Board of Directors Meeting Agenda Special Meeting Thursday, May 2, 2019 5:30 P.M. to 7:30 P.M.

Belvedere City Hall Council Chamber

450 San Rafael Avenue, Belvedere

The RBRA Board of Directors encourages a respectful dialogue that supports freedom of speech and values diversity of opinion. The Board, staff and the public are expected to be polite and courteous, and refrain from questioning the character or motives of others. Please help create a respectful atmosphere by not booing, whistling or clapping; by adhering to speaking time limits; and by silencing your phone.

# PUBLIC COMMENT IS INVITED CONCERNING EACH AGENDIZED ITEM PURSUANT TO THE BROWN ACT. <u>PLEASE LIMIT YOUR COMMENTS TO THREE (3) MINUTES.</u>

#### 5:30 P.M. CALL TO ORDER - ROLL CALL

- 1. Approval of minutes, March 14, 2019.
- 2. Information Item: Community Outreach Subcommittee report and presentation on Community Efforts
- 3. Fiscal Year 2019-20 Budget. Staff recommendation: Approve Resolution No. 02-19 adopting the fiscal year 2019-20 budget in the amount of \$663,916.
- 4. Information Item: Harbor Administrator's Report.
- 5. Open time for public expression. Members of the public are welcome to address the Board for up to three minutes per speaker on matters not on the agenda. Under the state Brown Act, Board members may not deliberate or take action on items not on the agenda, and generally only may listen.
- 6. Comments:
  - a) Staff: The merit hearing the proposed ordinance updating definitions, providing for vessel conditions required for mooring and anchoring in Richardson's Bay, and amending the location of appeal hearings, which passed first reading on March 14, 2019, is now scheduled for the regular meeting of June 13, 2019.
  - b) Board Member matters

AN AGENDA PACKET IS AVAILABLE AT THE SAUSALITO LIBRARY AND THE RBRA WEBSITE <a href="http://rbra.ca.gov">http://rbra.ca.gov</a>, WHERE WRITTEN COMMENTS MAY BE SENT. TO RECEIVE AN ELECTRONIC MEETING NOTICE, PLEASE EMAIL REQUEST TO DON ALLEE AT <a href="mailto:dallee@marincounty.org">dallee@marincounty.org</a>

Marin County Community Develop. Agency, 3501 Civic Center Dr. Room 308, San Rafael, CA 94903 510-812-6284 <u>bethapollard@gmail.com</u>

# **DRAFT MINUTES OF MARCH 14, 2019**

HELD AT TIBURON TOWN HALL CHAMBERS

**MEMBERS PRESENT:** Marty Winter, Chair (Belvedere); Kathrin Sears (Marin County); Jim Fraser (Tiburon); Jim Wickham (Mill Valley)

ABSENT: None

**STAFF:** Beth Pollard, (Executive Director) (patched in via cellphone due to bridge shut-down); Bill Price (Harbor Administrator)

Meeting called to order at 5:35 PM.

# Minutes of February 14, 2019 Board of Directors meeting

Draft minutes were approved unanimously.

## **Community Outreach Subcommittee Report**

Member Sears said that she had met with a small group from the RBSAA over coffee on January 15.

# First reading of proposed ordinance updating definitions, providing for vessel conditions required for mooring and anchoring in Richardson's Bay, and amending the location of appeal hearings

Ms. Pollard outlined the item briefly and explained that a line-by-line reading of the proposed ordinance was not required in order to accomplish the purpose of the reading.

Alden Bevington stated that the ordinance had been developed in collaboration with the RBRA and the RBSAA, but the said he hadn't reviewed it completely. He liked the section covering safe harbor status, and he asked the Board to consider providing financial assistance to bring boats into compliance as a first line of defense. Barbara Salzman of the Marin Audubon Society expressed concern over the safe harbor section as too vague and needing more specific enforcement guidelines. Louis Tenwinkle, Director of RBSAA, wanted to get a boat that can deal with breakaway vessels, and he stated a goal to build a maritime anchorage community.

Walter Crump said that there were over 150 boats on the anchorage and people living on them had medical problems, were unemployable, took drugs, damaged property, caused pollution and exhibited criminal behavior. Douglas Storms spoke about a breakaway boat that was impounded as marine debris which he considered inaccurate. Mr. Bevington encouraged staff not to use the marine debris statute as a hammer. Robert Roark said that he should have been given at least 14 days at the Corps of Engineers to resolve his vessel issues by the laws of refuge. Opal Merlati hoped that the bad apples wouldn't ruin the anchorage forever and she voiced hope that Sausalito Mayor Joan Cox's ideas wouldn't be adopted by the RBRA. She recommended continuing the positive dialogue that had been ongoing for the past three years.

Member Sears moved to adopt the first reading of the proposed ordinance, and schedule a merit hearing for the next Board meeting on April 11, 2019. The motion carried unanimously.

# **Harbor Administrator's Report**

Mr. Price reviewed his report and fielded questions regarding funding from Division of Boating and Waterways, and site locations of the water tests.

The report was accepted unanimously.

## **Public Comments**

Terri Thomas of the North Bay Conservation Corps explained her organization's interest and projects with MCSTOPP, Cal Recycle, and oil spill prevention. She offered assistance with the anchor-out population in handing out oil absorbents and working with the Dock Walkers Program. Member Sears asked if their operation was separate from the County of Marin and Ms. Thomas said it was.

Adrienne Klein reported on the BCDC Enforcement Committee presentation on Richardson Bay, and she said that although they didn't take a position, the committee expressed their support for continued local enforcement efforts. Ms. Salzman said that there were five speakers in attendance speaking in support of increasing enforcement efforts and two anchor-outs in opposition.

Mr. Bevington reiterated his position about engaging RBRA financial resources to assist RBSAA organize a safer anchorage. He described the Sausalito enforcement efforts as a bulldozer approach and said that Sausalito Police don't follow up on theft reports from people on the anchorage. Mr. Tenwinkle said the he wanted to see the anchorage work, with all parties working together, rather that engaging in lawsuits.

## **Staff Comments**

Ms. Pollard updated the Board on the ongoing marine ecology mooring study being conducted by Merkel and Associates, which was in the data and information gathering stage in preparation for analysis. She thanked the local cities for contributing to the additional costs for the bathymetric and eelgrass surveys.

She also reported on efforts by the Coordinated Entry Program of Marin, who were engaged and actively working toward finding housing alternatives for individuals seeking a way off the water.

#### **Board Member Matters**

Member Sears announced that the Board of Supervisors was going to consider her request to adopt resolution celebrating March 22, 2019, as "World Water Day."

The meeting was adjourned at 6:40 PM.

# RICHARDSON'S BAY REGIONAL AGENCY STAFF REPORT

For the meeting of: May 2, 2019

To: RBRA Board of Directors

**From:** Beth Pollard, Executive Director

**Subject:** Fiscal Year 2019-20 Budget

## **STAFF RECOMMENDATION:**

Approve Resolution No. 02-19 adopting the annual RBRA budget for fiscal year 2019-20.

## **BACKGROUND**:

Each year in April or May, the Board of Directors adopts a budget for the next fiscal year that begins July 1 and ends June 30.

In developing the fiscal year 2019-20 budget, staff considered the following factors:

- 1. Projected actual revenues and expenses for fiscal year 2018-19 and projected expenses and revenue funds next year
- 2. State of California Division of Boating & Waterways grant funding for abatement of marine debris and abandoned vessels
- 3. Funding for actions that follow completion of marine ecology-based mooring feasibility and planning study
- 4. Reliance on member agency contributions for a significant portion of RBRA's revenue, recognizing city/county budget constraints

# **DISCUSSION/ANALYSIS:**

<u>Projected actual revenues, expenses, and adjustments for next year</u>
Adjustments in operating revenues and expenses affecting next fiscal year's budget include:

- 1. Rental fees: There are three components of the increase in costs and decrease in revenues related to rental fees:
  - a. Slip rental: Increased fees for slip rental for the RBRA patrol vessel and waste vessel
  - b. Equipment rental: The greater the number of vessels abated, the greater the cost in equipment rental, in addition to standard inflation. In FY 2018-19, the number of vessels projected to be abated is xx more than FY 2017-18.

- c. Loss of mooring rental income: RBRA no longer rents out five moorings; these moorings, which were in Sausalito waters, were removed as they did not have the required sanctioning from the city or BCDC.
- 2. Other increases/cost of living adjustments: These include increased cost for the bi-annual audit and 3% cost-of-living increases for the Executive Director and Harbor Administrator.

## SAVE funds

A stormier winter this year compared with last year resulted in greater use of State Boating & Waterways grant funds from the SAVE (Surrendered and Abandoned Vessel Exchange) program. There are still funds remaining in the 2018-20 SAVE funding allocation to handle a routine number of vessels until the next allocation is made in the fall, which is currently anticipated at \$200,000. The expenditure line item includes \$25,000 for vessel abatement not eligible for state/SAVE reimbursement.

# Post Mooring Study policy direction and implementation actions

RBRA's marine ecology-based mooring study is scheduled to be completed and presented to the Board this summer. The study will inform potential Board policy direction and related actions towards the goal of improving the health, safety, and management of the bay. The Board's 2019 workplan calls for the following follow-up activities in the first half of the upcoming fiscal year:

- Conduct policy discussion on:
  - Mooring locations
  - Number of moorings
  - Vessel and mooring requirements
- If pursue moorings:
  - Consider management options for mooring ownership, installation, inspection, and maintenance (i.e. public, private, or both)
  - o Develop an ordinance establishing mooring requirements
  - o Prepare a mooring transition, management and finance plan
- Evaluate compatibility of policy discussion outcomes with existing policies, plans and regulations; determine next steps

The magnitude of costs associated with future Board direction is currently uncertain. It is reasonable to conclude that there will be various legal, technical, outreach, enforcement and other operational expenses from Board action following the study. Staff has programmed \$25,000 into the contingency line item above the \$10,000 base amount as at least an initial step in the implementation process. As more is known with Board direction, staff can also seek grant funds for eligible costs, and advise the Board and member agencies of any additional costs that lack available funding.

# Member agency contributions

In the 2018-19 budget, the member agencies increased their contributions by 20% to complete the backfill of the revenue lost when the City of Sausalito withdrew from RBRA. The draft budget proposed to increase member contributions by 10%, which can be broken down approximately as follows:

Rental + general/cost of living increases: 4% Contingency for post-study actions: 6%

# FISCAL IMPACT/NEXT STEPS:

Adoption of the budget will allow continued operation of the agency. Budgeting \$25,000 for initial follow up actions from the mooring study will allow the agency to begin implementation of Board decisions. Potential additional funds include grants and carryover savings, if any, from 2018-29 fiscal year end.

## Attach:

Draft Resolution No. 02-19 Proposed 2019-20 Budget Member Agency Contributions

# **RESOLUTION NUMBER 02-19**

## OF THE RICHARDSON'S BAY REGIONAL AGENCY

## ADOPTING A FISCAL YEAR 2019-20 BUDGET

WHEREAS, the Board of Directors annually establishes a budget of projected revenues and expenditures for the Richardson's Bay Regional Agency (RBRA); and

WHEREAS, RBRA staff has prepared a proposed 2019-20 budget that reflects cost estimates and revenue projections for the current and next fiscal years; and

WHEREAS, the proposed 2019-20 budget reflects an increase of 10% in member agency contributions; and

WHEREAS, the Board of Directors may make mid-year budget adjustments to reflect new grant commitments or additional assessments on member agencies to carry out the Board's direction; and

WHEREAS, the proposed budget was presented to the Board of Directors at its meeting of May 2, 2019, at which time the public had the opportunity to comment,

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors hereby adopts the attached budget for fiscal year 2019-20 in the amount of \$663,916.

PASSED AND ADOPTED by the Board of Directors of the Richardson's Bay Regional Agency on May 2, 2019.

CERTIFICATION:		<del></del>
	Marty Winter - Board Chair	Beth Pollard – Executive Director

FY 2019-20 Proposed Budget

XPENDITUR	ES	FY 18-19	FY 18-19	FY 19-20	
UDGET ACCT	DESCRIPTION	Budget	Projected Actual	Proposed	Budget Notes
522510	PROFESSIONAL SERVICES	\$638,096	\$727,329	\$590,616	SAVE salvage; salary; legal; county management, etc.
521615	INSURANCE PREMIUMS	\$17,000	\$15,500	\$17,000	Propery, liability
521310	COMMUNICATION	\$2,400	\$2,100	\$2,400	Phone, fax, internet, mobile
522910	RENTAL & OPER. LEASES	\$32,000	\$36,000	\$40,000	Office; slips/dry storage; heavy equip. rental
523210*	PROF. DEVEL. EXPENSES	\$600	\$600	\$600	Professional associations, continued education
523410*	TRAVEL & MEETINGS	\$1,500	\$300	\$1,000	Harbormaster conference
522815	PUBLICATION	\$1,200	\$750	\$1,200	Legal noticing
522410*	OFFICE EXPENSES	\$400	\$400	\$400	Misc.
521810	MAINT. & REPAIR - EQUIP	\$8,000	\$15,000	\$10,000	Vessel maintenance
	OIL AND GAS	\$700	\$700	\$700	Patrol boat
	TOTAL EXPENDITURES	\$701,896	\$798,679	\$663,916	
	<u> </u>				
		FY 18/19	FY 18/19	FY 19/20	
ROF. SERVI	CES BREAKOUT	Budget	Projected Actual	Proposed	Budget Notes
522545	LEGAL	\$36,000	\$30,000	\$35,000	Routine, regulations, enforcement
522510	RAPID RESPONSE PROGRAM	\$7,000	\$7,000	\$7,000	Contractor cost
522715	LAB SERVICES	\$8,534	\$8,700	\$9,000	Water quality testing
522510	SPECIAL APPOINTMENT	\$164,529	\$164,529	\$169,616	Harbor Administrator salary & benefits
522510	PROFESSIONAL SERVICES	\$235,533	\$210,000	\$225,000	SAVE grant/vessel abatement
	MARINE ECOLOGY STUDY	\$0	\$121,000	\$0	Merkel mooring study + eelgrass/bathymetric survey
522510	ADMINISTRATION	\$91,000	\$90,500	\$93,000	Exec Dir, Marin County CDA admin support, website
522510	AUDIT	\$6,500	\$18,000	\$9,000	Towards biennial audit expense
522510	WASTE AWEIGH PROGRAM	\$9,000	\$7,600	\$8,000	Sewage pump-out services
522510	STATE - SUPPLEMENTAL SAVE	\$70,000	\$70,000	\$0	
522510	CONTINGENCY	\$10,000	\$0	\$35,000	Mooring study follow up; outreach; other
	SUBTOTAL - PROF SERVICES	\$638,096	\$727,329	\$590,616	
EVENUES		FY 18/19	EV.40.40	FY 19-20	
EVENUES			FY 18-19		Dudo et Netes
441115	INTEREST DOOLED INVST	Budget \$900	Projected Actual \$2,400	Proposed \$1,200	Budget Notes
441115	INTEREST POOLED INVST	•			Massing regulation and the SV 19/10
441215	SLIP RENTALS	\$7,000 \$6,000	\$4,800 \$10,000		Mooring rentals concluded FY 18/19
462610	OTHER SALES & SERVICES	\$6,000	\$10,000 \$200,000	<u> </u>	Misc. reimbursement, vessel disposal chargeback
451970	INTERGOVT REVS - STATE	\$202,800	\$200,000 \$415,106		Boating & Waterways SAVE grants/vessel abatement
461250	INTERGOVT REVS - LOCAL	\$415,196	\$415,196	, , , , ,	RBRA Member Dues: 10% increase
	ECOLOGY STUDY REVENUE	\$0	\$121,000		FY18-19: County 100K for study; 21K cities for surveys
451970	STATE - SUPPLEMENTAL	\$70,000	\$70,000	Φ0	Not anticipated in FY 19-20 at this time

Richardson's Bay Regional Agency										
FY 2019-20 Proposed Member Agency Contributions										
Jurisdiction & Percentage	2018-19 Contribution	2019-20 Proposed	Increase From 18-19							
MILL VALLEY (7.7%)	31,970	35,167	3,197							
BELVEDERE (11.5%)	47,748	52,523	4,775							
TIBURON (15.4%)	63,940	70,334	6,394							
MARIN COUNTY (65.4%)	271,538	298,692	27,154							
	415,196	456,716	41,520							

# STAFF REPORT

For the meeting of May 2, 2019

**To:** RBRA Board of Directors

**From:** Bill Price – Harbor Administrator

**Subject:** 2018-19 3rd Quarter report

#### Vessel abatement activities

Over the past two months we have disposed of 14 boats, working around the massive tugboat disposal project that has been ongoing at the Corps of Engineers yard. Two boats salvaged during the winter have been under lien sale proceedings and are about to be fully settled. One was sold to cover towing / storage costs and the other is winding through DMV process.

We have spent about \$33,000 so far out of the \$180,000 SAVE grant for 2018/19. Although there is a Department of Boating & Waterways requirement to spend down 50% of our annual grant prior to applying for the upcoming year's funding, we have submitted a grant request for 2019-2020 along with a letter requesting special consideration as an active agency that historically has spent down every penny of our numerous grants. We are confident this will allow us to compete equally for funding next year.

# Water quality

The water quality results from Winter 2019 are attached and it is evident that many sites were affected by the heavy rainfall, especially those sites located adjacent to storm drains.

The regular beach testing has been implemented by County of Marin Environmental Health Department, and the results at Schoonmaker Beach have been very good in the relatively dry weather.

## **Boat census survey**

The survey conducted on March 15, 2019 showed that the vessel numbers had gone down substantially over the winter, with 146 vessels counted. A summary is attached to this report. The program was updated as well to make it more user friendly by modifying search functionality. We are also working with the sheriff's deputies to set up a survey format that can be accessed and edited on a more regular basis.

<b>7</b>	CEAC	ON!

			DRY SEASO	N				V	VET SEASO	N		
			Single Sample			30 Day Geo Mean			Single Sample			30 Day Geo Mean
Total Coliform Not To Exceed			10,000			1000			10,000			1000
E. coli Not to Exceed			235			126			235			126
Fecal Coliform Not to Exceed Enterococcus Not to Exceed			400 104			200 35			400 104			200 35
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WALDO POINT GATES COOP Station #41	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18	28-Feb-1		13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
Total Coliform 10,000 / 1000	171	275	201	8164	185	427	14	_	594	1785	1296 305	2028
E. coli 235 / 126 Fecal 400 / 200	41 240	31 23	41	8164 920	8	83 72		73 146 50 <b>540</b>	218 220	148 <b>540</b>	130	160 311
Enterococcus 104 / 35	9	20	9		9	29		98 160	10	75	185	74
KAPPAS HOUSEBOATS Station #43	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18	28-Feb	19 7-Mar-19	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
Total Coliform 10,000 / 1000	132	134	241	15531	213	426	29	_	420	906	583	1109
E. coli 235 / 126 Fecal 400 / 200	52 130	10 23	52 33		75 33	92 108	2	59 209 50 350	122 46	145 920	173 110	177 224
Enterococcus 104 / 35	9	10	31		9	39		01 441	52	30	156	117
WALDO "A" DOCK Station #40	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18	28-Feb	19 7-Mar-19	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
Total Coliform 10,000 / 1000	169	121	110		110	241		60 1616	169	1112	142	529
E. coli 235 / 126	9	9	10		10	23		3 185	30	41	10	43
Fecal 400 / 200 Enterococcus 104 / 35	79 52	14 10	22 10		17 20	47 33		50 110 34 75		49 31	22 20	67 32
WALDO POINT SOUTH 40 Station 15 Total Coliform 10,000 / 1000	11-Sep-18 298	<b>18-Sep-18</b> 110	<b>25-Sep-18</b> 97	2-Oct-18 4611	9-Oct-18 132	9-Oct-18 287	28-Feb	_	<b>13-Mar-19</b> 132	<b>20-Mar-19</b> 292	28-Mar-19 2187	28-Mar-19 616
E. coli 235 / 126	9	9	31	2046	10	35		63	10	20	336	48
Fecal 400 / 200	33	13	49		5	43		20 130		110	920	146
Enterococcus 104 / 35	9	9	10		9	21	<u> </u>	51 158	10	246	617	131
CLIPPER BASIN #4 Station 14	11-Sep-18	18-Sep-18	25-Sep-18		9-Oct-18	9-Oct-18	28-Feb	_	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
Total Coliform 10,000 / 1000 E. coli 235 / 126	51 10	134 20	20 9		169 10	224 48	13	76 1918 16 148	8164 10	1450 109	8664 175	<b>3065</b> 84
Fecal 400 / 200	33	49	17		13	142		50 79	5	130	170	77
Enterococcus 104 / 35	9	9	10	6488	9	34	1	21 158	10	197	145	89
ARQUEZ MARINA Station #37	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18	28-Feb	19 7-Mar-19	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
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Enterococcus 104 / 35	9	9	9		9	35		75 30		51	8664	98
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E. coli Not to Exceed Fecal Coliform Not to Exceed Enterococcus Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EHS Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35	9 9 5 0 11-Sep-18 160 20 2	18-Sep-18 41 9 111 9 18-Sep-18 20 23	Single Sample 10,000 235 400 104 25-Sep-18 148 9 5 9 25-Sep-18 122 9 2	2-Oct-18 24196 17329 92000 10462 2-Oct-18 12033 341 240 277	161 52 33 9 <b>9-Oct-18</b> 86 41 33	1000 126 200 35 9-Oct-18 184 58 58 53 19-Oct-09 313 35 36	28-Feb 104 116 16 28-Feb	9 7-Mar-19 52 9208 50 717 1013 189 199 7-Mar-19 155 1660 170 130 181 187	VET SEASO Single Sample 10,000 235 400 104 13-Mar-19 137329 933 920 288 13-Mar-19 134 20 23	20-Mar-19 24196 1483 1600 697 20-Mar-19 275 52 130 0	24196 4611 1600 6131 28-Mar-19 158 31 33	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53
E. coli Not to Exceed Fecal Coliform Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EH\$  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32	9 9 5 0 11-Sep-18 160 20	18-Sep-18 41 9 11 9 18-Sep-18 148 20 23	10,000 235 400 104 25-Sep-18 9 25-Sep-18 122 9 25-Sep-18	2-Oct-18 24196 17329 92000 10462 2-Oct-18 12033 341 240 277	161 52 33 9 <b>9-Oct-18</b> 86 41	1000 126 200 35 9-Oct-18 184 58 58 53 19-Oct-09 313 35 35 18	28-Feb 10/ 18 16 28-Feb 10 28-Feb	9 7-Mar-19 92 7-Mar-19 90 717 90 1600 13 189 99 7-Mar-19 95 1054 95 160 97 130 98 7-Mar-19	VET SEASO Single Sample 10,000 235 400 104 13-Mar-19 137329 933 920 288 13-Mar-19 134 20 23	20-Mar-19 24196 1483 1600 697 20-Mar-19 275 52 130 0	24196 4611 1600 6131 28-Mar-19 158 31	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53
E. coli Not to Exceed Fecal Coliform Not to Exceed Enterococcus Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EHS Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35	9 9 5 0 11-Sep-18 160 20 2 10	18-Sep-18 41 9 11 9 18-Sep-18 148 20 23 9 18-Sep-18	Single Sample 10,000 235 400 104 25-Sep-18 148 9 5 9 25-Sep-18 122 9 2	2-Oct-18 17329 92000 10462 2-Oct-18 12033 341 240 277 2-Oct-18	161 52 33 9 9-Oct-18 86 41 33 9	1000 126 200 35 9-Oct-18 184 58 58 53 19-Oct-09 313 35 36	28-Feb 104 18 16 28-Feb 10 28-Feb	9 7-Mar-19 32 920 50 717 00 1600 13 189 9 7-Mar-19 105 1054 155 160 170 130 111 187	VET SEASO Single Sample 10,000 235 400 104 13-Mar-19 933 920 288 13-Mar-19 134 20 23 9	20-Mar-19 24196 1483 1600 697 20-Mar-19 275 52 130 0	24196 4611 1600 6131 28-Mar-19 158 31 33 9	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53
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E. coli Not to Exceed  Fecal Coliform Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000  E. coli 235 / 126  Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EHS  Total Coliform 10,000 / 1000  E. coli 235 / 126  Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32  Total Coliform 10,000 / 1000  E. coli 235 / 126  Fecal 400 / 200 Enterococcus 104 / 35  GALILEE / NAPA Station #8	9 9 11-Sep-18 160 20 2 10 11-Sep-18 50 9 11-Sep-18	18-Sep-18 41 9 111 9 18-Sep-18 148 20 23 9 18-Sep-18 10 11 10 18-Sep-18	Single Sample 10,000 235 400 104 25-Sep-18 148 9 5 9 25-Sep-18 122 9 25-Sep-18 41 91 25-Sep-18	2-Oct-18 2-Oct-18 17329 92000 10462 2-Oct-18 12033 341 240 277 2-Oct-18 2-S53 350 178	161 52 33 9 9-Oct-18 86 41 33 9 9-Oct-18 63 9 9	1000 126 200 35 9-Oct-18 184 58 58 53 19-Oct-09 313 35 35 18 9-Oct-18 191 18 14 17	28-Feb  104  18  28-Feb  10  28-Feb  10  28-Feb  28-Feb	9 7-Mar-19 52 9208 50 717 61 189 7-Mar-19	VET SEASO Single Sample 10,000 235 400 104 13-Mar-19	20-Mar-19 24196 1483 1600 697 20-Mar-19 25 52 130 0 20-Mar-19 323 63 49 175	24196 4611 1600 6131 28-Mar-19 158 31 33 9 28-Mar-19 4106 488 540 637	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53 28-Mar-19 1175 98 80 129
E. coli Not to Exceed  Fecal Coliform Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EH\$ Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35	9 9 5 0 11-Sep-18 160 20 2 10 11-Sep-18 50 9 5	18-Sep-18 41 9 111 9 18-Sep-18 20 23 9 18-Sep-18 538 100 111	Single Sample 10,000 235 400 104 25-Sep-18 148 9 5 9 25-Sep-18 122 9 25-Sep-18 41 9 2 9	2-Oct-18 12033 3411 2-Oct-18 12033 3411 240 2-Oct-18 3654 253 350 178	161 52 33 9 9-Oct-18 86 41 33 9 9-Oct-18 63 9	1000 126 200 35 9-Oct-18 184 58 58 53 19-Oct-09 313 35 35 18 9-Oct-18 191 18	28-Feb 10 28-Feb 10 28-Feb 10 28-Feb 16 28-Feb	19 7-Mar-19 19 7-Mar-19 10 1600 13 189 19 7-Mar-19 10 1056 105 1056 1060 1070 130 11 187 19 7-Mar-19 14 109 19 7-Mar-19 10 171 19 7-Mar-19	VET SEASO Single Sample 10,000 235 400 104 13-Mar-19 17329 933 920 288 13-Mar-19 134 20 23 9 13-Mar-19 13-Mar-19 9 13-Mar-19 9 9	20-Mar-19 24196 1483 1600 697 20-Mar-19 275 52 130 0 20-Mar-19 323 49 175	24196 4611 1600 6131 28-Mar-19 158 31 33 9 28-Mar-19 4106 488 540 637	1000 126 200 35 15776 1535 1432 717 28-Mar-19 368 54 139 53 28-Mar-19 1175 98
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E. coli Not to Exceed Fecal Coliform Not to Exceed Enterococcus Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EHS Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32  Total Coliform 10,000 / 1000 E. coli 236 / 126 Fecal 400 / 200 Enterococcus 104 / 35  GALILEE / NAPA Station #8  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  MARINEWAYS Station MW  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 2400 / 200 Enterococcus 104 / 35	9 9 11-Sep-18 100 20 21 10 11-Sep-18 50 9 11-Sep-18 209 9 79 10 11-Sep-18 11-Sep-18	18-Sep-18 148 20 23 9 18-Sep-18 538 10 11 10 18-Sep-18 20 9 428 30	Single Sample 10,000 235 400 104 25-Sep-18 9 25-Sep-18 122 9 25-Sep-18 41 9 25-Sep-18 9 25-Sep-18	2-Oct-18 2-Oct-18 12033 341 240 2-Oct-18 3654 253 350 178 2-Oct-18 3594 2-Oct-18 2-Oct-18 3694 2-Oct-18 2-Oct-18 3694 2-Oct-18 3694 2-Oct-18 3694 2-Oct-18 3694 2-Oct-18 3694 4196	9-Oct-18 256 52 79 9-Oct-18 63 9 9-Oct-18 63 9 13 9 9-Oct-18 256 52 79 146 9-Oct-18	1000 126 200 35  9-Oct-18 184 58 58 53  19-Oct-09 313 35 35 18  9-Oct-18 191 18 14 17  9-Oct-18 191 32 24 40  9-Oct-18 588 117	28-Feb 10 28-Feb 10 28-Feb 11 28-Feb 11 28-Feb 11 28-Feb	99 7-Mar-19 19 7-Mar-19 19 7-Mar-19 19 7-Mar-19 19 7-Mar-19 10 133 189 19 7-Mar-19 10 140 10 130 11 187 11 187 11 171 19 7-Mar-19 10 174 10 175 10 174 10 175 10 17	VET SEASO Single Sample 10,000 235 400 104 13-Mar-19 17329 933 920 288 13-Mar-19 13-4 20 23 9 13-Mar-19 13-4 50 63	20-Mar-19 24196 1483 1600 697 20-Mar-19 275 52 130 0 20-Mar-19 323 63 49 175 20-Mar-19 329 46 41 20-Mar-19	24196 4611 1600 6131 28-Mar-19 158 31 33 9 28-Mar-19 4106 488 540 637 28-Mar-19 2755 882 920 1291 28-Mar-19 4844 1250	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53 28-Mar-19 1175 98 80 129 28-Mar-19 700 125 182 83 28-Mar-19 1368 83
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E. coli Not to Exceed Fecal Coliform Not to Exceed Enterococcus Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EHS) Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  GALILEE / NAPA Station #8  Total Coliform 10,000 / 1000 E. coli 236 / 126 Fecal 400 / 200 Enterococcus 104 / 35  MARINEWAYS Station MW  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35	9 9 5 11-Sep-18 160 20 2 10 11-Sep-18 50 9 11-Sep-18 209 9 79 10 11-Sep-18 144 10 49 10 11-Sep-18 31	18-Sep-18  19  111  9  18-Sep-18  148  20  23  9  18-Sep-18  10  11  10  18-Sep-18  428  300  170  9  18-Sep-18  120	Single Sample 10,000 235 400 104 25-Sep-18 148 9 55 9 25-Sep-18 122 9 25-Sep-18 41 9 25-Sep-18 41 10 2 9 25-Sep-18 40 9 25-Sep-18 10 25-Sep-18 10 25-Sep-18 10 25-Sep-18 10 25-Sep-18 10 10 10 10 10 10 10 10 10 10 10 10 10	2-Oct-18 12033 3411 2-Oct-18 12033 3411 2400 2-Oct-18 3654 253 350 178 2-Oct-18 833 350 2-Oct-18 24196 4106 2400 4661	9-Oct-18 9-Oct-18 9-Oct-18 9-Oct-18 9-Oct-18 256 52 79 146 9-Oct-18 2359 2014 1600 31 9-Oct-18	1000 126 200 35  9-Oct-18  184 58 58 53  19-Oct-09 313 35 18  9-Oct-18 191 18 14 17  9-Oct-18 588 117 166 41  9-Oct-18 181	28-Feb 10 28-Feb 10 28-Feb 11 28-Feb 11 28-Feb 11 28-Feb 11 28-Feb 11 29 11 20 28-Feb	99 7-Mar-19 109 7-Mar-19 100 1600 133 188 199 7-Mar-19 105 1054 107 130 131 187 199 7-Mar-19 199 7-Mar-19 199 7-Mar-19 199 7-Mar-19 109 7-Mar-19	VET SEASO Single Sample 10,000 235 400 104 13-Mar-19 13-Mar-19 134 20 23 9 13-Mar-19 1374 20 33 9 13-Mar-19 13-Mar-19 339 9 13-Mar-19 450 63 339 9 13-Mar-19 450 63 339 9 13-Mar-19 450 6333	20-Mar-19 20-Mar-19 20-Mar-19 275 52 130 0  20-Mar-19 379 52 46 41 20-Mar-19 1918 292 79 402 20-Mar-19 395	24196 4611 1600 6131 28-Mar-19 158 31 33 9 28-Mar-19 4106 488 5400 637 28-Mar-19 2755 882 920 1291 28-Mar-19 4884 1250 1600 1236	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53 28-Mar-19 700 125 182 83 28-Mar-19 1368 252 28-Mar-19 1368 252 231 135
E. coli Not to Exceed Fecal Coliform Not to Exceed Enterococcus Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EH\$ Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  GALILEE / NAPA Station #8  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  MARINEWAYS Station MW  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35	9 9 9 11-Sep-18 160 20 10 11-Sep-18 50 9 11-Sep-18 209 9 11-Sep-18 144 10 49 10 11-Sep-18 31	18-Sep-18  41  9  111  9  18-Sep-18  148  20  23  9  18-Sep-18  538  10  11  10  18-Sep-18  20  9  18-Sep-18  70  9  18-Sep-18  100  110  110  110  110  110  110	Single Sample 10,000 235 400 104 25-Sep-18 148 9 25-Sep-18 122 9 25-Sep-18 41 9 25-Sep-18 41 10 2 9 25-Sep-18 41 10 2 9 25-Sep-18 41 10 9 25-Sep-18 10 9 25-Sep-18 10 9 9 25-Sep-18	2-Oct-18 2-Oct-18 12033 3-41 2406 2-Oct-18 3654 253 350 178 2-Oct-18 3654 253 350 2-Oct-18 24196 4106 2400 4661 2-Oct-18 24196 3255	161 52 33 9 9-Oct-18 86 41 33 9 9-Oct-18 63 9 13 9 9-Oct-18 256 52 79 146 9-Oct-18 2359 2014 1600 31 9-Oct-18	1000 126 200 35  9-Oct-18  184 588 58 53  19-Oct-09 313 35 35 18  9-Oct-18 191 18 144 17  9-Oct-18 191 32 24 40  9-Oct-18 588 117 166 41  9-Oct-18	28-Feb  104  18  28-Feb  10  28-Feb  10  28-Feb  11  28-Feb  11  28-Feb  11  28-Feb  11  11  11  12  13  14  15  16  17  17  18  18  18  18  18  18  18  18	9 7-Mar-19 32 9208 30 717 31 189 35 1054 36 1600 31 189 35 1600 31 189 36 1600 31 189 37 -Mar-19 34 109 36 170 37 1014 38 109 38 00 39 7-Mar-19 30 170 30 180 30 17	VET SEASO  Single Sample 10,000 235 400 104 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 241 86 350 9 13-Mar-19 450 63 33 9 13-Mar-19 450 63 33 9 13-Mar-19 450 63 33 9	20-Mar-19 24196 1483 1600 697 20-Mar-19 275 52 130 0 20-Mar-19 379 379 52 46 41 20-Mar-19 1918 292 79 402 20-Mar-19 395 52	24196 4611 1600 6131 28-Mar-19 158 31 33 9 28-Mar-19 4106 488 540 637 28-Mar-19 2755 882 920 1291 28-Mar-19 4884 1250 1600 1236 28-Mar-19	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53 28-Mar-19 700 125 182 83 28-Mar-19 1368 225-2 231 135 28-Mar-19 911 140
E. coli Not to Exceed Fecal Coliform Not to Exceed Enterococcus Not to Exceed Enterococcus Not to Exceed  CLIPPER BASIN #1, Station CB1  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER BEACH Station #33 (EHS Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  SCHOONMAKER Station #32  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35  GALILEE / NAPA Station #8  Total Coliform 10,000 / 1000 E. coli 236 / 126 Fecal 400 / 200 Enterococcus 104 / 35  MARINEWAYS Station MW  Total Coliform 10,000 / 1000 E. coli 235 / 126 Fecal 400 / 200 Enterococcus 104 / 35	9 9 5 11-Sep-18 160 20 2 10 11-Sep-18 50 9 11-Sep-18 209 9 79 10 11-Sep-18 144 10 49 10 11-Sep-18 31	18-Sep-18  19  111  9  18-Sep-18  148  20  23  9  18-Sep-18  10  11  10  18-Sep-18  428  300  170  9  18-Sep-18  120	Single Sample 10,000 235 400 104 25-Sep-18 9 25-Sep-18 122 9 25-Sep-18 41 9 25-Sep-18 9 25-Sep-18 9 25-Sep-18 20 9 4 9 25-Sep-18	2-Oct-18 2-Oct-18 3654 2-Oct-18 3654 2-Oct-18 3654 2-Oct-18 3654 2-Oct-18 3664 2-Oct-18 3604 2-Oct-18 2-Oct-18 350 178 2-Oct-18 350 2-Oct-18 3255 2400	9-Oct-18 9-Oct-18 9-Oct-18 9-Oct-18 9-Oct-18 256 52 79 146 9-Oct-18 2359 2014 1600 31 9-Oct-18	1000 126 200 35  9-Oct-18  184 58 58 53  19-Oct-09 313 35 18  9-Oct-18 191 18 14 17  9-Oct-18 588 117 166 41  9-Oct-18 181	28-Feb 10 28-Feb 11 28-Feb 12 28-Feb 11 28-Feb 11 28-Feb 11 28-Feb 11 28-Feb	99 7-Mar-19 109 7-Mar-19 100 1600 133 188 199 7-Mar-19 105 1054 107 130 131 187 199 7-Mar-19 199 7-Mar-19 199 7-Mar-19 199 7-Mar-19 109 7-Mar-19	VET SEASO  Single Sample 10,000 235 400 104 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 13-Mar-19 241 86 350 9 13-Mar-19 450 63 33 9 13-Mar-19 450 63 33 9 13-Mar-19 450 63 33 9	20-Mar-19 20-Mar-19 20-Mar-19 275 52 130 0  20-Mar-19 379 52 46 41 20-Mar-19 1918 292 79 402 20-Mar-19 395	24196 4611 1600 6131 28-Mar-19 158 31 33 9 28-Mar-19 4106 488 5400 637 28-Mar-19 2755 882 920 1291 28-Mar-19 4884 1250 1600 1236	1000 126 200 35 28-Mar-19 15776 1535 1432 717 28-Mar-19 368 54 139 53 28-Mar-19 700 125 182 83 28-Mar-19 1368 252 28-Mar-19 1368 252 231 135

DRY SEASON

DRT SEASON								
		Single Sample						
Total Coliform Not To Exceed			10,000			1000		
E. coli Not to Exceed			235			126		
Fecal Coliform Not to Exceed			400			200		
Enterococcus Not to Exceed			104			35		
SAUSALITO YACHT HARBOR Station #5	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18		
Total Coliform 10,000 / 1000	20	20	10	4352	197	81		
E. coli 235 / 126	9	9	9	455	41	27		
Fecal 400 / 200	2	79	2	240	33	19		
Enterococcus 104 / 35	9	9	10	441	9	20		

SAUSALITO YACHT HARBOR Station #3	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18
Total Coliform 10,000 / 1000	211	31	10	1178	52	83
E. coli 235 / 126	31	10	9	231	10	23
Fecal 400 / 200	2	13	2	290	2	8
Enterococcus 104 / 35	9	9	9	262	9	18

CONTROL STATION DAYMARK #6 Station	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18
Total Coliform 10,000 / 1000	10	145	9	135	52	39
E. coli 235 / 126	9	20	9	20	9	12
Fecal 400 / 200	2	8	2	22	2	4
Enterococcus 104 / 35	9	9	9	63	10	14

BRIDGEWAY MARINA	11-Sep-18	18-Sep-18	25-Sep-18	2-Oct-18	9-Oct-18	9-Oct-18
Total Coliform 10,000 / 1000	9	74	20	7701	110	102
E. coli 235 / 126	9	10	9	882	9	23
Fecal 400 / 200	2	13	2	2400	13	17
Enterococcus 104 / 35	9	9	9	906	10	23

#### WET SEASON

	30 Day Geo Mean							
		10,000			1000			
		235			126			
		400			200			
		104			35			
28-Feb-19	7-Mar-19	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19			
1187	959	158	1019	132	475			
110	110 160 20 10 10							
79	70	23	220	17	54			
109	189	20	10	10	33			

28-Feb-19	7-Mar-19	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
650	464	75	355	520	334
63	52	20	63	31	42
49	46	5	33	13	21
122	63	9	75	10	35

28-Feb-19	7-Mar-19	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
1050	1086	228	31	181	271
109	121	20	20	10	35
79	240	79	23	280	99
96	171	31	9	9	33

28-Feb-19	7-Mar-19	13-Mar-19	20-Mar-19	28-Mar-19	28-Mar-19
1935	933	538	313	6131	1133
122	97	52	63	298	103
140	49	33	280	350	117
120	161	20	20	556	84

# Richardson Bay Regional Agency Vessel Survey Summary

March 15, 2019

#### Summary

One hundred and forty-six (146) vessels were observed in the county jurisdiction of Richardson's Bay during a 1- day survey on March 15, 2019. Richardson's Bay is divided into three zones – Zone 1, 2 and 3.

#### **ZONE DESCRIPTION - NUMBER OF VESSELS**

Zone 1 North of Channel Marker 8 - 55

Zone 2 Between Marker 8 and Marker 6 - 26

Zone 3 South of Marker 6 - 65

The vessel counts included 93 sailboats, 46 powerboats and 7 vessels that fit into the "other" category. This total does not include dinghies. Any vessel less than 12 feet in length was counted as a dinghy. There were sixty-one (61) dinghies observed. Twenty-nine (29) of these dinghies had engines. When a dinghy had a CF number the registration was captured in the notes section. Kayaks and rowboats were not included in this survey.

One hundred and five (105) vessels have a CF number, which could potentially mean they are registered with the State. Twenty-one (21) vessels have U.S. Coast Guard documentation. Twenty (20) vessels have no visible registration.

Following the March 15, 2019 survey, thirty-four (34) new vessels were added to the database. This brings the total number of vessels registered in the RBRA vessel survey (between February 2018 and March 2019) to three hundred and three (303) vessels.

Sixteen (16) vessels observed in County waters during the March 15, 2018 survey have been previously included in more than one of Sausalito's monthly surveys. Six vessels currently reside within the City of Belvedere waters.

## Notes

• If a vessel was tethered to another vessel, and was greater than 12 feet in length, a new record was created for that vessel. However, if a vessel tethered to another vessel was less than 12 feet in length, and was capable of operating with a motor, it was tallied in the number of tenders.