Jeff, contact the Senior Operator on duty via the Odor Hotline 925-519-0557 and ask the Senior Operator to report the spill using CIWQS.
- 2. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359, or 925-570-8757 cell.
- 3. If the SSO results in sewage backed up into a home or business, within the first four hours notify Alan Dialon at Carl Warren & Company at 909-763-4320.
- 4. Keep records or notes of how the spill volume was estimated. See Attachment A – *Volume Estimated Method*.
- 5. Report details concerning the spill to Michelle Gallardo on the next business day following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
- 6. **Submit a draft SSO report in CIWQS:** prepare and submit an uncertified SSO report using CIWQS within 3 business days after becoming aware of the SSO.
- 7. **Certify the SSO report in CIWQS:** complete and certify the SSO report within 15 calendar days of the SSO end date. The certified report must include detailed information about the spill.

SSO 1,000 gallon spill or more that does not reach surface waters or that is 100% captured, (Category 2)

- 1. Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or 925-719-2997 cell or 510-798-6784 personal cell.
- 2. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359, or 925-570-8757 cell.
- 3. If the SSO results in sewage backed up into a home or business, within the first four hours notify Alan Dialon at Carl Warren & Company at 909-763-4320.
- 4. Keep records or notes of how the spill volume was estimated. See attached *Volume Estimated Method*.
- 5. If the spill occurred in Alameda County, especially for larger spills, you may want to call Alameda County Environmental Health at 510-567-6736.
- 6. If the spill occurred in Contra Costa County, especially for larger spills, you may want to call Contra Costa County Environmental Health at 925-692-2500.
- 7. If the spill occurred in Dublin, especially for larger spills, call Dublin Public Works at 925-833-6630.
- 8. If the spill occurred in Pleasanton, especially for larger spills, call Pleasanton Public Works at 925-931-5538.
- 9. Report details concerning the spill to Michelle Gallardo on the next business day following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
- 10. **Submit a draft SSO report in CIWQS:** prepare and submit an uncertified SSO report using CIWQS within 3 business days after becoming aware of the SSO.
- 11. **Certify the SSO report in CIWQS:** complete and certify the SSO report within 15 calendar days of the SSO end date. The certified report must include detailed information about the spill.

PROCEDURES FOR REPORTING SPILLS

Revised December 10, 2018

SSO spills less than 1,000 gallons from the District sewer system that do not reach surface waters (Category 3)

-  1. Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 or 925-719-2997 cell or 510-798-6784 personal cell.
- 2. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or the Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or 925-570-8757 cell.
- 3. If the SSO results in sewage backed up into a home or business, within the first four hours notify Alan Dialon at Carl Warren & Company at 909-763-4320.
- 4. Keep records or notes of how the spill volume was estimated. See attached *Volume Estimated Method*.
- 5. Report details concerning the spill to Michelle Gallardo on the next business day following the initial report of the spill. Michelle will follow up with Carl Warren & Company (CSRMA).
- 6. **SSO report in CIWQS:** prepare, submit, and certify an SSO report within 30 calendar days of the end of the month in which the SSO occurred. The certified report must include detailed information about the spill.

Private sewer lateral spills and overflows, any size, residential or business

- 1. Provide the property owner or the business manager with a copy of the **CSRMA instructions** attached for reporting private sewer spills, and tell the responsible party that notification and reporting are required by State law.
-  2. If DSRSD staff respond to the private lateral spill to mitigate the overflow and/or perform clean-up work, notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or 925-570-8757 cell.
- 3. Spills of 1,000 gallons or more to surface waters should be reported by District staff to Cal OES if possible, or if it appears unlikely that the private owner will report the spill. If so, contact **CAL OES** at 800-852-7550.
- 4. If the spill occurred in Dublin, call Dublin Public Works at 925-833-6630.
- 5. If the spill occurred in Pleasanton, call Pleasanton Public Works at 925-931-5538.
- 6. **If deemed appropriate, private sewer lateral spills should be reported by the District in CIWQS.** Certification of reports of private sewer lateral spills is not required.
- 7. Report details concerning the spill to CSRMA by contacting Michelle Gallardo on the next business day following the initial report of the spill.

Partially treated wastewater or sludge spill with discharge to surface waters, 1,000 gallons or more

- 1. Call CAL OES at 800-852-7550 within 2 hours of first learning about the spill, and obtain and write down the tracking control number they give you. CAL OES will automatically notify the RWQCB and the local health department.
- 2. Call Environmental Compliance and ask for assistance collecting samples and photos (Kapil 925-570-6886 or cell 510-449-4745 or home 925-867-4475).
- 3. Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 work or 925-719-2997 cell or 510-798-6784 personal cell. If you were unable to reach Jeff, call Dan McIntyre at 925-875-2200 office or 925-719-4730 cell or 925-321-0655 personal cell.
- 4. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or 925-570-8757 cell.
- 5. Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Evan Buckland at 510-668-6539 and report the spill.

PROCEDURES FOR REPORTING SPILLS

Revised December 10, 2018

6. If the spill impacts a flood control channel, then e-mail Zone 7 at spillnotice@zone7water.com
7. Call Pleasanton Public Works at 925-931-5538.
8. Report details concerning the spill to CSRMA by contacting Michelle Gallardo on the next business day following the initial report of the spill.
9. Prepare and submit to the RWQCB a full written report of the spill within 5 business days. The report should be directed to the RWQCB's **James Parrish**, Case Worker, James.Parrish@waterboards.ca.gov or (510) 622-2381.

Partially treated wastewater or sludge spill with no discharge to surface waters, 1,000 gallons or more

1. Call the RWQCB spill hotline at 510-622-2369 **as soon as possible** about the spill, and/or contact the RWQCB's Case Worker **James Parrish**, James.Parrish@waterboards.ca.gov or (510) 622-2381.
2. Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 work or 925-719-2997 cell or 510-798-6784 personal cell.
3. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or 925-570-8757 cell.
4. If the spill occurred in Alameda County, call Alameda Co Env Health at 510-567-6736.
5. If the spill occurred in Contra Costa County, call Contra Costa Co Env Health at 925-692-2500 during business hours, or 925-383-5445 after hours.
6. Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Evan Buckland at 510-668-6539 and report the spill.
7. Call Pleasanton Public Works at 925-931-5538.
8. Report details concerning the spill to CSRMA by contacting Michelle Gallardo on the next business day following the initial report of the spill.
9. Prepare and submit to the RWQCB a full written report of the spill within 5 business days. The report should be directed to the RWQCB's **James Parrish**, Case Worker, James.Parrish@waterboards.ca.gov or (510) 622-2381.

Recycled water spill of 50,000 gallons or more (secondary effluent, 3W, or DERWA)

1. Call CAL OES at 800-852-7550 **as soon as possible** about the spill, and obtain and write down the tracking control number they give you. CAL OES will automatically notify the RWQCB and the local health department.
2. Call Environmental Compliance and ask for assistance collecting samples and photos (Kapil 925-570-6886, or cell 510-449-4745, or home 925-867-4475).
3. For spills of recycled water greater than 50,000 gallons that have **not been dechlorinated** and that **discharge to a surface waterbody**, water quality samples shall be collected as follows:
 - a. Use a field water quality meter/sensor to measure pH, dissolved oxygen, temperature, and conductivity at each sample location. Confirm with Regional Water Board staff the sampling locations but a minimum, (a) upstream of the point of discharge, (b) at the point of discharge, and (c) prior to confluence with another surface waterbody if encountered up to 0.5 mile downstream of the spill location.
 - b. Collect a water quality sample for chlorine residual analysis at each location.
4. Call ACWD's Thomas Niesar at 510-668-6549 or cell 510-708-6392 and report the spill. If Thomas Niesar is unavailable call ACWD's Evan Buckland at 510-668-6539 and report the spill.
5. If the spill impacts a flood control channel, then e-mail Zone 7 at spillnotice@zone7water.com
6. If the spill occurred in Dublin, call Dublin Public Works at 925-833-6630.
7. If the spill occurred in Pleasanton, call Pleasanton Public Works at 925-931-5538.

PROCEDURES FOR REPORTING SPILLS

Revised December 10, 2018

8.  Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 work or 925-719-2997 cell or 510-798-6784 personal cell. If you were unable to reach Jeff, call Dan McIntyre at 925-875-2200 office or 925-719-4730 cell or 925-321-0655 personal cell.
9. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or 925-570-8757 cell.
10. As soon as emergency response measures are completed, but no later than 24 hours after the discharge, notify the San Francisco Bay RWQCB and the Division of Drinking Water via email addresses listed below:
 - **San Francisco Bay RWQCB** 510- 622-2390 or 510- 622-2305
Melissa Gunter melissa.gunter@waterboards.ca.gov
Blair Allen blaire.allen@waterboards.ca.gov
 - **San Francisco Bay RWQCB Spill Line** 510-622-2369, email RB2spillreports@waterboards.ca.gov
 - **State Water Resources Control Board Division of Drinking Water** 510-620-3454
District 04 Contact: Marco Pacheco marco.pacheco@waterboards.ca.gov
11. Notify the Regional Water Board Spill Line via phone 510-622-2369 or email RB2spillreports@waterboards.ca.gov.
12. Provide written confirmation via email to the Regional Water Board and the Division of Drinking Water (listed above) within 15 calendar days from the date of notification using the form attached or by providing similar information in a letter or memo.
13. Prepare and submit to the RWQCB a full written report of the spill within 15 calendar days. The report should be directed to the RWQCB's **James Parrish**, Case Worker, James.Parrish@waterboards.ca.gov or (510) 622-2381.

Recycled water for any spills (secondary effluent, 3W, or DERWA) that discharge to a surface waterbody, drainage ditch, or storm drain

1.  Notify Levi Fuller at 925-875-2300 or 925-570-8775 cell or 707-552-4094 home. If you cannot reach Levi, contact Jeff Carson at 925-875-2345 work or 925-719-2997 cell or 510-798-6784 personal cell. If you were unable to reach Jeff, call Dan McIntyre at 925-875-2200 office or 925-719-4730 cell or 925-321-0655 personal cell.
2. Notify the Safety Officer at 925-875-2393 or 925-570-8996 cell. If you cannot reach the Safety Officer, contact the Safety Technician at 925-875-2395 or 925-570-4419 cell. If you cannot reach the Safety Officer or Safety Technician, contact the Safety Division Supervisor at 925-875-2359 or 925-570-8757 cell
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 - **San Francisco Bay RWQCB** 510- 622-2390 or 510- 622-2305
Melissa Gunter melissa.gunter@waterboards.ca.gov
Blair Allen blaire.allen@waterboards.ca.gov
 - **San Francisco Bay RWQCB Spill Line** 510-622-2369, email RB2spillreports@waterboards.ca.gov
 - **State Water Resources Control Board Division of Drinking Water** 510-620-3454
District 04 Contact: Marco Pacheco marco.pacheco@waterboards.ca.gov
4. Notify the Regional Water Board Spill Line via phone 510-622-2369 or email RB2spillreports@waterboards.ca.gov. Water Board staff may advise us to contact the California Office of Emergency Services at 800-852-7550 or 916-845-8911.
5. Provide written confirmation via email to the Regional Water Board and the Division of Drinking Water (listed above) within 15 calendar days from the date of notification using the form attached or by providing similar information in a letter or memo.
6. Include pertinent information with the next monthly eSMR.

PROCEDURES FOR REPORTING SPILLS

Revised December 10, 2018

SSO Reporting and Certification using CIWQS

1. Reports must be filed using CIWQS at the following web address: <http://ciwqs.waterboards.ca.gov/>
2. If the CIWQS website is down, reports must be faxed to CIWQS at 510-622-2460 containing all of the same on-line information.
3. To access CIWQS, first you will need to login by entering a CIWQS user name and password. If you do not have a CIWQS user name and password, you will need to complete and submit an application. Note that applications must be submitted during normal working hours, and actual approval for access to CIWQS may take a day or more to obtain.
4. Applications can be found at http://www.waterboards.ca.gov/water_issues/programs/ciwqs/chc_sso.shtml
5. Login on at <http://ciwqs.waterboards.ca.gov/> then select SSO-Sanitary Sewer Overflows then select either Reporting New SSO or Modifying Existing SSO and fill in the appropriate information.
6. Detailed information on SSO reporting and requirements can be found at:
http://www.waterboards.ca.gov/water_issues/programs/sso/docs/discharger_workbook.pdf

For convenience, you may want to print a copy of these instructions and keep them in a safe place, along with your personal CIWQS user name and password.

User Name

Password

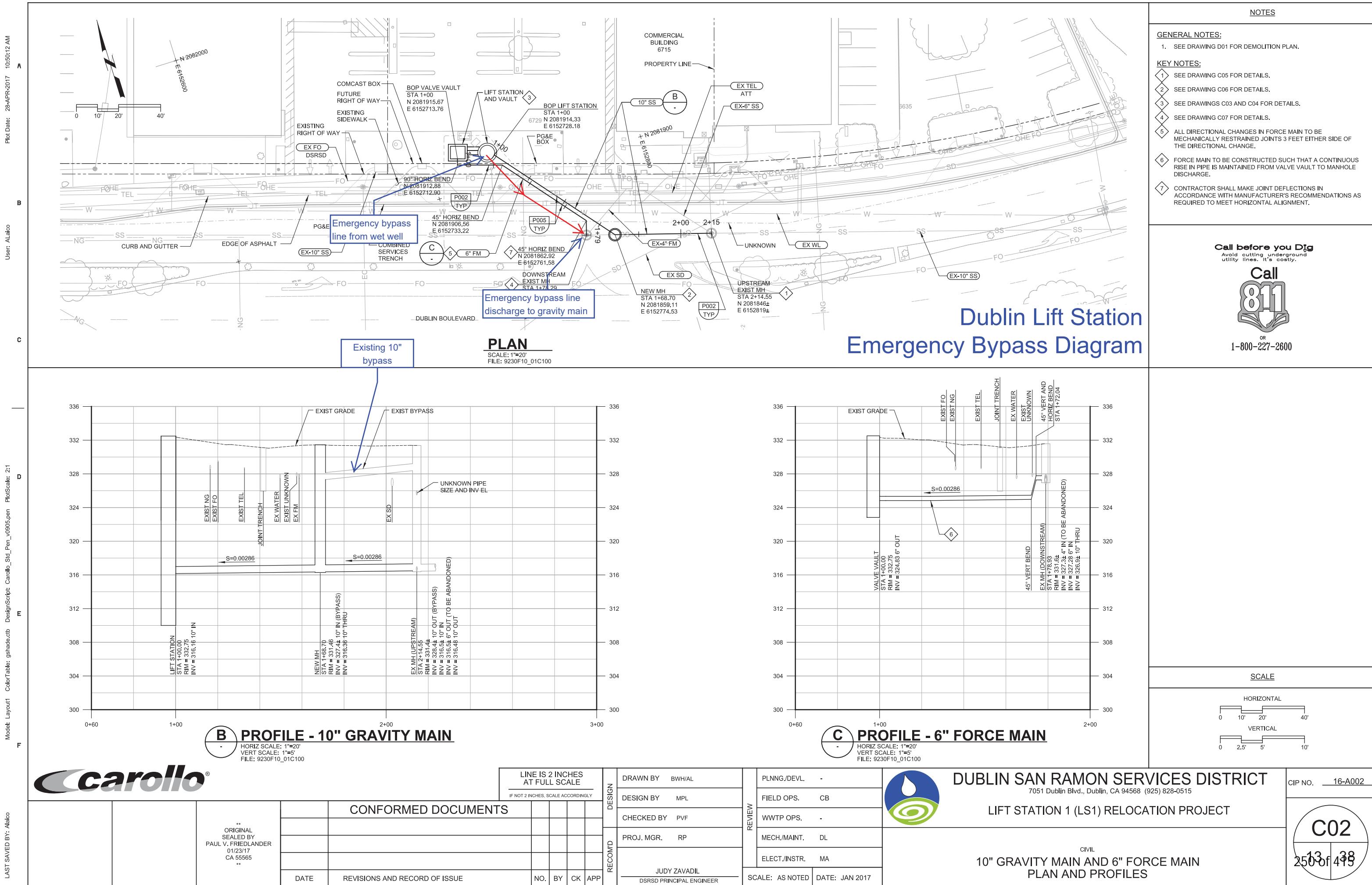
Dublin Lift Station – Emergency Response – Checklist

Portable Generator

- Pick up Truck w/ Pintal Hitch
- Portable generator – stored @ PS 10A
- Fuel for Generator
- Safety Traffic Cones or Delineators
- Barricades to close off driveway if needed or requested
- Lock out Tag out instructions – Stored in RTU panel on site
- Caution tape

By Pass Pumping

- Pick up Truck w/ Pintal Hitch
- Trailer Mounted Gruman Rump Pump– Stored @ WWTP – Maintenance
- Fuel for Pump
- Suction & Discharge Hose – Stored @ WWTP - Maintenance
- Safety Traffic Cones
- Road Lane closure signs
- Barricades to close driveway access
- Caution tape



ATTACHMENT C

Tri-Valley Intergovernmental Reciprocal Services Agreement

A14-26

#40642
Res. 67-14
Pgs 1-14

Tri-Valley Utility Coordination and Integration
Steering Committee

Tri-Valley Intergovernmental Reciprocal
Services
Master Agreement

TRI-VALLEY INTERGOVERNMENTAL RECIPROCAL SERVICES MASTER AGREEMENT

This AGREEMENT ("AGREEMENT") establishes a Tri-Valley Intergovernmental Reciprocal Services Master Agreement to facilitate the process of contracting for services, or sharing resources, materials, personnel, and equipment between the signatory local or regional government entities, and, to the extent appropriate, private utilities for the purposes described herein. This AGREEMENT is made and entered into by and between the parties that are signatories to this AGREEMENT. The AGREEMENT was first approved on _____.

Recitals

WHEREAS, each of the initial parties to this AGREEMENT is a local or regional government entity functioning within the Tri-Valley Region,

WHEREAS, the parties recognize that this AGREEMENT may also be applicable to other local or regional government entities serving communities near the Tri-Valley Region; and

WHEREAS, the parties hereto recognize the value of using common resources effectively and find that promoting the coordination of interagency efforts in the Tri-Valley Region, or a larger regional area that could include local or regional government entities servicing nearby communities is in the public interest and for the common benefit of all; and

WHEREAS, the parties desire to enter into an AGREEMENT to efficiently coordinate interagency efforts to reduce costs, increase efficiency, or achieve higher quality work-product by providing services and resources to the other parties; and

WHEREAS, it is understood that the primary purpose of this AGREEMENT is to provide a structure for the successful and efficient coordination of utility and public works maintenance activities, sharing of resources and contracting for services described herein; and

WHEREAS, the parties understand that the AGREEMENT provides only a general framework to address the administration, liability and equitable apportionment of the cost of services provided by one party to the other, with more specific terms and conditions contained in written Task Orders negotiated between the individual parties for sharing resources or contracting for services; and

WHEREAS, the parties do not intend to create a separate public agency pursuant to Government Code §6500 et seq. through this AGREEMENT and no provision of this AGREEMENT should be so construed; and

WHEREAS, the parties intend to directly contract with one another for services, supplies, equipment, or materials using the framework set forth in this agreement.

NOW, THEREFORE, the parties hereto do hereby enter into this AGREEMENT, as follows:

- 1. Definitions.** As used in this AGREEMENT, the following words and phrases shall have the meanings set forth below unless the context clearly indicates otherwise.

- a. "AGREEMENT" shall mean the Tri-Valley Intergovernmental Reciprocal Services Master Agreement.
- b. "Member Agency" or "Member Agencies" or "Party" or "Parties" shall mean local or regional government entities that are signatories to this AGREEMENT.
- c. "Task Order" shall mean a written agreement between two or more member agencies describing the services to be performed or resources to be shared between the agencies and the terms of the services or project, which may include but not be limited to compensation and payment, term or duration, required inspections, milestones, and insurance or indemnity requirements.

2. Objectives. Through this AGREEMENT, the Parties initially intend that this Agreement will enable willing Member Agencies to share among and between themselves resources that support local or regional government functions including, but not limited to utility and public works administrative and maintenance activities such as fleet or landscape maintenance; cleaning, televising and repairing subsurface pipelines; pavement marking or repairs; maintenance of water reservoirs and fire hydrants; custodial/janitorial services; purchasing equipment and/or supplies; and training, grant writing and sharing of equipment.

3. Membership

- a. **Member Agency.** Any local and/or regional public agency that operates within or has jurisdiction over any area within the Tri-

Valley Region, or that operates within or has jurisdiction over areas immediately adjacent to the Tri-Valley Region or which is located within sufficient geographical proximity to provide efficient sharing of resources with agencies operating within the Tri-Valley may be a Member Agency under this AGREEMENT. Each Member Agency must be a signatory to this AGREEMENT. Other local or regional public agencies may become a Party to this Agreement by (i) passing a resolution of its governing body by which it agrees to comply with all the terms of this Agreement, (ii) executing the signature page attached hereto, and (iii) providing notice of these actions to the Member Agencies of the AGREEMENT. Acceptance or approval by the existing Parties is not needed for a new party to enter into this agreement.

- b. Initiation of Membership.** If an eligible agency as defined in Section 3 requests to enter this AGREEMENT as a new Member Agency, the new Member Agency is subject to all provisions of this AGREEMENT.
- c. Termination of Membership.** Any Member Agency may voluntarily terminate its membership in the AGREEMENT upon completion of all obligations and Task Orders entered into between it and the other member(s) and upon 90 days' notice to the Member Agencies, if any. Except as specified in Section 11, a Member Agency's termination of membership shall have no effect on the

continuing effectiveness of the AGREEMENT among the remaining Member Agencies.

4. Sharing Information Among Member Agencies. Member Agencies shall, upon the request of another Member Agency, submit copies of Task Orders initiated under this AGREEMENT to the other Member Agency at mutually agreeable intervals.

5. Task Orders.

Implementation of interagency efforts shall be accomplished through Task Orders issued by one Member Agency to another Member Agency referencing the standard terms and conditions described in Exhibit B. The parties agree that the terms and conditions for compensation or payment from one Member Agency to another for sharing resources or providing services will be negotiated between the individual Member Agencies and contained in a Task Order. Said task orders are subject to the laws and purchasing authorities of each Member Agency. Task Orders shall be executed by the designated official or Chief Executive Officer of the respective Member Agency, or his or her authorized designee. The Task Orders shall be in substantially the same form as attached hereto as Exhibit A, and shall be specific to the coordinated effort or task.

6. Hold Harmless and Indemnity:

a. Regarding the Performance of Services Under a Task Order.

Each Task Order issued under this AGREEMENT shall contain one or more provisions addressing the defense of and indemnity against loss,

liability, damage, cost and expense arising out of services received and furnished under a Task Order issued pursuant to this AGREEMENT.

Unless the Task Order creates a different standard between those two parties, as provided in Subsection b., below, the provision(s) shall take the form(s) set forth in Section 9 of Exhibit B to the AGREEMENT.

b. **Alternative indemnification arrangements.** In Task Orders issued pursuant to this AGREEMENT, Member Agencies may agree between or among themselves to replace the defense and indemnity provisions set forth in Section 9 of Exhibit B to the AGREEMENT with alternative indemnification provisions specific to the subject matter of any particular Task Order or Task Orders.

7. Inconsistent Terms Between AGREEMENT and Task Orders: Member Agencies are encouraged to maintain consistency through the use of the Task Order form and standard terms and conditions found in Exhibits A and B. Nonetheless, the Parties recognize that the circumstances of the transaction being memorialized by a Task Order may require variations from those templates. Accordingly, the Member Agencies agree, that in the event that there are any conflicts between any provision of this AGREEMENT and the corresponding provision of any Task Order issued thereunder, the provision of the Task Order shall govern. Notwithstanding anything to the contrary, the preceding sentence shall not be construed to allow any Task Order to be executed without mutually agreeable provisions for defense of and indemnity against loss, liability, damage,

cost and expense including but not limited to reasonable attorney, consultant and expert fees, and court costs.

8. Effective Date. This AGREEMENT shall become effective when at least two (2) agencies have executed it.

9. Term and Expiration. This AGREEMENT shall remain in effect as long as at least two agencies remain as parties to the AGREEMENT. It shall expire when only one agency is a party.

10. General Provisions

a. Counterparts. This AGREEMENT may be executed in counterparts and each of these executed counterparts shall have the same force and effect as an original instrument and as if all of the parties to the aggregate counterparts had signed the same instrument.

b. Notices: Any notice required, or convenient to the performance, hereunder, shall be in writing and may be given to the parties by personal delivery, or by mail (first class or equivalent), postage prepaid.

c. Contact Information For Member Agencies

Upon joining, Member Agencies will provide contact information.

d. Modification: This AGREEMENT may only be modified by written amendment or supplement approved and executed by the parties in the same manner as this AGREEMENT.

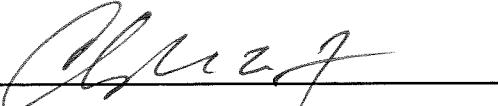
e. Waiver: Failure of any party to insist upon the strict performance of any term or condition in this AGREEMENT or in any Task Order, no matter

how long the failure continues, is not a waiver of the term or condition by that party and does not bar the right of the party to subsequently demand strict performance. To be effective, a waiver must be in writing and signed by the non-breaching party.

- f. Severability:** If any term or provision of this AGREEMENT or any Task Order is deemed invalid or unenforceable by any court of final jurisdiction, it is the intent of the Parties that all other provisions shall be construed to remain fully valid, enforceable and binding on the parties.
- g. Governing Law:** This AGREEMENT and Task Orders shall be governed by, and will be interpreted in accordance with, the laws of the State of California.

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT as set forth below.

CITY OF DUBLIN

By: 

Print Name: CHRISTOPHER L. FOSS

Title: CITY MANAGER

Date: 10/21/14

CITY OF LIVERMORE

By: _____

Print Name: _____

Title: _____

Date: _____

CITY OF PLEASANTON

By: _____

Print Name: _____

Title: _____

Date: _____

CITY OF SAN RAMON

By: _____

Print Name: _____

Title: _____

Date: _____

**DUBLIN SAN RAMON SERVICES
DISTRICT**

By: _____

Print Name: _____

Title: _____

Date: _____

ZONE 7 WATER AGENCY

By: _____

Print Name: _____

Title: _____

Date: _____

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT as set forth below.

CITY OF DUBLIN

By: _____

Print Name: _____

Title: _____

Date: _____

CITY OF LIVERMORE

By: _____

Print Name: _____

Title: _____

Date: _____

CITY OF PLEASANTON

By: _____ 

Print Name: Nelson Fialho

Title: City Manager

Date: _____

CITY OF SAN RAMON

By: _____

Print Name: _____

Title: _____

Date: _____

Approved As To Form:

Laura Seto

**DUBLIN SAN RAMON SERVICES
DISTRICT**

By: _____

Print Name: _____

Title: _____

Date: _____

ZONE 7 WATER AGENCY

By: _____

Print Name: _____

Title: _____

Date: _____

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT as set forth below.

CITY OF DUBLIN

By: _____
Print Name: _____
Title: _____
Date: _____

CITY OF LIVERMORE

By: _____
Print Name: _____
Title: _____
Date: _____

CITY OF PLEASANTON

By: _____
Print Name: _____
Title: _____
Date: _____

CITY OF SAN RAMON

By: _____
Print Name: _____
Title: _____
Date: _____

**DUBLIN SAN RAMON SERVICES
DISTRICT**

By: 
Print Name: Bert Michalczyk
Title: General Manager
Date: November 3, 2014

ZONE 7 WATER AGENCY

By: _____
Print Name: _____
Title: _____
Date: _____

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT as set forth below.

CITY OF DUBLIN

By: _____

Print Name: _____

Title: _____

Date: _____

CITY OF LIVERMORE

By: Marc Roberts

Print Name: Marc Roberts

Title: City Manager

Date: 12-4-14

Marc
Asst City Atty
APPROVED AS TO FORM:
gjd

CITY OF PLEASANTON

By: _____

Print Name: _____

Title: _____

Date: _____

CITY OF SAN RAMON

By: _____

Print Name: _____

Title: _____

Date: _____

**DUBLIN SAN RAMON SERVICES
DISTRICT**

By: _____

Print Name: _____

Title: _____

Date: _____

ZONE 7 WATER AGENCY

By: _____

Print Name: _____

Title: _____

Date: _____

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT as set forth below.

CITY OF DUBLIN

By: _____
Print Name: _____
Title: _____
Date: _____

CITY OF LIVERMORE

By: _____
Print Name: _____
Title: _____
Date: _____

CITY OF PLEASANTON

By: _____
Print Name: _____
Title: _____
Date: _____

CITY OF SAN RAMON

By: _____
Print Name: _____
Title: _____
Date: _____

**DUBLIN SAN RAMON SERVICES
DISTRICT**

By: _____
Print Name: _____
Title: _____
Date: _____

ZONE 7 WATER AGENCY

By: D. F. Duerig
Print Name: G. F. Duerig
Title: General Manager
Date: 20 Oct 2014

IN WITNESS WHEREOF, the parties hereto have executed this AGREEMENT as set forth below.

By: _____

Print Name: _____

Title: _____

Date: _____

By: _____

Print Name: _____

Title: _____

Date: _____

By: _____

Print Name: _____

Title: _____

Date: _____

By: _____

Print Name: _____

Title: _____

Date: _____

Exhibit A

Task Order Template

Exhibit B

Standard Terms and Conditions

The parties agree that the following standard terms and conditions will be used in Task Orders initiated under this AGREEMENT. Member Agencies may include additional terms and conditions specific to the coordinated effort or may agree between or among themselves to modifications of these terms for any particular task order.

1. Description of Activity or Services. Each Task Order shall describe the specific activity, service or resource being shared or performed. The description should contain information on required inspection, testing or acceptance procedures, if any, as well as milestones or completion dates for the tasks to be completed.

Compensation and Payment. The Task Order shall include the compensation and payment terms for the services or resources provided. It is anticipated that costs for services and sharing resources would be based on or related to the cost of providing the service or sharing the resource, however nothing in this section is intended to restrict Member Agencies from providing or accepting services based on factors other than the cost of providing the service.

2. Term. Task Orders shall specify the term of the activity, project, service or sharing of resources.

3. Termination. Unless a Task Order provides otherwise, a Member Agency

may terminate any portion or all of the services authorized under a Task Order by giving the other Member Agency or agencies party to the Task Order 30 calendar-days advance written notice. Upon receipt of a termination notice, Member Agencies shall immediately stop all work in progress on the services authorized under the Task Order, except where necessary to preserve the benefit of the work, and assemble the work for delivery to the other Member Agency on or about the termination date. All compensation for services performed prior to the termination dates shall be payable within 30 days to the Member Agency in accordance with the Compensation and Payment provisions of the specific Task Order.

- 4. Insurance.** Task Orders shall include insurance provisions acceptable to each Member Agency that is a party to the specific Task Order, and consistent with the insurance underwriting and risk management principles of each participating Member Agency.
- 5. Reference to Master Agreement.** Task Orders may incorporate by reference any condition in this AGREEMENT, or may include different conditions or requirements specific to the proposed work or services. Examples include, but are not limited to indemnification, insurance, waiver and severability. Conditions or requirements contained in Task Orders may be more or less restrictive than conditions, terms or requirements included in this AGREEMENT with consent of all parties to the individual Task Order;
- 6. Non-Exclusive Agreement.** Task Orders shall include a statement that they are non-exclusive agreements, and that Member Agencies reserve the right

to provide, and to retain others to provide, services that are the same or similar to the services described in the Task Order.

7. **No Assignment.** Task Orders shall include the requirement that the Member Agency providing the service shall not assign or subcontract any of the services to non-public agency staff without the prior consent of the Member Agency receiving the service. Task Orders initiated to take advantage of coordinated purchasing or contracting arrangements where the service will be provided using outside contractors shall explicitly note that the service is being provided with contract or non-public agency resources to ensure appropriate competitive bidding procedures are followed.
8. **Dispute Resolution.** If the event of a dispute concerning the terms and conditions of this AGREEMENT or a Task Order initiated pursuant to this AGREEMENT the affected parties will negotiate and attempt to resolve the matter informally. Each party shall negotiate in good-faith by ensuring its representative is knowledgeable about the dispute, this AGREEMENT and any pertinent Task Order, and has the ability to either agree to a solution or has authority to make a direct recommendation to the party's decision makers who can approve a solution.
9. **Defense and Indemnity** Each Party to this Task Order shall defend, indemnify and hold each of the other parties to this AGREEMENT, and their respective elected officials, officers, directors, employees, agent, and designated volunteers harmless from and against any and all loss, liability, damage, cost and expense including but not limited to reasonable attorney,

consultant and expert fees, and court costs, to the extent caused by the indemnifying party's own negligence, recklessness, willful misconduct, or infringement of any patent, trademark, or copyright (or uncopied composition, secret process, patented or unpatented invention, article or appliance furnished or used) in the performance of its services under a Task Order issued pursuant to this AGREEMENT. This indemnity shall not apply to liability for damages for death or bodily injury to persons, injury to property, or other loss arising from the sole misconduct, including active negligence, of the party receiving the service, or of another Party to this AGREEMENT, or their respective elected officials, officers, directors, employees, agents, and designated volunteers unless the Parties expressly so provide.

Acceptance of insurance certificates and endorsements required under this Task Order does not relieve a Member Agency from liability under this indemnification and hold harmless clause except to the extent payment is made under such policy or policies.

10. Obligation to Correct Errors In addition to the above indemnification obligations, a Member Agency providing services shall correct, at its own expense, all errors in the services provided measured against the terms of the Task Order under which services were provided. Should a Member Agency providing services fail to make such correction in a timely manner after being notified, the Member Agency contracting for the service shall make the correction and charge the cost thereof to the Member Agency responsible for providing the service.

ATTACHMENT D

**Sewer System Major Equipment
Inventory; Critical Sewer Replacement
Parts Inventory; and Contact
Information for Vendors and Contractors**

Attachment D1. Sewer System Major Equipment Inventory

Part ID	Description
109	Combination Truck, Vacuum and Jetter
110	Combination Truck, Vacuum and Jetter
82	CCTV Truck
510E	Gorman Rupp Pump Trailer
511E	Gorman Rupp Pump Trailer
512E	Gorman Rupp Pump Trailer
513E	Duetz Pump

Attachment D2. Critical Sewer System Replacement Parts Inventory

Part ID	Description
TBD	Replacement Keen Pumps, Qty 2
TBD	Replacement Flygt Pumps, Qty 2
TBD	Pipe, by the foot
TBD	Couplings, various sizes
TBD	Manhole Covers
TBD	Manhole Rings

Attachment D3. Contact Information for Vendors and Contractors

Vendors/Contractors	Name	Contact Numbers
Internet Service Provider	T&T	For Internet and VoIP: Mon.-Fri. 7 a.m. to 12 a.m. EST (877) 288-8362 Then select options: 1, 3, 1 DO Site: Asset Name: USCALNDBLCA01R Circuit ID: 86KQGN600728PT FOF Site: Asset Name: USCALNPLSCA01R Circuit ID: 86KQGN600726PT For Business Lines/POTS Repair: (800) 727-2273
Computer Equipment Vendor	Dell Workstation Customer #002026373 Ext Business Day Four Hour Service	(800) 456-3555 Customer Support
Fuel Supplier (backup generator)	Hunts and Sons	(707) 576-6042; (925) 755-3835
Supervisory Control and Data Acquisition (SCADA)	Intellution iGlobalCare Dave Pulice	(925) 570-4270 (cell) 1-800-GE-FANUC Business Hours (800) 876-5951 24 Hr. Emergencies
DSRSD Information Technology Services Division	Information Services Supervisor: Bob Treppa	(925) 570-8777 (cell)

ATTACHMENT E

Contractor Outreach Flyer

Your Actions Can Prevent Sanitary Sewer Overflows!

What are Sanitary Sewer Overflows or SSOs?

SSOs discharge untreated or partially treated human and industrial waste, debris and disease-causing organisms from the sanitary sewer onto the ground near and into homes and potentially into creeks, rivers, lakes or streams.

What are the impacts of SSOs?

SSOs may result in property damage, environmental damage and/or potential liability to you or your company. Allowing sewage to discharge to a gutter, storm drain or waterway may subject you to penalties and/or out-of-pocket costs to reimburse cities or public agencies for clean-up efforts and regulatory penalties.

How can you prevent SSOs?

and avoid associated penalties & fines



Check Our Web Site for More Info

Visit http://www.dsrsd.com/doing_business_with_drsd/standards_specs.html, under Drawings, click on Sewer Details, refer to Drawing S-8. If working on sewer laterals, plumbers/contractors need to obtain a Limited Construction Permit at the Permit Counter at the District Office.

Who Do I Call to Avoid an SSO?

Help us help you...



If you require our free assistance to help clear root balls, grease blockages and other debris from a main sewer line to prevent an SSO or to open a manhole in our service area, please call us at: (925) 828-0515.



DUBLIN
SAN RAMON
SERVICES
DISTRICT

Our Wastewater Service Area

Our customers are located in Dublin, Pleasanton, Southern San Ramon, and Dougherty Valley.

District offices are at: 7051 Dublin Blvd., Dublin, CA 94568, (925) 828-0515

www.dsrsd.com

ATTACHMENT F

Standard Procedures, Specifications and Drawings for Wastewater Utilities

DUBLIN SAN RAMON SERVICES DISTRICT

**STANDARD PROCEDURES,
SPECIFICATIONS AND DRAWINGS**

**FOR DESIGN AND INSTALLATION OF
POTABLE WATER, RECYCLED WATER
AND WASTEWATER UTILITIES**

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STANDARD DRAWINGS

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SECTION I

GENERAL REQUIREMENTS

SECTION I

GENERAL REQUIREMENTS

SECTION I-A - INTRODUCTION

I-A1. SCOPE AND PURPOSE

The scope and purpose of these Standard Procedures, Specifications, and Drawings (“Standards”) is to provide minimum requirements for the design, materials used, and methods of construction for the Dublin San Ramon Services District’s (“District”) potable water, recycled water, and sewer systems located within public and private properties. These Standards implement the rules and regulations in the District Code, Titles 3, Application for Services, 4, Water Service Delivery, and 5, Wastewater Service Delivery. The potable water system includes the installation of mains, service assemblies, hydrants, and valves. The recycled water system includes the installation of mains, service assemblies, and valves. The sewer system includes the installation of mains, service laterals, and manholes. These Standards also cover all other necessary appurtenances and, in general, any repairs, replacements, relocations, or any potable water, recycled water, or sewer work done either for the District or for others by separate contract.

Section I of the specification portion of these Standards covers all topics general to potable water, recycled water, and sewer systems including administrative procedures and policies, design, and construction standards. Section II applies only to potable water systems, and Section III exclusively covers sewerage system requirements. Section IV applies only to recycled water systems.

I-A2. DEFINITIONS

Whenever the following terms, or pronouns used in their place, occur in these documents or in any documents that these Design Criteria and Standards govern, the intent and meaning shall be interpreted as defined below:

“Acceptance”: The formal action by the District General Manager accepting the dedication of completed facilities.

“Air-Gap Separation”: A physical break between a supply pipe and a receiving vessel. The air gap shall be at least double the diameter of the supply pipe, measured vertically above the top rim of the vessel, and in no case less than one (1) inch.

“Applicant”: An individual owner or owner’s developer, builder, engineer, or other authorized representative who applies as the owner’s official agent to the District for potable water, recycled water, or sewer service.

“Applicant’s Engineer”: The Engineer licensed by the State of California as a Civil Engineer, retained or employed by the Applicant, under whose direction plans, profiles, and details for the Work are prepared and submitted to the District for review and approval.

“Application Rate”: The rate at which water is applied to an irrigation or construction area.

“Approved”: Unless specifically otherwise indicated, this shall mean approval by the District Engineer.

“Approved Use Area”: A site with well-defined boundaries that is designated to receive recycled water for an approved use and is in conformance with the regulations of all applicable regulatory agencies.

“Automatic System”: Automatic controllers, valves, and associated equipment required for the programming of effective water application rates when using recycled water.

“Board”: The Board of Directors of the Dublin San Ramon Services District.

“City”: Either the City of Dublin or City of San Ramon, California, whichever applies.

“Color Codes”: Colors specified by the District to differentiate various types of facilities (e.g. potable from recycled water systems).

“Contract”: The agreement covering the performance of the Work and the furnishing of labor, materials, tools, and equipment in the construction of the Work. The contract may be in the form of the notice to contractors, proposal, plans, specifications, special provisions, contract or performance bonds, purchase orders, standard terms of conditions, work order forms, or a written agreement.

“Contractor”: The person or persons, firm, partnership, corporation, or combination thereof, private or municipal, that entered into a contract with the Dublin San Ramon Services District, the Cities of Dublin or San Ramon, or the Counties of Alameda or Contra Costa, or the owner of private property doing his/her own Work on his/her private property only. For purposes of acceptance and guarantee, Contractor refers to the party that has posted the bonds. For purposes of construction, Contractor refers to any contractor licensed by the State of California to enter into contracts for and to perform the Work of installing, repairing, replacing, or relocating potable water, recycled water, or sewer facilities under District jurisdiction.

“County”: Either the County of Alameda or County of Contra Costa, California, whichever applies.

“Cross Connection”: An unprotected actual or potential connection between a potable water system used to supply water for drinking purposes and any source or system containing non-potable water or other substance. Bypass arrangements, jumper connections, removable

sections, swivel or changeover devices, or other devices through which backflow could occur, shall be considered to be cross connections.

“Customer”: An owner, developer, builder, engineer, or other authorized representative who accepts responsibility for the customer facilities once they are constructed and accepted by the District.

“Customer Facilities”: Recycled or potable water facilities downstream of the water meter that are owned and operated by the Customer. This also includes sewer facilities upstream of the connection to the District sewer main that are owned and operated by the Customer.

“Day”: A calendar day of 24 hours.

“DIP”: Ductile Iron Pipe

“District”: The Dublin San Ramon Services District, its Board of Directors, authorized employees, and agents, a subdivision of the State of California, located in Alameda and Contra Costa Counties.

“District Engineer”: The District Engineer of the Dublin San Ramon Services District or his/her authorized agent.

“District Facilities”: Recycled or potable water facilities upstream of, and including, the water meter are owned and operated by the District. Sewer mains and appurtenances downstream of the connection to the District’s sewer main are owned and operated by the District.

“Easement”: A recorded document by which the land owner gives the District or the public permanent rights to construct, operate, and maintain a pipeline across private or other property.

“H.L.”: Hydraulic Line

“HDPE”: High Density Polyethylene

“House or Building Sewer”: A sewer pipe on private property connecting a house or a building with the service lateral on public property at the property line.

“Improvement Plans”: Drawings of all potable water, recycled water, and/or sewer mains, services, and appurtenances which are included under District jurisdiction for the proposed project. Prior to construction, the District Engineer must approve Improvement Plans.

“Infiltration Rate”: The rate at which soil will accept water.

“Inspector”: An employee or agent of the District engaged to observe and record field compliance with design criteria, plans, and construction standards.

“Lateral Sewer”: The sewer pipe in a public street or easement connecting a house or building sewer to the District’s main, owned and maintained by the owner of the property which it serves.

“Main”: All potable water, recycled water, and sewer pipelines dedicated for public use in the District’s system, excluding services and laterals.

“Marking Tape”: Tape attached directly to a pipe for the purpose of identifying the pipe as carrying recycled or potable water.

“Offsite Recycled Water Facilities”: Recycled water facilities upstream of, and including, the water meters, which are owned and operated by the District.

“Onsite Recycled Water Facilities”: Recycled water facilities downstream of the water meter, which are owned and operated by the Customer.

“Over Spray”: Recycled water that is transmitted through the air to a location other than for which the direct application of recycled water is intended.

“Owner”: Any holder of legal title, contract purchaser or lessee of property for which service is requested from the District.

“Pantone”: Color standard system.

“Ponding”: Retention of piped recycled water on the surface of the ground or manmade surface for a period of time following the cessation of an approved recycled water use activity such that potential hazard to downstream water courses or the public health may result.

“Potable Water”: Water that conforms to the latest edition of the United States Public Health Service Drinking Water Standards, the California Safe Drinking Water Act, and/or other applicable standards.

“Potable Water Service”: The furnishing of potable water to an owner through a metered connection to customer facilities.

“PVC Pipe”: Polyvinyl chloride pipe.

“Record Drawings”: Drawings completed under the supervision of the Developer’s Engineer that accurately show all customer and District potable water, recycled water, and sewage facilities as constructed or modified.

“Recycled Water”: Water which, as a result of treatment of wastewater meeting the requirements of Title 22, Division 4, Chapter 3 of the California Code of Regulations, is suitable for outside landscape irrigation or other controlled use as approved by the District.

“Recycled Water Service”: The furnishing of recycled water to an owner through a metered connection to customer facilities.

“Regulatory Agency”: Those public agencies legally constituted by the State of California to protect health and water quality.

“Runoff”: Flow of water along the surface of the ground or other natural or manmade surfaces including, but not limited to, pedestrian walkways, streets, playground surfaces, and grassy slopes or other landscaped areas.

“Sample Station”: Service piping and appurtenances connected to a District potable water or recycled water main used to collect samples for water quality analysis.

“Sealing Water”: Independent water supplies to pump seals, which provide sufficient sealing pressure and priming.

“Service Assembly”: Potable and recycled water pipes and fittings between the District’s main and the meter.

“Service Connection”: The point of connection of the private property owner’s water or recycled water piping to the District’s meter.

“Service Line”: The pipe and fittings between the District’s main and the meter.

“Sewer”: Sanitary sewer.

“Side Sewer”: Includes both the lateral sewer and house or building sewer from the sewer main to the house or building piping; side sewer is owned and maintained by the owner of the property it serves.

“Specifications”: The specifications and drawings contained herein and approved addenda, plus any other standard specifications incorporated by reference. In general, the referenced standards or specifications shall be understood as being the latest edition.

“Spray Irrigation”: Application of water for irrigation by spraying.

“Standards”: The specifications and drawings contained herein and approved addenda, plus any other standard specifications incorporated by reference. In general, the referenced standards or specifications shall be understood as being the latest edition.

“State”: The State of California.

“Subcontractor”: An individual, firm, or corporation having a direct contract with the Contractor or with any other subcontractor for the performance of a part of the Work at the site.

“Unauthorized Discharge”: Any release of recycled water that violates the regulations of the District or any applicable Federal, State, or local statutes, regulations, ordinances, and contracts.

“Warning Tape”: Tape that is laid a specified distance above a buried pipe, typically one (1) foot, for the purpose of warning that there is a buried pipeline below.

“Windblown Spray”: Dispersed, airborne particles of recycled water transmitted through the air to a location other than that for which the direct application of recycled water is approved.

“Work”: Any and all obligations, duties, and responsibilities necessary to the successful completion of the project assigned to or undertaken by a Contractor including all labor, materials, equipment, and other incidentals, and the furnishing thereof.

I-A3. ABBREVIATIONS

Whenever in these Standards the following abbreviations are used, they shall be defined as listed below:

AASHTO	American Association of State Highway and Transportation Officials
ABS	Acrylonitrile-Butadiene-Styrene
ANSI	American National Standards Institute
ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
CEQA	California Environmental Quality Act
CDF	Controlled Density Fill
CIOD	Cast Iron Outside Diameter
CPVC	Chemical-Resistant Polyvinyl Chloride
DIP	Ductile Iron Pipe
DIPRA	Ductile Iron Pipe Research Association
DOT	Department of Transportation
DR	Dimension Ratio
DSRSD	Dublin San Ramon Services District
DWG	Drawing
e.g.	For example
ES	Extra Strength
fps	feet per second
gpcd	gallons per capita per day
gpd	gallons per day
gpm	gallons per minute
HDPE	High Density Polyethylene
HL	Hub Lateral
NAD	North American Datum
NFPA	National Fire Protection Association
NPT	National Pipe Thread
NSF	National Sanitation Foundation

OD	Outside diameter
OSHA	Occupational Safety and Health Administration
PPI	Plastic Pipe Institute
ppm	parts per million
psi	pounds per square inch
psig	pounds per square inch gauge
PVC	Polyvinyl Chloride
RWQCB	Regional Water Quality Control Board
SC	Slow Cure asphalt
SDR	Standard Dimension Ratio
USA	Underground Services Alert
VCP	Vitrified Clay Pipe
WEF	Water Environment Federation

SECTION I-B - ADMINISTRATIVE REQUIREMENTS FOR APPLICANT-INITIATED PROJECTS

I-B1. RESPONSIBILITIES

The responsibilities of the District, Applicant, Applicant's Engineer, and Contractor with respect to administrative implementation of an applicant-initiated project are defined in the following subsections.

I-B1-1. District Responsibilities

The District shall be responsible for the review and approval of Improvement Plans and the inspection of all mains and services within the public right-of-way and the inspection of recycled water lines outside the public right-of-way for all Work. In addition, the District shall be responsible for the inspection of the house or building sewer to within two (2) feet from the house exterior wall or building face.

I-B1-2. Applicant Responsibilities

The Applicant shall have ultimate responsibility for compliance with all requirements specified in these Standards. The Applicant shall be directly responsible for all administrative requirements including application, submittal of all required Improvement Plans, bonds and insurance, and payment of fees. The Applicant shall also be responsible for performance of the Applicant's Engineer in meeting all design requirements and for the performance of the Contractor in meeting all construction-related requirements.

I-B1-3. Applicant's Engineer's Responsibilities

These Standards establish requirements for the design and construction of the District's potable water, recycled water and sewer systems. They are not intended to be a substitute for engineering knowledge, judgment, or experience. The standards presented herein shall be reviewed by the Applicant's Engineer and shall be applied as necessary to the project. Proposed deviations to these Standards shall be submitted, in writing, to the District Engineer.

It is also the Applicant's Engineer's responsibility to be aware of the District's master plans for potable water, recycled water, and sewer systems, and to provide a design that conforms to the District's master plans. Deviations from the District's master plans shall be submitted in writing to the District Engineer. Deviation from the District's master plans will necessitate verification by the Applicant's Engineer of the adequacy of existing potable water, recycled water, and sewer system capacity considering additional project flows.

All development project plans, specifications, reports, or other documents shall be prepared by a State of California registered civil engineer or by a subordinate employee under the direction of the State of California registered civil engineer. All documents shall be signed by a State of California registered civil engineer and stamped with the registered seal to indicate responsibility for them. A "Design Approved" stamp of the District on the Improvement Plans does not in any

way relieve the Applicant's Engineer of the responsibility to adhere to the standards generally prevailing for the performance of expert professional engineering services, exercise the same degree of care, skill, and diligence in the performance of the services as is ordinarily provided by a professional engineer under similar circumstances, and meet all requirements of the District. The Improvement Plans shall be revised or supplemented at any time it is determined that the District's requirements have not been met.

All design changes and change orders shall be submitted to the District for review. Change orders shall be signed and stamped by the Applicant's Engineer. Major changes, as determined by the Inspector, are subject to review and approval by the District Engineer.

In conformance with the California Environmental Quality Act (CEQA), all actions by the District in reviewing, approving, issuing and inspecting Improvement Plans, construction permits and public works for applicant-initiated projects shall be deemed ministerial. It shall be the Applicant's responsibility to conform to the requirements of CEQA and the requirements of the lead agency, which has approved a development project or entitlement, including all mitigation measures that may relate to public improvements under District approval and inspection. The District shall be held harmless from any suit or action arising out of compliance by the Applicant with CEQA, or performance or lack of performance by the Applicant of any mitigation measure adopted or required by any local government.

I-B1-4. Contractor Responsibilities

The Contractor shall be directly responsible for the means, methods, techniques, sequences, and procedures of construction not otherwise required by these Standards and the Improvement Plans. At all times, the Contractor shall be responsible for compliance with all governing federal, state, and local laws, ordinances, codes, orders, and regulations that in any manner affect those engaged or employed on the jobsite, the materials used in the Work, and the safe conduct of the Work. The Contractor shall also be directly responsible for the compliance of all finished work with these Standards and the Improvement Plans.

The inspection by the District Engineer or Inspector, or any approval of the work by the District Engineer or Inspector, does not relieve the contractor of the responsibility to adhere to the standards generally prevailing for the construction, exercise the same degree of care, skill, and diligence in the performance of the work as is ordinarily provided by a licensed contractor under similar circumstances, and adhere to the approved plans and these Standards. Any defective work discovered by the District before the expiration of the period prescribed for latent deficiencies in Section 337.15 of the Code of Civil Procedure shall be removed and replaced, at the applicant's expense, by work that fully conforms to the provisions of the approved plans and these Standards.

I-B2. INTERPRETATION OF SPECIFICATIONS AND DRAWINGS

These Standards are intended to serve as one document. This means that the specifications and drawings contained herein are complementary, and what is called for in one shall be as binding as what is called for in both. In the case of conflict between the specifications and drawings, the specifications shall govern. In case of conflict between the Improvement Plans and Standard

Drawings, the Standard Drawings will govern unless the District Engineer has approved a specific variance. In the event of discrepancies, errors, or omissions found in these Standards, or should it appear there is not sufficient detail to perform the Work, then the Applicant shall promptly submit in writing to the District Engineer a request for clarification or interpretation. The District Engineer will act upon such a request within five (5) working days.

I-B3. VARIANCES

A request for a variance from any requirement contained in these Standards must also be submitted in writing to the District Engineer by the Applicant. Such requests shall identify the exact requirement at issue and indicate the proposed variance with supporting factual information. The District Engineer will act upon such requests within ten (10) working days. Any appeal of a decision by the District Engineer must be submitted in writing to the Dublin San Ramon Services District Board of Directors within ten (10) working days of the District Engineer's action. Such appeal will be heard at the next regularly scheduled Board meeting. The written appeal must be received at least ten (10) working days prior to the meeting at which time it will be heard.

I-B4. APPLICATION FOR SERVICE

The first step an Applicant shall take to acquire potable water, recycled water, and/or sewer service for a project shall be the submittal of an application for service to the District office. Once this has been done and the accompanying plan check fee paid, then all subsequent project design review and approval steps shall be undertaken.

I-B5. PLANNING CONSULTATION SERVICES

To coordinate the best alternative plan for delivery of potable water, recycled water, and/or sewer service for a development project, the District Engineer will review proposed Work in accordance with the District's master plans. The District Engineer shall determine if the proposed Work will require a plan of services in order to comply with the District's master plans. Upon determination that a plan of services is required for Work, the District Engineer shall determine who shall prepare the plan of services.

The Applicant shall be entitled to a limited number of planning consultation sessions with the District Engineer or an appointed representative from District staff not to exceed eight (8) personnel hours unless agreed to by the District.

This shall also include follow-up review by District staff of any required engineering documentation such as Improvement Plans or calculations prepared by the Applicant or Applicant's Engineer, subject to plan check fees. In the event that District time for plan review services exceeds two (2) reviews, then the Applicant may be charged for further planning consultation services on an hourly basis in accordance with the District Code. Time spent on formal review of completed Improvement Plans shall be considered as part of the project approval process and not under planning consultation services.

I-B6. PROJECT APPROVAL PROCESS

The project approval process shall basically consist of:

1. The submittal of Improvement Plans and Final Map or Parcel Map, if applicable, for District review.
2. The submittal of Engineer's Cost Estimate.
3. The submittal of application for services and associated project planning and review fees.
4. The submittal of certificates of insurance with the District, each of its officers, employees and agents included as additional insured.
5. The submittal of faithful performance and payment bond directly to the District.
6. The payment of all District fees and issuance of all necessary permits.
7. The submittal of all required easement description offers, legal description of plats, and plat plans. The fee title owner shall sign the easement offer.

I-B6-1. Improvement Plans

Work necessary for the installation of mains, services, and appurtenances to provide potable water, recycled water, and/or sewer service shall be shown on the Improvement Plans. The Improvement Plans shall be prepared under the direction of, and signed by, a currently registered professional engineer in the State of California.

Improvement Plans showing the proposed Work shall be submitted to the District for approval. Included with this submittal shall be all calculations requested by the District Engineer to verify the design of any portion of the potable water, recycled water, or sewer systems. Calculations shall be based on methods generally accepted by the engineering profession and shall be neatly and legibly done in such form as to enable them to be readily checked. Calculations shall be signed and stamped by a State of California registered civil engineer. In addition, literature and technical data concerning any of the materials and equipment to be used shall be furnished to the District Engineer upon request.

Improvement Plans shall comply with the following requirements. Exceptions for small projects may be granted subject to the discretion of the District Engineer.

1. During plan checking, submit three (3) sets of full size Improvement Plans, with a minimum drawing size of 22 inches by 34 inches:
2. All mains shall be shown in plan and profile with services and laterals in plan.
3. All existing and proposed fire hydrants, valves, and other miscellaneous appurtenances shall be shown for potable and recycled water systems. Commercial and recycled water fire hydrants shall be specifically distinguished.
4. All existing and proposed backflow preventers, valves and other miscellaneous appurtenances shall be shown for potable water systems.
5. All existing and proposed valves and other miscellaneous appurtenances shall be shown for recycled water systems.
6. All existing and proposed manholes, cleanouts, and other miscellaneous appurtenances shall be shown for sewer systems.

7. All existing and proposed potable and recycled water mains, storm and sanitary sewers in the vicinity of any proposed potable water and/or recycled water facilities shall be shown.
8. All existing and proposed buildings and other structures, including light standards and accessory structures, which may affect maintenance, operations, or replacement of water and sewer mains, shall be shown.
9. All required easements shall be shown.
10. Plan and profile drawing scale shall be at least 1 inch equals 40 feet.
11. An overall plan view of the entire proposed potable water, recycled water, and sewer-line system shall be provided and shown on one sheet with a drawing key for subsequent plan and profile sheets. In addition, entire single utility should be shown on single sheets.
12. Improvement Plans shall include a location map showing the area to be served relative to established public roads.
13. Improvement Plans shall include a note that states: "Work shall comply with the Standard Procedures, Specifications, and Drawings of Dublin San Ramon Services District."
14. When service utilities and layouts are not presented clearly on Improvement Plans, District may require enlarged details to be provided.
15. Utility poles, fences, street lights and trees shall be specifically identified on Improvement Plans.
16. Improvement Plans shall show all proposed utilities and improvements and shall be substantially complete to the satisfaction of responsible agencies. "Water Only" or "Sewer Only" plans shall not approved by the District Engineer.

The District cost of reviewing the first two (2) Improvement Plan submittals is considered covered by the standard plan checking fees. Additional Improvement Plan submittal reviews will be charged to the Applicant on the basis of District hourly review time.

Once a development project has been approved by the District Engineer, then two (2) full size bluelines, one (1) reduced 11-inch X 17-inch copy, and one (1) digital vectorized file on CD of the Improvement Plans shall be submitted to the District. Digital raster copies are not acceptable. The digital vectorized files shall be in AutoCAD 2000 or higher drawing format. Drawing units shall be decimal with a precision of 0.00. Angles shall be in decimal degrees with a precision of 0.00. All objects and entities in layers shall be colored by layer. All layers shall be named in English. Abbreviations are acceptable. All submitted map drawings shall use the Global Coordinate System of USA, California, NAD 83 California State Planes, Zone III, and U. S. foot.

No changes shall be made to the approved Improvement Plans unless approved and initiated by the District Engineer. In the case of an approved change, all submitted sheets affected by the change shall be replaced.

During construction, one (1) completed set of Improvement Plans shall be kept on site at all times.

I-B6-2. Insurance

An Applicant or Contractor shall procure, carry, and maintain for the duration of the contract the following insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors. Coverage shall at least be as broad as the following:

1. Commercial general liability insurance using Insurance Services Office Form CG 00 01, including products and completed operations, with limits of no less than the amount of \$5,000,000 per occurrence for bodily injury, personal injury, or death, and property damage. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be \$10,000,000;
2. Automobile Liability: Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), with limits no less than \$5,000,000 per accident for bodily injury and property damage;
3. Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employers' Liability insurance with a limit of no less than \$1,000,000 per accident for bodily injury or disease;
4. Builder's Risk (Course of Construction) insurance covering all risks of loss less policy exclusions, with limits equal to the completed value of the project and no coinsurance penalty provisions; and, if the project involves environmental hazards,
5. Contractors' Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors and Omissions with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.

Any deductibles or self-insured retentions must be declared to and approved by the District. At the option of the District, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the District, its officers, officials, employees, and volunteers; or the Applicant or Contractor shall provide a financial guarantee satisfactory to the District guaranteeing payment of losses and related investigations, claim administration, and defense expenses.

Such insurance shall be primary to any insurance carried by the District, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the District, its officers, officials, employees, or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.

Dublin San Ramon Services District, its Board, each of its officers, employees, and agents shall be named as additional insured on the CGL and auto policies with respect to liability arising out of automobiles owned, leased, hired, or borrowed by or on behalf of the Applicant or Contractor; and with respect to liability arising out of work or operations performed by or on behalf of the Applicant or Contractor including materials, parts, or equipment furnished in connection with

such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (at least as broad as ISO Form CG 20 10, 11 85 or both CG 20 10 and CG 20 37 forms if later revisions used)..

Cancellation statement on the insurance certificate shall state: "Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will mail 30 days written notice to the certificate holder named to the left." In addition, each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled except after thirty (30) days prior written notice (10 days for non-payment) has been provided to the District.

The Applicant or Contractor shall maintain such insurance until the project has been accepted by the District General Manager. The Applicant or Contractor shall submit a copy of the Certificate of Insurance along with endorsement from the issuing insurance company. Renewal of such insurance shall be submitted to the District thirty (30) days prior to the expiration of the insurance.

I-B6-2.1. Waiver of Subrogation

Contractor hereby agrees to waive rights of subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the District for all work performed by the Contractor, its employees, agents and subcontractors.

I-B6-2.2. Verification of Coverage

Contractor shall furnish the District with original certificates and amendatory endorsements, or copies of the applicable insurance language, effecting coverage required by this contract. All certificates and endorsements are to be received and approved by the District before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The District reserves the right to require complete, certified copies of all required insurance policies, including endorsements, required by these specifications, at any time.

I-B6-3. Bonds and Other Security

All Applicants and/or Contractors shall obtain a faithful performance bond, a payment bond, and warranty bond/maintenance security. The faithful performance bond and the payment bond should be based on 100% of Applicant's Engineer's cost estimate, subject to District Engineer approval. The faithful performance bond and the payment bond shall be submitted to the District prior to issuance of a construction permit and remain in full force and effect until the project is accepted by the District. The warranty bond/maintenance security shall have a minimum amount of 10% of the amount of the District Engineer approved Engineer's cost estimate. The warranty bond/maintenance security shall be submitted to the District prior to acceptance of the project and shall remain in place until authorization of release has been issued by the District.

The warranty bond/maintenance security shall be submitted prior to District General Manager project acceptance and remain in place at least one year after the completion and acceptance of the project, and completion of any repairs required by the District at warranty inspection, unless the District Engineer requires a longer period. If project occupancy is less than ninety (90) percent at project acceptance, the warranty bond/maintenance security shall remain in place until the final residential or commercial unit in the project is granted occupancy.

I-B6-4. Permits, Licenses and Fees

The Applicant shall obtain all necessary District construction permits, pay all District fees, and submit a copy of the contractor's license prior to the commencement of any Work. Prior to installation of potable water meters, Zone 7 water connection fees shall be paid.

I-B6-5. Easements

When conditions require that potable water, recycled water, and sewer mains be located in private property, an easement for the area of pipe alignment shall be secured for the District by the Applicant at no cost to the District. Easement shall provide for restrictions of permanent construction within easement to provide ingress and egress for maintenance.

For subdivision tracts, the owners of land included within the subdivision shall offer to dedicate, for public use, the sewer, recycled water, and potable water easements so designated on the final or parcel map. For other than subdivision tracts, dedication of sewer, recycled water, and potable water rights-of-way shall occur by means of deeds of conveyance to the District for all dedications other than those dedications created by subdivision tract maps on a form and as approved by District Engineer. The Owner of Record shall sign the easement offer.

In addition to easements over the actual pipeline alignment, and where required due to topography or other access limitations, easements shall include adequate ingress and egress for District maintenance vehicles and equipment.

In circumstances where an easement is required across an adjacent property not owned by the Applicant, the Applicant shall be responsible for negotiating and acquiring easements for potable water, recycled water and/or sewer that may be required. The easement documents must be received and approved by the District prior to the issuance of any construction documents.

I-B7. INSPECTIONS AND TESTING

All materials furnished and all Work performed under the contract shall be subject to inspection by the District Engineer. The Contractor shall be held strictly to the true intent of the Standards in regard to quality of materials, workmanship, and diligent execution of the contract. Such inspection may include mill, plant, shop, or field inspection as required. The District Engineer shall be permitted access to all parts of the Work, including plants where materials or equipment are manufactured or fabricated; and shall be furnished with such materials, information, and assistance by the Contractor and subcontractors and suppliers as is required to make a complete and detailed inspection.

The Contractor shall notify the Inspector forty-eight (48) hours in advance of the commencement of any Work. Tie-ins to existing District facilities require seven (7) working days advance notice unless otherwise authorized by the District Engineer.

The District Engineer and the officers, and agents of the District shall have unrestricted access at reasonable hours to all premises to which the District provides services to inspect the potable water, recycled water, and/or sewer facilities, meter or other measuring apparatus and to see that the rules and regulations of the District regarding the installation of potable water, recycled water, and/or sanitary sewer facilities, and the use of potable and recycled water, and the discharge of wastewater are being observed.

I-B7-1. Work Done in the Absence of Inspection

Work done in the absence of District inspection may be required to be removed and replaced under the proper inspection, and the entire cost of removal and replacement shall be borne by the Contractor, regardless of whether the Work removed is found to be defective or not. Work covered up without the authority of the District Engineer shall, upon order of the District Engineer, be uncovered to the extent required; and the Contractor shall similarly bear the entire cost of performing all the Work and furnishing all the materials necessary for the removal of the covering and its subsequent replacement, as directed and approved by the District Engineer.

I-B7-2. Cost of Inspection and Testing

The cost of initial inspection and testing, with the exception of bacteriological tests, shall be included in the inspection fees per District Code and collected in advance. In the event that any inspection or test reveal non-compliance with approved plans or these specifications, the Applicant shall bear the cost for such corrective measures deemed necessary by the District Engineer, as well as additional re-inspection and re-testing costs incurred by the District.

The Applicant shall be directly responsible for the cost of bacteriological tests. The District shall collect the fees for bacteriological tests separately, after completion of laboratory work for each test.

Overtime construction Work performed at the option of, or for the convenience of, the Contractor will be inspected by the District at the expense of the Applicant and will be billed to and shall be paid for by the Applicant on a monthly basis. Overtime shall be considered beyond the regular eight (8) hour day and for any time on Saturday, Sunday, or holidays. There will be no charge for the inspection of overtime Work ordered by the District Engineer. The Applicant or Contractor shall notify the Inspector not less than forty-eight (48) hours prior to beginning overtime Work and shall be required to complete, and submit to the District, an overtime request form to firmly verify the overtime request. In the event of conflicting schedules or other prior commitments of the Inspector, overtime inspection may not necessarily be provided for the requested period. Fees for overtime inspection shall be in accordance with fees established by ordinance or resolution of the District Board of Directors.

I-B7-3. The Inspector

District Inspectors will be authorized to inspect, on behalf of the District Engineer, all Work done and all materials furnished. Such inspection may extend to all or any part of the Work. The Inspector is not authorized to revoke, alter, or waive any requirements of the Standards. The Inspector is authorized to call attention of the Contractor to any failure of the Work or materials to conform to the Standards. The Inspector will have the authority to reject materials or suspend the Work until any questions at issue can be referred to and decided by the District Engineer or a duly appointed representative. The Inspector will in no case act as a supervisor or perform other duties for the Contractor, nor interfere with the management of the Work by the Contractor. Any advice, which the Inspector may give the Contractor, shall in no way be construed as binding to the District in any way or releasing the Contractor from fulfilling all the Contractor's responsibilities.

If the Contractor refuses to suspend operations on verbal order from the Inspector, the District Engineer shall then issue a written order stopping all Work. After delivery of the order to the Contractor or person in charge, the Inspector will immediately leave the job, and all Work done in the absence of the Inspector shall not be accepted.

I-B7-4. Testing

Except where otherwise specified, the District Engineer or Inspector will make, or have made, such tests determined necessary to ensure that the Work is being accomplished in accordance with the requirements of these Standards and Improvement Plans. The Contractor shall be required to furnish materials and/or do whatever work may be necessary to prepare the facilities for testing. In the event that any tests reveal noncompliance with specified requirements, the Contractor shall bear the cost for such corrective measures deemed necessary by the District Engineer, as well as the cost of subsequent re-testing.

I-B8. SERVICE AND OCCUPANCY

I-B8-1. Beneficial Occupancy

The District may, prior to acceptance of the Work, occupy, or use, any completed part or parts of the Work, providing these areas have been approved for occupancy by the District. The District shall operate and maintain such occupied parts of the work to ensure continued service to its customers. The exercise of this right shall in no way constitute an acceptance of such parts, or any part of the Work. The Work shall be accepted by the District General Manager only when all of the Work has been duly and properly performed in accordance with the requirements of these Standards and Improvement Plans.

District occupancy of part(s) of the Work does not relieve the Applicant or Contractor from completion of follow-on Work associated with those occupied part(s) of the Work. During the this beneficial occupancy period, the Applicant and/or Contractor shall perform maintenance repairs on those occupied part(s) of the Work associated with faulty or insufficient materials,

workmanship, and/or installation, and any damages associated with the construction of the Project. During construction activities, the Applicant and the Contractor shall protect those occupied part(s) of the Work in accordance with I-D1-5. Care of Existing Property Structures and Utilities. The commencement of the warranty period for these occupied part(s) of the Work shall be upon the acceptance of all of the Work by the District Board of Directors. The warranty bond/maintenance security required by these specifications shall remain in full effect in accordance with I-B6-3. Bonds and Other Security.

I-B8-2. Building Occupancy

Conditions for potable water, recycled water, and/or sewer service and allowance for occupancy of up to ninety (90) percent of dwelling units or ninety (90) percent of the square footage for commercial/industrial of a development project are as follows:

1. All mains, services, and major appurtenances such as fire hydrants and valves for potable and recycled water systems and manholes for sewer systems have been installed to the satisfaction of the Inspector.
2. All connections to existing District systems and facilities have been performed.
3. All testing as required in these Standards has been successfully completed.
4. No further construction Work, such as roadwork, will jeopardize the integrity or quality of potable water, recycled water, or sewer facilities already installed.
5. There is access to all operating facilities such as manholes, vaults, and valves.

Upon meeting all of the above conditions, the Applicant shall submit in writing to the District Engineer a request for occupancy, after which the District Engineer shall respond by recommending occupancy of the home or building to the City following verification that all conditions have been met. The remaining ten (10) percent of the units can be occupied only after formal acceptance of the improvements by the District General Manager.

I-B9. ACCEPTANCE AND GUARANTEE OF WORK

Acceptance of the Applicant's Development Project shall occur only after the following conditions are satisfied:

1. Facilities to be accepted must be adequately protected from on-going construction. Where facilities are to be located in paved areas, the second lift of pavement must be in place.
2. All punchlist work shall be completed.
3. The project warranty bond/maintenance security shall be submitted to the District.
4. The project record drawings shall be submitted to the District.
5. Property dedication requirements over facilities to be accepted shall be completed.
6. All applicable District and Zone 7 fees and charges pertaining to the project shall be paid in full.
7. Special conditions outlined in the construction permit shall be satisfied.
8. Grading plans shall be submitted in AutoCAD digital format with elevation data attached to contour lines and spot elevations.

9. For residential developments, a minimum of fifty (50) percent of the residential units must be occupied. For commercial/industrial developments, a minimum of fifty (50) percent of the commercial square footage must be occupied.

Acceptance of the Applicant's Development Project will be made by action of the General Manager after the Work has been completed in accordance with these Standards, the approved Improvement Plans, all tests have been conducted and successfully completed, any required property dedications to the District are completed, and a favorable final inspection has been completed.

Immediately upon and after acceptance of the Work by the District, the guarantee period on all Work shall be in effect. The standard guarantee period shall be a minimum of one (1) year unless the District Engineer requires a longer period. The warranty bond/maintenance security shall remain in place until the final residential or commercial unit in a development is granted occupancy.

Any faulty workmanship and/or defective materials, which are discovered within the guarantee period, shall be corrected and/or replaced by the Contractor at no expense to the District. Such guarantee period may be extended upon disclosure of a defect until a minimum of one (1) year after the correction of the defect.

All repair Work required during the guarantee period shall be performed within five (5) working days of issuance of written notification to the Contractor. Emergency Work required on work of the Contractor performed by the District and Work performed by the District due to the nonperformance of the Contractor shall be reimbursed to the District within thirty (30) days of invoice.

I-B9-1. Record Drawings

The Applicant or the Applicant's Contractor shall solely dedicate and maintain one (1) set of full size prints as "Record Drawings" and mark thereon the actual work, including any deviations from plan dimensions, elevations or orientations. The Record Drawings shall be submitted in excellent condition to the District upon completion of the job as a condition of acceptance of the Project. Marked prints shall be updated at least once each week and shall be available for District review.

At the completion of all Work, Applicant shall submit Record Drawings as follows:

- one (1) copy in digital vectorized form and one (1) copy in TIF format on CD-ROM. The digital vectorized files shall conform to the format mentioned above.
- one (1) hardcopy set of 11-inch x 17-inch.

I-B10. RECYCLED WATER SERVICE

I-B10-1. Determination When To Use Recycled Water Or Potable Water

The District shall determine whether a given service will be furnished with recycled water or potable water. The determination shall be in accordance with the standards of treatment and water quality requirements set forth in Title 22, Chapter 4 of the California Administrative Code, the intent to promote wise and judicious use of water in accordance with State Water Code, Division 7, Chapter 7, parts 13550 through 13580, and the District Code, ordinances, and Board policy. All information necessary to determine the furnishing of recycled water to any given service, including, but not limited to, on-site irrigation and landscape plans, acreage of plantings, booster pumping and special requirements shall be submitted to District, reviewed and approved in accordance with District "Recycled Water Use Guidelines."

SECTION I-C - DESIGN INFORMATION AND CRITERIA

I-C1. SCOPE

This section covers all design information and criteria general to potable water, recycled water, and sewer projects. For design information and criteria specific to potable water, recycled water, or sewer, refer to Sections II, III, and IV, respectively, of these Standards.

I-C2. PIPE DESIGN

The three primary factors of pipe design for which the Applicant's Engineer shall be responsible are pipe sizing, material selection (limited to only approved material), and class or thickness.

I-C2-1. Pipe Sizing

Pipe mains shall be sized according to the particular criteria presented in the potable water, recycled water, and sewer sections of these Standards.

I-C2-2. Pipe Material Selection

The Applicant's Engineer is directed to the materials of construction Sections II-B, III-B, and IV-B under the potable water, recycled water and sewer sections of these Standards. Only the pipe materials specified in those sections shall be allowed. Any other pipe material selected by the Applicant's Engineer shall be cause for not approving the Improvement Plans unless a specific variance in pipe material selection has been approved by the District Engineer for the particular project development.

I-C2-3. Pipe Class or Thickness

The Applicant's Engineer shall be responsible for verification that minimum class or thickness of pipe, as specified in the materials of construction Sections II-B, III-B, and IV-B under the potable water, recycled water and sewer sections of these Standards, is adequate in regard to providing sufficient structural pipe strength for the particular project development. Sufficient structural pipe strength shall be made available to prevent any collapse, excessive deflection, cracking, or other such pipe failure. The Applicant's Engineer shall consider all factors affecting the required pipe class or thickness including, but not limited to, the dead and live loads; the internal pressure; the road surfacing, trench and pipe embedment cross sections design; and the cover over the pipe. The pipe embedment cross sections design and cover over the pipe are specified in Sections II, III, and IV, respectively, in these Standards and cannot be modified unless specific conditions warrant so and specific approval has been given by the District Engineer.

External loads on sewer mains shall be determined using design methods for computing external loads on trench conduits based on Marston's Formula, and described in the "Design and Construction of Sanitary and Storm Sewer," latest Edition, WEF Manual of Practice No. 9.

It shall be the responsibility of the Applicant's Engineer to determine all other pipe thickness design parameters with a reasonable degree of conservatism and factors of safety. The possibility of H-20 truck loading and impact loads as determined from AASHTO Standard Specifications shall be duly considered.

If the Applicant's Engineer's design analysis shows that a pipe class or thickness other than the required minimum is necessary, then that upgraded pipe class or thickness shall be clearly indicated on the Improvement Plans. In addition, such designs shall require the submittal of calculations by the Applicant's Engineer.

I-C2-4. Pipe Corrosion Protection

Corrosion protection for ductile iron pipe, fittings, valves, and appurtenances shall be as recommended and designed by a State of California Registered Corrosion Engineer. During the plan review process, the Applicant shall submit a copy of the Corrosion Engineer's report and calculations, complete with recommendations. At a minimum, pipe and appurtenances shall have a bituminous coating and shall be encased in loose polyethylene tubing for external corrosion protection. Installation of polyethylene encasement shall be in accordance with the requirements of ANSI A 21.5 (AWWA C105). The interior and exterior surfaces of all fittings and valves shall be coated with 6-8 mil nominal thickness of protective fusion-bonded epoxy. The fusion-bonded epoxy coating shall be applied in accordance with and shall meet all applicable terms and provisions of ANSI/AWWA C116/A21.16-09.

Cathodic protection systems shall include test stations. Cathodic test stations shall be installed on all reaches of the pipeline. Test stations shall be verified by independent testing service and a copy of the test results shall be submitted to the District prior to acceptance of the pipeline.

I-C3. STRUCTURAL PROTECTION

In addition to upgrading the pipe class or thickness, the Applicant's Engineer may recommend the installation of an arch encasement or total pipe encasement on the Improvement Plans to provide sufficient structural support and protection of a pipe main. Arch encasements and total pipe encasements shall be installed as shown in Drawings G-2 and G-3, respectively, of these Standards, unless the Applicant's Engineer demonstrates that more protection is required for the particular pipe installation. In such a case, the Applicant's Engineer shall be responsible for the determination of adequate protection and the District shall be responsible for review and acceptance of the design.

I-C3-1. Other Pipes and Structures

Mains designed to cross under or over other pipes or structures shall be protected from damage and shall be constructed to prevent endangering the other pipe or structure. To minimize hazards to buildings and other above-ground structures when mains are repaired, a minimum horizontal separation of seven and a half (7 ½) feet from pipe external wall and structure foundation or footing must be maintained. The District Engineer may require greater horizontal separation for pipes larger than twelve (12) inches in diameter.

Particular attention shall be given to the possibility and prevention of settlement-caused damage. As a minimum, structural protection as shown in Drawing G-3 shall be provided. Also where future replacement of any line may be extremely difficult due to the pipe or structure, special design considerations may be required.

I-C3-2. Flexible Joints

Flexible joints that will allow for differential settlements or other movement of pipe, structures, adjacent pipe, and adjacent structures shall be provided where lines enter encasements, manholes, or other structures. Specific flexible joint requirements are provided in the potable water, recycled water, and sewer sections of these Standards.

I-C3-3. Steep Grades

When pipe mains are laid on grades steeper than ten (10) percent and are not under nor intended to be under pavement, then special erosion protection shall be provided over the pipe trench. As a minimum requirement, ground cover shall be planted to match the existing surrounding area. Trench dams, as shown in Drawing G-5, water diversion structure, and other surface improvements may be required.

Trench dams per Drawing G-5 shall be installed for mains with slopes of 3:1 or steeper.

I-C3-4. Utility Clusters

In areas where utility services are clustered, the Applicant's Engineer shall submit detailed Improvement Plans showing all service lines, lateral pipeline routes, meter box locations, and other related details.

I-C4. MINIMUM COVER

Minimum cover as specified in the respective potable water, recycled water and sewer sections shall be as measured from the top of pipe to finished grade. In cases where minimum cover cannot be maintained, such as at the crossing of a water main with a sewer main or any other utility line, then either an under crossing or over crossing shall be chosen based upon an evaluation by the Applicant's Engineer. Evaluation shall include the need for higher class pipe or arch encasement, ability to meet State of California, Department of Health Services, Criteria for the Separation of Water Mains and Non-Potable Pipelines and the resulting need for either blowoff or air/vacuum release valves. All calculations involved in this evaluation shall be submitted to the District Engineer for review and acceptance.

I-C5. HORIZONTAL AND VERTICAL SEPARATION

All horizontal and vertical separations between potable water mains, recycled water mains, sewer mains, and sewer laterals shall conform to the criteria as contained in State of California, Department of Health Services, Criteria for the Separation of Water Mains and Non-Potable

Pipelines. A copy of this document is included in Appendix A of these Standards. Wherever the State of California separation criteria cannot be maintained, all special construction criteria as outlined in the same document shall be followed.

The separation criteria shall be applied in all cases to: (i) separation of potable water mains from sewer mains; (ii) separation of potable water mains and service lines from recycled water mains and primary customer facility irrigation lines; and, when practical, (iii) separation of recycled water mains from sewer mains. If application of the criteria to separation of recycled water mains from sewer mains is not practical, special approval is required from the District Engineer.

Vertical separation between sewers and all other utilities other than potable water and between potable water and all other utilities other than sewers shall be no less than twelve (12) inches. Under special cases, a separation of less than twelve (12) inches may be allowed providing the structural protection details of Drawing G-3 are used and special approval is obtained from the District Engineer. Horizontal separation between recycled water, sewers and potable water shall be a minimum of ten (10) feet.

Potable water mains, recycled water mains, and sewer mains shall each be placed in a separate trench. Utilities under ownership by other entities shall not be placed in parallel with and in the same trench as potable water mains, recycled water mains, or sewer mains.

I-C6. EASEMENT REQUIREMENTS AND LOCATIONS

Easements shall be avoided where a reasonable alternate solution exists. Unless there are physical limitations, potable water, recycled water, and sanitary sewers facilities shall be installed within public streets. When easements are required, there shall be careful consideration of how the line is to be maintained and/or replaced, if necessary.

All manholes and valves within easements shall be accessible by conventional maintenance vehicles traveling over paved roads or driveways unless otherwise approved. Thus, manholes and valves within private property are discouraged and subject to special approval by the District Engineer.

Service laterals should not be connected to a main line within an easement unless specifically approved by the District Engineer.

I-C6-1. Easement Width and Obstructions

Easements for pipes up to fifteen (15) inches in diameter shall be a minimum of fifteen (15) feet wide, on private roads and parking lots, and twenty-five (25) feet wide for cross country pipelines, or as determined necessary by the District Engineer. However, additional easement width shall be required where the depths of bury exceed fifteen (15) feet, pipes exceed fifteen (15) inches in diameter, or as deemed necessary by the District Engineer. Pipelines shall not be installed under pavers or decorative pavement or concrete. The Improvement Plans should clearly indicate any known buildings, block walls, streetlights, trees, pavers, decorative pavement or concrete, or other obstructions within a proposed easement. Such items are contrary to District policy and require special approval from the District Engineer.

I-C6-2. Pipe Location in Easement

Pipelines shall generally be placed in the center of easements and only in unusual circumstances shall a pipeline be approved which is closer than five (5) feet from the easement edge. Unless specifically otherwise approved by the District Engineer, the line shall be straight without horizontal bends or deflections.

I-C6-3. Easement Location

The full easement width shall be on one lot or property in such manner that walls, trees, or permanent improvements will not obstruct access to District facilities. Where this requirement cannot be met without interfering with existing buildings, easements may straddle lot lines providing approval is received from the District Engineer and the sewer or water is not located on the lot lines.

I-C7. CROSS CONNECTIONS

Cross connections between any potable water supply and any piping containing recycled water are prohibited. Cross connections between recycled water piping and other water supplies shall be considered on a case-by-case basis.

I-C8. MASTER PLAN COMPLIANCE

The primary guide for growth and development of the District's potable water, recycled water, and sewer systems is the master plan. At any one time, the District may have one or more master plans, which may or may not apply to the location of the project development. The Applicant's Engineer shall be required to be aware of any such applicable master plans before proceeding with design. The Applicant's Engineer shall at all times remain in conformance with the applicable master plan(s) with respect to layout, sizing and other such design criteria as provided in the master plan(s). Deviation from the master plans shall only be permitted by specific approval of the District Engineer. The primary guide for growth and development of the District's recycled water system is the same as for its water and sewer systems.

I-C9. ABANDONMENT

All existing potable water, recycled water and sewer mains or structures that are to be abandoned shall be indicated on the Improvement Plans by the Applicant's Engineer. In general, abandoned lines that are in service will be replaced with a parallel line of equal or larger size, and the Applicant's Engineer shall demonstrate in any case that the abandonment does not adversely affect the potable water, recycled water or sewer systems.

I-C10. SEISMIC REQUIREMENTS

New potable water, recycled water, and sewer pipelines and structures that are located within the vicinity of earthquake zones, for example the Calaveras Fault along San Ramon Road and San

Ramon Valley Boulevard, may be required to have special seismic design features. The District Engineer shall evaluate the facilities and associated requirements on a case-by-case basis.

SECTION I-D - CONSTRUCTION REQUIREMENTS

I-D1. GENERAL

I-D1-1. Quality Control

Requirements for quality of materials and workmanship are specified in the following subsections.

I-D1-1.01. Quality of Material

Material and equipment to be incorporated into the Work shall be new and unused unless otherwise approved by the District Engineer and shall bear the manufacturer's stamp or marking. In case a reference is not clear as to which of several available grades is desired, the highest quality material shall be used.

The Contractor shall, at any time when requested, submit to the District Engineer, proper authenticated documents or other satisfactory proofs of compliance with the requirements of these specifications. This shall include certified copies of factory or laboratory test reports showing the strength characteristics of any materials used in the Work. For all reinforced concrete work, the Contractor shall furnish, in advance of pouring concrete and if requested, the mix design and calculated concrete strength as prepared by the concrete supplier.

I-D1-1.02. Substitutions

Where articles or materials are specified by brand or trade name, alternate materials or articles equal to those specified may be approved provided the request for approval is in writing to the District Engineer accompanied by supporting data. Sufficient time shall be provided to permit investigations without delaying the Work. No deviation from the Standards will be allowed unless the District Engineer approves substitutions.

I-D1-1.03. Quality of Workmanship

All Work will be done by persons experienced in the specific work, under competent supervision and in a manner to the District's complete satisfaction.

I-D1-1.04. Defective Material and Work

Materials not conforming to the requirements of these specifications shall be considered as defective, and all such materials, whether in place or not, shall be rejected and shall be removed from the site of the Work unless otherwise permitted by the District Engineer. No rejected material, the defects of which have subsequently been corrected, shall be used until inspected and approved by the District Engineer.

I-D1-1.05. Material Test Reports

Upon request, suppliers of material shall furnish a certified statement signed by an authorized representative of the manufacturer that materials furnished under these specifications comply in all respects with these specifications. All physical and chemical tests required must be performed within the United States.

I-D1-1.06. Replacement Parts

Suppliers of material must maintain a complete stock of replacement material and repair parts in the local area. Proof of ability to provide these replacements must be demonstrated upon request of the District Engineer.

I-D1-2. Permits and Bonds

The Contractor shall obtain all permits and bonds necessary for construction of the Work, including any required encroachment permits for construction within city, county, or state rights-of-way. The Contractor shall comply with all requirements imposed by the governing agency as specified in the encroachment permit.

I-D1-3. Safety

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work as required by Labor Code Section 6401.7. The Contractor shall take all necessary precautions for the safety of all Contractor employees on the Work and other persons who may be affected thereby.

The Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property to protect them from damage, injury, or loss. This shall include the Construction Safety Orders and rules of the Division of Industrial Safety, State of California, as contained in the California Administrative Code, Title 8, Chapter 4.

I-D1-4. Maintenance of Traffic

The Contractor shall comply with all local ordinances and regulations involving the maintenance of street traffic. The requirements that follow are intended to supplement those governing local ordinances and regulations. Where a conflict arises, the local ordinances and regulations shall prevail.

Contractor shall conduct Work to interfere as little as possible with public travel, whether vehicular or pedestrian. Contractor shall also be responsible for providing traffic control. Whenever it is necessary to cross, obstruct, or close roads, driveways, and walks, whether public or private, Contractor shall provide and maintain suitable and safe bridges, detours, or other temporary expedients for the accommodation of public and private travel, and shall give reasonable notice to owners of private drives before interfering with them. Such maintenance of

traffic will not be required when Contractor has obtained permission from owner and/or tenant of private property, or from the authority having jurisdiction over public property involved, to obstruct traffic at the designated point.

In making open cut street crossings, Contractor shall not block more than one-half of the street at a time. Whenever possible, Contractor shall widen the shoulder on the opposite side to facilitate traffic flow. Temporary surfacing shall be provided as necessary on shoulders. No street shall be closed to the public without first obtaining permission of proper governmental authorities and the District.

Toe boards shall be provided to retain excavated materials if required by the District Engineer or the public entity having jurisdiction over the street or highway. Fire hydrants on or adjacent to the Work shall be kept accessible to firefighting equipment at all times. Temporary provisions shall be made by the Contractor to ensure the use of sidewalks and the proper functioning of all gutters, sewer inlets, and other drainage facilities. Local governing agencies may require the submittal and approval of traffic detour plans prior to the commencement of Work.

I-D1-4.01. Temporary Bridges

Contractor shall construct substantial bridges at all points where it is necessary to maintain traffic across excavations for pipeline construction. Bridges in public streets, roads, and highways shall be acceptable to the authority having jurisdiction. Bridges erected in private roads and driveways shall be adequate for the service to which they will be subjected as determined by the Applicant's Engineer. Bridges shall be provided with substantial guardrails and with suitably protected approaches. Footbridges shall be not less than four (4) feet wide, provided with handrails and uprights of dressed lumber. Bridges shall be maintained in place as long as the conditions of the Work require their use for safety of the public, except that when necessary for the proper prosecution of the Work in the immediate vicinity of a bridge, the bridge may be relocated or temporarily removed for such period as District Engineer may permit.

I-D1-4.02. Detours

Where required by the authority having jurisdiction thereover that traffic be maintained over any construction work in a public street, road, or highway, and the traffic cannot be maintained on the alignment of the original roadbed or pavement, Contractor shall, at its own expense, construct and maintain a detour around the construction work. Each detour shall include all necessary barricades, guardrails, approaches, lights, signals, signs, and other devices and precautions necessary for protection of the Work and safety of the public.

I-D1-4.03. Barricades and Lights

All streets, roads, highways, and other public thoroughfares, which are closed to traffic, shall be protected by effective barricades on which shall be placed acceptable warning signs. Barricades shall be located at the nearest intersecting public highway or street on each side of the blocked section.

All open trenches and other excavations shall have suitable barricades, signs, and lights to provide adequate protection to the public. Obstructions such as material piles and equipment shall be provided with similar warning signs and lights.

All barricades and obstructions shall be illuminated with warning lights from sunset to sunrise. Material storage and conduct of the Work on or alongside public streets and highways shall cause the minimum obstruction and inconvenience to the traveling public.

All barricades, signs, lights, and other protective devices shall be installed and maintained in conformity with applicable statutory requirements.

I-D1-5. Care of Existing Property Structures and Utilities

Contractor shall protect, shore, brace, support, and maintain all underground pipes, conduits, drains, and other underground construction uncovered or otherwise affected by construction operations. All improvements including pavement, surfacing, driveways, curbs, walks, buildings, utility poles, guy wires, fences, and other surface structures affected by construction operations, together with all sod and shrubs in yards and parking areas, shall be restored to their original condition if damaged by construction activities, whether within or outside the public right-of-way or easement. All replacements shall be made with new materials.

No trees shall be removed outside of the permanent easement, except where authorized by the District Engineer. Whenever practicable, Contractor shall tunnel beneath trees in yards and parking areas when on or near the trench line. Hand excavation shall be employed as necessary to prevent injury to trees. Trees left standing shall be adequately protected against damage by construction operations.

Contractor shall be responsible for all damage to streets, roads, highways, shoulders, ditches, embankments, culverts, bridges, and other public or private property, regardless of location or character, which may be caused by transporting equipment, materials, or persons to or from the Work or any part of site thereof, whether by Contractor or subcontractors. Contractor shall make satisfactory and acceptable arrangements with the owner of, or the agency or authority having jurisdiction over, the damaged property concerning its repair or replacement or payment of costs incurred in connection with the damage.

All fire hydrants, meters, manholes and valves shall be kept free from obstruction and available for use at all times.

I-D1-5.01. Existing Utilities

The Improvement Plans for the Work shall show the underground utilities on the site of the construction insofar as they are known or can be inferred by the Applicant's Engineer. Horizontal and vertical separation between new and existing facilities shall conform to Section I-C5.

In accordance with California Government Code Section 4216.2, the Contractor shall contact all owners of underground facilities known to be in the area of construction and request marking of these facilities at least two (2) full working days in advance of work. The use of Underground Services Alert (USA) is required. USA's phone number is (800) 227-2600. If work is proposed within ten (10) feet of an underground facility that is potentially hazardous to workers or the public if damaged, the Contractor shall conduct an on-site meeting with a representative of the owner of the underground facilities to determine actions or activities required to verify the location of the facility prior to start of work. Underground facilities that are potentially hazardous include, but are not limited to, high pressure natural gas lines, petroleum pipelines, pressurized sewer pipelines, high-voltage electric supply lines, conductors or cables, or hazardous materials pipelines. The Contractor can obtain the underground facility owner's contact information from USA.

When potholing is required to identify and/or locate underground facilities, the Contractor shall replace the pothole area with two-sack slurry mix and allow for 48 hours of cure time prior to any excavation or boring.

If, in the performance of the Work, an existing utility is encountered which is not shown on the Improvement Plans and is not apparent or inferable from visual inspection of the site, the District shall be notified immediately. The District Engineer will determine whether the Improvement Plans shall be modified, the existing utility relocated or if the Contractor shall work around the existing utility.

I-D1-6. Security

The Contractor shall be responsible for the protection of the site and all Work, materials, equipment, and existing facilities thereon, against vandals and other unauthorized persons.

I-D1-7. Construction Water Supply

The Applicant shall obtain a construction meter from the District and provide an appropriate billing address for water use outside of buildings. No construction water will be allowed from an unmetered source. Unless specifically approved by the District Engineer, construction water supply shall be from the District's recycled water system.

Construction water for residential development projects shall be available in accordance with the fees and conditions in the District Code. Water meter jumpers may be installed in place of water meters for lots in single-family developments for a flat fee. The water meter jumper is to allow the Applicant's contractor to provide space for the water meter as the domestic water line to the home is installed. Water use is limited to:

1. Testing the structure's interior plumbing prior to the construction of walls.
2. Incidental earthwork on the property including presoak of foundation forms prior to concrete pour and finish grade work within the property.
3. House construction needs, such as painting, plaster work, and plumbing work.

No other water use is authorized with the use of the water meter jumper.

The Applicant shall request for a water meter to be installed and an account to be opened if the intended water use differs from above. The Applicant must provide an appropriate billing address. Water meters shall be set prior to activation of landscape irrigation systems and after connection of sewer lateral.

Water services may be shut down should any District personnel observe unauthorized use of water.

The Applicant and its Contractor are jointly and severally responsible for payment of water consumption for construction purposes within its project site, including, but not limited to, water for grading, pipeline flushing, and testing. The project shall not be accepted until such account is paid in full.

I-D1-8. Control of Site Conditions

Contractor shall be responsible for controlling all site conditions including noise, dust, drainage, erosion, and pollution.

I-D1-8.01. Noise

Contractor shall take reasonable measures to avoid unnecessary noise. Such measures shall be appropriate for the normal ambient sound levels in the area during working hours. All construction machinery and vehicles shall be equipped with practical sound muffling devices, and operated in a manner to cause the least noise consistent with efficient performance of the Work.

During construction activities on or adjacent to occupied buildings, and when appropriate, Contractor shall erect screens or barriers effective in reducing noise in the building and shall conduct construction operations to avoid unnecessary noise which might interfere with the activities of building occupants.

I-D1-8.02. Dust Control

Contractor shall take reasonable measures to prevent unnecessary dust. Earth surfaces subject to dusting shall be kept moist with water or by application of a chemical dust suppressant. Dusty materials in piles or in transit shall be covered whenever possible to prevent blowing.

Buildings or operating facilities, which may be affected adversely by dust, shall be adequately protected from dust. Suitable dust screens shall protect existing or new machinery, motors, instrument panels or similar equipment. Proper ventilation shall be included with dust screens.

I-D1-8.03. Drainage Maintenance

The Contractor shall provide and maintain temporary drainage of ground water from all excavations, drains, sewers, ditches, trenches, and structures in compliance with State Water Resources Control Board (SWRCB) Order No. 99-08 DWQ. The Contractor shall keep the excavations dry throughout the construction operations. The laying of pipe or the placing of concrete will not be allowed under circumstances where there is standing water in the excavation.

The Contractor shall dispose of the water from the Work in accordance with their NPDES Permitting issued under SWRCB Order No. 99-08 DWQ.

Contractor shall also provide for the drainage of storm water as may be applied or discharged on the site in performance of the Work. Drainage facilities shall be adequate to prevent damage to the Work, the site, and adjacent property.

I-D1-8.04. Erosion Control

Contractor shall prevent erosion of soil on the site and adjacent property resulting from construction activities. Effective measures, as required in their Storm Water Pollution Prevention Plan (SWPPP), shall be initiated prior to the commencement of clearing, grading, excavation or other operation that will disturb the natural protection. The protective measures shall be in accordance with Regional Water Quality Control Board, Alameda County or Contra Costa County best management practices.

Work shall be scheduled to expose areas subject to erosion for the shortest possible time, and natural vegetation preserved to the greatest extent practicable. Temporary storage and construction buildings shall be located, and construction traffic routed, to minimize erosion. Temporary fast growing vegetation, suitable ground cover, or other acceptable methods shall be implemented as necessary to control runoff.

I-D1-8.05. Pollution Control

Contractor shall prevent the pollution of drains and watercourses by sanitary wastes, sediment, debris, and other substances resulting from construction activities as outlined in their Storm Water Pollution Prevention Plan (SWPPP). No sanitary wastes will be permitted to enter any drain or watercourse other than sanitary sewers. No sediment, debris, or other substance will be permitted to enter sanitary sewers and reasonable measures will be taken to prevent such materials from entering any drain or watercourse.

I-D1-9. Clean Up

Contractor shall keep the premises free at all times from accumulations of waste materials and rubbish. Contractor shall provide adequate trash receptacles about the site, and shall promptly empty the containers when filled.

Construction materials, such as concrete forms and scaffolding, shall be neatly stacked by Contractor when not in use. Contractor shall promptly remove splattered concrete, asphalt, oil,

paint, corrosive liquids, and cleaning solutions from surfaces to prevent marring or other damage.

Volatile wastes shall be properly stored in covered metal containers and removed daily.

Wastes shall not be buried or burned on the site or disposed of into storm drains, sewers, streams, or waterways. All wastes shall be removed from the site and disposed of in a manner complying with local ordinances and antipollution laws.

I-D1-10. Coordination of Work with Street Development

Street development work such as grading and laying of base rock and asphalt shall be coordinated with water and sewer facilities installation such that the integrity of installed pipe and connecting joints is not adversely affected. Pressure testing of water and sewer mains shall be performed after road base rock has been installed and compacted. In the opinion of the Inspector, if any street development work following a passing test has adversely affected the water or sewer Work, then the Contractor shall be required to conduct additional pressure tests. If damage has occurred, then the Contractor will be responsible to repair the damage and pay the District for the cost of additional tests.

I-D1-11. Lines and Grades

All Work shall be done in accordance with the lines, grades, and elevations shown on the Improvement Plans.

Basic horizontal and vertical control points will be established or designated by Applicant's Engineer. These points shall be used as datum for the Work. As a part of the Work, the Applicant's Engineer or Contractor shall perform all additional survey, layout, and measurement work.

Applicant's Engineer or Contractor shall provide experienced instrument personnel, competent assistants, and such instruments, tools, stakes, and other materials required to complete the survey, layout, and measurement work. In addition, Applicant's Engineer or Contractor shall furnish, without charge, competent personnel and such tools, stakes, and other materials as may be required in establishing or designating control points, in establishing construction easement boundaries, or in checking survey, layout, and measurement of work performed by Contractor.

Contractor shall keep the Applicant's Engineer informed, a reasonable time in advance, of the times and places at which the Contractor wishes to do Work, so that horizontal and vertical control points may be established, and any checking deemed necessary by Applicant's Engineer may be done with minimum inconvenience to the Applicant's Engineer and minimum delay to the Contractor. Contractor must supply cut sheets to the District Inspector prior to commencement of any work.

Prior to extension of water and sewer services, fire hydrants, and other appurtenances to be located behind the curb, Contractor shall provide all construction staking necessary to adequately

locate the curb, gutter, fire hydrants, and water and sewer pipes, services, and appurtenances. Contractor shall remove and reconstruct Work that is improperly located.

I-D2. CLEARING AND GRUBBING

Clearing and grubbing, which consists of removal of objectionable material from the right-of-way, shall be done with caution such that existing improvements and trees and shrubbery that are not to be removed are protected from injury or damage.

Within easements or rights-of-way, trees, shrubs, fences, and all other improvements that have to be removed to permit construction, shall be replaced in kind and size (excluding native trees under two (2) inch diameter or native brush) or with approved substitutes, unless permission to exclude such replacement is obtained from the property owner.

I-D3. EXISTING PAVEMENT REMOVAL

Removal of existing pavement shall be done in a manner prescribed by the city or county having jurisdiction, or the governing state agency. In addition to the pavement removed for the trench, an additional six (6) inches on each side of the trench shall be removed prior to repaving. The pavement shall be cut on neat lines prior to excavation, parallel to the trench at the width required. Any pavement damaged outside these lines shall be restored at the Contractor's expense.

I-D4. EXCAVATION AND TRENCHING

I-D4-1. General

Trench excavation shall consist of all excavation involved in the grading and construction of the sewer or water line as shown on Improvement Plans. The Contractor shall perform all excavation of every description and of whatever substances encountered, to depths indicated on the Improvement Plans or as otherwise specified or required. Unless otherwise indicated, excavation shall be by open cut except that short sections of a trench may be tunneled if, in the opinion of the District, the pipe or duct can be safely and properly installed and backfill can be properly compacted in such tunnel sections.

If blasting is necessary, the Contractor shall notify the District and the City of the blasting schedule and procedures, and obtain a blasting permit. All reasonable precautions in protecting life and property shall be observed.

Trench excavation shall only be conducted after pipe and other necessary materials are delivered to the work site.

Holes and depressions for bells or couplings shall be excavated after the trench bottom has been graded and embedment material placed, and shall be only of such length, depth, and width as required for properly making the particular type of joint. Over excavations shall be backfilled with the same material as the bedding zone.

The trench bottom shall be of even grade such that it will provide uniform bearing and support for each section of pipe and shall be free of clods, rocks, and excess spoil material. Grades shall be transferred from ground surface to the bottom of the trench by experienced workers using not less than three (3) consecutive grade points in common so that variations from a straight grade can be readily detected.

I-D4-2. Trench Width

The width of unsheathed trenches shall not be greater than sixteen (16) inches plus the exterior diameter of the pipe barrel, nor less than six (6) inches plus the exterior pipe diameter. Where shoring is required, the width of trench shall be increased only sufficiently to accommodate the sheeting or shoring. Whenever the maximum allowable trench width is exceeded for any reason, the Contractor shall, at its expense, embed or cradle the pipe in concrete in a manner satisfactory to the District Engineer.

I-D4-3. Trench Depth

Unless specifically authorized by the District Engineer, trench depth shall always allow a four (4) foot minimum cover over all water mains and five (5) foot cover for sewer mains. For cases where minimum cover cannot be maintained, the Applicant's Engineer shall follow design requirements of Section I-C4.

I-D4-4. Maximum Length of Open Trench

Unless otherwise specified or directed by the District Engineer, the maximum length of open trench shall be one (1) block, four-hundred (400) feet, or the distance necessary to accommodate the amount of pipe installed in a single day, whichever is shorter. The distance is the collective length of any location, including open excavation, pipe laying and appurtenant construction and backfill, that has not been temporarily resurfaced. Failure by the Contractor to comply with the limitations specified herein may result in an order to halt progress of the Work until compliance has been achieved. No trenches shall remain open overnight unless covered by steel plates capable of sustaining expected wheel loads.

I-D4-5. Unsuitable Material on Bottom of Trench

Where, in the opinion of the District Engineer, the bottom of the excavation will not afford the pipe a firm and uniform bearing because of rock, hardpan, shale, or any other material which cannot be readily excavated, the Contractor shall excavate a minimum of six (6) inches below the bottom surface grade of the pipe, refill the trench with pipe embedment material specified herein in Section I-D6-1, and consolidate and reshape the trench bottom to the required section and grade.

Where the material at the bottom of the excavation is of soft or unstable material, or is otherwise considered unsuitable for the support of the pipe, the Contractor shall overexcavate to an additional depth as required by the District Engineer. Backfill to the required grade with 1-1/2

inch crushed drain rock wrapped in geotextile filter fabric per Caltrans Section 88, with twelve (12) inch overlaps, to afford the pipe a firm and uniform bearing. The Contractor shall consolidate and reshape trench to required section and grade.

I-D4-6. Overexcavation or Inaccurate Trimming

Wherever, due to overexcavation or inaccurate trimming caused by carelessness in operation of the Contractor's equipment or workers or other reasons, the shaping of the trench is inadequate to afford the pipe a firm and uniform bearing, the Contractor shall, at its own expense, refill the trench with backfill material, specified herein, and consolidate and reshape the trench bottom to the required section and grade.

I-D4-7. Shoring

The Contractor shall furnish, put in place, and maintain such sheeting or shoring, etc., both in open cut and tunneling, as may be required to support the sides of the excavation and prevent any movements which could in any way injure any structure.

All excavations shall be supported in the manner set forth in the rules, orders, and regulations prescribed by the Industrial Accident Commission of the State of California. All shoring of trenches shall comply with the Division of Industrial Safety (OSHA) standards.

The Contractor shall be responsible for any injury which may result to any person(s), structure(s), or to any interests whatsoever that is due directly or indirectly to the insufficiency of said sheeting or shoring, or to the replacing or removal of said sheeting or shoring.

I-D4-8. Control of Water

The Contractor shall remove all water that may accumulate in the excavation during the progress of the Work so that all Work can be done under dry conditions. Trenches or other excavations shall be kept free from water while the pipe or structures are installed, while concrete is setting, and until backfill has progressed to a sufficient height to anchor the Work against possible flotation or leakage. Water shall be disposed of in such a manner as to cause no injury to public or private property or to be a nuisance or menace to the public health and in accordance with any State of California Regional Water Quality Control Board ("RWQCB") permits.

I-D4-9. Excavated Material

Excavated materials shall be stored so as to offer minimum obstruction to traffic and the normal use of adjacent properties. Material suitable for backfilling shall be piled in an orderly manner a sufficient distance from the banks of the trench to avoid overloading and to prevent slides and cave-ins. Gutters shall be kept clear, or other provisions shall be made for handling drainage. Free access must be provided to all fire hydrants, water valves, meters, manholes, and private drives. Material shall be removed from the site when determined to be excess or unfit for use. The Contractor shall not dump material on any private or public property without the permission of the owner thereof.

I-D4-10. Excavation in Public Rights-of-Way

Excavation and trenching in the public streets and highways shall conform to the requirements of the agency having jurisdiction, e.g., Cities of Dublin and/or San Ramon or Counties of Alameda and/or Contra Costa.

I-D5. PIPE LAYING

Contractor shall properly assemble all pipe and provide an installation true to line and grade and free from leaks, cracks, and obstructions.

Each length of pipe shall be laid on compacted, approved bedding material as specified in I-D6-1 and shall have full bearing for its entire length between bell holes excavated in said bedding material to allow for unobstructed assembly of all joints. Adjustments of pipe to line and grade shall be made by scraping away or filling in and tamping approved material under the body of the pipe. No wedging or blocking with wood or soil to support the pipe will be permitted. Under no circumstances will Contractor be allowed to dump backfill materials on top of a pipe that is not continuously supported in its final grade position.

Each section of pipe and each fitting shall be thoroughly cleaned before it is installed. All pipe, fittings, valves, etc., shall be carefully lowered into the trench by suitable tools or equipment, in such manner as to prevent damage to the pipe, lining, coating, fitting, or other appurtenances. Damage to lining or coating shall be repaired to the satisfaction of the District Engineer before the pipe or fitting is installed or backfilled.

The pipe shall be laid true to line, with no visible change in alignment at any joint, unless curved alignment is shown on the Improvement Plans.

When curved alignment is shown on the Improvement Plans, the maximum deflection at any joint shall not exceed the manufacturer's recommendation for the type of pipe and point being used.

Pipe joints shall be made only with the couplings and rubber rings furnished with the pipe, and aligned and constructed in the trench in accordance with the manufacturer's instruction manual. "Stabbing," "Swinging In," or "Popping On" spigot ends of pipe into bell ends will not be permitted.

Pipe shall not be laid when the District Engineer or Inspector determines that the condition of the trench or weather is unsuitable. As Work progresses, the interior of the pipe shall be cleared of all dirt and extraneous materials.

At the close of each day's work, and at such other times when pipe is not being laid, the end of the pipe shall be protected with a close-fitting stopper. Whenever the Work ceases for any reason or when the pipe is constructed with end not joined to an existing pipe or structure, it shall be closed by a cap or plug, tightly sealed in place.

I-D6. PIPE EMBEDMENT

Pipe embedment material shall be free of organic material, recycled material, including recycled aggregate base, and other deleterious substances. Pipe embedment material shall be of such nature that it can be compacted to form a firm, stable base.

There shall be two (2) standard main pipe embedment classes: A and B as shown on Drawing G-1. Class A pipe embedment is characterized by use of arch encasement and imported aggregate, and shall be required under special circumstances of shallow cover and excessive loads. The required reach of Class A pipe embedment shall be indicated on the Improvement Plans. Class B pipe embedment shall be used for all plastic pipes, vitrified clay and ductile iron pipe, and is characterized by use of imported aggregate extending from three (3) inches below the bottom surface of the pipe to twelve (12) inches above the top surface of the pipe as shown in the Drawings. The remaining pipe embedment to twelve (12) inches above top surface of the pipe shall be select material from excavation. Select material shall be free of organic or other unsuitable materials and shall not include rocks, boulders, or unbroken masses of soil larger than four (4) inches in greatest dimension.

The concrete encasement section as shown in Drawing G-2 shall be used when pipe cover is three (3) feet or less, or when pipes are installed under a concrete slab, footing, or foundation.

These definitions shall apply to the entire length of the pipe including the barrel and bell. As the pipe surface varies at the bell section, the pipe embedment zone shall accordingly vary to maintain the above required pipe embedment material thickness surrounding the surface of the pipe.

I-D6-1. Class 2 Aggregate Base

Pipe embedment material shall be $\frac{3}{4}$ -inch maximum aggregate and shall conform to the grading and quality requirements of Class 2 aggregate base as specified in Section 26 of the State of California Department of Transportation ("DOT") Standard Specifications, latest edition shown in the following tables, except that no recycled material is allowed.

Table 1. Aggregate Grading Requirements For 3/4-inch, Class 2 Aggregate

Sieve Sizes	Percentage Passing	
	Individual Test Results	Moving Average
2 inch	--	--
1-1/2 inch	--	--
1 inch	100	100
$\frac{3}{4}$ inch	87-100	90-100
No. 4	30-65	35-60
No. 30	5-35	10-30
No. 200	0-12	2-9

Table 2. Quality Requirements For 3/4-inch, Class 2 Aggregate

Tests	Individual Test Results	Moving Average
Resistance (R value)	78 min.	--
Sand equivalent	22 min.	25 min.
Durability index	35 min.	--

Evaluation of test results, with moving averages specified, shall conform to the applicable provisions of "Statistical Testing" of DOT Standard Specifications, latest edition.

Coarse aggregate (material retained on the No. 4 sieve) shall consist of material of which at least 25 percent by weight shall be crushed particles as determined by California Test 205.

The aggregate shall not be treated with lime, cement, or other chemical material before the durability index is performed.

I-D6-2. Class 1 Embedment

Pipe embedment material for service lines shall be Class 1 embedment. Class 1 embedment shall be clean, sound and durable natural or crushed sand, with sand equivalent value of no less than 30 per California Test 217. When tested in accordance with ASTM C136, Class 1 embedment shall conform to the grading requirements in Table 3 below.

Table 3. Grading Requirements Class 1 Backfill

Sieve Sizes	Percentage Passing
3/4 inch	100
No. 4	70-100
No. 8	30-100
No. 200	0-5

Measured resistivity of material passing the No. 4 sieve, using a soil resistivity box in accordance with ASTM G57, shall not be less than 3000 ohm-cm.

Soil pH shall not be less than 6.5, as measured in accordance with ASTM G51.

I-D6-3. Controlled Density Fill

At the discretion of the District Engineer, controlled density fill ("CDF") may be substituted for Class 2 aggregate base above the invert of the pipe. The controlled density fill shall conform to the following:

CDF shall be manufactured in accordance with the following reference standards. It shall be a hand-excavatable mixture of aggregate, cement, Pozzolan, water and admixtures to be used as fill material where indicated in this Specification and on the Improvement Plans.

CDF material shall have the following properties:

1. Cement shall be Type II in accordance with ASTM C150.
2. Pozzolan shall be Type F in accordance with ASTM C618.
3. Coarse aggregate shall consist of a well-graded mixture of crushed rock, soil, or sand with a maximum size aggregate of three-eighths (3/8) inch. One hundred (100) percent shall pass the half (½) inch sieve. Not more than thirty (30) percent shall be retained by the three-eighths (3/8) inch sieve and not more than twelve (12) percent shall pass the No. 200 sieve. All material shall be free from organic matter and not contain more alkali, sulfates, or salts than the native soils at the site of the Work.
4. Air entraining shall be used to improve the workability of the mixture in accordance with ASTM C260. Entrained air content shall be between eight (8) and twenty (20) percent.
5. A water reducing agent shall be added to improve the workability and shall be in accordance with ASTM C494.
6. Water shall be potable, clean and free from objectionable quantities of silty organic matter, alkali, salts, and other impurities.
7. CDF shall be flowable material similar in all respects to Pozzolanic International Flowable Compacting Fill by RMC Lonestar, or equal. The 28-day compressive strength shall be between fifty (50) and one hundred fifty (150) psi.

I-D6-4. Placement and Compaction

Before placement of embedment material, the trench shall be cleared of all timber and debris, leveled and checked for specified cut. Bottom embedment material shall be placed in the trench to the full width of excavation, leveled and compacted to the specified compaction. After the pipe has been properly laid and inspected to the satisfaction of the District, embedment material shall be hand shoveled and uniformly distributed on both sides of the pipe. Sufficient material shall be hand shoveled to securely anchor the pipe so that no change in alignment or grade will occur when the next section of pipe is installed. Embedment material shall not be dropped directly upon the pipe.

With the exception of jetting or flooding, which shall not be allowed unless specifically approved by the District Engineer, the Contractor shall choose the compaction device to obtain a relative compaction of ninety (90) percent in the pipe zone as defined by AASHTO Test No. T180 (Standard Proctor). All compaction testing within the pipe zone shall be performed by a District approved, certified soils inspector. The compaction device may either be manually, mechanically, or pneumatically driven; however, the compaction device used shall in no manner cause displacement, instability or damage to the pipe. In such an event, the Contractor shall be responsible for all necessary repairs.

Except for directly above the pipe, compaction lifts shall be limited to six (6) inches within the pipe zone. For embedment material placed directly above the pipe, the compaction lift shall be of sufficient depth to achieve required compaction and protect the pipe. All compaction layers shall be compacted as required before the next layer is deposited.

The Inspector shall examine the embedment material to assure that it has been uniformly compacted throughout the entire pipe zone and that no voids exist. A minimum of one compaction test per five hundred (500) feet of pipeline shall be performed at Contractor's expense by an independent testing laboratory. If there is any indication that the required compaction has not been achieved the trench shall be recompacted and retested. The Applicant or Contractor shall pay for recompaction and retesting.

During the process of backfilling embedment material, any timbering, sheeting, shoring, and sheet piling used to shore the excavation shall be carefully removed by the Contractor in such a manner as will result in a minimum of caving, lateral movement, or flowing of the soil. On approval of the District Engineer, the Contractor may leave in place sheet piling, sheeting, and bracing.

I-D7. BACKFILL AND COMPACTION

I-D7-1. Public Streets and Highways

Where trench backfill and compaction above the pipe embedment zone is performed in public streets and highways, the Contractor shall comply with all requirements of the governing city or agency. The pipe embedment zone to one (1) foot over the top of the pipe is under the jurisdiction of the District.

I-D7-2. Unimproved Rights-of-Way

Trench backfill above the pipe embedment zone shall be select material from the excavation approved by the District Engineer. Select material shall be free of organic or other unsuitable materials and shall not include rocks, boulders, or unbroken masses of soil larger than four (4) inches in greatest dimension.

Trench backfill shall be compacted to ninety (90) percent relative compaction using AASHTO Test No. T180 (Standard Proctor). If for any reason this degree of compaction cannot be achieved, then imported backfill material meeting the above requirements shall be used. All costs of providing and placing the imported material shall be the responsibility of the Applicant or Contractor.

I-D8. BORING AND JACKING OPERATIONS

Placement of pipe by boring or jacking methods requires special District approval for each instance. However, as a general guideline, the following shall pertain:

1. Except for the use of air or water, the methods and equipment used in boring and jacking operations shall be at the option of the Contractor, provided that the District reviews them prior to any work.
2. The placement of pipe shall be to the lines and grades shown on the Improvement Plans.
3. Voids remaining outside the pipe (or carrier pipe if applicable) shall be backfilled with grout.
4. Where a casing pipe is used, it shall be no less than eight (8) inches greater in diameter than the sewer pipe or water pipe to be installed.
5. The placement of pipe in casings shall be supported with redwood skids, shims, or wedges to the lines and grades shown on the Improvement Plans. Skids shall be notched so strapping will not scrape off interior coating.
6. Pipe installed in casings shall have restrained joints. See water system requirements for acceptable joint types. Pipe shall be pulled through casings unless otherwise approved by the District Engineer.

I-D8-1. Bores

The boring machine shall cut a true circular bore to the required line and grade. The bored tunnel shall be no more than two (2) inches larger in diameter than the maximum outside diameter of the casing or pipe to be installed.

I-D8-2. Jacked Steel Crossings

1. In addition to applicable portions above, the following shall pertain:
2. Where casings are used, the size and wall thickness of the casing shall be at the Contractor's option, except that the minimum casing thickness shall be not less than three-eighths (3/8) inch.
3. Field joints of steel casings shall be welded with a continuous circumferential weld.
4. The placement of pipe in casings shall be supported with redwood skids, shims, or wedges to the lines and grades shown on the Improvement Plans.
5. Prior to backfilling the annular space between the pipe and casing, the pipeline shall be tested in accordance with Section II-B3, III-B4 or IV-B3 Testing.
6. The annular space shall be backfilled with washed concrete sand blown or rammed into place until the entire cavity is filled. Concrete bulkheads shall be placed at each end of the cased section to retain the backfill material.

I-D9. RESURFACING AND RESTORATION

I-D9-1. General

Where an unimproved surface is encountered, the trench shall be restored to its original surface, unless otherwise indicated on the Improvement Plans.

If the Work has disturbed or damaged existing private streets, alleys, driveways, or other improved surfaces, the damaged portions shall be removed and restored, including the provision of adequate subgrade where these operations have disturbed the original materials.

Any temporary paving, barricades, or special provisions required by public agencies shall be furnished by the Contractor as required.

I-D9-2. City or Other Governing Agency Requirements

If the Work is within existing city or county streets or other public roadways, any required resurfacing shall be in accordance with the city, county or other governing agency requirements.

If the Work shall occur in streets where no paving exists, the Contractor shall, in accordance with city and other governing agency requirements, leave the completed trenches in a suitably compacted condition for future finish grading, placement of base material, and paving.

I-D9-3. District Requirements

The requirements in this section shall apply if, and only if, there are no city or other governing agency requirements.

Aggregate base, paving materials, and methods of placement shall be in accordance with the most recent edition of State of California Department of Transportation Standard Specifications. Where a gravel surface is encountered, it shall be replaced over the width of the trench with Class 2 aggregate base eighteen (18) inches in depth if within eight (8) feet from the edge of a paved road. If greater than eight (8) feet from the edge of a paved road, the surface shall be restored with six (6) inches of Class 2 aggregate base.

Where existing surface is some type of asphalt concrete, it shall be restored with a temporary surface followed by a permanent surface as specified herein.

I-D9-3.01. Temporary Paving

Temporary surfacing shall be Class 2 aggregate base, equal in depth to the existing pavement structural section but in any case, not less than eighteen (18) inches in depth, plus one and one half (1-1/2) inches of premixed asphaltic paving material.

In areas used by public traffic, the temporary paving must be placed at the end of each workday. All other areas shall be surfaced within two (2) days after backfilling.

Before street is opened for traffic, all excess dirt, rock, and debris shall be removed and the street surface shall be swept clean. Temporary surfacing shall be maintained constantly so that at no time will there be any mud holes, nor shall the surface settle below one (1) inch, nor be raised more than one (1) inch from the existing pavement.

I-D9-3.02. Permanent Paving

Permanent paving shall not be constructed until the compaction requirements of these Standards are satisfied.

The existing pavement shall be neatly cut to a depth of two (2) inches and removed to at least six (6) inches outside each edge of the pipe trench to permit proper keying in the restored pavement. The existing pavement cut shall be straight, vertical, and with no ragged edges.

The base course for permanent surfacing shall be Class 2 aggregate base as specified in the above State of California Department of Transportation (“DOT”) Standard Specifications. The aggregate base shall be equal to the existing pavement structural section less three (3) inches but in any case, not less than sixteen (16) inches in depth.

The aggregate base shall be given a penetration treatment as specified in Section 37 of the State of California DOT Standard Specifications. Liquid asphalt used for the treatment shall be grade SC-70. The rate of application of the liquid asphalt shall be the maximum that will, under favorable weather conditions, be completely absorbed by the base material within twenty-four (24) hours from the time of application. A sufficient amount of liquid asphalt shall be applied to bind the aggregate base and prevent raveling. Care shall be taken so that liquid asphalt is applied to the adjoining pavement surface.

The wearing surface for permanent surfacing shall be asphalt concrete. The depth of the asphalt concrete shall be as required by the local agency having jurisdiction or match existing, with a minimum depth of three (3) inches. The asphalt concrete shall be “Type B-Asphalt Concrete” conforming to the requirements of Section 39 of the State of California DOT Standard Specifications.

I-D10. CONCRETE AND MORTAR WORK

I-D10-1. Concrete

I-D10-1.01. Material

Concrete used for thrust blocks, manholes, encasements, filling, blocking, piers, and other typical construction applications shall be transit-mixed concrete from a supervised batch plant which issues a certified delivery ticket with each load, showing the mix proportions, mixing time, true departure time and water added. Such certified tickets will be handed to the Inspector at the time of delivery. Ready-mixed concrete shall be batched and handled in accordance with ASTM C94. Job-mixed concrete shall be limited to that needed for patching and minor nonstructural uses requiring one sack of cement or less. In these cases, the materials and workmanship shall be the same as if transit-mixed concrete had been used.

Approved concrete material shall be Portland Cement concrete as specified in Section 90 of the DOT Standard Specifications and shall be chosen according to the following chart showing its intended use:

Class	Application	Min. Weight of Portland Cement, lbs/cy	Maximum Aggregate Size, Inches	Slump Inches	
				Min	Max
A	Walls, drop structures, slabs, and reinforced structural encasement	564 (6 sack)	1-1/2"	3"	6"
B	Manhole bottoms, thrust blocks, drop pipe encasement, pipe bedding, nonstructural use	470 (5 sack)	1-1/2"	2"	6"
C	Pump mix for abandoning lines	376 (4 sack)	3/8"	--	--

Type V cement shall be used for concrete material used in any structure subject to sulfide deterioration.

The 28-day compressive design strength of concrete shall be chosen according to its intended use as outlined above.

I-D10-1.02. Placement

Concrete shall be placed in clean forms before its initial set begins, using the minimum amount of mixing water required for good workability. Concrete shall be worked into forms by rodding or vibrating to secure a dense homogeneous mass, free from voids and rock pockets. All concrete shall be vibrated unless the Inspector approves solely rodding to avoid having the concrete run out of the forms or trench.

I-D10-1.03. Finish

Concrete surfaces to be in contact with sewage shall be steel trowelled to a smooth hard surface, free from ridges, holes, and surface roughness. Exposed walls shall be left with a surface finish comparable to that obtained with new plywood forms. Slabs and walkways shall be finished with a wood float unless otherwise specified on the Improvement Plans. Corners and edges shall be neatly beveled. Surface defects shall be repaired to match the surrounding concrete.

I-D10-1.04. Accelerated Curing

Calcium chloride not in excess of two (2) percent volume will be permitted when, in the District Engineer's opinion, circumstances warrant its use.

I-D10-2. Mortar

Mortar shall consist of commercial grade non-shrink grout.

I-D11. REINFORCING STEEL

Bar reinforcement shall be Grade 40 minimum deformed bars conforming to ASTM A615, accurately placed and secured in position to accomplish the intent of the design plans. Where bars are spliced they shall be lapped at least twenty (20) diameters or butt welded, except where otherwise shown on the Improvement Plans.

Mesh reinforcement shall conform to the requirements of ASTM A185; wire gauge and mesh dimensions will be as shown on the Improvement Plans.

I-D12. ABANDONMENT

In absence of more stringent encroachment permit requirements administered by the local governing agency; all water and sewer main abandonment's shall be in accordance with the below requirements, and these specifications.

Pipe mains greater than six (6) inches and indicated on the Improvement Plans to be abandoned shall be filled with a sand or sand and cement slurry mixture.

Sewer mains of all sizes to be abandoned shall be capped at each end. Sewer mains constructed of PVC or ductile pipe shall be abandoned in accordance with abandonment of water mains below. Existing sewer service lines that are attached to an active sewer main shall be abandoned by excavating the service connection at the main and disconnecting the service pipe at the main. The sewer main shall be capped or plugged with like material at the wye or tee connection.

Water mains of all sizes indicated on the Improvement Plans to be abandoned shall be cut and capped, or plugged, at each end as indicated on the drawings. Existing water service lines that are attached to an active water main shall be abandoned by excavating the service connection at the main; removing the corporation stop and disconnecting the service pipe at the main; and inserting a plug at the saddle. Water main valves shall not be abandoned in place. All water main valves indicated on the Improvement Plans to be abandoned shall be physically removed from service, and replaced with a blind flange, cap or plug as indicated on the plans.

Manholes, valve boxes, and other underground appurtenances to be abandoned shall be removed to at least three (3) feet below finished grade. All remaining cavities shall be filled with sand to the cut elevation and the excavation backfilled and restored to finish grade as required.

I-D13. LOCATION MARKINGS

All water service assemblies, valves, blowoffs, side sewers, and manhole locations shall be clearly indicated on the street curb at the time of the street curb installation as per the legends in

Drawing G-4. Size of lettering shall be at least two (2) inches high. If there is no curb marker, posts per Drawing G-4 shall be constructed.

SECTION III

SEWER SYSTEM REQUIREMENTS

SECTION III

SEWER SYSTEM REQUIREMENTS

SECTION III-A - DESIGN CRITERIA

III-A1. SEWER MAIN SIZING

Sewer mains shall be sized using Manning's Formula and the following input criteria as variable parameters in Manning's Formula.

1. Design sewage flow.
2. Manning's "n" value of 0.013.
3. Minimum and maximum velocity.
4. Minimum slope.

In addition, the minimum diameter for all sewer mains shall be eight (8) inches. Also, if a sewer main within an easement is over fifteen (15) feet deep, the District may require oversizing to facilitate future slip lining.

III-A1-1. Design Sewage Flow

Sewer mains shall be sized to provide sufficient capacity to accommodate future tributary flows in addition to the sewage flow from the project development. The Developer's Engineer shall consult with the District Engineer to become familiar with all master plan studies for determining future tributary sewage flows. The design sewage flow from the project development shall equal the total peak dry weather flow plus infiltration/inflow.

Peak dry weather flow shall be determined by multiplying the total average dry weather flow by a peaking factor. The peaking factor shall be obtained from the graph of peaking factor versus total average dry weather flow presented in Drawing S-1 of these Standards.

Average dry weather flow for residential projects shall be determined from the planned number of dwelling units and the following unit usage criteria.

- Single family dwelling - 256 gpd/unit (80 gpcd with 3.2 persons/unit).
Multi-family dwelling - 160 gpd/unit (80 gpcd with 2.0 persons/unit).

Average dry weather flow for commercial projects shall be determined from the net acreage of the commercial development and the unit usage criteria of 2,500 gal/net acre/day. Average dry weather flow for industrial projects shall be evaluated on a case-by-case basis.

Infiltration/inflow in new areas only shall be determined from the gross acreage and the unit criteria of 600 gpd/gross acre.

For analysis of available capacity in existing sewer mains, the Developer's Engineer shall consult with the District Engineer and shall refer to all applicable master plan studies.

III-A1-2. Minimum and Maximum Velocity

Sewer mains shall be sized to provide a minimum velocity of two (2) feet per second when the sewer main is flowing half full.

The maximum velocity for sewer mains shall normally be eight (8) to ten (10) feet per second.

III-A1-3. Minimum Slope and Slope Changes

Minimum slope requirements are necessary to assure self-cleaning and self-oxidizing velocities to avoid significant generation of hazardous, odorous, and corrosive sulfur compounds. Where possible, use of the minimum slopes should be avoided and should not be construed as guidelines for system design. However, the District will accept the standard minimum slope. Standard minimum slopes used for sizing sewer mains shall be as follows:

Pipe Size (in.)	Standard Minimum Slope (foot per foot)
6	0.0049
8	0.0033
10	0.0025
12	0.0019
15	0.0014
18	0.0011
21	0.0009

If grades below the standard minimum must be used in order to avoid pumping, the Developer's Engineer shall consult with the District Engineer before proceeding with design. Grades below the standard minimum may be used only upon specific approval requested well in advance of completion of design.

To minimize the turbulence in manholes, the slope of any incoming sewer main shall not exceed the slope of the outgoing sewer main by more than ten (10) percent.

III-A2. LOCATION OF MAIN

III-A2-1. Location of Main in Streets

Wherever the physical limitations of the street and other utilities permit, the sewer main shall be located on the center line of the street.

III-A2-2. Building and Other Above-ground Structure Set Back from Mains

To minimize hazards to buildings and other above-ground structures when mains are repaired,

foundations or footings of buildings and other above-ground structures shall be set back a minimum of seven and one half (7.5) feet from the exterior wall of the sewer main.

The installation of mains less than seven and one half (7.5) feet from the building or above-ground structure shall be subject to the approval of the District Engineer. In such cases, polyethylene wrapped DIP shall be used. No service connection to the sewer main is allowed within five (5) feet of the building or structure foundation.

III-A2-3. Location of Main in Easements

Sewer mains shall generally be placed in the center of easements and only in unusual circumstances shall a sewer main be approved which is closer than five (5) feet from the easement edge. Unless specifically otherwise approved, sewer mains in easements shall be straight without horizontal bends or deflections.

III-A3. MINIMUM COVER

Minimum cover of all sewer mains shall be five (5) feet.

III-A4. HORIZONTAL AND VERTICAL CURVES

All sewer mains shall have straight alignment in both the horizontal and vertical plane between manholes. Horizontal curves shall be allowed only under special circumstances and by approval of the District Engineer. An installation shall be considered a special circumstance if there is a curved street section and deviation of the sewer main from the street center line presents problems with respect to maintaining required clearances from water mains and other utilities. If pipe curvature is allowed, then the recommended radius of curvature shall be four hundred (400) feet and under no circumstances shall be less than two hundred and fifty (250) feet.

III-A5. MANHOLES

III-A5-1. Distance between Manholes

The maximum distance between manholes from center line to center line shall be no greater than three hundred and fifty (350) feet for sewer mains equal in diameter to twenty four (24) inches or less. For sewer mains greater than twenty four (24) inches, the maximum distance between manholes shall be no greater than four hundred (400) feet.

III-A5-2. Location of Manholes

Unless otherwise approved, all manholes will be accessible to standard maintenance vehicles. Manholes placed in back or side yards will not be approved. Every reasonable effort shall be made to provide a paved or gravel roadway to manholes in open space areas.

Manholes shall be located at:

1. All abrupt grade changes.

2. All changes in horizontal alignment (except on curves).
3. All changes in pipe size.
4. The start of all sewer mains exceeding one hundred (100) feet in length from the next downstream manhole. In addition, manholes will be required in cul-de-sacs that have three (3) or more fronting lots. In cul-de-sacs, manholes shall be located no less than fifteen (15) feet from the curb line. No more than three (3) sewer laterals shall connect into any one manhole. The manhole shall be located such that the angle in the horizontal plane between the downstream and any one lateral sewer is not less than ninety degrees (90°).
5. All sewer main junctions.
6. The point of tangency of each reverse curve. (No reverse curves will be allowed between manholes, except where the District determines that the nature of the reverse curve is not significant or detrimental to the system.)
7. At the connection of a six (6) inch or larger service lateral connected to an equal or larger diameter sewer main.
8. All mains shall end in a manhole. This requirement also includes dead end mains
9. All changes in pipe materials.

In general, manholes shall not be located in the street where rainfall runoff is directed to the manhole. If this is unavoidable, then pressure (watertight) frames and covers shall be installed.

III-A5-3. Slope of Manhole Channels

When sewers of uniform size and slope pass through a manhole, the slope shall be maintained and the invert at the center of the manhole shall be given. In sewers that change slope, the slope of the incoming sewer(s) shall be carried through to the outlet and the invert elevations at the inlet(s) and the outlet shall be given. Where diameters of sewer pipes change, the elevations of the top of the incoming and outlet pipes shall match.

When the incoming sewer makes an angle of 45 to 90 degrees with the outlet sewer, add 0.10 feet to the calculated manhole elevation drop. When the angle is 15 to 45 degrees, add 0.05 to the calculated value.

III-A5-4. Drop Manholes

While not encouraged, drop manholes may be required because of some physical constraints; they should not, however, be used to merely avoid extra depth in trench unless unusual circumstances exist. All proposed drop manholes must be approved by the District Engineer. Where approved, the drop shall not exceed ten (10) feet and shall be constructed in accordance with Drawing S-3. Whenever possible, upstream slope changes should be used to avoid the need for a drop manhole.

III-A5-5. Manholes in Undeveloped Areas

Manholes in undeveloped areas shall require special protection as required in sewer materials of construction Section III-B1 and as shown on Drawing S-6.

III-A5-6. Rim Elevations of Manholes

Top elevations for all manholes shall be shown on the profile. In paved areas, the manhole rim elevation shall match the finished grades. In other than paved areas or traveled way, the height of the manhole rim will normally be eighteen (18) inches above the finished grade, high water mark, or above the top of future fill areas. The elevations shown for the tops of manholes on the Improvement Plans shall not relieve the contractor from making final adjustments to match street surfaces.

III-A5-7. Design and Size

Standard manholes shall be concentric and in accordance with Drawing S-2. Normally, manholes will be four (4) foot diameter; five (5) foot diameter manholes are required for lines eighteen (18) inches and larger or where the depth to pipe invert exceeds ten (10) feet. Where the depth exceeds eighteen (18) feet or diameter exceeds eighteen (18) inches, the cover (lid) shall be thirty (30) inches for safety reasons. A shallow manhole in conformity with Drawing S-4 may be used upon approval of the District Engineer when a sewer main or lateral is less than minimum cover.

III-A5-8. Sampling Manholes

A sampling manhole shall be required on all nonresidential building service laterals. It shall be in a location accessible to District personnel at all times and within the private properties of developers, as directed by the District Engineer. It may be considered as a cleanout in lieu of a separate cleanout. Sampling manholes shall be constructed as shown on Drawing S-11.

Metering manholes, when required by the District for nonresidential building service laterals, shall also be constructed as standard manholes conforming to Drawing S-2 except: 1) they shall be on a straight run of pipe through the manhole with no angles or branches; 2) the slope through the manhole shall be a maximum of two (2) percent; and 3) pipe slope shall be held constant for fifteen (15) feet upstream of the manhole and through the manhole. For laterals four (4) inch to six (6) inch, a minimum of ten (10) feet of the pipe upstream of sampling manhole shall be a straight run. For laterals larger than six (6) inches, a minimum of fifteen (15) feet of the pipe upstream of the sampling manhole shall be a straight run. The downstream portion of the pipe shall have a two (2) foot minimum straight run.

III-A5-9. Sewer Pipe Stubs

Stubs shall be designed and installed in all manholes, from which future sewer line extensions are anticipated. Pipe stubs shall be a minimum of eight (8) inches in size, or as directed by the District Engineer, and shall be of an approved type of pipe. Stubs shall protrude one (1) foot outside of the manhole base and shall be plugged with a standard watertight plug or cap.

III-A6. DEAD END MAINS AND CLEANOUTS

All dead end mains shall terminate at a manhole. Rodding inlets are not allowed.

Cleanouts shall be provided in side sewer systems under the following cases.

1. At the point of connection to the house piping of single family residences.
2. At the property or easement line on side sewers serving commercial, industrial, and multi-family complexes.
3. At any single turn greater than forty-five degrees (45°).
4. At intervals along the side sewer system where the accumulative total of deflections from the point of connection to the main or from another cleanout exceeds one hundred thirty-five degrees (135°).
5. At intervals not to exceed one hundred (100) feet along the side sewer system.
6. Wherever a side sewer changes in size.

The cleanout shall be equal in size to the side sewer and shall be installed as per Drawings S-8 or S-10 of these Standards.

III-A7. SIDE SEWERS

Each house and building shall have an independent side sewer shown on the Improvement Plans except for buildings located on a lot under one ownership. Under this exception, one side sewer may be shown, provided that the property cannot be subdivided, and upon approval of the District Engineer. Side sewers shall be installed in general conformity with Drawing S-8 of these Standards.

In tight areas, such as condominiums, the laterals may be installed with a vertical drop into the top of the side sewer (chimneyed) with the approval of the District Engineer. Long radius ninety (90) degree elbows shall be used.

III-A7-1. Size

Side sewers for single-family dwellings shall normally be four (4) inch minimum diameter unless the Uniform Plumbing Code requires a larger size. Side sewers less than a 4" diameter require approval of the District Engineer. Townhouses shall normally be required to have separate four (4) inch minimum diameter laterals, rather than one six (6) inch minimum diameter lateral per building. All other laterals for apartments, multi-level condos, commercial, institutional, or industrial users shall be sized as required by the Uniform Plumbing Code.

III-A7-2. Depth and Grade

Side sewers from the main sewer to the house or building line shall be constructed at a two (2) percent grade unless otherwise approved by the District Engineer. In addition, the depth five (5) feet from face of curb in the direction toward the house or building shall normally be five (5) feet minimum from top of pipe to ground surface.

Invert elevations for all side sewers shall be indicated on the Improvement Plans. As a minimum, the side sewer invert elevations at its upstream end and at the point five (5) feet from the face of the curb in the direction of the house or building shall be indicated.

All side sewers that cross above a water main or below within one (1) foot of a water main shall be subject to the State of California, Department of Health Services, Criteria for the Separation of Water Mains and Non-Potable Pipelines.

III-A7-3. Location

Location of lateral sewers in public road rights-of-way shall be in relation to the nearest corner of the property being served. Unless otherwise determined by physical controls, the lateral shall be located ten (10) feet from the lower property corner at the right-of-way line of hillside lots (3 percent + slope) and on the lot center line in relatively level terrain.

III-A7-4. Connection Angle and Maximum Deflection

All sewer laterals, from property line or edge of easement to the point of connection with the main line or a manhole, shall have an alignment that provides an angle of intersection with the downstream section of main sewer of no less than ninety degrees (90°). No lateral alignments adverse to the flow of the main will be permitted.

The maximum deflection at any one point in a side sewer, not including fittings at saddle or wye connection to main sewer or at angle points having cleanouts, shall be twenty-two and one-half degrees (22-1/2°) (1/8 bend) and any two (2) consecutive deflections (bends) shall not be less than two (2) feet apart.

III-A7-5. Overflow Protection

A sewer overflow protection device shall be installed on all sewer laterals. See Drawing S-8 for details regarding installation. Installation location shall be two (2) feet from the building foundation.

III-A7-6. Use of Existing Sewer

If Applicant proposes to connect to an existing sewer facility that is not in operation or has been abandoned, Applicant shall rehabilitate existing sewer facility such that it meets all requirements for new sewer construction.

Existing side sewers may be used for servicing new homes or buildings on a lot under single ownership only when the existing side sewers are found on examination and testing required by the District to meet all requirements for new sewer construction.

III-A7-7. Pipe Material

Side sewers for residential and general commercial service shall be VCP, PVC, ABS pipe, or HDPE. Cast iron pipe shall not be used.

Side sewers for industrial establishments shall be VCP or DIP. PVC may be allowed, but only by specific approval of the District Engineer. Use of cast iron pipe shall not be allowed for industrial establishments.

III-A8. PUMPING STATIONS

Pumping stations are not normally allowed. They may be considered under extraordinary circumstances, but only by specific approval of the District Engineer during the preliminary design stages.

III-A9. SPECIAL DESIGN CONSIDERATIONS

Depending on the angle of deflection, high or low points in a sewer main system may require the installation of air/vacuum relief valves or blowoffs, respectively. In the case of a low point (i.e., inverted siphon), additional manholes for access and cleaning may also be required. The District Engineer on a case-by-case basis will evaluate the need for such special and additional sewer appurtenances.

III-A10. GREASE AND SAND TRAPS, GREASE INTERCEPTORS

All building connections through which: (1) liquid wastes containing grease in excessive amounts; (2) sand; or (3) other harmful ingredients may be introduced into the District sewer system shall have a grease and sand trap or grease interceptor and sampling box installed as specified below and in accordance with Drawings S-12, S-12A, S-13, S-14 and S-15.

Restaurants: All restaurants and other establishments with common food preparation facilities shall have a grease interceptor on their side sewer, outside of building and easily accessible for cleaning and inspection, as appropriately sized and approved by the District Engineer.

The size of seven hundred fifty (750) gallons or ninety-six (96) cubic feet capacity is the minimum for a grease interceptor.

Volume of grease accumulation shall determine the size of the storage tank required as follows:

Type of Restaurant	Average Grease Accumulation/Month
A. High volume - full menu Open 12-24 hrs./day Over 500 meals/day	40 cu. ft.
B. Medium volume – full menu Open 8-16 hrs./day 100-400 meals/day	20-30 cu. ft.
C. Fast food, take-out, or pizza parlor	5-10 cu. ft.

Sizes required for a particular application are as follows:

Tank Size, gals.	Capacity, cu. ft.	Max Accumulation of Grease before Cleaning, cu. ft.
750	96	30
1,000	128	40
1,200	160	50
1,500	200	60
1,600	220	70
2,000	256	80
2,500	328	90
3,000	400	100
3,500	456	120

Other Commercial Business: If a vehicle wash-down area is provided, it shall be roofed and have a grease and sand trap per Drawing S-12 shall be installed. If a trash enclosure area within a commercial development is required to be connected to the sanitary sewer, the trash enclosure area shall have a roof and shall have a grease and sand trap per Drawing S-12A. Grading in the trash receptacle area shall be such that only run-off from within the receptacle area enters into the sewer for that area

Residential Apartment and Condominium Complexes: All apartment and condominium complexes shall have a roof over the trash receptacle area and shall have a grease and sand trap per Drawing S-12A serving run-off from the trash receptacle area.

All drains carrying harmful ingredients described herein shall be connected to the grease and sand trap or grease interceptor. All restroom facilities of such establishments shall be plumbed separately and connected to the building side sewer downstream of the trap or interceptor.

Grease interceptors shall be installed in such a manner that access for annual inspections shall be readily obtainable.

A sampling box shall be installed immediately downstream of the grease interceptor as shown in Drawing S-15.

III-A11. Mercury Amalgam Separators

Dental practices that generate amalgam wastes shall install an amalgam separator on the effluent line of the vacuum system(s) serving the facility prior to discharge to the sanitary sewer system.

The amalgam separator shall meet the ISO 11143 standards that are effective at the time of installation.

Dental practices may be exempt from this requirement providing the District receives written assurance that removal or placement of amalgam fillings occurs at the facility no more than three (3) days per year and the type of practice is one of the following:

- orthodontics
- periodontics
- oral and maxillofacial surgeon
- radiology; oral pathology or oral medicine
- endodontics and prosthodontics

SECTION III-B - CONSTRUCTION STANDARDS

III-B1. MATERIALS OF CONSTRUCTION

General materials of construction requirements are contained in Section I of these Standards. The sections that follow establish the specific material requirements for sewer pipe products, manholes, and other miscellaneous sewer appurtenances.

III-B1-1. Sewer Pipe and Fittings

Unless otherwise approved by the District Engineer, sewer pipe shall be limited to VCP, DIP, PVC pipe or HDPE pipe.

III-B1-1.01. Vitrified Clay Pipe (“VCP”)

All VCP and fittings shall conform to the requirements of ASTM C700 as it applies to extra strength, unglazed VCP. Each section of pipe shall be clearly stamped with either the words “Extra Strength” or the letters “ES” designating the strength class. VCP joints shall either be plain end to plain end or bell and spigot conforming to ASTM C425. Plain end to plain end joints shall consist of banded rubber or elastomeric polyvinyl chloride couplings with corrosion resistant Type 316 stainless steel clamps and Type 305 bolts.

III-B1-1.02. Ductile Iron Pipe (“DIP”)

All DIP and fittings for sewer work shall conform to the same specification requirements given for water work in Section II of these Standards.

III-B1-1.03. Polyvinyl Chloride Pipe (“PVC” Pipe)

PVC pipe and fittings for sizes 4-inch through 15-inch shall meet the requirements of ASTM D3034, SDR 26, cell classification 12454-B or 12454-C. PVC pipe and fittings for sizes 18-inch through 27-inch shall meet the requirements of ASTM F679, SDR 26, Wall T-1, cell classification 12454-C.

Bell and spigot joints shall meet the requirements of ASTM D3212 with integral bell push-on type elastomeric gasket joints. Field cut joints and connections to other piping materials shall be made with a mechanical compression joint composed of: a heavy duty synthetic rubber sealing component; two (2) Type 316 stainless steel clamps; Type 305 stainless steel nuts and bolts; and an adjustable stainless steel shear ring. Grouted connections to cast-in-place concrete manhole bases shall be made with a rubber ring water stop.

Pipe fittings having either spiral or concentric external reinforcing ribs will not be acceptable.

Installation of PVC pipe shall meet the requirements of ASTM D2321. All field cut PVC pipe shall be beveled and lubricated before joining.

III-B1-1.04. ABS Wall Pipe

ABS solid wall pipe shall be allowed upon specific approval of the District Engineer for four (4) inch residential side sewers. ABS pipe and fittings shall conform to ASTM D2751 with an SDR minimum value of 26.

III-B1-1.05. HDPE Pipe and Fittings

HDPE pipe shall conform to ASTM F714-94, "Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter," or ASTM D3035-93 "Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter."

HDPE pipe shall have a Plastic Pipe Institute (PPI) material designation of PE 3408, a cell classification of PE 345434C per ASTM D3350, and have an established hydrostatic design basis of 1600 psi at 73 degrees F.

All HDPE fittings shall be manufactured from the same resin type, grade, and cell classification as the pipe, and shall be fully pressure rated.

HDPE pipe joints shall conform to the requirements of Section II-B1-1.05 of this specification.

III-B1-2. Manholes

This section covers the materials of construction for standard, drop, shallow, and sampling/metering manholes. All manholes shall be constructed of precast reinforced concrete concentric cone sections with a minimum access opening of twenty-four (24) inches. Eccentric cones may be used upon specific approval by the District Engineer. Material specifications are as follows:

Manhole Component	Material Specification
Concrete	Materials, handling, finishing, and curing as specified in concrete Section I-D10-1. Manhole bottom shall be Class B concrete.
Precast Sections	Circular precast concrete, ASTM C478 except as modified. Vacuum tested.
Medium thickness	Six (6) inches.
Reinforcement	As indicated on Drawings S-2, S-3, and S-4.
Openings	Circular with surfaces grooved or roughened to improve mortar bond.
Mortar	Commercial strength non-shrink grout.
PVC Pipe Waterstop	1 inch Geargrip Adapter, polyisoprene material, 40 Durometer, ASTM 361.
Gaskets	
Mastic	Fed Spec SS-S-210.
Plastic	Fed Spec SS-S-00210.
Coal Tar Paint	Carboine "Bitumastic Super-Service Black," Porter "Tarmastic 103," Tnemec "450 Heavy Tnemecol," or equal.
Asphalt Varnish	Fed Spec TT-V-51.
Coatings	ASTM A 48, Class 35B or better with asphalt varnish coating applied at the foundry.
Manhole Frame and Covers	Phoenix Iron Works "P1090," Clay and Bailey "No. 2008BV," Neenah "R-1736S," or equal. Dimensions shown in Drawing S-4.
Manhole Steps	Prohibited.
Brick Manholes	Not Allowed.

The manhole cover and its seat in the frame shall be machined so that the cover will sit evenly and firmly in the frame and shall be match-marked. Manhole lids shall be stamped "Sanitary

Sewer" as shown on Drawing S-4 Standard Manhole Frame and Cover. Where the District Engineer deems necessary for heightened protection of the public or its facilities, PAMREX hinged manhole frame and locking cover, or approved equal, may be required.

If castings arrive on the job without a foundry coating, one (1) coat of coal tar paint shall be applied. Before painting, all castings shall be thoroughly cleaned and properly supported. All loose rust shall be removed by wire brushing. Castings shall not be handled until the paint is dry and hard. The coating shall not become brittle when cold or sticky when hot.

Rejection of a manhole section may be made if: (1) there are damaged or cracked ends, where such damage would prevent making a satisfactory joint; (2) any continuous crack having a surface width of 0.01 inches or more and extending for a length of twelve (12) inches or more, regardless of position in the wall; (3) fractures or cracks passing through the wall except for a single end joint that does not exceed the joint depth; or (4) surface defects indicating honeycombed or open texture.

When manholes are constructed in natural or manmade drainage courses or flood channels, the manhole covers shall be watertight and shall be fitted with a composition gasket and bolted down with eight (8) stainless steel cap screws. To further alleviate infiltration, all interior concrete surfaces including the manhole shafts shall have at least one (1) coat of primer and two (2) coats of protective coating (Amercoat 64 primer, and Amercoat 320 protective coating, or approved equal). In other undeveloped areas above the high water level, bolt-down vandal-proof manhole covers shall be used.

III-B1-3. Saddle Fittings

Saddle fittings used for connecting new lateral sewers to existing mains shall be wye branched and shall be fabricated of a material approved by the District Engineer. The wye saddle shall consist of a flange component necessary for preventing the fitting from protruding into the main.

III-B2. INSTALLATION OF SEWER PIPE AND APPURTENANCES

General requirements for installation of pipe and general construction requirements are contained in Section I-D of these Standards. The sections that follow establish the specific requirements as relating only to installation of sewer pipe and sewer appurtenances.

III-B2-1. Pipe and Fittings

Sewer pipe laying shall proceed upgrade with the spigot ends of bell and spigot pipe pointing in the direction of flow.

Sewer pipe entering and leaving manholes or other structures shall have a joint installed not less than twenty-four (24) inches but not more than four (4) feet from the manhole base.

In all cases, flexibility of joints in or at the manhole base shall be preserved to prevent damage to the pipe by differential settlement.

III-B2-2. Manholes

Standard, drop, and shallow manholes shall be constructed in accordance with Drawings S-2, S-3, and S-4, respectively. All materials for precast manhole sections shall conform to the requirements set forth in Section III-B1-2.

Manholes shall not be located in easements with steep slopes. However, when a manhole is required under special circumstances to be installed in steep slopes, standard and shallow manholes shown in Drawings S-2, S-3, and S-4 may be installed subject to the approval of the District Engineer. Use of manholes in steep slopes shall be reviewed by the District Engineer on a case-by-case basis.

Prior to work on existing manholes, a temporary false bottom shall be installed inside of the manhole.

III-B2-2.01. Assembly of Precast Sections

All wall and floor joints shall be cleaned prior to setting any manhole sections. These sections shall be set into position using a preformed plastic sealing gasket or mastic sealing gasket. If the plastic gaskets are used, they shall be in strict conformance with the manufacturer's recommendations including application of a primer coat, drying the joint, and careful use of the gasket to avoid displacement. If mastic is used, it shall be first approved by the Inspector and shall be placed to provide a tight joint.

The top cone section shall be set at such an elevation that not more eighteen (18) inches height of entrance or manhole throat is present with the manhole cover at finish grade.

III-B2-2.02. Manhole Base and Channels

Sewer lines shall first be laid as a whole pipe through manholes. After the manhole floor and walls have been set, the top half of the piping within the manhole shall be carefully cut off to within one (1) inch longitudinally of the inside wall of the precast section and the sides mortared to form a smooth channel as indicated on Drawing S-2.

Unless otherwise required by the District Engineer, the width of the opening at the top of base block shall be the inside diameter of the pipes in the manhole.

In the manholes where the pipe cannot be laid through, the pipes shall be joined by smooth curves, worked to conform with the lower halves of the pipe.

In angle point manholes and in junction manholes, the pipes shall be joined by smooth curves, warped to conform with the lower halves of the pipe. In all cases, the upper portion of the manhole channel from the midpoint of the pipes in the manhole to the top of the base block shall be constructed vertically.

The manhole channel shall be completed in the original pour, unless otherwise directed by the District Engineer.

III-B2-2.03. Adjustments to Street Grade During Construction

The Contractor shall set the transition section after the finished street elevation is known. The Developer shall coordinate the fitting of entrance sections, frames, and covers with the final paving so that the finished manhole covers blend neatly with the street surface. Successful completion of the testing of sewer line does not relieve the Contractor from making these final adjustments.

Frames and covers shall be installed on top of manholes to positively prevent all infiltration of surface or ground water into manholes. Frames shall be set in a bed of mortar with the mortar carried over the flange of the ring as shown on Drawing S-2. On sloping finish grade, frames and covers shall be installed as shown on Drawing S-6.

Manholes located in unimproved easements or undeveloped areas not subject to vehicular traffic shall be provided with wire mesh reinforced concrete encasement as shown in Drawing S-6. In addition, a marker post shall be erected not more than four (4) feet from the center of the manhole. The post shall be provided with the necessary identification marks as required by the District Engineer. Marker post shall be as shown in Drawing G-4.

III-B2-2.04. Adjustment to Street Grade After Construction

The Contractor shall be required to make any adjustments in the manhole cover sections during the one-year guarantee period if there is additional paving work. This work consists of removing and replacing the manhole frame and the grade rings. Adjustments shall be accomplished by excavating as necessary, lifting off the frame and grade rings as directed, thoroughly cleaning the frame's bottom bearing surface, coating it with asphalt paint similar to the original coating, removing the old mortar from the manhole cone and grade rings, and replacing the existing frame and grade rings to the new grade as specified for new manholes.

III-B2-2.05. Manhole Collar

All manhole collars shall be poured only after the frame has been centered over the manhole shaft. Unless otherwise specified by the District Engineer, in unpaved areas a concrete collar shall be poured around the frame and shaft so as to securely anchor the frame to the shaft. In paved areas, concrete shall be poured around the manhole frame and shaft in lieu of rock base to a point two (2) inches below the rim unless otherwise required by the City or other public agency having jurisdiction.

III-B2-2.06. Manholes with Drop Connections

When a drop connection is shown on the Improvement Plans, it shall be included as part of the manhole construction. The drop shall be made with approved fittings outside the manhole shaft. The lower pipe shall be constructed into the base block by the channeling procedures, as detailed in Section III-B2-2.02. The lower fittings shall be encased in CDF.

After the manhole shaft is in place, the upper pipe run shall be constructed through the precast wall (flush with the inner wall). The space between the pipe and the precast section shall be mortared to a watertight condition. This pipe and drop shall then be encased in concrete to the point where the upstream sewer trench is of normal width and depth. Refer to Drawing S-3.

III-B2-2.07. Pipe Stubout on Future Connections

Lateral sewer and sewer main connection stubouts shall be provided in manholes where shown on the Improvement Plans. The connection stubouts shall be placed in the manhole base and protrude one (1) foot outside the base. All stubouts shall be furnished with a watertight plug capable of withstanding all internal or external pressures without leakage. All plugs shall be adequately braced to prevent blowoffs.

III-B2-2.08. Flexible Pipe Connections to Manholes

All PVC lateral sewers and all PVC sewer mains entering manholes shall have a rubber sealing gasket, as supplied by the pipe manufacturer, firmly seated perpendicular to the pipe axis, around the pipe exterior, and cast into the structure as a water stop.

III-B2-2.09. Manhole Protection

During construction, particular care must be taken to protect the manhole from damage and to keep rock, dirt, and debris from getting into the sewer. After the sewer pipe through the manhole has been broken out and channel finished, a close fitting board cover shall be placed over channel and covered with building paper. A temporary metal plate cover, of adequate strength, close fitting, and well secured, shall be placed over the manhole opening until the frame and cover are permanently installed. Manholes in undeveloped areas, which are above finish grade as required, shall be secured with wire mesh and concrete as shown on Drawing S-6.

III-B2-3. Cleanouts

Cleanouts shall consist of a wye branch fitting of the same diameter as the side sewer and installed so the open end of the wye branch is directed to facilitate cleaning. The riser from the wye branch shall be brought to finish grade as shown in Drawing S-10.

III-B2-4. Lateral Sewers

The Contractor shall install only those lateral sewers shown on the Improvement Plans or called for in writing by the District Engineer or by the Developer with the written approval of the District Engineer. Workmanship shall be equal to that specified for the street sewers. No lateral sewer shall be covered until the Developer's Engineer has recorded its location.

The Contractor shall mark the location of all lateral sewers with the letter "S" at least two (2) inches (50 mm) high engraved into the curb at the time of curb installation. For laterals in vacant lots or where no concrete curbs exist, Contractor shall furnish and place 2" x 2" x 12" long hubs at the property line directly above the end of the pipe, with the letters "H.L." and the depth to the lateral marked on the hub with paint.

Unless otherwise shown on the Improvement Plans, lateral sewers shall be installed from the street sewer to the lot line in accordance with Drawing S-9 and plugged at the lot line in preparation for the leakage test. Laterals shall consist of factory-made standard wye branch or tee fittings with ends to suit the street sewer pipe, tilted 30 degrees upward, and plugged with factory-made removable plugs. Wyes shall face in a logical manner to facilitate future installation of house laterals to the properties to be served. The branch portion shall be firmly embedded on all sides and shall be plugged with a watertight plug until the side sewer is constructed.

III-B2-4.01. Deep Lateral Sewers

Lateral sewers shall not slope more steeply than 45 degrees. Lateral sewers sloping more than 30 degrees, but less than 45 degrees, shall be cradled in concrete. Lateral sewers sloping 30 degrees or less shall be bedded and laid to the same standards as street sewers, without need for cradling in concrete. Vertical chimneys shall not be allowed.

III-B2-4.02. Overflow Protection

Overflow protection devices shall be placed in well-drained locations near the premises being protected, with unobstructed access for observation and repair.

III-B2-4.03. Abandonment

Lateral sewers to be temporarily abandoned shall be plugged at property line or as directed by the District Engineer. Lateral sewers to be permanently abandoned shall be plugged at the sewer main.

III-B3. CONNECTIONS WITH EXISTING DISTRICT FACILITIES

General locations where new sewer mains and lateral sewers are to connect to existing sewer mains shall be shown on the Improvement Plans. It shall be the responsibility of the Contractor to determine the exact location and depth of the existing sewers prior to the installation of any sewer pipe.

III-B3-1. Connection of New Sewer Main to Existing Sewer Facilities

Connection of new sewer mains to existing lines shall be made at existing manholes or by constructing a new manhole over the point of connection or by removing an existing rodding inlet or plug.

Where the connection is to be made into an existing manhole, the Contractor shall make the connection by breaking through the manhole base, cutting a rough channel through the manhole shelf to the existing channel, installing the new pipe with a water stop if PVC sewer, finishing a new channel within the manhole, and repairing any damage to the structure. Where the connection is to be made by constructing a new manhole on an existing sewer, the manhole and new connection shall conform to details as shown in Drawing S-2. The existing sewer shall not be broken until immediately before the cleaning and flushing operation commences.

Where the connection is to be made at a removed rodding inlet or plug, an air test fitting shall be installed at the connection of new and existing pipelines installed in preparation for testing as directed by the District Engineer.

Approved mechanical expanding type temporary plugs shall be installed in each of the following cases.

1. If there is an existing manhole at the beginning of a new system, a plug shall be installed in the new pipe at the existing manhole and another plug installed on the downstream side of the first manhole upstream in the new system pipeline.
2. If the Contractor constructs a new manhole at the beginning of a new system and an existing pipe is in the new manhole, a plug shall be installed on the downstream sides of the first two (2) manholes upstream from the existing manhole.
3. If the new system begins at an existing rodding inlet or stub, a plug shall be installed on the downstream sides of the first (2) two manholes upstream from the beginning of the new system.
4. Temporary plugs shall be installed in the open ends of sewer lines while adjusting, repairing, or pouring the top blocks on rodding inlets or similar structures.

All temporary plugs shall be installed, secured, and removed in the presence of the Inspector. Temporary plugs shall remain intact until immediately prior to the beginning of the cleaning and flushing operation. Premature removal of the plug may result in the Contractor being required to clean existing downstream sewer mains. In case of neglect or refusal by the Contractor to perform such cleaning, the District shall execute the work and bill the Contractor or the Contractor's surety for costs incurred.

III-B3-2. Connection of New Lateral Sewer to Existing Sewer Facilities

Where wyes or tees were previously installed on the main sewer, the lateral sewer shall be connected to the wye or tee as provided for the particular connection. Lateral connections to existing manholes shall be as detailed on Drawing S-2 unless otherwise shown on the Improvement Plans or directed by the District Engineer.

New wye branch or tee fittings shall be installed when a connection shall be made to an existing sewer main without previously installed connection fittings. A new connection fitting shall be of the same size and type of material as the main line. The Contractor shall be responsible for all necessary bypass pumping to maintain sewer service while connecting fittings and laterals are installed. All Work shall conform to Drawing S-9.

Tapping and saddle installation shall only be used upon approval of the District Engineer for cases where disruption of existing sewer service is unavoidable. Tapping and saddles shall be tap-tite or approved equal. Tapping and saddle connections shall be made as follows:

Excavation to permit a minimum of three (3) inches of concrete under the main and six (6) inches on the sides shall be made. The exterior of the sewer main shall then be cleaned thoroughly around its entire outside circumference, and twelve (12) inches each way measured from the center of the saddle. An opening shall then be cut in the barrel of the main sewer pipe and carefully trimmed to permit a snug fit for the spigot end of the saddle. Care shall be taken that no fragments of pipe are allowed to remain in the main sewer. The saddle shall then be installed as shown on Drawing S-9. After this operation is complete and before any pipe is connected to the saddle, the Work must be inspected and approved by the Inspector. Following this approval, concrete shall be poured into the excavated area around the pipe to completely encase the main to the lip of the saddle bell.

III-B3-3. Joining Pipes of Different Materials

When pipes of different materials are joined together, the joint shall be made as directed by the District Engineer. Joining pipes of different materials between manholes shall not be permitted. The same type of pipe material shall be used between manholes.

During repair of sewer laterals and joining pipes of different materials, transition coupling shall be used.

III-B4. TESTING, CLEANING, AND TELEVISION INSPECTION

Testing, cleaning, and television inspection requirements shall be as follows. Upon successful completion of testing, access to manholes must be maintained at all times.

III-B4-1. Testing

All completed sewer mains, force mains, and lateral sewers shall be tested by and at the expense of the Contractor in the Inspector's presence prior to acceptance of Work and prior to connection to the house sewer. The conditions under which testing shall be performed shall be as follows:

1. After all proposed Work, including mains, manholes, laterals, and connections, has been completed.
2. After the installation of all other underground utilities.
3. In improved areas, after the roadway base rock has been placed and compacted.
4. In unimproved areas, after the backfill is satisfactorily compacted.
5. After access to all manholes has been provided.

III-B4-2. Air Testing

Unless otherwise required, all sewer testing shall be performed by the air testing procedure, which is described as follows:

After plugging all openings and providing thrust blocking as necessary, air shall be admitted to the section under test at an inlet pressure not exceeding five (5) psi from a source regulated by an adjustable pressure control valve and measured by a sensitive pressure gauge calibrated from zero (0) to no more than ten (10) psi. When the internal gauge pressure has reached 3.5 psi under stabilized temperature conditions, the air supply to the test section shall be cut off. The Inspector shall then observe the time interval during which the internal pressure drops 1.0 psig from at least 3.5 psig. The length of time for such loss shall not be less than that shown in the following table for the street sewer size being tested and also for the length of main line being tested.

Test plugs for any air test shall not be removed until the pressure is no longer measurable. Air shall be released slowly through a valve. If the pipe to be tested is submerged in ground water, determine the backpressure due to ground water submergence and increase all gauge pressures in the test by that amount. If a test pressure greater than eight (8) psig results, air testing shall not be used, and exfiltration testing will be required.

III-B4-2.01. Air Loss Time Tables

Tables 1 and 2 contain the specified minimum times required for a 1.0 psig pressure drop from a starting pressure of at least 3.5 psig. Table 1 shall be used for VCP and DIP sewers. Table 2 shall be used for PVC sewers.

**TABLE 1. VCP AND DIP SEWER
MINIMUM TIME (MINUTES) FOR A 1.0 PSIG PRESSURE
DROP FOR SIZE AND LENGTH OF SEWER**

Pipe Diameter, Inches	Length of Line, ft.							
	0 to 100	101 to 150	151 to 200	201 to 250	251 to 300	301 to 350	351 to 400	401 to 500
6	1	1-1/4	1-1/2	2	2-1/4	2-1/2	2-3/4	3-1/2
8	1-3/4	2	2-1/2	3	3-3/4	4-1/4	5	6
10	2	2-3/4	3-1/2	4-1/4	4-3/4	5-1/4	6	7-1/2
12	2-1/4	3	4	4-3/4	5-1/2	6-1/4	7-1/4	9
15	3	3-3/4	4-3/4	5-1/2	6-1/4	7-1/4	8-1/2	10-1/2
18	3-3/4	4-1/2	5-1/4	6	7-1/4	8-1/2	9-1/2	12

**TABLE 2. PVC SEWER
MINIMUM TIME (MINUTES-SECONDS) FOR A 1.0 PSIG PRESSURE DROP
FOR SIZE AND LENGTH OF SEWER**

Pipe Dia., In.	Min Time	Length for Min Time, ft.	Time for Longer Length, sec.	100	150	200	250	300	350	400	450
				100	150	200	250	300	350	400	450
4	3:46	597	.380 L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	.854 L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8	7:34	298	1.520 L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24
10	9:26	239	2.374 L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48
12	11:20	199	3.418 L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38
15	14:10	159	5.342 L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18	17:00	133	7.692 L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41
21	19:50	114	10.470 L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
24	22:40	99	13.674 L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27	25:30	88	17.306 L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48
30	28:20	80	21.366 L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25.852 L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53
36	34:00	66	30.768 L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46

III-B4-3. Air Test Failure

If the air test indicates leakage greater than the specified limits, the Contractor shall locate the defects by inspection and shall make such repairs and replacements as are necessary. To locate the section of sewer that fails the air test, the various methods that may be used include remote cameras, adjustable low pressure air devices, or the filling of the line with water by plugging the inlet of the downstream manhole and maintaining at least a two (2) foot (0.6 m) depth over the outlet of the upstream manhole until the leaks are located by observing wet spots along the trench. Water shall be drained in a manner approved by the Inspector. Under no conditions shall clay, cement, or other sealer be applied inside the pipe in order to meet the test requirements. All defective portions shall be exposed and repaired or replaced, including defective bedding, to the satisfaction of the Inspector.

III-B4-4. Water Exfiltration Test

In special cases, such as for sewer force mains, a water exfiltration test may be required as described below.

Sewers shall be tested between successive manholes by plugging the lower end and the inlet of the upper manhole. The pipe and manhole shall be filled with water to a point four (4) feet (1.2 m) above the invert at the center of the upper manhole, or in the presence of ground water, four (4) feet (1.2 m) above the average adjacent ground water level. The allowable leak shall be computed as follows over a period of at least a one-hour test:

- E = $0.00002 LD\sqrt{H}$
- L = Length of line being tested including laterals in feet.
- D = Internal diameter of pipe in inches.
- E = Allowable leakage in gpm.
- H = Elevation between upper manhole water surface and invert of pipe at lower manhole (or if ground water present, upper manhole water surface and ground water at lower manhole).

III-B4-5. Testing Deflection of PVC Sewer Pipe

The inside diameter of an installed section of PVC sewer pipe shall not be allowed to deflect more than five (5) percent. All PVC pipe main sewers shall be checked by means of a pipe deflection gauge. The pipe deflection shall be checked in the presence of the Inspector after the placement of all trench backfill and prior to surface restoration.

The pipe deflection gauge shall be fabricated to permit passage through installed sections of pipelines within the specified maximum five (5) percent deflection of the base inside diameter of the PVC pipe. Any section(s) of plastic pipe that does not permit deflection gauge passage will not be accepted and said section(s) shall be properly repaired or replaced and rechecked as directed by the District Engineer.

Rerounding through the use of a vibratory machine will not be permitted.

III-B4-6. Testing of Manholes

The test shall be conducted prior to paving.

All lift holes shall be filled with non-shrink grout.

All pipe inlets and outlets in the manhole shall be plugged sufficiently secure to hold against vacuum pressure.

The rubberized test plate shall be placed on the cone after potential leaks on the top of the cone have been sealed.

A vacuum of ten (10) inches of mercury shall be drawn and the vacuum pump shut off. With the valves closed, the time shall be measured for the vacuum to drop to nine (9) inches. Following are the minimum test times for respective manhole barrel inside diameters:

Test Times	Inside Diameter
60 seconds	48-inch
75 seconds	60-inch
90 seconds	72-inch

If a manhole fails the test, repairs shall be made with non-shrink grout. Retesting shall proceed until passing test is conducted.

III-B4-7. Cleaning

Upon satisfactory completion of the testing and after all necessary repairs and adjustments have been made including setting manhole frames to final elevations, the entire new system of sewers and manholes shall be cleaned. Before beginning the cleaning operation, a standard sand trap (Southwest Flexible Co., or equal) shall be placed in the manhole at which the new work connects to the District's system, and it will remain in place until all solid matter has been removed. Under no conditions shall material other than clear flushing water be discharged into the District's system before final acceptance of the new work. Splattered mortar and all irregularities shall be removed from the flow channels, leaving smooth dense uniform surfaces finished in a thoroughly first-class manner.

A hydraulically propelled ball shall be used to clean the entire system of new sewers. Those sections, which cannot be visually inspected by mirroring between manholes, will be cleaned only in the presence of an Inspector. Prior to the beginning of this work, excessive amounts of debris shall be removed by the Contractor.

Solid material washed into the lowest manhole(s) shall be removed from the system. The standard sand trap between the new work and the District system shall be removed only after all phases of the work have been approved after final inspection.

III-B4-8. Television Inspection

Upon completion of sewer cleaning by the Contractor, all sewer main lines shall be television inspected by the District prior to acceptance. Prior to TV inspection, the Contractor shall thread $\frac{1}{4}$ -inch nylon rope from structure to structure. The cost of television inspection shall be included in the sewer inspection fees per District Code and collected in advance. If it is necessary to television inspect sewer lines more than once, additional fees shall be collected in advance.

The following observations from television inspections will be considered defects requiring correction:

1. Sag or low spot $0.125 \times$ diameter of pipe or greater (e.g. 1 inch for 8-inch pipe)
2. Joint separations
3. Cocked joints present in straight runs or on the inside of pipe curves
4. Chips in pipe ends
5. Cracked or damaged pipe
6. Offset joints
7. Infiltration
8. Debris or other foreign objects
9. Other obvious deficiencies

ATTACHMENT G

FOG Public Outreach Materials



One word of advice from your sewer...

DON'T

...flush wipes and feminine hygiene products down the toilet. Put them in the trash. Even so-called "flushable" products don't break down in water. *Consumer Reports* proved it—see the video at www.drsd.com/WhatNotToFlush.

...pour fats, oils and grease down your sinks and drains. Put small amounts in the trash. Bring larger quantities (think turkey fryer) to a hazardous waste collection center. Find locations at www.drsd.com/Grease.

No one wants to worry about clogged pipes or nasty sewage overflows. Follow these simple rules and you won't have to.





How can AquaHawk help you?



**Dublin San Ramon
Services District**

Water, wastewater, recycled water

- Identify a leak
- See water consumption
- Make a payment
- View past statements
- Sign up for paperless billing
- Estimate your next bill

The AquaHawk Customer Portal is the fast, free, easy way to access your account.

www.dsrsd.com/AquaHawk

SIGN UP TODAY!



AquaHawk Login • Calendar • Job Openings • BACC • eNotification • Contact Us

 Dublin San Ramon Services District
Water, wastewater, recycled water

Home Your Account Your Dollars at Work About Us Outreach Do Business With Us Careers How To...

**Avoid
holiday pain
in the drain**

NO GREASE DOWN THE DRAIN
Grease and oil will clog your drain. There are better ways to dispose of kitchen fats...

**Pay Your Bill**
Report a Problem
AquaHawk
Board Meetings & Agendas
Library



- ▶ Water Conservation
- ▶ Emergencies
- ▶ Water Quality
- Draining Your Pool or Spa
- Mosquito FAQs
- ▼ What Not to Flush
 - ▶ FOG Clogs Pipes
- ▶ Who's Responsible for Pipeline Repairs?
- Odor Control Hotline
- Tour Request
- Request a Speaker
- Reserve the Boardroom - Facility Use Permit
- Classroom Programs about Water
- Science & Engineering Fairs

[Outreach](#) » [What Not to Flush](#)

FOG CLOGS PIPES

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Keep Fats, Oil, and Grease (FOG) Out of Your Sink

Greasy food waste is a leading cause of clogs and costly repairs in the public wastewater system, as well as in [private sewer laterals](#), the pipes that connect homes and businesses to public sewer mains.

To avoid sewage backups, never put fat, oil, or greasy food down the sink. Cooking oil and grease, meat scraps, gravy, mayonnaise, oily salad dressings, and high-fat dairy products can all clog pipes. It doesn't help to use a garbage disposal or rinse with hot water—the grease will harden further down the line.

Wipe greasy pans and dishes with a paper towel and place the towel with food scraps in your green waste cart. The Tri-Valley's garbage companies will turn your food scraps into productive compost. For details on what you can put in your green waste cart, contact the garbage service for [Dublin](#), [San Ramon](#) or [Pleasanton](#).

Collect cooled liquid cooking oil (such as from a deep fryer) in a container with a tight-fitting lid. Bring the container to a collection center for recycling. Find locations at [recyclewhere.org](#) or [www.baywise.org](#).

Motor oil is a toxic waste. Never dump it into sinks, floor drains, storm drains (which flow directly to creeks and the bay), or landfills. Check the websites above for hazardous waste collection centers near you.



DSRSD FOG Magnet Truck Sign



DSRSD FOG TV Truck Wrap



ATTACHMENT H

Wastewater Collection System Master Plan (CSMP) Report

Insert: Wastewater Collection System Master Plan Report

ATTACHMENT I

Sewer System Management Plan Audit Guidance Documents and Reports

Sewer System Management Plan

SSMP Audit Checklist Template

The intent of this Gap Analysis Audit Checklist is to evaluate the SSMP's compliance with the State Water Board Order No. 2006-0003-DWQ, Statewide Waste Discharge Requirements for Sanitary Sewer Systems (WDR) and Order No. WQ 2013-0058-EXEC, Amending Monitoring and Reporting Program (MRP) for the WDR. Additionally, the Gap Analysis uses industry reference materials, benchmarking data, and State Water Board regulatory enforcement procedures to identify areas for improvement in the SSMP itself, or the District's management or maintenance procedures. The Gap Analysis evaluates each WDR/MRP requirement on the following scale:

- **BMP Gap** – An element of collection system operation or management could be improved to Best Management Practices.
- **Management Tool Gap** – An element of the SSMP could be improved to enhance the effectiveness of the SSMP as a collection system management tool.
- **WDR Compliance Gap** - SSMP is not compliant with existing SSMP WDR.

The Gap Analysis results should be recorded in the table below. It should be noted that a “check mark” indicates that a gap exists as described in the column. An element with no “check marks” has been evaluated to be in compliance. Red text should be used to indicate action items to comply with the WDRs.

Requirement		BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments
ELEMENT 1 – GOALS					
A.	Are the goals stated in the SSMP still appropriate and accurate?				
ELEMENT 2 – ORGANIZATION					
A.	Is the list of Contact Info for Responsible Officials in SSMP Content Development current?				
B.	Is the District Organization Chart current?				
C.	Are the role and responsibilities descriptions an accurate portrayal of staff responsibilities?				
D.	Does the SSMP identify the Chain of Communication for reporting SSOs, and is it accurate and up-to-date?				
E.	Does the SSMP identify staff responsible for implementing, specific measures in the SSMP?				

Sewer System Management Plan

SSMP Audit Checklist Template

Requirement	BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments
ELEMENT 3 – LEGAL AUTHORITY				
Does the SSMP contain references to the current District Code documenting the District's legal authority to:				
A. Prevent illicit discharges?				
B. Require that sewers and connections be properly designed and constructed?				
C. Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the District?				
D. Limit discharges of fats, oil and grease?				
E. Enforce any violation of its sewer ordinances?				
ELEMENT 4 – OPERATIONS AND MAINTENANCE PROGRAM				
Collection System Maps				
A. Does the SSMP reference the current process and procedures for maintaining the District's wastewater collection system maps?				
B. Are the District's wastewater collection system maps complete, current, and sufficiently detailed (including showing applicable storm water conveyance facilities)?				
Prioritized Preventive Maintenance				
C. Does the SSMP describe current preventive maintenance activities and the system for prioritizing regular maintenance and cleaning of the system?				
D. Is there a system to document scheduled and conducted activities?				
Rehabilitation and Replacement Planning				
E. Is there an ongoing condition assessment program? Are the current components of this program documented in the SSMP?				
F. Is there a system for prioritizing the rehabilitation and replacement program? Does the Capital Improvement Plan (CIP) include a time schedule for implementing the short- and long-term needs, plus a schedule for developing the funds needed for the CIP?				

Sewer System Management Plan

SSMP Audit Checklist Template

Requirement		BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments
Training					
G.	Is the training calendar current?				
H.	Does the SSMP document current training expectations and programs?				
Major Equipment and Critical Replacement Parts Inventories					
I.	Does the SSMP list the major equipment currently used in the operation and maintenance of the collection system and document the procedures of inventory management?				
J.	Are critical replacement parts identified and sufficient to respond to emergencies?				
Outreach to Plumbers and Building Contractors					
K.	Does the SSMP document current outreach efforts to plumbers and building contractors?				
ELEMENT 5 – DESIGN AND PERFORMANCE STANDARDS					
A.	Does the SSMP contain current design and construction standards for the installation of new sanitary sewer systems, pump stations and other appurtenances and for the rehabilitation and repair of existing sanitary sewer systems?				
B.	Does the SSMP document current procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and the rehabilitation and repair of existing sewer lines?				
ELEMENT 6 – OVERFLOW EMERGENCY RESPONSE PLAN (OERP)					
A.	Does the District's OERP establish procedures for the emergency response, notification, and reporting of SSOs?				
B.	Does the SSO OERP establish procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Revised MRP? Does the SSMP identify the officials who will receive immediate notification?				
C.	Are staff and contractor personnel appropriately trained on the procedures of the OERP?				

Sewer System Management Plan

SSMP Audit Checklist Template

Requirement		BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments
D.	Does the SSO OERP include a program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to surface waters and to minimize or correct any adverse impact on the environment resulting from the SSOs?				
ELEMENT 7 – FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM					
A.	Does the FOG Control Program include efforts to educate the public on the proper handling and disposal of FOG?				
B.	Does the District have a plan and schedule for disposal of FOG generated within the service area?				
C.	Does the District have sufficient legal authority to implement and enforce the FOG Control Program?				
D.	Are requirements for grease removal devices, best management practices (BMP), record keeping, and reporting established in the District's FOG Control Program?				
E.	Does the District's FOG Control Program identify sections of the collection system subject to FOG blockages, establish a cleaning schedule and address source control measures to minimize these blockages?				
F.	Is the current FOG program effective in minimizing blockages of sewer lines resulting from discharges of FOG to the system?				
ELEMENT 8 – SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN					
A.	Does the plan evaluate hydraulic deficiencies in the system, establish sufficient design criteria and recommend both short and long-term capacity enhancement and improvement projects?				
B.	Does the District's CIP establish a schedule of approximate completion dates for both short and long-term improvements and is the schedule reviewed and updated to reflect current budgetary capabilities and activity accomplishment?				

Sewer System Management Plan

SSMP Audit Checklist Template

Requirement		BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments
ELEMENT 9 – MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS					
A.	Does the SSMP accurately portray the methods of maintaining and tracking relevant information that can be used to establish and prioritize appropriate SSMP activities?				
B.	Is the District able to sufficiently evaluate the effectiveness of SSMP elements and PM program based on relevant information?				
C.	Does the SSMP identify and illustrate SSO trends including frequency, location, and volume.				
ELEMENT 10 – SSMP PROGRAM AUDITS					
A.	Have SSMP Audits been completed? Audits must occur every two years and a report must be kept on file.				
ELEMENT 11 – COMMUNICATION PROGRAM					
A.	Does the District effectively communicate with the public and other agencies about the development and implementation of the SSMP and continue to address any feedback?				



An audit was performed on the Dublin San Ramon Services District's (District) 2012 Sewer System Management Plan (SSMP) using a Gap Analysis format. The intent of the Gap Analysis is to evaluate the SSMP's compliance with the State Water Board Order No. 2006-0003-DWQ, Statewide Waste Discharge Requirements for Sanitary Sewer Systems (WDR) and Order No. WQ 2013-0058-EXEC, Amending Monitoring and Reporting Program (MRP) for the WDR. Additionally, the Gap Analysis used industry reference materials, benchmarking data, and State Water Board regulatory enforcement procedures to identify areas for improvement in the SSMP itself, or the District's management or maintenance procedures. The Gap Analysis evaluated each WDR/MRP requirement on the following scale:

- **BMP Gap** – An element of collection system operation or management could be improved to Best Management Practices.
- **Management Tool Gap** – An element of the SSMP could be improved to enhance the effectiveness of the SSMP as a collection system management tool.
- **WDR Compliance Gap** - SSMP is not compliant with existing SSMP WDR.

The Gap Analysis results are presented in the table below. It should be noted that a “check mark” indicates that a gap exists as described in the column. An element with no “check marks” has been evaluated to be in compliance. Red text indicates action items to comply with the WDRs. Blue text indicates action items to achieve BMP goals or improve management tools.

Requirement	BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
ELEMENT 1 – GOALS					
A. Are the goals stated in the SSMP still appropriate and accurate?		✓		Goals are compliant but should be revisited. <i>Goal 3 mentions the 2005 Wastewater Collection System Master Plan, which should be updated. Goals could include both short-term and long-term performance indicators to help track the success of the SSMP.</i>	Reference to Collection System Master Plan Update changed to 2018 report
ELEMENT 2 – ORGANIZATION					
A. Is the list of Contact Info for Responsible Officials in SSMP Content Development current?		✓		<i>The Contact Info list needs to be updated.</i>	Contact Info list included as Appendix A
B. Is the District Organization Chart current?		✓		<i>Organizational Chart needs to be updated.</i>	Organizational Chart updated with version on website as of October 2018

Sewer System Management Plan

2018 SSMP Audit Report



Requirement		BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
C.	Are the role and responsibilities descriptions an accurate portrayal of staff responsibilities?			✓	<i>Roles need to be updated to align with updated Organizational Chart. Responsibilities should be revisited.</i>	Created table for Roles and Responsibilities
D.	Does the SSMP identify the Chain of Communication for reporting SSOs, and is it accurate and up-to-date?			✓	<i>SSO Reporting Chain of Command flow chart does not include specific person(s) responsible or contact information.</i>	SSO Reporting Chain of Communication flow chart and SSO Reporting Instructions table inserted from newest OERP
E.	Does the SSMP identify staff responsible for implementing, specific measures in the SSMP?			✓	<i>Roles need to be updated to align with updated Organizational Chart. Responsible District Official should be revisited.</i>	Created table for Roles and Responsibilities

ELEMENT 3 – LEGAL AUTHORITY

Does the SSMP contain references to the current District Code documenting the District's legal authority to:

A.	Prevent illicit discharges?	✓		To improve ease of use, recommend consolidating District Code references into one succinct table, and provide web link to District Code.	Legal authority requirement references consolidated into one table; url link to District website added for current District Code
B.	Require that sewers and connections be properly designed and constructed?	✓		To improve ease of use, recommend consolidating District Code references into one succinct table, and provide web link to District Code.	
C.	Ensure access for maintenance, inspection, or repairs for portions of the lateral owned or maintained by the District?			No Gap Identified. DSRSD does not own service laterals.	
D.	Limit discharges of fats, oil and grease?	✓		To improve ease of use, recommend consolidating District Code references into one succinct table, and provide web link to District Code.	
E.	Enforce any violation of its sewer ordinances?	✓		To improve ease of use, recommend consolidating District Code references into one succinct table, and provide web link to District Code.	

Sewer System Management Plan

2018 SSMP Audit Report



Requirement	BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
ELEMENT 4 – OPERATIONS AND MAINTENANCE PROGRAM					
Collection System Maps					
A. Does the SSMP reference the current process and procedures for maintaining the District's wastewater collection system maps?	✓			No Gap Identified; the SSMP references GIS mapping/intranet and paper maps. <i>Could provide additional detail on frequency of updates to paper maps.</i>	-
B. Are the District's wastewater collection system maps complete, current, and sufficiently detailed (including showing applicable storm water conveyance facilities)?		✓	✓	Storm water facilities are not fully mapped by their owners. Work with the Cities of San Ramon and Dublin to obtain remaining GIS storm drain information.	-
Prioritized Preventive Maintenance					
C. Does the SSMP describe current preventive maintenance activities and the system for prioritizing regular maintenance and cleaning of the system?	✓	✓		<i>Add historical cleaning and inspection results to monitor on an annual basis and to support program analysis and future PM program improvement.</i>	Historical cleaning completion rates added for 2012-2017
D. Is there a system to document scheduled and conducted activities?	✓			Once new performance measures are developed in 2019, there will be an opportunity to re-align the data collected with performance measures for improved/easier tracking and analysis.	-
Rehabilitation and Replacement Planning					
E. Is there an ongoing condition assessment program? Are the current components of this program documented in the SSMP?	✓			<i>Consider utilizing MACP condition assessment standards for manholes to better align with pipeline/PACP inspections.</i>	-
F. Is there a system for prioritizing the rehabilitation and replacement program? Does the Capital Improvement Plan (CIP) include a time schedule for implementing the short- and long-term needs, plus a schedule for developing the funds needed for the CIP?	✓		✓	<i>Elaborate on current funding mechanisms and schedules. Instead of condition-base priority system, consider risk-based priority system for repairs. Refine long-term rehab/replacement methodology to rely on condition data, rather than age.</i>	Funding details for CIP added in Element 8
Training					

Sewer System Management Plan

2018 SSMP Audit Report



Requirement		BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
G. Is the training calendar current?			✓		Training is discussed in the current SSMP; however, a calendar is not provided. <i>Develop a streamlined training schedule to track training for all Collection System staff.</i>	-
H. Does the SSMP document current training expectations and programs?			✓		The SSMP currently documents that all collections workers need to be CWEA certified, however basic training is not specified. The Current SSMP refers to the Policies and Procedures for training, however, the training requirements should also be outlined in the SSMP. <i>Develop a streamlined training schedule to track training for all Collection System staff.</i>	-
Major Equipment and Critical Replacement Parts Inventories						
I. Does the SSMP list the major equipment currently used in the operation and maintenance of the collection system and document the procedures of inventory management?				✓	The SSMP references a spreadsheet for District vehicles but does not provide detail on other major equipment or inventory. <i>Add a full inventory list of major equipment.</i>	Full inventory of major equipment added as Appendix F
J. Are critical replacement parts identified and sufficient to respond to emergencies?				✓	The SSMP references a "mutual aid" list for equipment that can be used during emergencies and lists several individual spare/backup units stored at the WWTP or field operations site Bin #5. It is noted the District has not experienced any problems in obtaining parts during an emergency. <i>Add a full inventory list of critical replacement parts.</i>	Full inventory of critical replacement parts added as Appendix F
Outreach to Plumbers and Building Contractors						
K. Does the SSMP document current outreach efforts to plumbers and building contractors?				✓	District is not currently distributing contractor outreach flyers.	District has produced an outreach flyer on SSO prevention and sewer lateral construction standards and will distribute these flyers from the new permit counter

Sewer System Management Plan

2018 SSMP Audit Report



Requirement	BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
ELEMENT 5 – DESIGN AND PERFORMANCE STANDARDS					
A.	Does the SSMP contain current design and construction standards for the installation of new sanitary sewer systems, pump stations and other appurtenances and for the rehabilitation and repair of existing sanitary sewer systems?		✓	<i>Update reference from 2012 DSRSD Procedures, Specifications and Drawings to the updated 2014 version.</i>	Reference revised to 2014 version
B.	Does the SSMP document current procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and the rehabilitation and repair of existing sewer lines?		✓	<i>Update reference from 2012 DSRSD Procedures, Specifications and Drawings to the updated 2014 version.</i>	
ELEMENT 6 – OVERFLOW EMERGENCY RESPONSE PLAN (OERP)					
A.	Does the District's OERP establish procedures for the emergency response, notification, and reporting of SSOs?	✓	✓	<i>Remove references to 2006 and 2013 OERP, and include 2017 version. Sections could be arranged according to importance for ease of reference (i.e. Reporting/Notification information should come before equipment SOPs)</i>	OERP updated March 2017; new document included as Appendix H
B.	Does the SSO OERP establish procedures to ensure prompt notification to appropriate regulatory agencies and other potentially affected entities (e.g. health agencies, Regional Water Boards, water suppliers, etc.) of all SSOs that potentially affect public health or reach the waters of the State in accordance with the Revised MRP? Does the SSMP identify the officials who will receive immediate notification?	✓	✓	<i>Remove references to 2006 and 2013 OERP, and include 2017 version. Update contact information as an appendix sheet that can be easily replaced in 3-ring binders.</i>	OERP updated March 2017; new document included as Appendix H
C.	Are staff and contractor personnel appropriately trained on the procedures of the OERP?			No Gap Identified; the SSMP documents training for appropriate staff twice per year.	-

Sewer System Management Plan

2018 SSMP Audit Report



Requirement		BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
D.	Does the SSO OERP include a program to ensure that all reasonable steps are taken to contain and prevent the discharge of untreated and partially treated wastewater to surface waters and to minimize or correct any adverse impact on the environment resulting from the SSOs?				Requirements are met by 2017 OERP, which needs to be included in the SSMP.	OERP updated March 2017; new document included as Appendix H
ELEMENT 7 – FATS, OILS, AND GREASE (FOG) CONTROL PROGRAM						
A.	Does the FOG Control Program include efforts to educate the public on the proper handling and disposal of FOG?				No Gap Identified; the District has a well-developed public education/ outreach program.	-
B.	Does the District have a plan and schedule for disposal of FOG generated within the service area?		✓		No Gap Identified; the SSMP identifies local FOG disposal locations. <i>The SSMP mentions a potential FOG receiving station at the WWTP scheduled for 2016. Provide update on FOG receiving station.</i>	Added information regarding FOG receiving station to be complete in 2019
C.	Does the District have sufficient legal authority to implement and enforce the FOG Control Program?				No Gap Identified.	-
D.	Are requirements for grease removal devices, best management practices (BMP), record keeping, and reporting established in the District's FOG Control Program?	✓			Requirements met; record keeping and reporting done by District environmental compliance staff. <i>Suggest including additional detail on record keeping and FOG program compliance results.</i>	-
E.	Does the District's FOG Control Program identify sections of the collection system subject to FOG blockages, establish a cleaning schedule and address source control measures to minimize these blockages?				No Gap Identified; the SSMP discusses the "trouble-spot" cleaning program that contains FOG hotspots. A commercial source control program covers approximately 175 facilities. FOG-related SSOs have been historically limited to 1-2 per year.	-
F.	Is the current FOG program effective in minimizing blockages of sewer lines resulting from discharges of FOG to the system?				No Gap Identified; low FOG-related SSOs are attributed to the effective grease trap and FOG programs.	-

Sewer System Management Plan

2018 SSMP Audit Report



Requirement	BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
ELEMENT 8 – SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN					
A. Does the plan evaluate hydraulic deficiencies in the system, establish sufficient design criteria and recommend both short and long-term capacity enhancement and improvement projects?	✓		✓	<p><i>Update this section with results of the 2018 master plan update. Description of design criteria is lacking and a general discussion on what constitutes a capacity deficient pipeline should be included.</i></p>	The 2018 CSMP Update was added as Appendix J. The CSMP Update includes all required information.
B. Does the District's CIP establish a schedule of approximate completion dates for both short and long-term improvements and is the schedule reviewed and updated to reflect current budgetary capabilities and activity accomplishment?				<p><i>Update the SSMP to include the current CIP as an Appendix that can easily be removed and updated.</i> SSMP includes general discussion on short and long-term improvement scheduling and funding. CIP budgets are prepared every two years.</p>	-
ELEMENT 9 – MONITORING, MEASUREMENT, AND PROGRAM MODIFICATIONS					
A. Does the SSMP accurately portray the methods of maintaining and tracking relevant information that can be used to establish and prioritize appropriate SSMP activities?	✓			<p><i>Improve performance indicators and align data tracked with new performance indicators. Highly recommend implementing monthly reporting of progress to management, and annual reporting to the Board.</i></p>	-
B. Is the District able to sufficiently evaluate the effectiveness of SSMP elements and PM program based on relevant information?	✓	✓		<p><i>SSMP describes that the District is working to establish Key Performance Indicators (KPIs) to measure the effectiveness of the SSMP. This should be revisited and updated.</i></p>	-
C. Does the SSMP identify and illustrate SSO trends including frequency, location, and volume.			✓	<p><i>SSO trends are discussed anecdotally throughout the report. Include historical SSO trends.</i></p>	Historical SSO trends by cause and SSOs by volume were added for 2008-2017
ELEMENT 10 – SSMP PROGRAM AUDITS					
A. Have SSMP Audits been completed? Audits must occur every two years and a report must be kept on file.		✓	✓	<p><i>Last audit included in SSMP was completed in 2013. Include 2018 Audit and update audit template with this one, which identifies BMP and management tool improvements – not just yes/no compliance questions.</i></p>	2013 and 2018 audits included in SSMP Update



Requirement	BMP Gap	Management Tool Gap	WDR Compliance Gap	Comments	Changes made to 2018 Update
ELEMENT 11 – COMMUNICATION PROGRAM					
A. Does the District effectively communicate with the public and other agencies about the development and implementation of the SSMP and continue to address any feedback?	✓			The SSMP is posted on the website and is open for review at the time of updates. <i>Recommend using the SSMP as a communication tool by presenting annual reports and SSMP audits and updates to the Board.</i>	-

ATTACHMENT J

Sewer System Management Plan Change Log

Attachment J. Log of SSMP Changes

Date	SSMP Element	Description of Change/Revision Made	Person Authorizing Change
Oct-2018	All	Reformatted document to align with 2013 MRP Elements. Added excerpt from SWRCB Waste Discharge Requirement before each Element.	Operations Manager
Oct-2018	Introduction	Updated sanitary sewer system description, including: pipe lengths by size and material, lift station, and forcemain descriptions	Operations Manager
Oct-2018	1 – Goals	Updated reference to 2005 Collection System Master Plan Update.	Operations Manager
Oct-2018	2 – Organization	Updated Organizational Chart	Operations Manager
Oct-2018	2 – Organization	Updated SSO Reporting Chain of Communication based on updated OERP document	Water/Wastewater Systems Operations and Maintenance Supervisor
Oct-2018	3 – Legal Authority	Legal authority code references consolidated into one table. District website link added to District Code.	General Manager
Oct-2018	3 – Legal Authority	Added section on Tri-Valley Intergovernmental Agreement; Agreement included as Attachment C.	General Manager
Oct-2018	4 – Operations and Maintenance Program	Added historical operations and maintenance activities including: hydrocleaning, troublespot cleaning, root treatment cleaning, and CCTV inspection (for years 2012 to 2017)	Operations Manager
Oct-2018	4 – Operations and Maintenance Program	Added breakdown of Preventative vs. Corrective Maintenance (based on work orders and number of hours)	Operations Manager
Oct-2018	4 – Operations and Maintenance Program	Training section updated with specific formal training topics and information on training required of contractors performing District collection system O&M	Operations Manager
Oct-2018	4 – Operations and Maintenance Program	Outreach to local contractors section updated; added Contractor Outreach Flyer as Attachment E	Engineering Services Manager
Oct-2018	6 – OERP	Updated based on updated OERP document (March 2017)	Operations Manager

Attachment J. Log of SSMP Changes

Date	SSMP Element	Description of Change/Revision Made	Person Authorizing Change
Oct-2018	8 – System Evaluation and Capacity Assurance Plan	Updated based on 2017 Wastewater Collection System Master Plan (CSMP); Placeholder for CSMP included as Attachment H.	Engineering Services Manager
Oct-2018	9 – Monitoring, Measurement, and Program Modifications	Added historical SSO data including failure by cause and SSO volumes (2008-2017)	Operations Manager
Oct-2018	Section 10 – SSMP Program Audits	Updated audit frequency from annual to semi-annual; removed terminology about submitting audit reports to the RWQCB; referenced recent (October 2018) audit on the 2012 SSMP.	Operations Manager
Oct-2018	Attachment A – Contact Information for Responsible Officials in SSMP Content Development	Updated	Operations Manager
Oct-2018	Attachment B – OERP & Dublin Lift Station Emergency Information	OERP Updated with March 2017 version; added Procedure for Reporting Spills document; added Dublin Lift Station emergency information	Operations Manager
Oct-2018	Attachment C – Tri-Valley Intergovernmental Agreement	Added as new Attachment	General Manager
Oct-2018	Attachment D – Sewer System Major Equipment Inventory; Critical Sewer Replacement Parts Inventory; and Contact Information for Vendors and Contractors.	Added as new Attachment	Operations Manager
Oct-2018	Attachment E – Contractor Outreach Flyer	Added as new Attachment	Operations Manager
Oct-2018	Attachment F – Standard Procedures, Specifications and Drawings for Wastewater Utilities	Added as new Attachment	Engineering Services Manager
Oct-2018	Attachment G – FOG Public Outreach Materials	Added FOG Outreach documents	Sr. Civil Engineer - Environmental Compliance

Attachment J. Log of SSMP Changes

Date	SSMP Element	Description of Change/Revision Made	Person Authorizing Change
Oct-2018	Attachment H – Wastewater Collection System Master Plan Report	Added as new Attachment (to be inserted when finalized).	Engineering Services Manager
Oct-2018	Attachment I – SSMP Audit Guidance Documents and Reports	Updated; included Audit Report from October 2018	Operations Manager
Oct-2018	Attachment J – SSMP Change Log	Added as new Attachment	Operations Manager
Oct-2018	Attachment K – SSMP Board Adoption Documents	Added as new Attachment	General Manager

ATTACHMENT K

Sewer System Management Plan Board Adoption Documents

*Insert: Sewer System Management Plan Board
Adoption Documents*



TITLE: Approve Amendment to the Capital Improvement Program Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years 2020 and 2021 to Add the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) and the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028)

RECOMMENDATION:

Staff recommends the Board of Directors approve, by Resolution, an amendment to the Capital Improvement Program Ten-Year Plan (CIP Plan) for Fiscal Years 2020 through 2029 and Two-Year Budget (CIP Budget) for Fiscal Years 2020 and 2021 to add the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) and the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028).

SUMMARY:

The Alameda County Transportation Commission, Alameda County, and the Cities of Dublin and Livermore are partnering on the Dublin Boulevard Extension Project (Extension Project), a 1.5-mile extension of Dublin Boulevard from Fallon Road in Dublin to North Canyons Parkway at Doolan Road in Livermore. The City of Dublin is the California Environmental Quality Act (CEQA) Project Sponsor. The Final Environmental Impact Report (EIR) for the extension was certified by the Dublin City Council on August 20, 2019. The final design for the Extension Project will be led by the Alameda County Transportation Commission and is expected to start in early 2020 and take 1.5 to 2 years to complete.

The District coordinated with the City of Dublin to include potable water lines and wastewater collection sewers to accommodate future development, based on the City of Dublin's General Plan, in the Extension Project Final EIR. In addition, the District worked with the City of Dublin and the City of Livermore to include a potential potable water emergency intertie between the District and the City of Livermore water systems.

Staff recommends the District amend the CIP Plan and CIP Budget to include the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) with a budget of \$1,980,000 and the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028) with a budget of \$1,360,000 to construct water and wastewater facilities in coordination with the Extension Project. The projects would be funded from the Local Wastewater Expansion (Fund 220) and Water Expansion (Fund 620).

Staff has reviewed the cost and potential benefit of a potable water intertie from the District's system at the service area boundary to the Livermore system at Doolan Canyon Road. An intertie would cost approximately \$1,000,000. The benefit of the intertie would be limited as there is sufficient Zone 7 Water Agency system redundancy in the proposed intertie location. Therefore, although an intertie was included in the EIR, at this time staff does not recommend constructing an intertie.

Additional background and detail are provided in the attached staff report.

Originating Department: Engineering Services	Contact: S. Delight	Legal Review: Not Required
Cost: \$3,340,000 (\$1,980,000 + \$1,360,000)	Funding Source: Water Expansion (Fund 620) – \$1,980,000 Local Wastewater Expansion (Fund 220) – \$1,360,000	
Attachments: <input type="checkbox"/> None <input checked="" type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input type="checkbox"/> Other (see list on right)		394 of 415

STAFF REPORT



District Board of Directors
February 4, 2020

Approve Amendment to the Capital Improvement Program Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years 2020 and 2021 to Add the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) and the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028)

BACKGROUND

The Alameda County Transportation Commission, Alameda County, and the cities of Dublin and Livermore are partnering on the Dublin Boulevard Extension Project (Extension Project), a 1.5-mile extension of Dublin Boulevard from Fallon Road in Dublin to North Canyons Parkway at Doolan Road in Livermore. The extension of Dublin Boulevard has been planned since 1984. Dublin's General Plan, the General Plans of the County and Livermore, and Plan Bay Area 2040 all include the extension of Dublin Boulevard. The extension is planned to have four to six travel lanes, bike lanes, sidewalks, curb and gutter, traffic signals, street lighting, landscaped raised median islands, bus stops, and all city street utilities. (See Attachment 1 for the proposed alignment).

The City of Dublin is the California Environmental Quality Act (CEQA) Project Sponsor. The Final Environmental Impact Report (EIR) for the extension was certified by the Dublin City Council via Resolution No. 90-19 on August 20, 2019. The final design for the Extension Project will be led by the Alameda County Transportation Commission and is expected to start in early 2020 and take 1.5 to 2 years to complete.

DISCUSSION

Water and wastewater Infrastructure

Recognizing that ultimately water and wastewater utilities will need to be installed within the extended Dublin Boulevard to accommodate future development based on the City of Dublin's General Plan, the District coordinated with the City of Dublin to include potable water lines and wastewater collection sewers within the District's service area in the Extension Project EIR. In addition, the District worked with the City of Dublin and the City of Livermore to include a potential potable water emergency intertie (Intertie) between the District and the City of Livermore water systems.

The District water master plan and draft collection system master recognized the need for future facilities in Dublin Boulevard in East Dublin. However, it was assumed the facilities would be designed and constructed by the development community, therefore, the facilities were not included in the Capital Improvement Program (CIP). It is now anticipated that the Extension Project will precede any specific development plans in the area.

Typically, only infrastructure that meets the definition of "major infrastructure" is designed and constructed directly by the District. Moreover, major infrastructure is funded typically by Capacity Reserve Fees, with these fees being based on a nexus (or fee) study. Although the proposed facilities are non-major infrastructure per the District Infrastructure Responsibilities and Funding Policy, which are typically constructed by the developer, staff recommends the District design and construct the facilities. Designing and constructing the proposed facilities in coordination with the Extension Project now rather than later when a specific development project requires the facilities will be more economical and less disruptive than after the roadway is built. Moreover, this infrastructure will serve more than one individual project, and therefore it is appropriate for new development to share in the cost of the construction through the respective Capacity Reserve Fees. The projects would be

funded from the Water Expansion (Fund 620) and the Local Wastewater Expansion (Fund 220). This is consistent with the District's Project Cost Allocation policy, whereby projects that provide facilities and capacity to accommodate future customers shall be allocated to expansion funds.

To design and construct the facilities in coordination with the Extension Project, staff is requesting the CIP be amended to include the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) with a budget of \$1,980,000 to construct 5,150 feet of 12 inch potable water pipelines and to include the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028) with a budget of \$1,360,000 to construct 2,800 feet of 15 inch wastewater collection pipeline. The proposed wastewater collection pipeline was included in the November 2018 Local and Regional Wastewater Capacity Fee Study and the proposed water pipelines will be included in the Water Capacity Fee Study currently in progress. A minor revision in the District's Infrastructure Responsibilities and Funding policy will be presented to the Board shortly, to reflect and formalize these improvements being incorporated into the expansion program.

Staff has reviewed the cost and potential benefit of a potable water intertie from the District's system at the service area boundary to the Livermore system at Doolan Canyon Road. An intertie would cost approximately \$1,000,000. The benefit of the intertie would be limited as there is sufficient Zone 7 system redundancy in proposed intertie location. Therefore, although an intertie was included in the EIR, at this time staff does not recommend constructing an intertie. If an intertie were to be constructed in the future, it would be funded from the District's Water Replacement Fund.

RECOMMENDATION

Staff recommends that the Board District approve an amendment to the Capital Improvement Program Ten-Year Plan for Fiscal Years 2020 through 2029 and Two-Year Budget for Fiscal Years 2020 and 2021 to add the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) and the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028).

ATTACHMENT

- Dublin Boulevard – North Canyons Parkway Extension Project Map



Legend

— Conceptual Alignment*

- Single-Family Residential
- Medium Density Residential
- Medium/High-Density Residential
- General Commercial
- General Commercial/Campus Office

- Industrial Park
- Business Commercial Park
- Open Space
- Resource Management
- Hillside Conservation

- Parks/Public Recreation
- Semi-Public
- Public/Semi-Public
- Major Public

* Note: Conceptual alignment is based on previous planning documents and will be finalized during project design.



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MILE

Existing Land Use Designations

Figure

2

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING AN AMENDMENT TO THE CAPITAL IMPROVEMENT PROGRAM TEN-YEAR PLAN FOR FISCAL YEARS 2020 THROUGH 2029 AND TWO-YEAR BUDGET FOR FISCAL YEARS 2020 AND 2021 TO ADD THE DUBLIN BOULEVARD EXTENSION WATER FACILITIES PROJECT (CIP 20-W027) AND THE DUBLIN BOULEVARD EXTENSION SEWER FACILITIES PROJECT (CIP 20-S028)

WHEREAS, the Board of Directors approved the District's Capital Improvement Program ("CIP") Ten-Year Plan for Fiscal Years Ending (FYE) 2020 through 2029 ("CIP Plan") on July 2, 2019 to serve as a budgetary planning document providing direction and guidance, in accordance with District policies, for the replacement and improvement of existing District facilities and the construction of new facilities; and

WHEREAS, the Board of Directors adopted the current Capital Improvement Program Two-Year Budget for Fiscal Years 2020 and 2021 ("CIP Budget") on July 2, 2019 authorizing fund budgets for fiscal years 2020 and 2021 to meet the District's capital infrastructure needs; and

WHEREAS, the Alameda County Transportation Commission, Alameda County, and the cities of Dublin and Livermore are partnering on the Dublin Boulevard Extension Water Facilities Project (Extension Project), a 1.5-mile extension of Dublin Boulevard from Fallon Road in Dublin to North Canyons Parkway at Doolan Road in Livermore; and

WHEREAS, the District wishes to construct facilities in coordination with the Extension Project to accommodate future development based on the City of Dublin's General Plan; and

WHEREAS, typically, only infrastructure that meets the definition of "major infrastructure" per the District Infrastructure Responsibilities and Funding policy is designed and constructed directly by the District; and

WHEREAS, in this case, it is more economical and less disruptive for the District to design and construct the proposed facilities in coordination with the Extension Project; and

WHEREAS, in accordance with the District's Project Cost Allocation policy, projects that provide facilities and capacity to accommodate future customers shall be allocated to expansion funds; and

WHEREAS, staff recommends use of the Water and Local Wastewater Expansion funds to fund the design and construction of the proposed water and sewer facilities; and

WHEREAS, District staff recommends revising the CIP Plan and CIP Budget to add the Dublin Boulevard Extension Water Facilities Project (CIP 20-W027); and

Res. No. _____

WHEREAS, District staff recommends revising the CIP Plan and CIP Budget to add the Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028).

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

1. Dublin Boulevard Extension Water Facilities Project (CIP 20-W027) is hereby incorporated into the CIP Ten-Year Plan for Fiscal Years 2020 through 2029 and incorporated into the CIP Two-Year Budget for Fiscal Years 2020 and 2021 in accordance with the project description sheet attached as Exhibit "A."

2. Dublin Boulevard Extension Sewer Facilities Project (CIP 20-S028) is hereby incorporated into the CIP Ten-Year Plan for Fiscal Years 2020 through 2029 and incorporated into the CIP Two-Year Budget for Fiscal Years 2020 and 2021 in accordance with the project description sheet attached as Exhibit "B."

3. Dublin Boulevard Extension Water Facilities Project will be funded by the Water Expansion (Fund 620) and the Dublin Boulevard Extension Sewer Facilities Project will be funded by the Local Wastewater Expansion (Fund 220).

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary

DSRSD CIP 10-Year Plan for FYEs 2020 through 2029**CATEGORY: WATER SYSTEM****Water Expansion (Fund 620)****CIP No. 20-W027 Dublin Boulevard Extension Water Facilities****Funding Allocation:** 100% 620**Project Manager:** TBD**Status:** New Project**Project Summary:**

The Alameda County Transportation Commission, Alameda County, and the cities of Dublin and Livermore have partnered on the Dublin Boulevard Extension Project (Extension Project), a 1.5-mile extension of Dublin Boulevard from Fallon Road in Dublin to North Canyons Parkway at Doolan Road in Livermore. To accommodate future development based on the City of Dublin's General Plan, this project will construct 5150 feet of 12 inch potable water pipeline and associated appurtenances in coordination with the Extension Project.

CEQA: Final EIR – Dublin Blvd. – North Canyons Parkway Extension Project (City of Dublin) – August 2019

Reference: DSRSD 2016 Water Master Plan.

Fund Allocation Basis:**10-Year Cash Flow and Estimated Project Cost:**

Prior	FYE 20	FYE 21	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	Future
0	10,000	40,000	185,000	872,500	872,500	0	0	0	0	0	0

Total Estimated Project Cost **\$1,980,000**

Current Adopted Budget **\$0**

Increase/(Decrease) **\$1,980,000**

DSRSD CIP 10-Year Plan for FYEs 2020 through 2029**CATEGORY: WASTEWATER COLLECTION****Local Wastewater Expansion (Fund 220)****CIP No. 20-S028 Dublin Boulevard Extension Sewer Facilities****Funding Allocation:** 100% 220**Project Manager:** TBD**Status:** New Project**Project Summary:**

The Alameda County Transportation Commission, Alameda County, and the cities of Dublin and Livermore have partnered on the Dublin Boulevard Extension Project (Extension Project), a 1.5-mile extension of Dublin Boulevard from Fallon Road in Dublin to North Canyons Parkway at Doolan Road in Livermore. To accommodate future development based on the City of Dublin's General Plan, this project will construct 2800 feet of 15 inch wastewater collection pipeline and associated appurtenances in Dublin Boulevard from Fallon Road to Croak Road in coordination with the Extension Project.

CEQA: Final EIR – Dublin Blvd. – North Canyons Parkway Extension Project (City of Dublin) – August 2019

Reference: DSRSD 2019 Collection System Master Plan; DSRSD 2018 Local Wastewater Capacity Reserve Fee Study

Fund Allocation Basis:**10-Year Cash Flow and Estimated Project Cost:**

Prior	FYE 20	FYE 21	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	Future
0	10,000	40,000	126,000	592,000	592,000	0	0	0	0	0	0

Total Estimated Project Cost **\$1,360,000**

Current Adopted Budget **\$0**

Increase/(Decrease) **\$1,360,000**



TITLE: Authorize Execution of Amendment No. 4 to the Individual Agreement for Personal Services between Daniel B. McIntyre and Dublin San Ramon Services District

RECOMMENDATION:

Assistant District General Counsel recommends the Board of Directors approve, by Resolution, Amendment No. 4 to the Personal Services Agreement with Daniel B. McIntyre.

SUMMARY:

The District entered into a Personal Services Agreement (PSA) with Daniel B. McIntyre on April 6, 2016 (and was further amended on December 20, 2016, January 16, 2018, and December 4, 2018 through Amendment Nos. 1, 2, and 3 to the PSA respectively) pursuant to which he serves as the District's General Manager. His performance as General Manager was the topic of closed session performance assessments discussed by the Board of Directors between September 2019 and January 2020. The Board determined that his performance met or exceeded standards in the competencies, goals, and areas of emphasis the Board established.

Before the Board considers the proposed Amendment No. 4, the Board President and Assistant District General Counsel will have met and conferred with the General Manager and agreed on revised terms related to salary, as outlined in the proposed Amendment No. 4 comprising Exhibit A to the attached resolution. As such, the Board of Directors desires to amend the PSA. The proposed amendment provides for future base salary increases on an annual basis through 2021, at the discretion of the Board and with Board approval. The respective amendment conforms with the direction given by the Board to its negotiators (Board President and Assistant General Counsel in closed session).

Amendment No. 4 to the General Manager's PSA makes no adjustment to the monthly base salary in calendar year 2020, and provides an option for the General Manager to elect to sell back employee leave bank (ELB) leave of up to 160 hours in calendar year 2021.

Originating Department: Board	Contact: C. Nelson	Legal Review: Yes
Cost: Within Budget and provides cost control for future increase	Funding Source: Operating Budget FYE 2020, FYE 2021	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input type="checkbox"/> Other (see list on right)	402 of 415	

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING AND AUTHORIZING EXECUTION OF AMENDMENT NO. 4 TO THE AGREEMENT FOR PERSONAL SERVICES BETWEEN DANIEL B. MCINTYRE AND DUBLIN SAN RAMON SERVICES DISTRICT

WHEREAS, pursuant to Resolution No. 20-16 adopted April 5, 2016, this Board approved and authorized execution of an agreement for personal services with Daniel B. McIntyre as General Manager (the "Agreement"); and

WHEREAS, pursuant to Resolution No. 78-16 adopted December 20, 2016, this Board approved and authorized execution of Amendment No. 1 to the Agreement for personal services with Daniel B. McIntyre as General Manager ("Amendment No. 1"); and

WHEREAS, pursuant to Resolution No. 4-18 adopted January 16, 2018, this Board approved and authorized execution of Amendment No. 2 to the Agreement for personal services with Daniel B. McIntyre as General Manager ("Amendment No. 2"); and

WHEREAS, pursuant to Resolution No. 56-18 adopted December 4, 2018, this Board approved and authorized execution of Amendment No. 3 to the Agreement for personal services with Daniel B. McIntyre as General Manager ("Amendment No. 3"); and

WHEREAS, following a performance review of the General Manager conducted from September 2019 through January 2020, the Board desires to make such adjustments and revisions to the Agreement as are set forth in Amendment No. 4 to the Agreement.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

That certain Agreement titled, "Amendment No. 4 to the Agreement for Personal Services Between Daniel B. McIntyre and the Dublin San Ramon Services District," a copy of which is attached hereto, marked Exhibit "A," and by this reference incorporated herein, is hereby approved and made effective as of February 5, 2020, and the President of this Board and District Secretary are hereby authorized and directed to execute, and to attest thereto, respectively, said amendment for and on behalf of the District.

Res. No. _____

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary

**AMENDMENT NO. 4 TO THE AGREEMENT FOR PERSONAL SERVICES BETWEEN
DANIEL B. MCINTYRE AND THE DUBLIN SAN RAMON SERVICES DISTRICT**

THIS AMENDMENT NO. 4 to the Agreement for Personal Services between Daniel B. McIntyre (“General Manager”) and the Dublin San Ramon Services District, a public agency of the State of California in the Counties of Alameda and Contra Costa (“District”), is made and entered into this 5th day of February, 2020.

WITNESSETH:

WHEREAS, the parties heretofore entered into that certain Agreement for Personal Services (General Manager) dated April 5, 2016 (the “Agreement”) under which General Manager (also referred to as “Manager”) has provided and continues to provide services for District; and

WHEREAS, the parties heretofore entered into Amendment No. 1 to the Agreement dated December 20, 2016; and

WHEREAS, the parties heretofore entered into Amendment No. 2 to the Agreement dated January 16, 2018; and

WHEREAS, the parties heretofore entered into Amendment No. 3 to the Agreement dated December 4, 2018; and

WHEREAS, the Board of Directors of the District (the “Board”) has determined that it is in the best interest of the District to further modify the Agreement with this Amendment No. 4.

NOW, THEREFORE, the parties hereto agree as follows:

Article 1: Section 1 of Exhibit 1 titled “COMPENSATION” to the Agreement are hereby superseded and revised in their entirety and shall read as follows:

“COMPENSATION

1. BASE SALARY

1.1 Initial Base Salary Commencing on December 17, 2018, District shall compensate General Manager a base salary of \$24,167 per month (\$290,004 annually), payable in bi-weekly installments in accordance with District's standard payroll procedures.

1.2. Annual Cost of Living Base Salary Adjustments Subject to satisfactory performance as determined by the Board, at the discretion of the Board and upon Board approval, General Manager's base salary shall be adjusted (before any such merit increase has been applied) effective on the first day of the first pay period of Calendar Year 2021 by up to 2.75%. The Board, within its discretion, may still determine no cost of living increase, or a lesser cost of living increase, is warranted."

Article 2: Subsection 4.1.3 of Section 4 titled "**LEAVE BENEFITS**" of Exhibit 2 to the Agreement is hereby superseded and revised in its entirety and shall read as follows:

"4.1.3 Employee Leave Bank Sell Back General Manager shall have an option to annually sell back up to 80 hours of leave from General Manager's Employee Leave Bank; said option shall be exercised no more than one time in a calendar year provided that there are at least eighty (80) hours remaining after such sell back. Notwithstanding the preceding sentence, the General Manager may, if consistent with an irrevocable election filed during calendar year 2020, sell back up to 160 hours of leave from General Manager's Employee Leave Bank during calendar year 2021, subject to the requirements that the sale be exercised no more than one time during that calendar year, and that at least eighty (80) hours remain in his Leave Bank after such sell back."

Article 3: After execution, and subject to Board approval, this Amendment No. 4 shall become effective on the 5th day of February, 2020. ("Effective Date").

Article 4: In all other respects the Agreement, as previously amended, shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment No. 4 to the Agreement as of the day and date first hereinabove set forth.

DUBLIN SAN RAMON SERVICES DISTRICT,
a public agency in the State of California

By: _____
Edward R. Duarte, Board President

ATTEST:

Nicole Genzale, District Secretary

GENERAL MANAGER

By: _____
Daniel B. McIntyre



TITLE: Adopt Pay Schedule in Accordance with California Code of Regulations, Title 2, Section 570.5, Requirement for a Publicly Available Pay Schedule and Rescind Resolution No. 44-19

RECOMMENDATION:

Staff recommends the Board of Directors adopt, by Resolution, the District Pay Schedule in accordance with California Code of Regulations (CCR), Title 2, Section 570.5, Requirement for a Publicly Available Pay Schedule and rescind Resolution No. 44-19.

SUMMARY:

Per Resolution No. 44-19, the Board of Directors adopted the publicly available pay schedule in accordance with California Code of Regulations (CCR), Title 2, Section 570.5, Requirement for a Publicly Available Pay Schedule.

The pay schedule has been updated with the title and salary range of the new Operations Compliance Supervisor job classification and the base salary and effective date for the Assistant General Manager, which were both adopted by the Board of Directors just previous to this item on this evening's Board agenda.

The regulation specifies that compensation earnable is defined in statute and further clarified by CCR, Title 2, Section 570.5, and that salaries shall be "duly approved and adopted by the employer's governing body in accordance with requirements of applicable public meetings laws." Therefore, only those pay amounts that meet the definition of compensation earnable can be used when calculating retirement benefits. This regulation applies to all employers reporting compensation to the California Public Employees' Retirement System (CalPERS).

This pay schedule shall reflect all salaries previously agreed to by the District in accordance with the various Memoranda of Understanding and the Personal Services Agreements. As required by Government Code Section 54953, an oral report will be presented for this item, prior to taking final action, for the base salary of the Assistant General Manager.

Originating Department: Administrative Services	Contact: M. Gallardo	Legal Review: Yes
Cost: \$0	Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Staff Report <input checked="" type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input type="checkbox"/> Other (see list on right)	408 of 415	

RESOLUTION NO. _____

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT ADOPTING A PAY SCHEDULE IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 2, SECTION 570.5, AND RESCINDING RESOLUTION NO. 44-19

WHEREAS, the California Code of Regulations, Title 2, Section 570.5 requires the District's Board of Directors approve and adopt all pay schedules; and

WHEREAS, the Regulations require that the pay schedule be made public without reference to another document in disclosure of the pay rate; and

WHEREAS, by Resolution No. 44-19, the Board-adopted pay schedule was approved on December 17, 2019; and

WHEREAS, the Board adopted the new salary range for the Operations Compliance Supervisor job classification represented by the Mid-Management Employees' Bargaining Unit (MEBU) earlier this evening in this regularly scheduled meeting; and

WHEREAS, the Assistant General Manager has a Personal Services Agreement adopted earlier this evening at the regular meeting of the Board of Directors on February 4, 2020, with an effective date of March 2, 2020; and

WHEREAS, the pay schedule has been updated to include the new Operations Compliance Supervisor job classification and salary range; and

WHEREAS, the specific language of the respective Personal Services Agreement for the Assistant General Manager establishes the new base salary and effective date.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

1. That the pay schedule titled DSRSD Pay Schedule, set forth in Exhibit "A" and attached hereto and incorporated herein by reference, is hereby approved and adopted, and Resolution No. 44-19 attached as Exhibit "B" is hereby rescinded.
2. The pay schedule approved and adopted by this resolution shall be periodically updated by the Board of Directors, in accordance with the California Code of Regulations requirements.

Res. No. _____

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 4th day of February, 2020, and passed by the following vote:

AYES:

NOES:

ABSENT:

Edward R. Duarte, President

ATTEST: _____
Nicole Genzale, District Secretary

DSRSD Pay Schedule
Pursuant to CCR Title 2 570.5

Exhibit A

In accordance with Board-approved resolutions and the District's established payroll procedures (26 pay periods per year, 14 days per pay period).

Time base for each pay rate: Full time employee (1.0 FTE), 40 hours per work week.

Non-Exempt, Hourly Classifications	Exempt	Code	Effective Date	Resolution #	Monthly Salary					Hourly Pay Rate				
					Step A	Step B	Step C	Step D	Step E	Step A	Step B	Step C	Step D	Step E
ACCOUNT CLERK I	H	cacck1	12/16/2019	59-17	5,156	5,416	5,684	5,971	6,268	29.7462	31.2462	32.7923	34.4481	36.1615
ACCOUNT CLERK II	H	cacck2	12/16/2019	59-17	5,673	5,956	6,255	6,567	6,898	32.7288	34.3615	36.0865	37.8865	39.7962
ACCOUNTANT I	H	pacct1	12/16/2019	51-17	7,900	8,295	8,711	9,146	9,602	45.5769	47.8558	50.2558	52.7654	55.3962
ACCOUNTING TECHNICIAN I	H	cactc1	12/16/2019	59-17	6,289	6,606	6,938	7,284	7,647	36.2827	38.1115	40.0269	42.0231	44.1173
ACCOUNTING TECHNICIAN II	H	cactc2	12/16/2019	59-17	6,918	7,263	7,628	8,010	8,410	39.9115	41.9019	44.0077	46.2115	48.5192
ADMIN ASSISTANT I - CONFIDENTIAL	H	hadas1	12/16/2019	53-17	5,990	6,288	6,604	6,936	7,280	34.5577	36.2769	38.1000	40.0154	42.0000
ADMIN ASSISTANT II - CONFIDENTIAL	H	hadas2	12/16/2019	53-17	6,585	6,914	7,260	7,625	8,006	37.9904	39.8885	41.8846	43.9904	46.1885
ADMINISTRATIVE ANALYST I	H	padan1	12/16/2019	51-17	8,648	9,082	9,537	10,014	10,515	49.8923	52.3962	55.0212	57.7731	60.6635
ADMINISTRATIVE ASSISTANT I	H	cadas1	12/16/2019	59-17	5,216	5,475	5,752	6,038	6,338	30.0923	31.5865	33.1846	34.8346	36.5654
ADMINISTRATIVE ASSISTANT II	H	cadas2	12/16/2019	59-17	5,737	6,027	6,326	6,643	6,976	33.0981	34.7712	36.4962	38.3250	40.2462
ADMINISTRATIVE TECHNICIAN	H	cadmtc	12/16/2019	59-17	6,740	7,078	7,432	7,804	8,194	38.8846	40.8346	42.8769	45.0231	47.2731
ADMINISTRATIVE TECHNICIAN-CONFIDENTIAL	H	hadmtc	12/16/2019	53-17	7,021	7,371	7,738	8,126	8,533	40.5058	42.5250	44.6423	46.8808	49.2288
CO-GENERATION SPECIALIST	H	ccogsp	12/16/2019	59-17	9,048	9,504	9,977	10,478	10,998	52.2000	54.8308	57.5596	60.4500	63.4500
COMMUNICATIONS SPECIALIST I	H	pcoms1	12/16/2019	51-17	8,290	8,706	9,142	9,597	10,076	47.8269	50.2269	52.7423	55.3673	58.1308
CONSTRUCTION INSPECTOR I	H	ccoin1	12/16/2019	59-17	7,745	8,131	8,537	8,966	9,411	44.6827	46.9096	49.2519	51.7269	54.2942
CONSTRUCTION INSPECTOR II	H	ccoin2	12/16/2019	59-17	8,517	8,942	9,393	9,860	10,352	49.1365	51.5885	54.1904	56.8846	59.7231
CUSTOMER FIELD REPRESENTATIVE I	H	ccfdf1	12/16/2019	59-17	5,866	6,160	6,470	6,792	7,131	33.8423	35.5385	37.3269	39.1846	41.1404
CUSTOMER FIELD REPRESENTATIVE II	H	ccfdf2	12/16/2019	59-17	6,451	6,774	7,115	7,470	7,844	37.2173	39.0808	41.0481	43.0962	45.2538
CUSTOMER SERVICES REPRESENTATIVE I	H	ccsrp1	12/16/2019	59-17	5,124	5,380	5,649	5,933	6,229	29.5615	31.0385	32.5904	34.2288	35.9365
CUSTOMER SERVICES REPRESENTATIVE II	H	ccsrp2	12/16/2019	59-17	5,638	5,921	6,215	6,523	6,850	32.5269	34.1596	35.8558	37.6327	39.5192
CUSTOMER SERVICES REPRESENTATIVE III	H	ccsrp3	12/16/2019	59-17	7,097	7,453	7,826	8,219	8,629	40.9442	42.9981	45.1500	47.4173	49.7827
ELECTRICIAN I	H	celec1	12/16/2019	59-17	7,567	7,945	8,341	8,759	9,198	43.6558	45.8365	48.1212	50.5327	53.0654
ELECTRICIAN II	H	celec2	12/16/2019	59-17	8,325	8,740	9,179	9,636	10,118	48.0288	50.4231	52.9558	55.5923	58.3731
ENGINEERING TECHNICIAN / GIS SPECIALIST I	H	centc1	12/16/2019	59-17	7,090	7,446	7,818	8,209	8,618	40.9038	42.9577	45.1038	47.3596	49.7192
ENGINEERING TECHNICIAN / GIS SPECIALIST II	H	centc2	12/16/2019	59-17	7,799	8,187	8,598	9,028	9,479	44.9942	47.2327	49.6038	52.0846	54.6865
ENVIRONMENTAL CHEMIST I	H	pench1	12/16/2019	51-17	8,143	8,551	8,977	9,429	9,898	46.9788	49.3327	51.7904	54.3981	57.1038
ENVIRONMENTAL COMPLIANCE INSPECTOR I-CLEAN WATER	H	cecic1	12/16/2019	59-17	7,493	7,864	8,259	8,675	9,107	43.2288	45.3692	47.6481	50.0481	52.5404
ENVIRONMENTAL COMPLIANCE INSPECTOR II-CLEAN WATER	H	cecic2	12/16/2019	59-17	8,246	8,654	9,087	9,543	10,017	47.5731	49.9269	52.4250	55.0558	57.7904
ENVIRONMENTAL COMPLIANCE INSPECTOR I-PRETREATMENT	H	cecip1	12/16/2019	59-17	7,493	7,864	8,259	8,675	9,107	43.2288	45.3692	47.6481	50.0481	52.5404
ENVIRONMENTAL COMPLIANCE INSPECTOR II-PRETREATMENT	H	cecip2	12/16/2019	59-17	8,246	8,654	9,087	9,543	10,017	47.5731	49.9269	52.4250	55.0558	57.7904
FLEET MECHANIC	H	cfmech	12/16/2019	59-17	7,415	7,786	8,176	8,585	9,013	42.7788	44.9192	47.1692	49.5288	51.9981
GIS ANALYST I	H	pgisa1	12/16/2019	51-17	9,133	9,590	10,070	10,573	11,100	52.6904	55.3269	58.0962	60.9981	64.0385
HUMAN RESOURCES ANALYST I	H	hhran1	12/16/2019	53-17	8,721	9,157	9,614	10,096	10,601	50.3135	52.8288	55.4654	58.2462	61.1596
HUMAN RESOURCES TECHNICIAN	H	hhrtc	12/16/2019	53-17	7,021	7,371	7,738	8,126	8,533	40.5058	42.5250	44.6423	46.8808	49.2288
INFORMATION SYSTEMS TECHNICIAN I	H	cistc1	12/16/2019	59-17	6,758	7,095	7,451	7,823	8,216	38.9885	40.9327	42.9865	45.1327	47.4000
INFORMATION SYSTEMS TECHNICIAN II	H	cistc2	12/16/2019	59-17	7,432	7,804	8,194	8,605	9,037	42.8769	45.0231	47.2731	49.6442	52.1365
INFORMATION TECHNOLOGY ANALYST I	H	pitan1	12/16/2019	51-17	9,324	9,787	10,277	10,791	11,330	53.7923	56.4635	59.2904	62.2558	65.3654
INSTRUMENTATION TECHNICIAN	H	cinstc	12/16/2019	59-17	8,509	8,936	9,380	9,852	10,344	49.0904	51.5538	54.1154	56.8385	59.6769
JUNIOR ENGINEER	H	pjreng	12/16/2019	51-17	8,661	9,091	9,548	10,022	10,525	49.9673	52.4481	55.0846	57.8192	60.7212
JUNIOR PLANNER	H	pjrpln	12/16/2019	51-17	8,155	8,562	8,989	9,440	9,910	47.0481	49.3962	51.8596	54.4615	57.1731
LABORATORY TECHNICIAN	H	clabtc	12/16/2019	59-17	7,126	7,482	7,854	8,249	8,661	41.1115	43.1654	45.3115	47.5904	49.9673
LABORER - TEMPORARY/RA	H	tlabor	6/5/2018	28-18	0	0	0	0	3,467	0.0000	0.0000	0.0000	0.0000	20.0000
MAINTENANCE WORKER I	H	cmtwk1	12/16/2019	59-17	6,032	6,332	6,650	6,982	7,332	34.8000	36.5308	38.3654	40.2808	42.3000

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DSRSD Pay Schedule
Pursuant to CCR Title 2 570.5

Exhibit A

MAINTENANCE WORKER II	H	cmtwk2	12/16/2019	59-17	6,633	6,965	7,315	7,680	8,062	38.2673	40.1827	42.2019	44.3077	46.5115
MECHANIC I	H	cmech1	12/16/2019	59-17	6,957	7,304	7,671	8,055	8,458	40.1365	42.1385	44.2558	46.4712	48.7962
MECHANIC II	H	cmech2	12/16/2019	59-17	7,652	8,035	8,437	8,861	9,302	44.1462	46.3558	48.6750	51.1212	53.6654
MECHANIC II-CRANE CERTIFIED	H	cmeccc	12/16/2019	59-17	7,845	8,238	8,648	9,082	9,537	45.2596	47.5269	49.8923	52.3962	55.0212
OPERATIONS CONTROL SYSTEM SPECIALIST	H	copcss	12/16/2019	59-17	9,082	9,537	10,013	10,515	11,039	52.3962	55.0212	57.7673	60.6635	63.6865
OPERATOR-IN-TRAINING	H	cwtpot	12/16/2019	59-17	5,933	6,229	6,540	6,868	7,210	34.2288	35.9365	37.7308	39.6231	41.5962
PROCESS LEAD WWTP OPERATOR IV	H	cwtppo4	12/16/2019	59-17	8,669	9,101	9,555	10,033	10,534	50.0135	52.5058	55.1250	57.8827	60.7731
PROCESS LEAD WWTP OPERATOR V	H	cwtppo5	12/16/2019	59-17	9,101	9,555	10,033	10,534	11,062	52.5058	55.1250	57.8827	60.7731	63.8192
SAFETY TECHNICIAN	H	csafte	12/16/2019	59-17	7,126	7,482	7,854	8,249	8,661	41.1115	43.1654	45.3115	47.5904	49.9673
SENIOR ACCOUNTING TECHNICIAN	H	csactc	12/16/2019	59-17	7,613	7,994	8,392	8,810	9,253	43.9212	46.1192	48.4154	50.8269	53.3827
SENIOR ELECTRICAL/ELECTRONIC TECHNICIAN	H	cseetc	12/16/2019	59-17	9,362	9,831	10,320	10,835	11,375	54.0115	56.7173	59.5385	62.5096	65.6250
SENIOR ELECTRICIAN	H	csselect	12/16/2019	59-17	9,157	9,614	10,095	10,601	11,130	52.8288	55.4654	58.2404	61.1596	64.2115
SENIOR ENGINEERING TECHNICIAN / GIS SPECIALIST	H	csentc	12/16/2019	59-17	8,577	9,007	9,455	9,933	10,426	49.4827	51.9635	54.5481	57.3058	60.1500
SENIOR ENVIRONMENTAL COMPLIANCE INSPECTOR	H	csreci	12/16/2019	59-17	9,069	9,520	9,996	10,494	11,021	52.3212	54.9231	57.6692	60.5423	63.5827
SENIOR INSTRUMENTATION/CONTROLS TECHNICIAN	H	csrictech	12/16/2019	59-17	9,988	10,489	11,013	11,566	12,144	57.6231	60.5135	63.5365	66.7269	70.0615
SENIOR MECHANIC	H	csrmec	12/16/2019	59-17	8,420	8,839	9,283	9,746	10,232	48.5769	50.9942	53.5558	56.2269	59.0308
SENIOR MECHANIC-CRANE CERTIFIED	H	csrmcc	12/16/2019	59-17	8,629	9,059	9,513	9,988	10,488	49.7827	52.2635	54.8827	57.6231	60.5077
SENIOR WWTP OPERATOR III	H	cswtpo	12/16/2019	59-17	8,254	8,669	9,101	9,555	10,033	47.6192	50.0135	52.5058	55.1250	57.8827
WASTEWATER TREATMENT PLANT OPERATOR I	H	cwtppo1	12/16/2019	59-17	6,825	7,163	7,521	7,896	8,291	39.3750	41.3250	43.3904	45.5538	47.8327
WASTEWATER TREATMENT PLANT OPERATOR II	H	cwtppo2	12/16/2019	59-17	7,503	7,880	8,272	8,685	9,122	43.2865	45.4615	47.7231	50.1058	52.6269
WATER/WASTEWATER SYSTEMS LEAD OPERATOR	H	cwwslo	12/16/2019	59-17	9,330	9,795	10,283	10,796	11,334	53.8269	56.5096	59.3250	62.2846	65.3885
WATER/WASTEWATER SYSTEMS OPERATOR III-ON CALL	H	cww3oc	12/16/2019	55-18	7,691	8,077	8,479	8,902	9,350	44.3712	46.5981	48.9173	51.3577	53.9423
WATER/WASTEWATER SYSTEMS OPERATOR IV-ON CALL	H	cww4oc	12/16/2019	59-17	8,461	8,882	9,330	9,795	10,283	48.8135	51.2423	53.8269	56.5096	59.3250
WATER/WASTEWATER SYSTEMS OPERATOR I	H	cwws01	12/16/2019	59-17	5,933	6,229	6,540	6,868	7,210	34.2288	35.9365	37.7308	39.6231	41.5962
WATER/WASTEWATER SYSTEMS OPERATOR II	H	cwws02	12/16/2019	59-17	6,825	7,163	7,521	7,896	8,291	39.3750	41.3250	43.3904	45.5538	47.8327
WATER/WASTEWATER SYSTEMS OPERATOR III	H	cwws03	12/16/2019	59-17	7,503	7,880	8,272	8,685	9,122	43.2865	45.4615	47.7231	50.1058	52.6269
WATER/WASTEWATER SYSTEMS OPERATOR IV	H	cwws04	12/16/2019	59-17	8,254	8,669	9,101	9,555	10,033	47.6192	50.0135	52.5058	55.1250	57.8827

Exempt Classifications				Monthly Salary					Bi-Weekly Pay Rate					
Job Classification	Exempt	Code	Effective Date	Resolution #	Step A	Step B	Step C	Step D	Step E	Step A	Step B	Step C	Step D	Step E
ACCOUNTANT II	S	pacct2	12/16/2019	51-17	8,625	9,055	9,508	9,983	10,483	3980.77	4179.23	4388.31	4607.54	4838.31
ADMINISTRATIVE ANALYST II	S	padan2	12/16/2019	51-17	9,449	9,919	10,417	10,939	11,485	4361.08	4578.00	4807.85	5048.77	5300.77
ADMINISTRATIVE SERVICES MANAGER	S	asm	12/16/2019	54-17	0	0	0	0	19,614	0.0000	0.0000	0.0000	0.0000	9052.62
ASSISTANT ENGINEER	S	paseng	12/16/2019	51-17	9,460	9,934	10,428	10,951	11,497	4366.15	4584.92	4812.92	5054.31	5306.31
ASSISTANT GENERAL MANAGER	S	agmgr	3/2/2020	TBD	0	0	0	0	18,214	0.0000	0.0000	0.0000	0.0000	8406.46
ASSISTANT PLANNER	S	paspln	12/16/2019	51-17	8,903	9,349	9,817	10,307	10,823	4109.08	4314.92	4530.92	4757.08	4995.23
ASSOCIATE CIVIL ENGINEER-SUBJECT MATTER EXPERT (SME)	S	paesme	12/16/2019	51-17	10,778	11,318	11,881	12,476	13,101	4974.46	5223.69	5483.54	5758.15	6046.62
ASSOCIATE ENGINEER-SUPERVISORY	S	maengs	12/16/2019	52-17	11,481	12,055	12,658	13,291	13,957	5298.92	5563.85	5842.15	6134.31	6441.69
ASSOCIATE PLANNER	S	pasopl	12/16/2019	51-17	9,731	10,216	10,726	11,263	11,828	4491.23	4715.08	4950.46	5198.31	5459.08
BUYER	S	pbuyer	12/16/2019	51-17	8,131	8,536	8,965	9,410	9,882	3752.77	3939.69	4137.69	4343.08	4560.92
CLEAN WATER PROGRAMS SPECIALIST	S	pcwpsp	12/16/2019	51-17	9,714	10,201	10,709	11,245	11,804	4483.38	4708.15	4942.62	5190.00	5448.00
COMMUNICATIONS SPECIALIST II	S	pcoms2	12/16/2019	51-17	9,054	9,507	9,982	10,482	11,006	4178.77	4387.85	4607.08	4837.85	5079.69
COMMUNITY AFFAIRS SUPERVISOR	S	mcasup	12/16/2019	52-17	11,524	12,100	12,707	13,343	14,010	5318.77	5584.62	5864.77	6158.31	6466.15
CUSTOMER SERVICES SUPERVISOR	S	mcssup	12/16/2019	52-17	10,373	10,890	11,434	12,007	12,607	4787.54	5026.15	5277.23	5541.69	5818.62
ELECTRICAL AND INSTRUMENTATION SUPERVISOR	S	meisup	12/16/2019	52-17	10,258	10,771	11,309	11,875	12,471	4734.46	4971.23	5219.54	5480.77	5755.85
EMPLOYEE DEVELOPMENT SPECIALIST	S	peedsp	12/16/2019	51-17	9,535	10,012	10,511	11,038	11,589	4400.77	4620.92	4851.23	5094.46	5348.77
ENGINEERING SERVICES MANAGER	S	esm	12/16/2019	56-17	0	0	0	0	19,614	0.0000	0.0000	0.0000	0.0000	9052.62

DSRSD Pay Schedule
Pursuant to CCR Title 2 570.5

Exhibit A

ENVIRONMENTAL HEALTH AND SAFETY PROGRAM ADMINISTRATOR	S	pehspa	12/16/2019	51-17	10,041	10,542	11,069	11,623	12,203	4634.31	4865.54	5108.77	5364.46	5632.15
ENVIRONMENTAL SERVICES ADMINISTRATOR	S	mesadm	12/16/2019	52-17	13,757	14,443	15,165	15,923	16,721	6349.38	6666.00	6999.23	7349.08	7717.38
ENVIRONMENTAL CHEMIST II	S	pench2	12/16/2019	51-17	8,891	9,336	9,801	10,291	10,808	4103.54	4308.92	4523.54	4749.69	4988.31
EXECUTIVE SERVICES SUPERVISOR	S	messup	12/16/2019	52-17	12,297	12,912	13,558	14,233	14,946	5675.54	5959.38	6257.54	6569.08	6898.15
FINANCIAL ANALYST	S	pfinan	12/16/2019	51-17	9,780	10,269	10,783	11,322	11,886	4513.85	4739.54	4976.77	5225.54	5485.85
FINANCIAL SERVICES SUPERVISOR	S	mfssup	12/16/2019	52-17	13,447	14,119	14,824	15,567	16,343	6206.31	6516.46	6841.85	7184.77	7542.92
GENERAL MANAGER	S	gm	12/17/2018	56-18	0	0	0	0	24,167	0.0000	0.0000	0.0000	0.0000	11154.00
GIS ANALYST II	S	pgisa2	12/16/2019	51-17	9,981	10,481	11,003	11,553	12,132	4606.62	4837.38	5078.31	5332.15	5599.38
GRAPHIC DESIGNER	S	pgrptc	12/16/2019	51-17	9,054	9,507	9,982	10,482	11,006	4178.77	4387.85	4607.08	4837.85	5079.69
HUMAN RESOURCES ANALYST II	S	hhran2	12/16/2019	53-17	9,529	10,006	10,505	11,029	11,583	4398.00	4618.15	4848.46	5090.31	5346.00
HUMAN RESOURCES AND RISK SUPERVISOR	S	mhrsup	12/16/2019	52-17	12,450	13,073	13,726	14,412	15,133	5746.15	6033.69	6335.08	6651.69	6984.46
INFORMATION SERVICES SUPERVISOR	S	missup	12/16/2019	52-17	13,388	14,055	14,759	15,500	16,275	6179.08	6486.92	6811.85	7153.85	7511.54
INFORMATION TECHNOLOGY ANALYST II	S	pitan2	12/16/2019	51-17	10,189	10,698	11,233	11,795	12,384	4702.62	4937.54	5184.46	5443.85	5715.69
LABORATORY SUPERVISOR	S	mlbsup	12/16/2019	52-17	11,562	12,139	12,747	13,383	14,054	5336.31	5602.62	5883.23	6176.77	6486.46
MECHANICAL SUPERVISOR	S	mmesup	12/16/2019	52-17	10,036	10,537	11,065	11,620	12,198	4632.00	4863.23	5106.92	5363.08	5629.85
OPERATIONS COMPLIANCE SUPERVISOR	S	mocsup	2/4/2020	TBD	13,396	14,066	14,769	15,508	16,283	6182.77	6492.00	6816.46	7157.54	7515.23
OPERATIONS MANAGER	S	om	12/16/2019	55-17	0	0	0	0	19,614	0.0000	0.0000	0.0000	0.0000	9052.62
PRINCIPAL ENGINEER-SUBJECT MATTER EXPERT (SME)	S	ppesme	12/16/2019	51-17	12,903	13,547	14,227	14,938	15,684	5955.23	6252.46	6566.31	6894.46	7238.77
PRINCIPAL ENGINEER-SUPERVISORY	S	mpreng	12/16/2019	52-17	13,895	14,588	15,317	16,084	16,889	6413.08	6732.92	7069.38	7423.38	7794.92
REGULATORY COMPLIANCE MANAGER - RA	S	rregcm	8/6/2019	30-19	0	0	0	0	8,667	0.0000	0.0000	0.0000	0.0000	4000.15
SENIOR CIVIL ENGINEER-SUBJECT MATTER EXPERT (SME)	S	psesme	12/16/2019	51-17	11,790	12,378	12,997	13,646	14,330	5441.54	5712.92	5998.62	6298.15	6613.85
SENIOR ELECTRICAL ENGINEER-SUPERVISORY	S	msrees	12/16/2019	52-17	12,629	13,262	13,926	14,621	15,350	5828.77	6120.92	6427.38	6748.15	7084.62
SENIOR ENGINEER-SUPERVISORY	S	msengs	12/16/2019	52-17	12,629	13,262	13,926	14,621	15,350	5828.77	6120.92	6427.38	6748.15	7084.62
SENIOR ENVIRONMENTAL CHEMIST	S	psrech	12/16/2019	51-17	9,714	10,201	10,709	11,245	11,804	4483.38	4708.15	4942.62	5190.00	5448.00
SENIOR MECHANICAL ENGINEER-SUPERVISORY	S	msrmes	12/16/2019	52-17	12,629	13,262	13,926	14,621	15,350	5828.77	6120.92	6427.38	6748.15	7084.62
SENIOR PLANNER	S	psrpln	12/16/2019	51-17	10,636	11,169	11,726	12,312	12,928	4908.92	5154.92	5412.00	5682.46	5966.77
WASTEWATER TREATMENT PLANT OPERATIONS SUPERVISOR	S	mwtpos	12/16/2019	52-17	13,757	14,443	15,165	15,923	16,721	6349.38	6666.00	6999.23	7349.08	7717.38
WATER/WASTEWATER SYSTEMS OPERATIONS & MAINTENANCE SUPERVISOR	S	mwwsom	12/16/2019	52-17	13,757	14,443	15,165	15,923	16,721	6349.38	6666.00	6999.23	7349.08	7717.38

RESOLUTION NO. 44-19

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT ADOPTING A PAY SCHEDULE IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS, TITLE 2, SECTION 570.5, AND RESCINDING RESOLUTION NO. 30-19

WHEREAS, the California Code of Regulations, Title 2, Section 570.5 requires the District's Board of Directors approve and adopt all pay schedules; and

WHEREAS, the Regulations require that the pay schedule be made public without reference to another document in disclosure of the pay rate; and

WHEREAS, by Resolution No. 30-19, the Board-adopted pay schedule was approved on August 6, 2019; and

WHEREAS, the Stationary Engineers, Local 39 (Local 39), the Professional Employees' Bargaining Unit (PEBU), and the Mid-Management Employees' Bargaining Unit (MEBU) have met in good faith and agreed to labor contracts effective December 18, 2017 through December 12, 2021; and

WHEREAS, the Confidential Employees' Bargaining Unit (CEBU) have met in good faith and agreed to labor contracts effective December 18, 2017 through April 30, 2022; and

WHEREAS, the Administrative Services Manager has a Personal Services Agreement in place effective September 26, 2016 and amended on December 4, 2018; and

WHEREAS, the Engineering Services Manager has a Personal Services Agreement in place effective July 20, 2016 and amended on December 4, 2018; and

WHEREAS, the Operations Manager has a Personal Services Agreement in place effective December 5, 2016 and amended on December 4, 2018; and

WHEREAS, the specific language of these labor contracts and personal services agreements establishes new base salaries effective the first day of the first pay period of Calendar Year 2020.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

1. That the pay schedule titled DSRSD Pay Schedule, set forth in Exhibit "A" and attached hereto and incorporated herein by reference, is hereby approved and adopted, and Resolution No. 30-19, attached as Exhibit "B", is hereby rescinded.

2. The pay schedule approved and adopted by this resolution shall be periodically updated by the Board of Directors, in accordance with the California Code of Regulations requirements.

Res. No. 44-19

ADOPTED by the Board of Directors of Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 17th day of December, 2019, and passed by the following vote:

AYES: 5 - Directors Richard M. Halket, Georgean M. Vonheeder-Leopold, Ann Marie Johnson, Edward R. Duarte, Madelyne A. Misheloff

NOES: 0

ABSENT: 0

Madelyne A. Misheloff
Madelyne A. Misheloff, President

ATTEST: Nicole Genzale
Nicole Genzale, District Secretary