

NOTICE OF BOARD OF DIRECTORS' REGULAR BI-MONTHLY MEETING

MEETING DATE: 05-17-2022

TIME: Open Meeting begins at **7:30 p.m. (Public)**

LOCATION: This meeting will be held virtually pursuant to Government Code section 54953 e (Assembly Bill (AB) 361).

To participate online, go to <https://us06web.zoom.us/j/88134852296>. You can also participate by phone by calling **1-669-900-6833** and entering the **webinar ID#: 881 3485 2296**.

PARTICIPATION DURING MEETINGS: During the public comment periods, the public may comment by clicking the “raise hand” button on the bottom of the Zoom screen; if you are joining by phone and would like to comment, press *9 and we will call on you as appropriate.

EMAILED PUBLIC COMMENTS: You may submit your comments in advance of the meeting by emailing them to BoardComment@MarinWater.org. All emailed comments received by 3 p.m. on the day of the meeting will be provided to the Board of Directors prior to the meeting. All emails will be posted on our website. **(Please do not include personal information in your comment that you do not want published on our website such as phone numbers and home addresses.)**

AGENDA ITEMS	RECOMMENDATIONS
Call to Order and Roll Call* at 7:30 p.m.	
Adoption of Agenda	<i>Approve</i>
Public Comment - Items Not on the Agenda <i>(7:35 p.m. – Time Approximate)</i>	
Members of the public may comment on any items not listed on the agenda during this time. Comments will be limited to three (3) minutes per speaker, and time limits may be reduced by the board president to accommodate the number of speakers and ensure that the meeting is conducted in an efficient manner.	
Directors’ and General Manager’s Announcements & Committee Reports <i>(7:40 p.m. – Time Approximate)</i>	

AGENDA ITEMS**RECOMMENDATIONS****Consent Calendar (7:45 p.m. – Time Approximate)**

All matters listed on the consent calendar are considered to be routine and will be enacted by a single action of the Board, unless specific items are removed from the consent calendar by the Board during adoption of the agenda for separate discussion and action.

1. Minutes of the Board of Directors' Regular Bi-Monthly Meeting of May 3, 2022	<i>Approve</i>
2. General Manager's Report for April 2022	<i>Approve</i>
3. Resolution Awarding Contract No. 1965 for the First Phase of the Pine Mountain Tunnel Tanks Replacement Project to Maggiora and Ghilotti, Inc.	<i>Approve</i>
4. Contract No. 1938 Fuel Reduction and Restoration Contract Extension with Hanford Applied Restoration	<i>Approve</i>
5. Resolution Awarding Contract No. 1981 to Piazza Construction for Watershed Roads and Trails Maintenance	<i>Approve</i>
6. Second Amendment to Contract No. 1875 with West Coast Arborists, Inc. for Tree Maintenance	<i>Approve</i>
7. Request to Fill Distribution System Operator Supervisor Position	<i>Approve</i>
8. Request to Fill Seasonal Positions in the Watershed Department: Two (2) Water Quality Interns and Two (2) Watershed Aides for Ranger Support	<i>Approve</i>
9. FY 2023 Purchase of Water Treatment Chemicals	<i>Approve</i>
Regular Calendar (7:50 p.m. – Time Approximate)	
10. First Amendment to Contract No. 1902 with W.K. McLellan Co., Inc. for Asphalt Concrete Paving Restoration and Concrete Work (<i>Approximate time 15 minutes</i>)	<i>Approve</i>
11. Resolution Amending Contract No. 1966 with West Coast Pipe Linings, Inc. to Increase Pipe Quantities (<i>Approximate time 15 minutes</i>)	<i>Approve</i>
12. Wildfire Season Preparation Update (<i>Approximate time 20 minutes</i>)	<i>Information</i>

AGENDA ITEMS	RECOMMENDATIONS
13. Water Supply Update (Approximate time 15 minutes)	Information
14. Future Meeting Schedule and Agenda Items (Approximate time 5 minutes)	Information

Closed Session Items

Public Comment – Only on Items on the Closed Session

Comments will be limited to three (3) minutes per speaker, and time limits may be reduced by the board president to accommodate the number of speakers and ensure that the meeting is conducted in an efficient manner.

Convene to Closed Session (Only the Board of Directors and staff will participate) (Approximate time 30 minutes)

15. Conference with Legal Counsel – Anticipated Litigation (California Government Code Section §54956.9(d)(2))

Number of Cases: Two

Convene to Open Session

Closed Session Report Out

Adjournment (9:30 p.m. – Time Approximate)

ADA NOTICE AND HEARING IMPAIRED PROVISIONS:

In accordance with the Americans with Disabilities Act (ADA) and California Law, it is Marin Water's policy to offer its public programs, services, and meetings in a manner that is readily accessible to everyone, including those with disabilities. If you are an individual with a disability and require a copy of a public hearing notice, an agenda, and/or agenda packet in an appropriate alternative format, or if you require other accommodations, please contact Board Secretary Terrie Gillen at 415.945.1448, at least two days in advance of the meeting. Advance notification will enable the Marin Water to make reasonable arrangements to ensure accessibility.

INFORMATION AGENDAS ARE AVAILABLE FOR REVIEW AT THE CIVIC CENTER LIBRARY, CORTE MADERA LIBRARY, FAIRFAX LIBRARY, MILL VALLEY LIBRARY, MARIN WATER OFFICE, AND ON THE MARIN WATER WEBSITE (MARINWATER.ORG)

FUTURE BOARD MEETINGS:

- ❖ Friday, May 20, 2022
Operations Committee/Board of Directors (Operations) Meeting
9:30 a.m.
- ❖ Tuesday, May 24, 2022
Board of Directors' Special Meeting (Strategic Water Supply Assessment Working Session III)
5:00 p.m.
- ❖ Wednesday, May 25, 2022
Communications & Water Efficiency Committee (CWE)/Board of Directors (CWE) Special Meeting
9:30 a.m.
- ❖ Thursday, May 26, 2022
Finance & Administration Committee (FAC)/Board of Directors (FAC) Meeting
9:30 a.m.



Board Secretary



Approval Item

TITLE

Minutes of the Board of Directors' Regular Bi-Monthly Meeting of May 3, 2022

RECOMMENDATION

Approve the adoption of the minutes

SUMMARY

On May 3, 2022, the Board of Directors (Board) had its regular bi-monthly meeting. The minutes are attached.

DISCUSSION

None

FISCAL IMPACT

None

ATTACHMENT(S)

1. Minutes of the Board of Directors' Regular Bi-Monthly Meeting of May 3, 2022

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Communications & Public Affairs Department	 Terrie Gillen Board Secretary	 Ben Horenstein General Manager

**MARIN MUNICIPAL WATER DISTRICT
BOARD OF DIRECTORS**

MEETING MINUTES

Tuesday, May 3, 2022

Via teleconference
(In accordance with Assembly Bill 361)

DIRECTORS PRESENT: Cynthia Koehler, Monty Schmitt, Larry Bragman, Jack Gibson, and Larry Russell

DIRECTORS ABSENT: None

CALL TO ORDER AND ROLL CALL

President Russell called the meeting to order at 6:30 p.m.

ADOPTION OF AGENDA

On motion made by Director Bragman and seconded by Vice President Schmitt, the board adopted the agenda.

Ayes: Directors Koehler, Schmitt, Bragman, Gibson and Russell

Noes: None

There was no public comment on the adoption of the agenda.

PUBLIC COMMENT (ONLY ON CLOSED SESSION ITEMS)

There were no public comments.

CONVENE TO CLOSE SESSION

At 6:33 p.m., the Board of Directors convened to closed session.

CLOSED SESSION ITEM

Item 1 **Conference with Legal Counsel – Anticipated Litigation**
(California Government Code Section §54956.9)

Number of Cases: Unknown

CONVENE TO OPEN SESSION

The Board of Directors arrived at the open session at 7:37 p.m.

CLOSED SESSION REPORT OUT

Per President Russell, there were no reportable actions and the closed session ended at 7:30 p.m.

PUBLIC COMMENT – ITEMS NOT ON THE AGENDA

There were four (4) public comments.

Based upon one of the public comments, Director Russell and General Counsel Molly MacLean briefly discussed when it's appropriate to limit the time on public comments.

DIRECTORS' AND GENERAL MANAGER'S ANNOUNCEMENTS & COMMITTEE REPORTS

- Director Gibson reported that he attended the Sonoma Water Advisory Committee/Technical Advisory Committee (WAC/TAC) meeting and listened to a presentation from Jacobs Engineering Group.
- President Russell requested staff to reach out to Sonoma WAC to allow virtual attendance or streaming of the WAC meetings.
- Director Bragman announced that he attended the Marin Conservation League's 2022 Annual Meeting and was pleased to announce that Marin Water (District) staff from the Watershed Department received accolades for their management of the District's Fisheries Program.

CONSENT CALENDAR (ITEMS 2-4)

- | | |
|---------------|--|
| Item 2 | Minutes of the Board of Directors' Regular Bi-Monthly Meeting of April 19, 2022, and Special Meeting of April 26, 2022 |
| Item 3 | Amendment to Lease Agreement No. 75 between the Marin Municipal Water District and the United States Geological Survey |
| Item 4 | Resolution Allowing Continuation of Virtual Board and Committee Meetings Pursuant to Assembly Bill (AB) 361 (Resolution No. 8696) |

On motion made by Director Koehler and seconded by Director Gibson, the board adopted the Consent Calendar.

There were no public comments.

The following roll call vote was made.

Ayes: Directors Koehler, Schmitt, Bragman, Gibson and Russell
Noes: None

PUBLIC HEARING (ITEM 5)

Item 5 (1) Ordinance No. 460 Repealing Water Shortage Emergency Restrictions; (2) Ordinance No. 461 Amending Chapter 13.02 to Incorporate New Normal Year Conservation Requirements; and (3) A Resolution Rescinding the Water Shortage Emergency and Calling for Ongoing Water Conservation

Water Efficiency Manager Carrie Pollard highlighted recommended deactivation of the emergency restrictions and the incorporation of certain long-term changes to the District's Normal year conservation measures as proposed in ordinances 460 and 461. She also addressed the proposed transition from water shortage emergency to a call for ongoing conservation measures as set forth in the proposed resolution. Much discussion took place between the Board of Directors and with staff, particularly about water used for sewer flushing and pool coverings.

It was proposed by Director Koehler and General Counsel Molly MacLean that proposed Ordinance 461 be modified for clarity by relocated subsection (k) of Section 13.02.020 (1) to its own subsection (5). Moreover, some directors proposed revising Section 13.02.021(3) (C), Pool and Spa Covers.

President Russell opened the public hearing. There were seven (7) public comments, three (3) of which resprestnted local areasanitation districts raising concerns about the language of the proposed ordinance provision encouraging the use of recycled water for their sewer cleaning and proposing alternate language to exclude the need for hauling recycled water for this purpose.

After public comments, General Counsel MacLean guided deliberations as to possible revisions to the sewer cleaning and pool cover provisions.

On motion made by Director Bragman and seconded by Director Koehler, the board adopted Ordinance 461 with the changes that subsection K would be relocated to new subsection (5) and adding language providing "Sewer cleaning/flushing should be done using recycled water when available without hauling by truck and whenever reasonably possible", and further simplifying the language for Pool and Spa Covers to provide "All recreational pools and spas shall have covers, subject to the variance provisions as set forth in section 13.02.050."

The following roll call vote was made.

Ayes: Directors Koehler, Schmitt, Bragman, Gibson and Russell
Noes: None

On motion made by Director Gibson and seconded by Director Bragman, the board adopted Ordinance 460 (Repealing Water Shortage Emergency Restrictions).

The following roll call vote was made.

Ayes: Directors Koehler, Schmitt, Bragman, Gibson and Russell
Noes: None

On motion made by Director Gibson and seconded by Director Bragman, the board approved the resolution (Resolution No. 8697), which was Rescinding the Water Shortage Emergency and Calling for Ongoing Water Conservation.

The following roll call vote was made.

Ayes: Directors Koehler, Schmitt, Bragman, Gibson and Russell
Noes: None

REGULAR CALENDAR (ITEMS 6-7)

Item 6 Turf Incentive Program Modifications

Water Efficiency Manager Pollard also presented this item. The board and staff conferred on this matter, and the board requested that the staff to bring this item to the upcoming Communications & Water Efficiency Committee meeting for further consideration.

There was one (1) public comment.

No further discussion occurred.

Item 7 Future Meeting Schedule and Agenda Items

The board secretary reported on the upcoming internal and external meetings in the month of May. Director Gibson provided the correct time for the North Bay Watershed Association Meeting. Director Koehler requested that calendar requests for the upcoming Strategic Water Supply Assessment Working Sessions be sent to the board.

There were no public comments.

This being an informational item, the board did not take any formal action.

ADJOURNMENT

There being no further business, the regular Board of Directors' meeting of May 3, 2022, adjourned at approximately 9:21 p.m.

Board Secretary

Approval Item

TITLE

General Manager's Report April 2022

RECOMMENDATION

Approve Report

SUMMARY**A. HIGHLIGHTS:**

- Alpine dam external inspection performed with DSOD on 4/22 with no significant findings reported.
- Staff has continued communications with Marin County Public Works and State Parks regarding the Peacock Gap Recycled Water Transmission Line design alternatives effort. District staff will have additional meetings with the State Lands Commission and the Marin Project Coordination team early in May. The District is still on schedule for alternatives evaluation to be completed by the end of May, 2022.
- The migration of Nellen Data Center to Rancho Cordova co-location facility is near completion. Completed major migration over April 15 weekend of Citrix, internet, security infrastructure, and servers. Have moved over 80% of our servers and the remaining servers should be completed by mid-summer.
- The Water Supply Assessment Board Working Session was held on April 26 and a presentation was provided by the team that provided a detailed overview of the process. Areas of focus in the presentation included: high level goals that serve as guiding principles around water supply, water quality, sustainability and economics, overview of the model and how it will be used to help understand and evaluate the impacts of different water management alternatives, development of drought scenarios - how long and severe of a drought the District should be planning for, and description of the Water Management alternatives including – Marin-Sonoma partnership options, Interties, Water Re-use, desalination, expansion of local storage and demand management.

- District staff received the “Ted Wellman Water Award” from MCL for 25 years of fisheries collaboration

DISCUSSION

B. SUMMARY:

AF = Acre Feet

Mg/L = milligrams per liter

MPN = most probable number

MPY = mils per year

MG = million gallons

NTU = nephelometric turbidity units

1. Water Production:

	FY 2021/22		FY 2020/21	
	(million gallons)	(acre-feet)	(million gallons)	(acre-feet)
Potable				
Total production this FY	5,343	16,396	7,044	21,618
Monthly production, April	518	1,589	669	2,053
Daily average, April	17.26	52.96	22.30	68.45
Recycled				
Total production this FY	154.73	474.85	0.00	0.00
Monthly production, April	15.55	47.72	0.00	0.00
Daily average, April	0.52	1.59	0.00	0.00
Raw Water				
Total production this FY	30.00	92.07	45.15	138.56
Monthly production, April	2.38	7.30	3.92	12.03
Daily average, April	0.08	0.24	0.13	0.40
Imported Water				
Total imported this FY	2,154	6,611	2,014	6,181
Monthly imported, April	327	1,003	132	404
Reservoir Storage				
Total storage, April	23,510	72,151	13,118	40,258
Storage change during April	-141	-432	-1,039	-3,189
Stream Releases				
Total releases this FY	2,822	8,659	3,340	10,249
Monthly releases, April	430	1,319	386	1,184

2. <u>Precipitation:</u>	<u>FY 2021/22 (in.)</u>	<u>FY 2020/21 (in.)</u>
Alpine	47.22	23.52
Bon Tempe	43.64	19.20
Kent	44.11	20.97
Lagunitas *	48.92	20.62
Nicasio	28.35	13.60
Phoenix	49.36	18.66
Soulajule	32.52	13.84
* Average to date = 50.25 inches		

3. <u>Water Quality:</u>		
<u>Laboratory:</u>	<u>FY 2021/22</u>	<u>FY 2020/21</u>
Water Quality Complaints:		
Month of Record	19	10
Fiscal Year to Date	134	143
Water Quality Information Phone Calls:		
Month of Record	11	10
Fiscal Year to Date	111	122

The WQ lab ensured that the water supplied met or surpassed water quality regulations by collecting and analyzing 2,379 analyses on lakes, treatment plants and distribution system samples.

Mild steel corrosion rates averaged 1.80(0.34 – 3.86) MPY. The AWWA has recommended an operating level of <5 MPY with a goal of <1 MPY.

Complaint Flushing: No flushing events were performed for this month on record.

Tank Survey Program: 22 water storage tank sanitary surveys were performed during the month. 32.95 % planned survey program has been completed for calendar year 2022.

Disinfection Program: 5,100' of new pipeline was disinfected during the month. Performed chlorination's on 12 water storage tanks to ensure compliance with bacteriological water quality regulations.

Tank Water Quality Monitoring Program: Performed 37 water quality-monitoring events on storage tanks for various water quality parameters this month to help ensure compliance with bacteriological water quality regulations.

Summary:

The lab performed 22 sanitary tank surveys, treated 12 tanks for low chlorine, and checked an additional 37 tanks for low chlorine residual in April 2022.

4. Water Treatment:

<u>Treatment Results</u>	<u>San Geronimo</u>		<u>Bon Tempe</u>		<u>Ignacio</u>	
	Average	Monthly	Average	Monthly	Average	Monthly
		Goal		Goal		Goal
Turbidity (NTU)	0.06	≤ 0.10	0.04	≤ 0.10	0.04	≤ 0.10
Chlorine residual (mg/L)	2.71	2.75 *	2.52	2.50 *	2.83	2.75 *
Color (units)	1.0	≤ 15	0.3	≤ 15	0.3	≤ 15
pH (units)	7.9	7.8*	7.9	7.8*	8.1	8.1**

* Set monthly by Water Quality Lab

** pH to Ignacio is controlled by SCWA

5. Capital Improvement:

a. San Geronimo Treatment Plant Permanent Emergency Generator Project

Summary: This project involves the installation of emergency generators, electrical equipment, fuel storage tanks and site grading all within the community of Woodacre.

- Project Budget: \$5,375,600
- Monthly Activities: Generators and fuel tanks have been delivered to site. All concrete work will be finished by end of this week as well as the switchgear building structure. Wiring of generators and switch gear to take place in May/June. The Contractor plans to have the generators in manual mode by June 31, as per schedule. Project scheduled to be completed in June 2022.

b. Southern Marin Pipeline Replacement Project Phase II (D20022)

Summary: This project installed 530 feet of pipe to replace old, undersized fire flow deficient pipe in the City of Belvedere and Town of Tiburon.

- Project Budget: \$378,495.50
- Monthly Activities: All water and roadway paving infrastructure is complete. Only minor punchlist items remain, and project is approaching final payment and project closeout.

c. Fire Flow Improvement Program Ridge Road Pipeline Replacement Project (F21002)

Summary: This project involves installing 5,310 feet of old leak prone, fire flow deficient pipe in the Town of Tiburon.

- Project Budget: \$2,284,120
- Monthly Activities: All water pipeline mains are installed and have passed testing. The contractor is currently installing water services, and has completed approximately half of all the service installations. Estimated project completion is mid-June.

d. San Rafael 3rd Street Pipeline Replacement Project (D17026): This project involves installing approximately 10,530 linear feet of pipe and 54 water service laterals.

- Project Budget: \$4,512,603
- Monthly Activities: Completed main-lining activities along 3rd street between Lincoln and E Street. The contractor is beginning water main tie-ins, service transfers, and fire connections. The contractor plans to complete the majority of the work west of Lincoln Avenue before focusing on improvements east of Lincoln Avenue. Project completion anticipated September 2022.

e. Mill Valley East Blithedale Pipeline Replacement Project (D20021): This project involves installing 5,490 feet of pipe to replace 100-year old pipe in coordination with Mill Valley's road paving project

- Project Budget: \$3,154,237
- Monthly Activities: Water main has been installed between Camino Alto and Amicita Avenue and is currently under test. Bacteriological sample collection was performed May 4. Water main between Amicita Avenue and Elm Avenue (west) has been installed and the contractor is continuing in a westward direction. Overall project completion anticipated early September 2022.

6. Other:

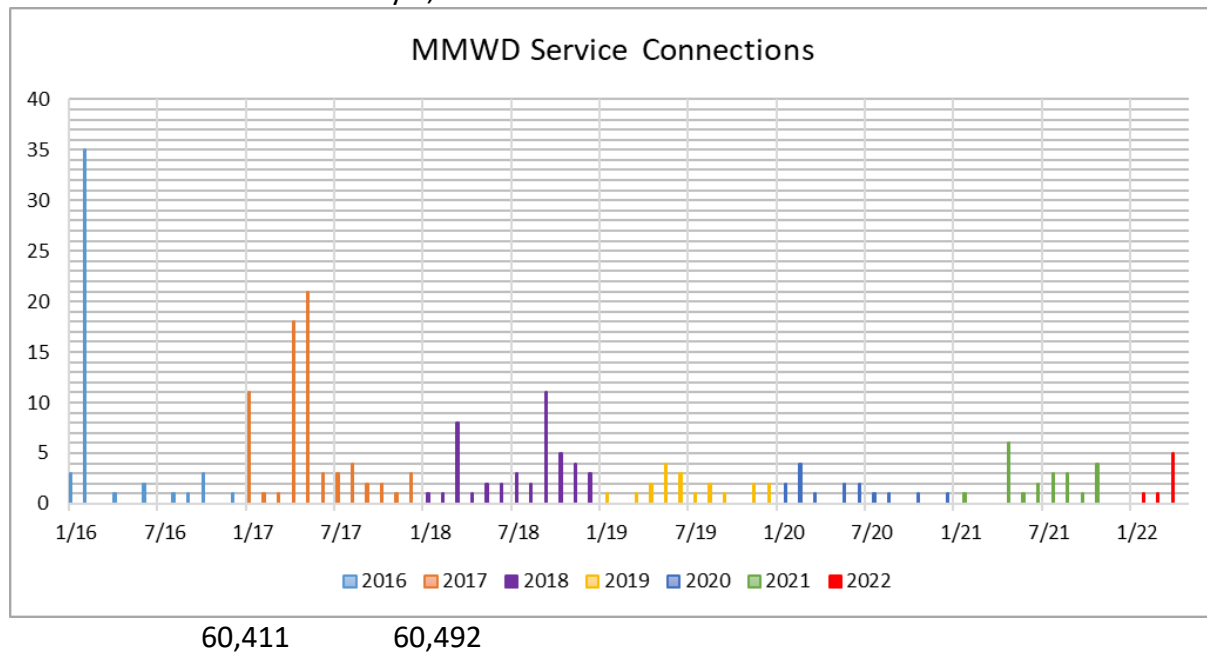
<u>Pipeline Installation</u>	<u>FY2021/22</u>	<u>FY2020/21</u>
Pipe installed during April (feet)	1,879	1,166

Total pipe installed this fiscal year (feet)	22,139	16,911
Total miles of pipeline within the District	908*	908*

* Reflects adjustment for abandoned pipelines

<u>Pipe Locates</u>	<u>FY2021/22</u>	<u>FY2020/21</u>
Month of April (feet)	22,333	65,183
Total this fiscal year (feet)	363,724	416,300
<u>Main Line Leaks Repaired:</u>	<u>FY2021/22</u>	<u>FY2020/21</u>
Month of April	7	9
Total this fiscal year	141	120
<u>Services:</u>	<u>FY2021/22</u>	<u>FY2020/21</u>
Service upgrades during April	8	21
Total service upgrades this FY	131	145
Service connections installed during April	0	6

Total active services as of May 1, 2022



7. Demand Management:

	Apr-22	FY 21/22 TOTAL	FY 20/21 TOTAL	FY 19/20 TOTAL
WATER-EFFICIENCY PROGRAMS				
Water-Use Site Surveys				
Conservation Assistance Program (CAP) Consultations				
Residential properties resi 1-2 (single-family)	29	667	117	127
Residential properties resi 3-5 (multi-family units)	2	6	5	30
Non-residential properties resi 6-7 (commercial)	1	1	5	3
Dedicated irrigation accounts resi 8-10 (large landscape)	0	2	6	-
Marin Master Gardeners' Marin-Friendly Garden Walks			0	
Residential garden walks	10	99	129	91
CYES Water/Energy Surveys			0	
Residential surveys (on hold due to pandemic)	0	0	0	86
Public Outreach and Education, Customer Service			0	
Public outreach events (number of people attending)	900	900	0	1,150
Public education events (number of participants)	150	160	0	-
Laundry-to-Landscape Graywater webinars (participants)	0	85	397	-
Customer calls/emails admin staff	590	8185	5738	2,230
School Education			0	
School assemblies			0	
Number of activities	0	0	0	15
Number of students reached	0	0	0	6,349
Field trips			0	
Number of activities	0	0	0	11
Number of students reached	0	0	0	91
Classroom presentations			0	
Number of activities	0	0	1	11
Number of students reached	0	0	22	305
Other (e.g. booth events, school gardens)			0	
Number of activities	0	0	0	-
Number of students reached	0	0	0	-
Incentives			0	
Number of HECWs approved	7	164	163	53
Number of Rain Barrel/Cisterns approved	1	71	19	4
"Landscape Your Lawn" Turf Replacements approved	24	354	6	
Number of Laundry-to-Landscape Systems approved	0	26	0	-
Hot water recirculating system rebates	7	115	0	
Pool Cover rebates	8	272	0	
HET rebates	20	82	214	850
Number of Smart Controllers rebates approved	7	52	85	12
Number of Smart Controllers "Flume Direct Distribution" redeemed	27	1508	1140	-
Number of Smart Controllers "Rachio Direct Distribution" approved	6	160	233	-
Advanced Metering Infrastructure (AMI)			0	
AMI leak letters sent to customers (>200 GPD)	82	835	1601	1,384
			0	
ORDINANCES			0	
Water Waste Prevention			0	
No. of properties reporting activity	51	4291	589	147
Landscape Plan Review			0	
Plans submitted	11	49	94	89
Plans exempt	0	1	4	5
Plans completed	0	11	19	23
Plans in workflow (pass & fail)	9	96	154	145
Tier 4 Exemption			0	
Inspections that resulted in a pass	0	0	1	1
Graywater Compliance Form			0	
Applications Received (as of Dec 2019)	8	41	106	39
Systems installed	1	11	7	11

8. Watershed Protection:

Ranger at the Right Place at the Right Time

A Ranger on foot patrol on Cataract Trail on Saturday April 30th was flagged down by hikers who reported their friend had injured her ankle. The Rangers provided medical care to the hiker and directed additional first responders to the scene. A carryout to the trailhead on Bolinas Road was performed and the patient was transferred to a waiting ambulance, which transported her to the hospital.



The April 30th carryout on Cataract Trail.

Rangers Foot and Bike Patrols for March

In addition to regular patrols, Rangers completed 118 miles of foot and bike patrols during the month. This allows Rangers to more effectively interact with watershed visitors and monitor areas not accessible to vehicles.



A Ranger discusses MMWD's dog regulations with a visitor on Cataract Trail on April 30th.

Incidents and Events	403
Visitor Assists	138
Warnings	98
Citations	73
Dam Check	26
Vandalism	16
Medical Aid	9
Assist Watershed Maintenance	6
Illegal Trail Work	4
Misc Call for Service	3
Assist: Other MMWD Work Group	3
Assist Outside Law Enforcement Agency	3
Preventative Search and Rescue	3
Search and Rescue	3
Suspicious Circumstance	3
Complaint: Illegal Bike Use	2
Assist Outside Agency	2
Theft	2
Closed Parking Due to Capacity Issues	1
Misc Law Enforcement Calls	1
Humane/Animal Call for Service	1
Illegal Fire	1
Dispute between Visitors	1
Citizen Complaint: Ebike use	1
Ranger Callout	1
Citizen Complaint: Misc.	1
Citizen Complaint: Swimming	1

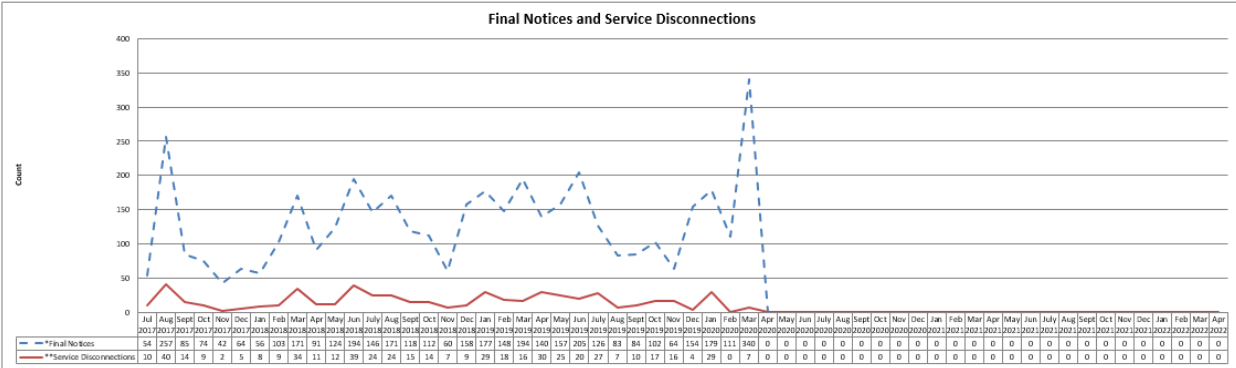
Citations	73
Non-Payment of Parking Fees	65
Parking with 6 ft. of Center/Obstruct Traffic	5
Bike on Trail	2
Parking After Sunset	1



9. Shutoff Notices and Disconnections:

Month	April 2022
Final Notices	0
Service Disconnections	0

* Includes 5 day, 10 day and final notices
**3/13/20 Suspended termination of water service for non-payment due to COVID- 19
*3/24/20 Suspended Late Fees and Final Notices



FISCAL IMPACT

None

ATTACHMENT(S)

None

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Office of the General Manager	<hr/> Ben Horenstein General Manager	 Ben Horenstein General Manager

Approval Item

TITLE

Award of Contract No. 1965, for the first phase of the Pine Mountain Tunnel Tanks Replacement Project (Project), to Maggiora and Ghilotti, Inc., to perform site clearing, excavation, grading, drainage improvements and construction of a soil nail wall in support of the District's Capital Improvement Program, on Marin Water Watershed

RECOMMENDATION

Approve a resolution awarding Contract No. 1965, for the first phase of the Pine Mountain Tunnel Tanks Replacement Project to Maggiora and Ghilotti, Inc.

SUMMARY

The Operations Committee reviewed this item on April 15, 2022, and referred it to a future Regular Bi-Monthly Meeting of the Board of Directors to proceed with the project.

On May 10, 2022, the District received and opened eight (8) bids for the Project to perform site clearing and grubbing, excavation of approximately 45,000 cubic yards of hillside, site grading, site drainage improvements and construction of a soil nail retaining wall. Maggiora and Ghilotti, Inc. submitted the lowest responsive and responsible bid in the amount of \$5,257,575. Therefore, staff recommends that the Board of Directors approve a resolution awarding Contract No. 1965 to Maggiora and Ghilotti, Inc. in the amount of \$5,257,575 and authorizing the General Manager to execute any necessary amendments to Contract No. 1965, which do not exceed \$1,128,000.

DISCUSSION

The Pine Mountain Tunnel Tanks Replacement Project is a multi-year two-phased project that will replace the existing Pine Mountain Tunnel. The Pine Mountain Tunnel is an 8,700-foot long tunnel built in 1919 to convey and treat water from Alpine Lake to San Rafael and the Ross Valley, now known as the Ross Valley System, which serves approximately 44,000 District customers or roughly 23% of the District's service area. Due to regulatory constraints, the District abandoned the tunnel as a conveyance system in 1971, but retained the tunnel to provide storage (approximately 3 million gallons) and surge protection. The tunnel is well beyond its useful life. The District is in continuous communication with the State Water Resources Control Board regarding the District's progress for the tunnel's replacement.

As part of the Water System Master Plan, the District and its consultant, Woodard & Curran (Consultant), conducted a focused evaluation of the storage needed to replace Pine Mountain Tunnel and support the larger Ross Valley system, including a detailed review of the previous studies and assumptions to improve storage capacity and reliability in the Ross Valley system. A sizing study for the Ross Valley system determined the appropriate sizing (estimated at 3 to 4

MG) for the storage needed to replace Pine Mountain Tunnel and elevations to achieve the District's standard criteria for pressure zone sizing. Project siting alternatives were developed, with sites including locations that were previously analyzed as well as new potential storage site locations. The preferred project location for a storage facility to replace Pine Mountain Tunnel that best meets the District's needs is at Concrete Pipe Road near drainage culvert No. 5, also known as "CP5". These results were presented to the Operations Committee on May 21, 2021.

As discussed at the May 21st Operations Committee meeting, the next step for the Pine Mountain Tunnel Tanks Replacement Project was to integrate the engineering design with the environmental review needed for the project by preparing the preliminary design of the project to the 30% design level. The preliminary design of the Project was completed by the Consultant which allowed Environmental Science Associates to prepare the Draft and Final Initial Study/Mitigated Negative Declaration (Final IS/MND) along with a Mitigation Monitoring and Reporting Program (MMRP) Consistent with requirements of the California Environmental Quality Act for the District to proceed with the Project. On December 14, 2021 the Board of Directors adopted the Final IS/MND for the Pine Mountain Tunnel Tanks Replacement Project.

On January 4, 2022, the Board of Directors authorized the General Manager to execute an amendment to the contract with Consultant for the final design package and bidding support services of the Project. The Consultant has completed the final design of the first phase of the Project and has supported staff with the advertisement of the first phase bid documents. The Consultant will now begin the final design of the second phase of the Project.

This first phase of Project construction includes clearing and grubbing of the site, installation of site drainage improvements, installation of guardrail along Sky Oaks Road, excavation of approximately 45,000 cubic yard of the tank site to rough tank pad grades including off-hauling and disposal of approximately 10,000 cubic yards of Phytophthora contaminated soil, and the construction of a soil nail retaining wall. The construction season for the Project is required to occur between August 1st through January 31st to protect the Northern Spotted Owl nesting season, which spans from February 1st through July 31st. Owl surveys will be performed to determine if work may extend beyond this construction season. Construction for this first phase is anticipated to span two construction seasons.

On May 10, 2022, the District received and opened eight (8) bids for the Project. Bid results are provided in the Bid Results table shown on the next page.

Bid Results
Pine Mountain Tunnel Tanks Replacement Project - Phase 1

Bid Rank	Contractor Name	Bid Amount
1.	Maggiora and Ghilotti Inc.	\$5,257,575
2.	Ghilotti Brothers Inc.	\$5,757,790
3.	Rege Construction, Inc.	\$6,193,388
4.	Ghilotti Construction Company Inc.	\$7,246,100
5.	CATS4U Inc.	Non-responsive
6.	CWS Construction Inc.	Non-responsive
7.	Michael Paul Co.	Non-responsive
8.	W.R. Forde Associates, Inc.	Non-responsive

Contract No: 1965

Project No: D21043

Engineer's Estimate: \$4,502,000

Maggiora and Ghilotti, Inc. submitted the lowest responsive and responsible bid. They hold a Class A – General Engineering License, License No. 226767, which is current and active and expires on 03/31/23. As required by State Law, Maggiora and Ghilotti, Inc. is registered with the California Department of Industrial Relations under PWCR Number 1000007991. Following contract award, District staff will register the Project with the California Department of Industrial Relations.

Summaries of the estimated Project costs and schedule are provided below.

Budget:

Contract Award:	\$5,257,575
Contingency:	\$1,128,000
Materials and Professional Fees:	\$500,000
District Labor/Inspection:	\$480,000
Escalate to Mid-Point of Construction*:	\$369,000
Total Budget:	\$7,734,575

* Assumed 5% annual escalation until mid-point of construction

Budgetary Category: A1A11

Project Implementation:

Project Advertisement:	April 5, 2022
Bid Opening:	May 10, 2022
Project Award:	May 17, 2022
Estimated Completion Date:	January 31, 2024
Duration:	624 days

ENVIRONMENTAL REVIEW

On December 14, 2021, the Board of Directors adopted the Final IS/MND for the Pine Mountain Tunnel Tanks Replacement Project and approved the project conditioned upon completion of the MMRP. Staff will assure compliance with the MMRP.

PUBLIC OUTREACH EFFORTS

The District's multi-step process for notifying customers about this Project began in 2021 when District staff initiated the public review period of the IS/MND and began discussion with the County of Marin. Further public outreach steps are described in the table below.

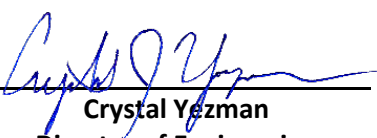

Department	Action
Engineering	Upon approval of the contract by the Board, send Project information letter with a map to all customers near the project area.
Public Information	Issue news release to local media (print and online outlets).
Public Information	Post on MMWD website.
Public Information	Post on MMWD Nextdoor page for affected neighborhoods.
Public Information	Send notice to Marin County and Town of Fairfax for posting on their website.
Engineering	Provide signage at Project site throughout construction period.

FISCAL IMPACT

The total cost to complete Phase 1 of the Pine Mountain Tanks Project is estimated at \$7,734,575. The District has also received \$1,000,000 in funding from Assembly Member Marc Levine's office in support of this project.

ATTACHMENTS

1. Proposed resolution
2. Site Map

DIVISION OR DEPARTMENT	DIVISION MANAGER	APPROVED
Engineering	 Crystal Yezman Director of Engineering	 Ben Horenstein General Manager

MARIN MUNICIPAL WATER DISTRICT

RESOLUTION NO.

**A RESOLUTION OF THE BOARD OF THE MARIN MUNICIPAL WATER DISTRICT
APPROVING AWARD OF CONSTRUCTION CONTRACT NO. 1965 TO MAGGIORA AND
GHILOTTI, INC. FOR THE FIRST PHASE OF THE CAPITAL IMPROVEMENT PROJECT PINE
MOUNTAIN TUNNEL TANKS REPLACEMENT PROJECT**

WHEREAS, on December 14, 2021, the Board of Directors adopted the Final Initial Study/Mitigated negative Declaration for the Pine Mountain Tunnel Tanks Replacement Project (Project) and approved the project conditioned upon completion of the Mitigation Monitoring and Reporting Program; and

WHEREAS, on April 5, 2022, the District advertised Contract No. 1965, for the first phase of the Pine Mountain Tunnel Tanks Replacement Project (D21043), which will involve site clearing and grubbing, excavation of approximately 45,000 cubic yards of hillside, site grading, site drainage improvements and construction of a soil nail retaining wall in preparation for the second phase of construction of the two (2) two million gallon Pine Mountain Tanks; and

WHEREAS, the District received and publicly opened eight (8) bids on May 10, 2022, of which Maggiora and Ghilotti, Inc. bid of \$5,257,575 was the lowest responsive and responsible bid.

NOW, THEREFORE, THE BOARD OF DIRECTORS RESOLVES that:

1. The bid of \$5,257,575 submitted by Maggiora and Ghilotti, Inc., for the first phase of the Pine Mountain Tunnel Tanks Replacement Project under Contract No. 1965 ("Contract") was the lowest responsive and responsible bid submitted therefor, and said bid is hereby accepted.
2. A Contract for the Project be awarded to said low bidder, and the General Manager is authorized and directed to execute said Contract on behalf of the District upon receipt of a performance bond, payment bond, proof of insurance, and the executed contract for the work from said bidder.
3. The General Manager is authorized to execute any and all future amendments to the Contract, which he deems necessary, without further Board approval, so long as those amendments to the Contract amount does not exceed \$1,128,000.

4. Upon complete execution of said Contract, the bonds and/or checks of the other bidders are to be returned to said other bidders, and all bids other than that of Maggiora and Ghilotti, Inc., are to be rejected.

PASSED AND ADOPTED this 17th day of May, 2022, by the following vote of the Board of Directors.

AYES:

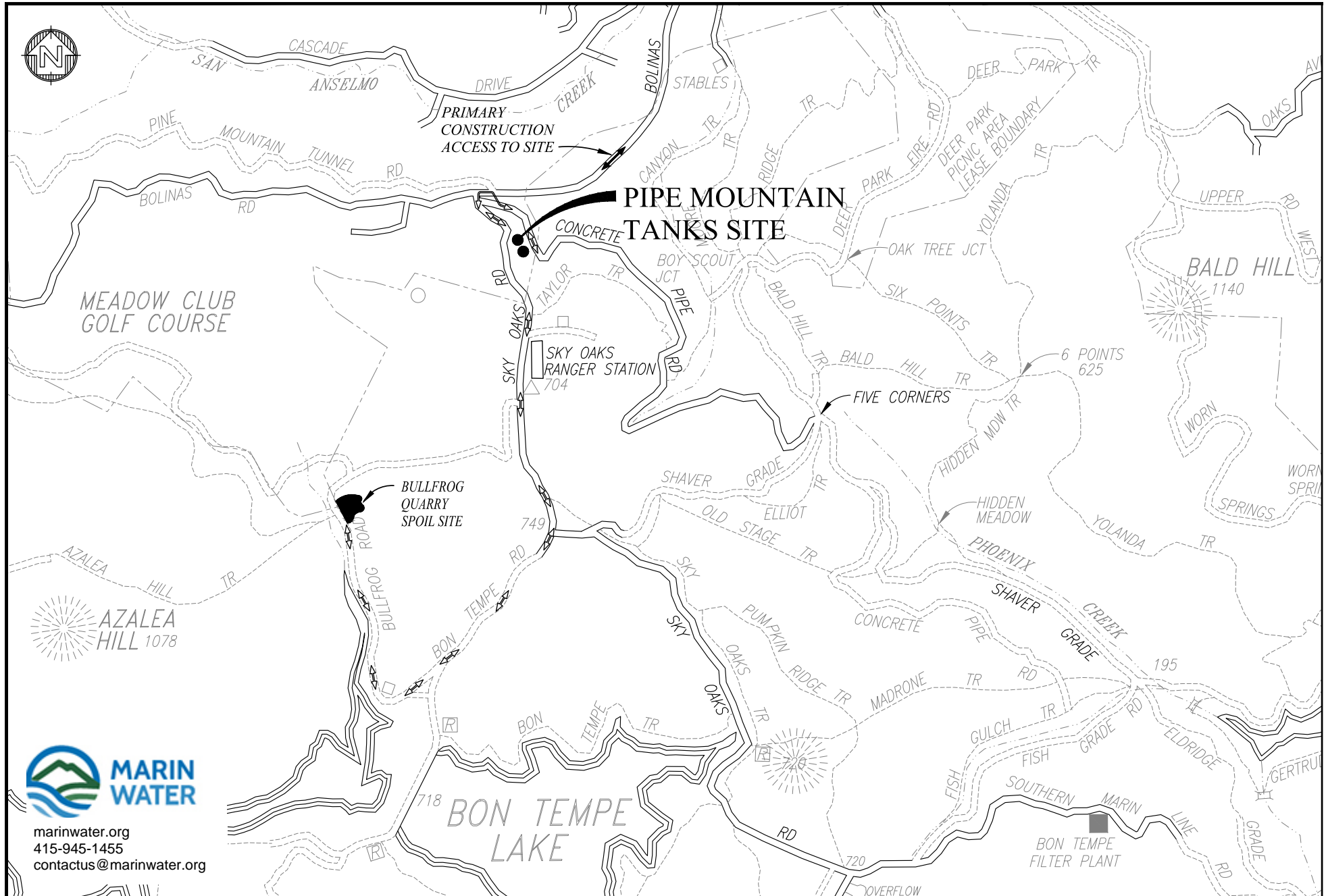
NOES:

ABSENT:

Larry L. Russell
President, Board of Directors

ATTEST:

Terrie Gillen
Board Secretary



Approval Item

TITLE

Contract No. 1938 Fuel Reduction and Restoration Contract Extension

RECOMMENDATION

Review and approve Contract No. 1938 extension to June 30, 2023

SUMMARY

On November 10, 2020, the District Board of Directors awarded Contract No. 1938 to Hanford Applied Restoration for Watershed Fuel Reduction and Restoration services. Per the terms of the contract the District is interested in exercising its option to extend the term of the contract for one additional year until June 30, 2023. Staff is requesting that the Board approve the extension and authorize the General Manager to execute the First Amendment to Contract No. 1938 to extend the contract term for one additional year, increase the bid quantities by 25%, increase the rates per the CPI, and reallocate labor and equipment in accordance with the District's Project needs and the contract rate sheet.

DISCUSSION

On September 28, 2020, the District released a notice inviting bidders to submit proposals for a two-year fuel reduction and restoration contract. The District received three (3) bids on October 23, 2020, and Hanford Applied Restoration was identified as the lowest qualified bidder. At the November 10, 2020 Board of Directors meeting the Board approved Resolution No. 8610, which awards Contract No. 1938 to Hanford Applied Restoration in the amount of \$1,399,875 for a two-year Fuel Reduction and Restoration contract with an option to extend services in one year increments for up to an additional two-years.

Over the past two-years, this contractor has assisted the District with the implementation of the District's Biodiversity, Fire, and Fuels Integrated Plan (BFFIP) to reduce wildfire hazards and to maintain and enhance ecosystem function on watershed lands. Vegetation management under the BFFIP aims to reduce fuel loads, maintain fuelbreak infrastructure, preserve defensible space, reduce invasive weed species and enhance biodiversity. Vegetation management is conducted continuously throughout the year with the chief goal of reducing fuel loads and maintaining the watershed's biological diversity.

The current contract expires in June of 2022. The District has an ongoing need for contractor support for forestry restoration work and this contractor has performed exceptionally well over the past two years. Staff proposes exercising The District's option to extend services for one additional year. Per Section 1.22 of Contract No. 1938, the contractor is allowed to escalate the unit prices in accordance with the San Francisco-Oakland-San Jose Consumer Price Index (CPI), which is 5.2%. Additionally, due to the District's intention to continue to scale up of vegetation

management work in FY 2023, District staff is interested in exercising its ability under the contract to increase the bid quantities set forth in the bid sheet by 25%. Furthermore, based on the work performed over the past two-years staff proposes a reallocation of labor to support ongoing project needs. The reallocation is consistent with the original bid unit prices, but reallocates the number of hours within identified work categories to better support the District's ongoing forestry restoration and fuel reduction work. For FY 2023, the not to exceed contract amount will be \$1,253,186, which will support critical forestry restoration and fuel reduction work on the watershed.



Staff is recommending that the Board approve the contract extension and authorize the General Manager to execute the First Amendment to Contract No. 1938 to extend the contract term for one additional year, increase the bid quantities by 25%, increase the rates per the CPI as provide for in the Contract, and reallocate labor in accordance with the bid rate sheet, with a total not to exceed amount of \$1,253,186.

FISCAL IMPACT

The contract amount for FY 23 would be \$1,253,186. Funds for this contract would be paid for out of the District BFFIP Capital funding and with grant funding from the California Department of Forestry and Fire Protection and California Coastal Conservancy.

ATTACHMENT(S)

1. Amendment No. 1 Contract No. 1938

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Watershed	 Shaun Horne Watershed Resources Manager	 Ben Horenstein General Manager

**AMENDMENT NO. 1 TO FUEL REDURCITON AND
RESTORATION CONTRACT BETWEEN MARIN
MUNICIPAL WATER DISTRICT and HANFORD ARC.
(CONTRACT NO. 1938)**

This Contract Amendment ("Amendment No. 1") is entered into by and between Marin Municipal Water District ("District") and Forster and Hanford ARC. ("Contractor"). For good and valuable consideration the receipt and adequacy of which is hereby acknowledged, the parties hereto agree as follows:

Section 1. Recitals:

- A. On November 10, 2020, the District and the Contractor entered into Contract No. 1938 for Fuel Reduction and Restoration ("Contract") for a period of two years, with an expiration date of June 30, 2022.
- B. The Contract contains an option for the District to extend the term in one year increments for up to an additional two years.
- C. At this time, the Parties desire to execute an amendment ("Amendment No. 1") to the Contract to extend the services of Contractor for an additional one-year term through June 30, 2023.

Section 2. Terms:

- A. Amendment to Contract: This Amendment No. 1 modifies the Contract. Except for the modifications contained herein, all the terms of the Contract shall apply.
- B. Terms:
 - 1. Special Provisions Part 1-General- Paragraph 1.5 entitled "CONTRACT COMPLETION DATE" is amended to read as follows:

This contract shall commence upon the execution of Amendment No. 1 and terminate on June 30, 2023 unless otherwise terminated pursuant to Article 46 of the standard specifications.
- C. Rates:
 - 1. The total quantity of work is to be increased by 25% per the contract terms.
 - 2. Section 01000-14 1.22 ESCALATION OF UNIT PRICE allows the Contractor to increase rates in each additional fiscal year of contract extension in accordance with the Consumer Price Index (CPI). Contract rates are hereby increased by 5.2% per the San Francisco-Oakland-San Jose the annual CPI. Contractor labor and equipment rates are hereby updated for the contract extension in accordance with Attachment A, Revised Rate and Work Allocation Schedule, attached to this Amendment No. 1 and mad part hereof.
 - 3. The District and Contractor hereby agree to reallocate the number of hours dedicated to the work in accordance with the schedule set forth in Attachment A
 - 4. The total not to exceed contract amount for Fiscal Year 2023 is \$1,253,186.

Executed by the parties as follows:

Hanford ARC.

Dated: _____

By: _____

Mark Cederborg, CEO

Marin Municipal Water District

Dated: _____

By: _____

Bennett Horenstein, General Manager

Attachments: Attachment A – revised rate and work allocation schedule

Attachment A – to Amendment No. 1

Proposed Extension/Escalated Rates 2022-2023

Heavy Equipment Operator	Hour	336	189.36	\$	63,624.96
Crew Supervisor	Hour	1632	120.98	\$	197,439.36
Sawyer	Hour	9055	103.62	\$	938,297.21
Laborer	Hour	0	86.26	\$	-
Skid Steer (min. 4 ton) w/mulching attachment, run time	Hour	336	139.92	\$	47,011.78
Chipper, run time	Hour	40	73.11	\$	2,924.56
Water Buffalo (min 300 gallon)	Hour	336	11.57	\$	3,888.19

TOTAL \$	1,253,186.06
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The amount of work to be done under this contract is represented by estimated quantities as set forth in the Amendment No. 2 Scope of Work. The estimated quantities on the Scope of Work represent Hanford and the District's best estimate of anticipated work. Actual quantities will be paid based on work performed and the associated labor and equipment rates.

Approval Item

TITLE

Award of Watershed Roads and Trails Contract No. 1981

RECOMMENDATION

Approve Resolution to Award Contract No. 1981 of Watershed Roads and Trails to Piazza Construction

SUMMARY

The District advertised Contract No. 1981 for Watershed Roads and Trail Maintenance on April 9, 2022 and set the bid closing date as April 28, 2021. The bid submitted by Piazza Construction in the amount of \$533,448 for the two-year contract period was identified as the lowest responsible and responsive bidder. Staff is requesting with the Operation Committee's referral that the Board of Directors award the two-year contract to Piazza Construction and authorize the General Manager to execute any and all future amendments to this contract deemed necessary, so long as they do not exceed 10% in total of the contract amount.

DISCUSSION

On April of 2005, the District adopted the Mt. Tamalpais Watershed Road and Trail Management Plan (RTMP), which describes the best management practices and environmental protection measures the District will implement to maintain watershed roads and trails. Under the RTMP the District conducts proactive maintenance of service roads to support emergency access and water infrastructure servicing. Similarly, the District conducts roads and trails repairs to support public access. The District utilizes a combination of staff, and contractors to carry out annual roads and trails maintenance activities. Currently, the District is working to repair approximately 100 watershed culverts, construct the Azalea Hill Trail Project, and conduct annual road and trail maintenance. These projects require heavy equipment operations, which exceed the capabilities of other contractors such as the California Conservation Corps who the District has historically used to support annual road and trail maintenance activities.

The District has used similar contractors over the years to support construction of retaining walls, culverts, pipeline replacements, fuelbreak maintenance, and forestry restoration work. This new Watershed Roads and Trail Maintenance contract will give the District contractor capacity to carry out proactive roads and trail maintenance, and will help with responding to seasonal road impacts that require repairs. In accordance with Section 1000, Paragraph 1.5 of the contract "The district has the option to extend this contract in one (1) year increments for an additional two years". If the contractor is meeting the District's expectations, then the District may annually exercise the option to extend the contract to continue work in subsequent years for a total contract term of up to four-years.

Staff is requesting with the Operation Committee's referral that the Board of Directors award the two-year contract to Piazza Construction and authorize the General Manager to execute any and all future amendments to this contract deemed necessary, so long as they do not exceed 10% in total of the contract amount.

Proposal Selection Process

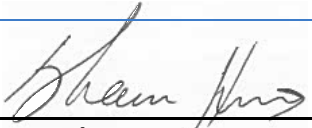

On April 9, 2022, the District released a notice inviting bidders to submit proposals for a two-year roads and trail maintenance contract. The notice was published in the local paper and posted on the District's external bid posting website to inform contractors of the opportunity. Sealed bids were received by the District on April 28th. The District received three (3) qualified bids for the contract. The bid submitted by Piazza Construction in the amount of \$533,448 for the two-year contract period was identified as the lowest responsible and responsive bidder.

FISCAL IMPACT

For FY 2022 and 2023 there is approximately \$200,000 in the Capital Budget A1E05 for watershed culvert repairs and service road maintenance. Additionally, for FY 2022/2023 the District has \$700,000 grant for implementation of the Azalea Hill Trail Project.

ATTACHMENT(S)

1. Resolution for Contract No. 1981 Award

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Watershed	 Shaun Horne Watershed Resources Manager	 Ben Horenstein General Manager

MARIN MUNICIPAL WATER DISTRICT

RESOLUTION NO. _____

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE MARIN MUNICIPAL WATER DISTRICT APPROVING CONTRACT NUMBER 1981 FOR WATERSHED ROADS AND TRAIL MAINTENANCE

WHEREAS, the District advertised Contract No. 1981 for Watershed Roads and Trail Maintenance on April 9, 2022; and

WHEREAS, the District received and publicly opened three bids on April 28, 2021, of which Piazza Construction was lowest responsible and responsive bidder.

NOW, THEREFORE, THE BOARD OF DIRECTORS RESOLVES that:

1. The bid of \$533,448 submitted by Piazza Construction for Watershed Roads and Trail Maintenance under Contract No. 1948 ("Contract") was the lowest responsive and responsible bid submitted therefor, and said bid is hereby accepted.
2. A Contract for this project shall be awarded to said low bidder, and the General Manager is authorized and directed to execute said Contract on behalf of the District upon receipt of a performance bond, payment bond, proof of insurance, and the executed contract for the work from said bidder.
3. The General Manager is authorized to execute any and all future amendments to the Contract, which he deems necessary, without further Board approval, so long as those amendments to the Contract do not exceed \$53,345.
4. Upon complete execution of said Contract, the bonds and/or checks of the other bidders are to be returned to said other bidders, and all bids other than that of Piazza Construction are to be rejected.
5. The project is covered by the Mt. Tamalpais Watershed Roads and Trail Environmental Impact Report (EIR) under Public Resources Code section 21000 *et seq.* and the Guidelines for Implementation of California Environmental Quality Act, California Code of Regulations Title 14, section 15000 *et seq.*

PASSED AND ADOPTED this 17th day of May, 2022, by the following vote of the Board of Directors.

AYES:

NOES:

ABSENT:

Larry Russell
President, Board of Directors

ATTEST:

Terrie Gillen
Board Secretary

Approval Item

TITLE

Second Amendment to Contract No. 1875 with West Coast Arborists, Inc. for Tree Maintenance

RECOMMENDATION

Approval by the Board of Directors authorizing the General Manager to execute the Second Amendment to Contract No. 1875 exercising an option to extend the contract term for one additional year, not to exceed \$251,568

SUMMARY

On May 1, 2018, the Board of Directors approved a three-year contract with West Coast Arborists for tree maintenance at various District sites and on watershed lands. The contract included options to extend the term of the contract in one (1) year increments for up to an additional two years.

On June 1, 2021, the Board of Directors approved an amendment exercising the first option of extending the contract for one additional year through June 30, 2022, with an amount not to exceed \$243,756. District staff feels that a further extension of the contract is in the best interest of the District.

DISCUSSION

In October of 2019, the District adopted the Biodiversity, Fire, and Fuels Integrated Plan (BFFIP) which outlines the actions the District will implement to reduce wildfire hazards and to maintain and enhance ecosystem function. Under the BFFIP there are 27 management actions that are being implemented to fulfill the goals and approach described in the BFFIP. Vegetation management under the BFFIP aims to reduce fuel loads, maintain fuelbreak infrastructure, preserve defensible space, reduce invasive weed species, manage hazardous trees and enhance biodiversity. Vegetation management is conducted continuously throughout the year with the primary goal of reducing fuel loads and maintaining the watershed's biological diversity. This contract will support the scaling up of fuel reduction work, forestry restoration, and hazardous tree management, which is necessary to reduce wildfire fuel issues and enhance native plants.

The Facilities Maintenance Department coordinates tree maintenance work at all tank and pump sites on an as-needed basis. A District arborist continually visits sites and assesses trees for disease and safety risk factors. The arborist is responsible for prioritizing pruning and removals of trees when needed. The District's goal is to remove all dead, diseased and hazardous trees as soon as they are identified to ensure public safety and reduce potential fire risks. Hazardous trees are also regularly inventoried by Watershed Maintenance Staff and prioritized based on proximity to critical facilities and the immediacy of the potential risk. The probability of a hazard tree impacting a target such as a building, power or communication line,

visitor use facility or road is evaluated during each inventory. Identified trees are most often structurally unsound and may be pest infested diseased, storm damaged, pose a fire risk or are otherwise in decline. These are often large diameter trees that require climbing, boom trucks and cranes to address.

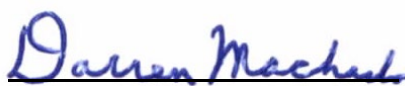

The current contract expires in June of 2022. The District has an ongoing need for contractor support for fuel reduction and hazardous tree work. Staff proposes exercising The District's option to extend services for one additional year. Per Section 1.22 of Contract No. 1875, the contractor is allowed to escalate the unit prices in accordance with the San Francisco-Oakland-San Jose Consumer Price Index (CPI), and is requesting a 3.2% increase to rates. Staff is recommending that the Board approve the contract extension and authorize the General Manager to execute the Second Amendment to Contract No. 1875 to extend the contract term for one additional year with a total not to exceed amount of \$251,568.

FISCAL IMPACT

Recognizing the risk of fire hazards from invasive species, forest disease, and climate change, the Board approved additional funding for vegetation management. Funding for the work under this contract is budgeted in the FY 2023 budget as an operating expenditure under the Facilities Maintenance Department (6230-6410). For vegetation management occurring on the watershed under the BFFIP for FY 2023 there is currently \$1,125,000 in the Capital Budget A1E07 to cover contractor costs.

ATTACHMENT(S)

1. Second Amendment to Contract No. 1875

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Operations	 Darren Machado Director of Operations	 Ben Horenstein General Manager

**AMENDMENT NO. 2 TO TREE MAINTENANCE
CONTRACT BETWEEN MARIN MUNICIPAL WATER
DISTRICT and WEST COAST ARBORISTS, INC.
(CONTRACT NO. 1875)**

This Contract Amendment ("Amendment No. 2") is entered into by and between Marin Municipal Water District ("District") and West Coast Arborists, Inc. ("Contractor"). For good and valuable consideration the receipt and adequacy of which is hereby acknowledged, the parties hereto agree as follows:

Section 1. Recitals:

- A. On May 1, 2018, the District and the Contractor entered into Contract No. 1875 for Tree Maintenance Services ("Contract") for a period of three years.
- B. The Contract contains an option for the District to extend the term in one year increments for up to an additional two years. On June 30, 2021, the initial three-year Contract expired.
- C. On June 1, 2021, the District Board of Directors authorized an amendment ("Amendment No. 1") extending the contract term for an additional one-year term. On June 30, 2022, this contract extension will expire.
- D. At this time, the Parties desire to execute an amendment ("Amendment No. 2") to the Contract to extend the services of Contractor for an additional one-year term through June 30, 2023.
- E. The Contract, as previously amended by Amendment No. 1, and this Amendment No. 2 shall collectively be referred to herein as "Agreement" and shall constitute the complete agreement of the Parties.

Section 2. Terms:

- A. Amendment to Contract: This Amendment No. 2 modifies the Contract, as previously amended by Amendment No. 1. Except for the modifications contained herein, all the terms of the Contract, as amended, shall remain in full force and effect.

- B. Terms:

- 1. Special Provisions Part 1-General-Paragraph 1.5 entitled "CONTRACT COMPLETION DATE" is amended to read as follows:

This Agreement shall continue through June 30, 2023 unless otherwise terminated pursuant to Article 46 of the standard specifications.

- 2. Contract rates are hereby increased by 3.2% in accordance with the San Francisco-Oakland-San Jose the annual CPI.

3. The unit pricing increase shall become effective as of July 1, 2022 and continue for the remainder of the term of this Agreement, as set forth in Attachment A, which is hereby incorporated by this reference. The total amount payable to Contractor under Amendment No. 2 shall not exceed \$251,568.

Executed by the parties as follows:

West Coast Arborists, Inc.

Dated: _____

By: _____

_____, President

Marin Municipal Water District

Dated: _____

By: _____

Bennett Horenstein, General Manager

Attachment A – July 1, 2022 Contract rate schedule

Attachment A

Marin MWD

Tree Maintenance Contract with West Coast Arborists, Inc.

2021-2022 Facilities Tree Maintenance

ITEM	DESCRIPTION	UNIT	2021-22	2022-23
			UNIT PRICE	UNIT PRICE
1	Normal tree Work	HR	\$ 322.65	\$ 333.00
2	Emergency Tree Work	HR	\$ 423.60	\$ 437.10
3	Flat bed truck w/ 7 to 10 ton Crane	HR	\$ -	
	Emergency	HR	\$ -	
4	22 ton crane	HR	\$ 98.85	\$ 102.00
	Emergency	HR	\$ 98.85	\$ 102.00
5	40 ton crane	HR	\$ 305.25	\$ 315.00
	Emergency	HR	\$ 305.25	\$ 315.00
6	Aerial Lift	HR	\$ -	
	Emergency	HR	\$ -	
7	Roll-off Dump & Tractor	HR	\$ -	
	Emergency	HR	\$ -	
8	Stump Grinding	HR	\$ 107.55	\$ 111.00

2021-2022 Watershed Tree Maintenance

ITEM	DESCRIPTION	UNIT	2021-22	2022-23
			UNIT PRICE	UNIT PRICE
1	Normal tree Work	HR	\$ 322.65	\$ 333.00
2	Emergency Tree Work	HR	\$ 423.60	\$ 437.10
3	Flat bed truck w/ 7 to 10 ton Crane	HR	\$ -	
	Emergency	HR	\$ -	
4	22 ton crane	HR	\$ 98.85	\$ 102.00
	Emergency	HR	\$ 98.85	\$ 102.00
5	40 ton crane	HR	\$ 305.25	\$ 315.00
	Emergency	HR	\$ 305.25	\$ 315.00
6	Aerial Lift	HR	\$ -	
	Emergency	HR	\$ -	
7	Roll-off Dump & Tractor	HR	\$ -	
	Emergency	HR	\$ -	
8	Stump Grinding	HR	\$ 107.55	\$ 111.00

The proposed rates for FY21-23 reflect a 3.2% increase based on the Consumer Price Index. Prices are rounded down for simplicity.

Approval Item

TITLE

Approval to Fill Distribution System Operator Supervisor Position

RECOMMENDATION

Authorize the General Manager to convert the Senior Distribution System Operator position to Distribution System Operator Supervisor and to recruit and hire one permanent Distribution System Operator Supervisor.

SUMMARY

The incumbent Senior Distribution System Operator is planning to retire in mid-June, 2022. This creates an opportunity to restructure the Distribution System Operator group and establish a more effective organizational structure that is typical of departments in the district and in the industry. This change also better positions the group in terms of succession planning and career development. Staff is requesting authorization for the General Manager to convert the Senior Distribution System Operator position to Distribution System Operator Supervisor and to recruit and hire one permanent Distribution System Operator Supervisor and any other subsequent positions that may become vacant as a result of this recruitment.

DISCUSSION


The Distribution System Operator group has six distribution operators and one senior distribution system operator all reporting to the Superintendent of Operations. The Senior Distribution System Operator performs distribution system operator duties and is responsible for scheduling, training, monitoring the work of the distribution operators and providing performance feedback in preparation of performance evaluations. The Senior Operator does not have any supervisory authority.

Converting the Senior Distribution System Operator to the Distribution System Operator Supervisor position will establish a more effective organizational structure and better position the operations group in terms of succession planning and career development. In addition to distribution system operator responsibilities, the Supervisor will be expected to participate in after hour on-call assignments and serve as a back up to the Superintendent of Operations. The position will include more complex job responsibilities related to water system operation such as shutdown planning and taking facilities out of service.

FISCAL IMPACT

The total annual salary with benefits for the Distribution System Operator Supervisor ranges from a minimum of \$142,755 to a maximum of \$173,502. Converting the Senior Distribution System Operator to the Distribution System Operator Supervisor position will increase the annual salary by \$9,396. Converting the position will not increase the total number of budgeted Full Time Equivalents (FTEs) within the Operations Division.

ATTACHMENT(S)
None

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Operations	 Darren Machado Director of Operations	 Ben Horenstein General Manager

Approval Item

TITLE

Approval to fill Intern and Watershed Aide positions

RECOMMENDATION

Authorize the General Manager to recruit and fill, 2 Interns and 2 Watershed Aide positions.

SUMMARY

During the summer months, the District typically hires Watershed Aides and Interns to support critical needs throughout the District.

For this summer, staff requests authorization for the General Manager to recruit and fill the following critical seasonal positions:



- 2 Water Quality Interns and
- 2 Watershed Aides (Ranger support)

FISCAL IMPACT

The cost to hire the seasonal employees is estimated at \$81,225 for FY 21/22. Funding for, interns and watershed aides was included in the FY 22/23 budget.

ATTACHMENT(S)

None

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Human Resources	 Vikkie Garay Human Resources Manager	 Ben Horenstein General Manager

Approval Item

TITLE

FY 2023 Purchase of Water Treatment Chemicals

RECOMMENDATION

Authorize the General Manager to finalize and execute agreements for the purchase of water treatment chemicals agreements in an amount not to exceed \$1,687,949.

SUMMARY

The District annually solicits competitive bids for the supply and delivery of five bulk water treatment chemicals needed to treat water at our treatment plants and the Ignacio Water Quality pump station. Four of the chemicals were bid through the Bay Area Chemical Consortium (BACC) and separately staff requested quotes for two other chemicals, Zinc Orthophosphate and Ferric Sulfate. The total estimated costs for the six main water treatment chemicals for fiscal year 2023 is \$1,687,949 representing a 19.5% percent increase over the prior year bids.

DISCUSSION

The District utilizes water treatment chemicals to treat water from our reservoirs and water imported from the Sonoma County Water Agency to ensure the water delivered to our customers meets all federal and state water quality requirements. These chemicals help remove sediment from the water, kill disease causing organisms, and reduce corrosion in the district's piping system as well as our customers' household piping, among other benefits.

The District participates in the Bay Area Chemical Consortium (BACC) to obtain bids for the supply and delivery of water treatment chemicals. The BACC is a collection of over 61 water and wastewater agencies around the greater San Francisco Bay Area ranging from Sacramento to Gilroy that work together to leverage their combined purchasing power and achieve better chemical pricing. The District obtains competitive quotes for chemicals (Zinc Orthophosphate and Ferric Sulfate) that are not available through the BACC.

The District issued a request for bid to suppliers that had previously provided Zinc Orthophosphate and did not receive any bids. Market uncertainty around the price of fuel and other raw materials has impacted the ability of the Zinc Orthophosphate manufacturers to provide a fixed price bid that covers the entire year. The District typically receives only four or five deliveries of Zinc Orthophosphate over the year and as such it is possible to meet our needs for this product by placing as needed spot orders at market prices. The current price for Zinc Orthophosphate is \$1,200 per ton and at these prices the annual cost of Zinc Orthophosphate will be approximately \$162,000/year.

In 2021 a shortage of Ferric Chloride resulted in the District changing coagulants to Ferric Sulfate. The previous several months experience with Ferric Sulfate has been positive with no impacts to the treatment processes or finished water quality. Bids received through the BACC for Ferric Chloride reflected a sixty eight percent (68%) cost increase over the past year. As a result staff investigated the potential savings from continuing to use Ferric Sulfate as the primary coagulant. Ferric Sulfate is not available through the BACC therefore the District issued a request for bid on March 14, 2022 and received two responses. Based on the lowest responsible bid for Ferric Sulfate, continuing to use Ferric Sulfate in lieu of Ferric Chloride would save the District approximately \$500,000 for FY 2023. The exact amount of savings will depend on the volume of water produced at the treatment plants. The bid and quotation results for each water treatment chemical is included in the table below.

Bid and Quotation Results for Furnishing Water Treatment Chemicals

July 1, 2022 – June 30, 2023

CHEMICAL	COMPANY	ESTIMATED QUANTITY	UNIT PRICE	TOTAL ESTIMATED COST
Aqua Ammonia	KAAM Co.	20,000 gal	\$4.27	\$85,400
Ferric Sulfate	Thatcher Co	1131 dry tons	\$541.75	\$612,719
Hydrofluorosilicic Acid	Pencoco	28,000 gal	\$2.35	\$65,800
Caustic Soda	Univar USA Inc.	546 dry tons	\$805.77	\$439,950
Sodium Hypochlorite	Univar USA Inc.	220,000 gal	\$1.464	\$322,080
Zinc Orthophosphate*	Brenntag Pacific	135 wet tons	\$1,200	\$162,000
Total Estimated Cost:				\$1,687,949

**Costs for Zinc Orthophosphate are based on current prices. Staff will obtain individual quotations for each delivery and unit pricing will vary.*

The total estimated cost of \$1,687,949 is 19.5% higher than the prior year bids. This price includes the estimated costs for Zinc Orthophosphate.

A brief review and explanation of water treatment chemicals (ferric sulfate, polymers, sodium hypochlorite, ammonia, caustic soda, zinc Orthophosphate, and fluoride) used by MMWD follows.

Specifications and Standards

In addition to the District's own requirements, standards published by the American Water Works Association are used in the purchase contract. Also, since 1994, California has required that all drinking water "direct additive" products be certified by a testing organization that is accredited by the American National Standards Institute (ANSI). The two major testing organizations are the National Sanitation Foundation (NSF International) and Underwriter's Laboratory (UL). These organizations provide independent quality control oversight to the producers of drinking water treatment chemicals.

Removal of Particulate Matter (Coagulation/Flocculation/Sedimentation)

All surface waters contain naturally-occurring suspended and dissolved matter such as clays, decayed organic matter, metal oxides, and minerals like silica. These particles are too small to be removed by gravity settling alone, partly due to the negative charge of the particles which helps keep them in suspension. The district adds a coagulant, typically Ferric Chloride or Ferric Sulfate, which acts to disrupt the natural particle charge so that dissolved matter comes out of solution to form particles and these particles and as well as suspended solids are attracted to each other to form larger particles. Flocculation is the process of applying mixing energy to the water containing the small particles to promote particles coming into contact with each other thereby enabling the formation of larger particle groups (called flocs). The floc particle groups are heavy enough to settle and be removed through sedimentation from the drinking water. Each of these processes (coagulation, flocculation and sedimentation) takes place in the large circular clarifiers at district treatment plants.

Polymers

To further control particle charge, and thereby improve the removal of particulates and filtration processes, polymers or polyelectrolytes may be added. Polymers are high molecular weight, long-chained organic compounds. Polymers that create a positive charge are referred to as cationic polymers, and those polymers that create a negative charge are referred to as anionic, and a third variety that provides an overall neutral charge are referred to as nonionic. Polymers added to enhance coagulation are referred to as a *coagulant aid* while those added to enhance filtration are called a *filter aid*.

Destruction of Disease Causing Organisms (Disinfectants)

Chlorine in the form of sodium hypochlorite (bleach) is used to inactivate disease causing bacteria, viruses, and, to some extent, protozoa. MMWD uses two forms of chlorine: free and combined.

Free chlorine is used as the primary disinfectant; with appropriate doses and contact time this strong disinfectant virtually eliminates the risk from bacteria, viruses, and most protozoa. The use of chlorine in water treatment is largely responsible for the near-elimination of waterborne disease in the U.S. However, free chlorine has some drawbacks such as limited ability to penetrate the thick walls of the *Cryptosporidium* oocyst, which can cause gastrointestinal

illness, has little effect on biofilm in the distribution system, creates disinfection by-products with regulatory limits and health concerns by reaction with naturally occurring matter in the water, has poor persistence, and imparts a chlorinous taste and smell to drinking water.

Combined chlorine or chloramine (chlorine combined with ammonia) is too slow-acting to use as a primary disinfectant but is an excellent secondary disinfectant. Chloramine doesn't create THMs or other chlorine by-products, has excellent persistence and ability to penetrate biofilm, and does not have a chlorinous taste or smell. Recent research has indicated that chloramine following chlorine disinfection can achieve significant inactivation of *Cryptosporidium*.

Free chlorine is used within the treatment plant where its strength and kinetic advantage is needed. Once primary disinfection has been achieved, the free chlorine is converted to chloramine before the water leaves the plant to provide a long-lasting disinfectant residual providing bacterial protection throughout the distribution system and results in better tasting water.

Corrosion Control (Caustic Soda & Zinc Orthophosphate)

Corrosion control is important in maintaining the longevity of the District's pipe network as well as consumer household piping and helps to maintain compliance with lead and copper water quality regulations. MMWD uses two chemicals to provide corrosion control to the water: pH adjustment using caustic soda (sodium hydroxide) and zinc Orthophosphate. The two chemicals have a synergistic effect that protects both the customers' and the District's piping without the scale build-up of other techniques. Corrosion control also minimizes the lead and copper that can leach from customers' soldered copper piping and brass faucets. MMWD has one of the lowest lead/copper corrosion rates in the Bay Area as measured by first-draw testing at customers' faucets. New and existing plumbing components still contain small amounts of lead, therefore the district's corrosion control program is critical to minimizing the amount of lead in drinking water.

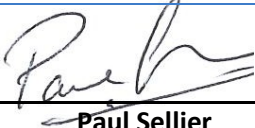

Fluoride

Fluoride in the form of hydrofluorosilicic acid is added to boost the naturally-occurring fluoride level (0.1 mg/L) to the optimum level for cavity prevention (0.7 mg/L). Fluoride addition was implemented following the passage of a voter initiative in 1972, which was reconfirmed by the District's voters in 1978. In California, legislation was enacted in 1995 which requires fluoridation after 1997 for all public water agencies serving populations over 10,000 if there is an external source of funding.

FISCAL IMPACT

The purchase of water treatment chemicals is essential to the production of safe drinking water. The total estimated cost for water treatment chemicals for FY 2023 is \$1,687,949 which includes an estimated annual cost for Zinc Orthophosphate. The total budgeted amount for water treatment chemicals is \$1,823,190 and is sufficient to cover the anticipated total annual water treatment chemical costs.

ATTACHMENT(S)
None

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Water Resources	 Paul Sellier Director of Water Resources	 Ben Horenstein General Manager

Approval Item

TITLE

First Amendment to Asphalt Concrete Paving Restoration and Concrete Work with W.K. McLellan Co. Inc., Contract No. 1902

RECOMMENDATION

Staff recommends that that Board approve the first amendment to Contract No. 1902 to:

1. Increase the original 3-yr contract amount by \$800,000 for a new total not to exceed amount of \$6,104, 040.50 under existing unit prices; and
2. Exercise the option to extend the contract for a fourth year (ending June 30, 2023) under new unit prices for an additional \$2,123,064.25, and approve a \$300,000 contingency for a total not to exceed in fiscal year 2023 of \$2,423,064.25.

SUMMARY

On May 17, 2019, Marin Water, by Resolution No. 8535, awarded Contract No. 1902 to W.K. McLellan Co., Inc. for Asphalt Concrete Restoration and Concrete Work at various sites throughout Marin County. The contract term covered a 36-month period commencing July 1, 2019 and ending June 30, 2022, and contained two options for the District to extend the contract for a fourth and fifth year.

Contract No. 1902 with W.K. McLellan Co., Inc. included a not to exceed total contract amount of \$5,304,040.50 for all three fiscal years. However, this total contract cost is dependent on various District activities including planned maintenance, service requests, and unplanned events such as water leaks and main breaks.

Due to this variability in scope of work and the uncertainty around unplanned events, the total contract price is subject to exceed the initial authorized contract amount. For example, the first year of Contract No. 1902 (ending June 30 2020) exceeded annual estimated expenditures by approximately \$200,000. For fiscal year 2022 (ending June 30, 2022), staff estimates that annual expenditures will exceed \$600,000 beyond original estimates.

Staff is recommending that the Board approve the first amendment increasing the total contract amount for the first three years by \$800,000 to a new not to exceed amount of \$6,104,040.25 under existing contract unit prices described in the original contract bid sheet schedule in order to cover these additional expenditures.

Additionally, Staff is recommending that the Board exercise the option to extend the contract for a fourth year (ending June 30, 2023) under new unit prices for a total of \$2,123,064.25, and approve a \$300,000 contingency for a total not to exceed amount for fiscal year 2023 of \$2,423,064.25.

DISCUSSION

The daily maintenance activities of the District's crews require excavations in asphalt and concrete. The different cities and county of Marin require that the sites to be restored to a condition that meets their restoration standards upon completion of work. This restoration work is critical as local jurisdictions are emphasizing the importance of maintaining and improving the conditions of roadway infrastructure.

In addition to city and county requirements, the District understands the importance of final restoration to our consumer's neighborhoods. While we make every effort to limit the impacts of our work, it can be disruptive to a neighborhood. The road restoration work is usually the final phase after our work has been completed. The goal is to leave as little of an impact as possible, restoring the area to an acceptable level for our consumers.

District crews excavate hundreds of holes each year to improve and maintain our water system. For example, since this contract was executed in May 2019, the District has performed over 1,100 repairs or improvements to our water distribution system. The costs associated with pavement restoration work after these improvements or repairs can vary significantly depending on the size of the area affected and the current condition of the road. The table below lists 8 examples of roadway restoration costs associated with District water main repair or maintenance activities.

Work Order #	Address	Invoice Date	Street Restoration Costs:
507693	Civic Center at Armory, Larkspur	7/19/2021	\$68,861.30
508313	213 Belvedere Drive, Mill Valley	9/16/2021	\$152,943.35
510321	1070 Las Gallinas Avenue, San Rafael	1/6/2022	\$54,313.26
510211	62 El Camino Drive, Corte Madera	3/14/2022	\$24,139.50
510249	11 Terrace, Kentfield	4/18/2022	\$38,416.29
510154	Larkspur Landing Circle, Larkspur	4/19/2022	\$32,292.27
511011	245 San Anselmo Ave, San Anselmo	4/19/2022	\$62,283.00
511257	312 Arias Street, San Rafael	4/28/2022	\$31,279.66
		Total:	\$464,528.63

Proposed \$800,000 Increase to Existing Contract

The request to increase the total contract amount of \$5,304,040.50 by \$800,000 for the original 3-yr contract term addresses the increased workload the District accomplished in fiscal years 2020 through 2022, and the increase in average pavement restoration costs. The data below represents the majority of W.K. McLellan's invoicing through March 2022. Each invoice represents one pavement repair project performed at a single location.

	FY20 (thru June 30, 2020)	FY21 (thru June 30, 2021)	FY22 to Date (thru March 2022)
Total funds spent per FY:	\$1,784,862.65	\$1,780,621.43	\$1,870,119.84
Total invoices per FY:	363	352	330
Average no. invoices per month:	30	29	37
Average invoice total:	\$4,903.47	\$5,058.58	\$5,667.03
Average funds spent per month:	\$148,738.55	\$148,385.12	\$207,791.09

The invoicing shown in FY22 is provided through March 2022. The table below estimates three additional months of invoicing for the remainder of FY22 (April, May and June).

Current total Invoices (through March 2022):	330
Total additional invoices projected through FY22 (based on 37 invoices per month):	111
Additional cost projected through FY22 (111 invoices X \$5,667.03/invoice):	\$629,040.33
Existing contract balance (<i>over</i>):	-\$139,119.84
Total additional funds needed for FY22:	\$768,160.17
Total projected number invoices for FY22:	441

Fiscal year 2020 went over anticipated annual expenditures by \$174,801.40, requiring a budget transfer of \$200K from funds previously budgeted in the contract for FY22. This transfer did not alter the total contract amount of \$5,304,040.50, which has remained unchanged during the life of the contract. The \$800,000 increase, if approved, will increase the 3-year total contract amount to \$6,104,040.50.

There are several reasons (itemized below) that contributed to a need for additional funds to the existing contract. Foremost, the District accomplished a significantly higher number of

projects during FY22 than in FY20 and FY21. Additionally, the average cost per invoice has increased signifying that the work per invoice is increasing. The list below identifies the reasons why the existing contract needs additional funds.

- Average number of invoices has risen from 29/month (FY21) to 37/month (FY22).
- Average invoice cost has risen from \$5,058.58/invoice (FY21) to \$5,667.03 (FY22) or about 12%.
- The District has had several restorations on private property requiring special concrete mixes, unique hardscape materials, which have increased cost.
- The District has had several large main breaks this year, which can significantly increase street restoration costs.

Proposed Extension of Existing Contract to FY23

New contract unit pricing provided by W.K. McLellan Co., Inc. for FY23 represents a 10% increase in bid items associated with asphalt, concrete driveways, sidewalks, and various street work. The contractor also increased their unit price for concrete curb and gutter by \$15.00 per linear foot (or 19% higher than FY22). With the exception of concrete curb and gutter (bid item 13) the 10% increase in bid item prices has followed the same price increase observed over the last three fiscal years. Staff have determined that the proposed price increase aligns with our expectations. Some of the reasons that contribute to the price increase are as follows.

- Stringent county of Marin Uniform Construction Standards for paving
- More stringent city/county permit requirements and traffic controls
- Increase in price of crude oil
- Other inflationary costs

FISCAL IMPACT



Funding for this contract will come from the Operating and Capital budget under various projects for FY 2022/23.

The table below breaks down actual costs incurred to date on Contract No. 1902, which includes a projection of total costs through FY22 as well as the estimated cost through FY23, should the Board approve this item.

Fiscal Year	Original Contract Amount (\$)	Contingency (\$)	Exceeded Estimate (\$)	Contract Totals (\$)
FY 2020	\$1,610,061.25	\$0	\$200,000	\$1,810,061.25
FY 2021	\$1,762,969.25	\$0		\$1,762,969.25
FY 2022 (est)	\$1,931,010.00	\$0	\$600,000	\$2,531,010.00
FY 2023 (est)	\$2,123,064.25	\$300,000		\$2,423,064.25

ATTACHMENT(S)

- 1. FY 2023 Bid Extensions for Contract No. 1902
- 2. Amendment No. 1 to Contract No. 1902

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Engineering	 Crystal Yezman Director of Engineering	 Ben Horenstein General Manager

BIDDING SHEET SCHEDULE

				FY23					
BID ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
ASPHALT RESTORATION WORK									
1	EXCAVATE/GRIND, PRIME AND RESURFACE 2-INCH GRIND AND PAVE COMPLETE IN PLACE								
A	Area between 0-999 square feet	S.F.	6,000	17.30	103,800.				
B	Area between 1,000 - 2,499 square feet	S.F.	8,000	17.30	138,400.				
C	Area between 2,500 square feet or more	S.F.	4,000	15.97	63,880.				
2	EXCAVATE/GRIND, PRIME AND RESURFACE WITH 2-INCH ASPHALT CONCRETE PLUG COMPLETE IN PLACE								
A	Area between 0-29 square feet	S.F.	1,000	17.30	17,300.				
B	Area between 30-99 square feet	S.F.	1,000	17.30	17,300.				
C	Area between 100-499 square feet	S.F.	1,000	17.30	17,300.				
D	Area 500 square feet or more	S.F.	2,000	17.30	34,600.				
3	EXCAVATE/GRIND, PRIME AND RESURFACE WITH 4-INCH ASPHALT CONCRETE COMPLETE IN PLACE								
A	Area between 0-29 square feet	S.F.	6,000	21.16	126,960				
B	Area between 30-99 square feet	S.F.	10,000	21.16	211,600.				
C	Area between 100-499 square feet	S.F.	4,000	20.80	83,200.				
D	Area 500 square feet or more	S.F.	5,000	20.44	102,200.				
4	EXCAVATE/GRIND, PRIME AND RESURFACE WITH 6-INCH ASPHALT CONCRETE COMPLETE IN PLACE								
A	Area between 0-29 square feet	S.F.	2,000	26.39	52,780.				
B	Area between 30-99 square feet	S.F.	2,000	26.03	52,060.				
C	Area between 100-499 square feet	S.F.	2,000	25.66	51,320.				
D	Area 500 square feet or more	S.F.	5,000	25.29	126,450.				

BIDDING SHEET SCHEDULE

				FY23					
BID ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
5	EXCAVATE/GRIND, PRIME AND RESURFACE WITH 8-INCH ASPHALT CONCRETE COMPLETE IN PLACE								
A	Area between 0-29 square feet	S.F.	1,000	35.13	35,130.				
B	Area between 30-99 square feet	S.F.	3,000	35.13	105,390.				
C	Area between 100-499 square feet	S.F.	1,000	35.13	35,130.				
D	Area 500 square feet or more	S.F.	1,000	35.13	35,130.				
6	EXCAVATE/GRIND, PRIME AND RESURFACE WITH 10-INCH ASPHALT CONCRETE COMPLETE IN PLACE								
A	Area between 0-100 square feet	S.F.	75	41.47	3110.25				
B	Area between 100-499 square feet	S.F.	200	41.47	8294.				
C	Area 500 square feet or more	S.F.	500	41.47	20735.				
7	EXCAVATE/GRIND, PRIME AND RESURFACE WITH 12- INCH ASPHALT CONCRETE COMPLETE IN PLACE								
A	Area between 0-100 square feet	S.F.	500	46.32	23,160.				
B	Area between 100-499 square feet	S.F.	500	46.32	23,160.				
C	Area 500 square feet or more	S.F.	500	46.32	23,160.				
8	INSTALL 6-INCH ASPHALT CONCRETE BERM COMPLETE IN PLACE								
A	500 linear feet	L.F.	1,000	33.00	33,000.				
9	EXCAVATE/GRIND, PRIME AND RESURFACE WITH 7-INCH ALTERNATE DEEPLIFT ASPHALT CONCRETE PER COUNTY UNIFORM CONSTRUCTION STANDARDS COMPLETE IN PLACE								
A	Area between 0-29 square feet	S.F.	1,000	26.39	26,390.				
B	Area between 30-99 square feet	S.F.	2,000	26.39	52,780.				
C	Area between 100-499 square feet	S.F.	2,000	26.39	52,780.				
D	Area 500 square feet or more	S.F.	3,000	26.39	79,170.				
SUBTOTAL ASPHALT RESTORATION WORK				1,755,669.25					

BIDDING SHEET SCHEDULE

				FY23					
BID ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
CONCRETE REPAIR WORK									
10	4-INCH THICK CONCRETE SIDEWALK/DRIVEWAY COMPLETE IN PLACE								
A	Area between 1-20 square feet (300 locations)	S.F.	500	35.38	17,690.				
B	Area between 21-50 square feet (100 locations)	S.F.	1,000	35.38	35,380.				
C	Area 51 square feet or more (4 locations)	S.F.	250	35.38	8,845.				
11	6-INCH THICK CONCRETE SIDEWALK/DRIVEWAY COMPLETE IN PLACE								
A	Area between 1-20 square feet (60 locations)	S.F.	500	48.05	24,025.				
B	Area 21 square feet or more (6 locations)	S.F.	250	48.05	12,012.5				
12	8-INCH THICK CONCRETE STREET WORK COMPLETE IN PLACE								
A	Area between 1-20 square feet (10 locations)	S.F.	150	61.79	9,268.5				
B	Area 21 square feet or more (10 locations)	S.F.	100	61.79	6,179.				
13	CONCRETE CURB AND GUTTER COMPLETE IN PLACE								
A	Area between 1-10 linear feet (60 locations)	L.F.	250	93.65	23,412.5				
B	Area 10 linear feet or more (30 locations)	L.F.	150	93.65	14,047.5				
14	SET/RESET METER BOXES WITH BID ITEMS: 10 AND 11								
A	3/4-INCH (Christy B9) and 1-INCH (Christy B16) Meter Boxes	EA	20	22.00	440.				
B	1-1/2-INCH (Christy B30) and Larger Meter Boxes	EA	10	22.00	220.				
SUBTOTAL CONCRETE REPAIR WORK				151,620.					

Asphalt Concrete Paving Restoration and Concrete Work
Contract No. 1902

BIDDING SHEET SCHEDULE

				FY23					
BID ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
GRIND TEE-CUT									
15	2-INCH GRIND TEE-CUT WITH 2-INCH ASPHALT CONCRETE FINAL LIFT OVER BID ITEMS: 2, 3, 4, 5, 6 AND 7								
A	Area between 0-29 square feet	S.F.	2,500	17.30	43,250.				
B	Area between 30-99 square feet	S.F.	3,000	17.30	51,900.				
C	Area between 100-499 square feet	S.F.	3,000	17.30	51,900.				
D	Area 500 square feet or more	S.F.	1,000	17.30	17,300.				
SUBTOTAL GRIND TEE-CUT				164,350.					
				FY23					
BID ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
CONTROLLED DENSITY FILL									
16	EXCAVATE/GRIND AND INSTALL WITH CONTROLLED DENSITY FILL								
A	Area between 0-27 cubic feet	C.F.	50	115.50	5,775.				
B	Area between 28-162 cubic feet	C.F.	50	82.50	4,125.				
C	Area 163 cubic feet or more	C.F.	50	82.50	4,125.				
SUBTOTAL CONTROLLED DENSITY FILL				14,025.					
				FY23					
BID ITEM	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE	UNIT PRICE	EXTENDED PRICE
SLURRY SEAL									
17	PLACEMENT OF SLURRY SEAL COMPLETE IN PLACE								
A	Area between 0-999 square feet	S.F.	1,500	LS	11,500.				
B	Area between 1,000 - 2,499 square feet	S.F.	2,500	LS	12,500				
C	Area between 2,500 square feet or more	S.F.	3,000	LS	13,500.				
SUBTOTAL SLURRY SEAL				37,500.					

Asphalt Concrete Paving Restoration and Concrete Work
Contract No. 1902

BIDDING SHEET SCHEDULE

	FY23		
SUBTOTAL ASPHALT RESTORATION WORK	1,755,669.25		
SUBTOTAL CONCRETE REPAIR WORK	151,520.		
SUBTOTAL GRIND TEE-CUT	164,350.00		
SUBTOTAL CONTROLLED DENSITY FILL	14,025.00		
SUBTOTAL SLURRY SEAL	37,500.00		
GRAND TOTAL PER FISCAL YEAR	2,123,064.25		
CONTRACT GRAND TOTAL	2,123,064.25		

The District reserves the right to reject any or all bids. The contract will be awarded to the lowest responsible bidder as determined by the District. The contract shall be awarded to only one contractor for all the work described in the bid items.

In the event of a discrepancy between the unit price and the total amount, the unit price shall be used.

Note: Upon notification to proceed, all work is to commence within **thirty (30)** calendar days and continue to completion.

SIGNATURE

COMPANY

ADDRESS

CITY/STATE/ZIP

TELEPHONE NUMBER

DATE

FIRST AMENDMENT TO
CONTRACT NO. 1902 BETWEEN
MARIN MUNICIPAL WATER DISTRICT AND W.K. MCLLAN CO., INC.

This First Amendment to Contract No. 1902 ("First Amendment") is entered into by and between Marin Municipal Water District ("District") and W.K. McLellan Co., Inc. ("Contractor").

For good and valuable consideration the receipt and adequacy of which is hereby acknowledged, the parties hereto agree as follows:

Section 1. Recitals:

- A. On May 17, 2019, the District and the Contractor entered into Contract No. 1902 for Asphalt Concrete Paving Restoration and Concrete Work ("Contract") for a term of three years, which expires on June 30, 2022.
- B. The parties desire to enter into an amendment to the Agreement to increase the initial contract amount by \$800,000 to a new total initial contract not to exceed amount of \$6,104,040.50, due to an increase in volume of paving work precipitated by additional water system maintenance and improvements performed in fiscal years 2020 and 2022.
- C. The Contract contains an option for the District to extend the term in one year increments for up to an additional two years.
- D. The parties also desire to enter into an amendment to the Contract that allows the District to exercise the option contained in Section 1.4 of the Special Provisions titled "Contract Completion Date" to extend the current paving restoration and concrete contract between the District and Contractor for an additional year beginning on July 1, 2022 and ending on June 30, 2023, at new unit prices.
- E. The term "Agreement" as used in this First Amendment shall mean the Contract and the First Amendment.

Section 2. Terms:

- A. Amendment to Agreement: This First Amendment modifies the Contract. Except for the modifications contained herein, all the terms of the Contract shall apply.
- B. Terms:
 - 1. Total fee paid to the Contractor for the work described in the Contract for the period beginning July 1, 2019 and ending June 30, 2023 shall not exceed the total amount of SIX MILLION ONE HUNDRED AND FOUR, FOURTY DOLLARS, AND FIFTY CENTS (\$6,104,040.50).
 - 2. Pursuant to Paragraph 1.4 of the Special Provisions contained in the Contract, the District exercises its option to extend the Contract for an additional year beginning July 1, 2022 and ending on June 30, 2023.

3. Beginning July 1, 2022 and ending June 30, 2023, Contractor shall perform all concrete, asphalt, paving, and traffic control work at the new contract unit prices contained in the revised FY-22-23 Bidding Sheet Schedule of Unit Prices a copy of which is attached at **Exhibit A** and is incorporated herein by this reference. The total amount paid to the Contractor for the work to be performed during the extended term of the Contract shall not exceed TWO MILLION ONE HUNDRED TWENTY THREE THOUSAND, SIXTY FOUR DOLLARS, AND TWENTY FIVE CENTS (\$2,123,064.25).

Dated: _____

W.K. MCLELLAN CO., INC.

By _____

Dated: _____

MARIN MUNICIPAL WATER DISTRICT

By _____

Bennett Horenstein, General Manager

ATTACHMENT: Exhibit A – FY 22-23 Bidding Sheet Schedule of Unit Prices

Approval Item

TITLE

Amend Contract No. 1966 with West Coast Pipe Linings Inc. to increase pipe quantities.

RECOMMENDATION

Approve a Resolution authorizing the General Manager to amend Contract No. 1966 with West Coast Pipe Linings Inc. to increase the pipe quantities to include 1,080 feet of 24-inch welded steel pipe for the amount of \$210,671.14.

SUMMARY

On October 12, 2021, the District issued a Notice of Inviting Bids under Contract 1966 for the fabrication and delivery of 31,320 feet of 4, 6, 8, 12, 14, 18, 20 and 24-inch welded steel pipe for the upcoming Fire Flow Improvement Program (FFIP) and Capital Improvement Program (CIP) pipeline replacement projects.

On October 26, 2021, the District opened two bids for the subject contract. The lowest responsive and responsible bid was submitted by West Coast Pipe Lining Inc. in the amount of \$1,669,178.31. At the time of award, the District omitted the 24-inch pipe item from Contract 1966 and adjusted the contract amount to \$1,458,507.17 to reflect the deletion of the 24-inch pipe from this order. This was done in accordance to the Contract Special Provisions Section 1.1 SCOPE OF CONTRACT which states, "The District reserves the right to increase or decrease the amount of work performed under unit price Bid Items, or to omit such work altogether unless such change exceeds 25 percent of the total contract bid price." This change in contract constituted a 12.62% change, which was within District authority to change. The project requiring the omitted 24-inch pipeline is nearing completion of design and tentatively scheduled to advertise in June/July of this year.

Staff is requesting that the Board authorize the General Manager to amend Contract No. 1966 with West Coast Pipe Linings Inc. and increase pipe quantities to reinstate the 1,080 feet of 24-inch welded steel in the amount of \$210,671.14 to bring the total contract amount back to the original bid amount of \$1,669,178.31. West Coast Pipe Linings Inc. has provided welded steel pipe for the District on prior contracts and has delivered all pipe by the contract completion date of May 6, 2022. The District will extend the contract completion date to June 30, 2022 to account for the addition of the 24-inch welded steel pipe fabrication and delivery.

DISCUSSION

The District places an order for welded steel pipe for all of the FFIP and CIP project approximately every two years. The pipe ordered is stored at our Pelican Way yard in San Rafael until it is issued to contractors for installation on District projects. The Engineering Manager of Design tracks the pipe inventory and compares it to the 2 year CIP budget and FFIP

to project pipe need two years out. Based on current pipe inventory, pipe need for projects currently under construction and projected pipe needs, an order is placed to meet those project demands while maintaining a minimal pipe inventory on hand for main breaks and smaller reimbursable projects. Based on this analysis, it was determined by the Engineering Manager of Design that the District would need approximately 31,320 feet of 4, 6, 8, 12, 4, 18, 20 and 24-inch welded steel pipe to meet the needs over the next two years. This quantity is in line with welded steel pipe orders in prior years.

Budget:

Budgeted Amount: \$1,669,178.31
Budget Category: N/A

Project Implementation:

Project Advertisement: October 12, 2021
Bid Opening: October 26, 2021
Project Award: November 16, 2021
Completion Date: June 30, 2022
Duration: 226 days

FISCAL IMPACT

Funds for materials are included in the operating budget. As pipe is withdrawn from inventory, the cost of the pipe is capitalized to the specific project for which the pipe is installed.

ATTACHMENT(S)

1. Proposed resolution

DEPARTMENT OR DIVISION	DIVISION MANAGER	APPROVED
Engineering	 Crystal Yezman Director of Engineering	 Ben Horenstein General Manager

MARIN MUNICIPAL WATER DISTRICT

RESOLUTION NO.

**A RESOLUTION OF THE BOARD OF THE MARIN MUNICIPAL WATER DISTRICT
AMENDING CONTRACT NUMBER 1966 FOR THE FURNISHING AND DELIVERY OF
WELDED STEEL PIPE WITH WEST COAST PIPE LININGS INC.**

WHEREAS, the District advertised Contract No. 1966 on October 12, 2021 for the fabrication and delivery of 31,320 feet of 4, 6, 8, 12, 14, 18, 20 and 24-inch welded steel pipe; and

WHEREAS, at the time of award, the District elected to omit the bid item for the 24-inch welded steel pipe per Section 1.1 SCOPE OF CONTRACT of the contract Special Provisions; and

WHEREAS, a District project requiring 24-inch welded steel pipe is nearing project design completion in preparation for advertisement for construction; and

WHEREAS, the District now seeks to reinstate the bid item for the 24-inch welded steel pipe per Section 1.1 SCOPE OF CONTRACT of the contract Special Provisions consistent with the current contract bid prices to allow the pipeline project to proceed to construction in a timely manner; and

WHEREAS, the amendment to Contract No. 1966 totals \$210,671.14 and will bring the total contract amount to \$1,669,178.31 with West Coast Pipe Lining Inc.; and

WHEREAS, the purchased welded steel pipe will be used by the District on the upcoming Fire Flow Improvement Program (FFIP) and Capital Improvement Program (CIP) pipeline replacement projects.

NOW, THEREFORE, THE BOARD OF DIRECTORS RESOLVES that:

1. The amendment of Contract No. 1966 with West Coast Pipe Linings Inc. is based upon the selection of West Coast Pipe Linings Inc. as the lowest responsive bid in the amount \$1,669,178.31 and the additional order will be filled at the original bid price.
2. The General Manager is hereby authorized and directed to execute a contract amendment to Contract No. 1966 with West Coast Pipe Linings Inc. on behalf of the District for the purchase of the necessary 24" steel pipe in the amount of \$210,671.14.

PASSED AND ADOPTED this 17th day of May, 2022, by the following vote of the Board of Directors.

AYES:

NOES:

ABSENT:

Larry Russell
President, Board of Directors

ATTEST:

Terrie Gillen
Board Secretary

Informational Item

TO: Board of Directors

FROM: Shaun Horne, Watershed Resources Manager



THROUGH: Ben Horenstein, General Manager



DIVISION NAME: Watershed

ITEM: Wildfire Season Preparation Update

SUMMARY

At the February 16, 2021, Board of Directors meeting, the final Wildfire Resilience Study 2021 (Study) was presented to the Board. Since that time, the District has been actively implementing the wildfire preparedness and mitigation actions outlined in the Study. Staff will provide a presentation that provides an overview of work that has been underway to prepare for the upcoming wildfire season.

DISCUSSION

California is facing unprecedented wildfire conditions as a result of decades of fire suppression and increasing impacts associated with climate change. In many California ecosystems, biodiversity, carbon stability and overall ecological resilience are dependent on the regular occurrence of fire. However, the wildfire seasons over the past few years have brought record impacts to communities, critical infrastructure and ecosystems. In an effort to establish a more resilient water supply system, watershed, and community, Marin Water developed the Wildfire Resilience study to identify proactive hazard reduction actions. The Draft Plan was completed in March of 2020 and the final Study was presented to the Board on February 16, 2021.

Wildfire Resiliency Project Updates

The Study identified potential hazard reduction actions that would improve wildfire resilience. The hazard reduction actions vary in terms of cost, ability to mitigate risk, and implementation timeframes. Some of the identified actions are part of ongoing initiatives and operations and some require advanced planning, technical studies and capital investments. Staff has successfully implemented many of the hazard reduction actions including, but not limited to, the following:

Community Coordination

- Participation in Fires Safe Marin monthly Board meetings.
- Participation in Marin Wildfire Prevention Authorities (MWPA) Advisory Technical Committee.

- Participation in Marin Conservation League's Fire and Environment Working Group and the Ecological Sound Practices (ESP) Partnership.
- Participation in One Tam Forest Health Strategy and Resource Advisor planning meetings.
- Participation in Fire Chief Meetings to coordinate and prioritize fire flow projects
- Participation in Fire Safe Marin's Ember Stomp Event on May 28th.

Facilities

- Initiated construction of a permanent generator at the San Geronimo Water Treatment Plant. The project will provide permanent backup power to mitigate the impacts of PG&E's Public Safety Power Shutoff (PSPS) events and other power failure events at the District's largest treatment plant.
- Designing and installing new manual transfer switch to allow for generator to power the Marin Water Administration building.
- Working on the San Geronimo Treatment Plant roof evaluation to inform roof options and life cycle cost analysis for replacement of the existing roof at San Geronimo Treatment Plant.
- Vegetation work completed around water distribution facilities:
 - 35 sites received tree pruning to reduce fuel loads, elevate canopy and remove hazardous trees. Planning to complete 5 additional sites by June 2022.
 - 60 sites (pump stations and tanks) received broom management and/other ladder fuel management work. Planning to complete 15 additional sites by June 2022.
 - 45 sites received defensible space work targeting fine fuels. Planning to complete 155 additional sites by June 2022.

Water Resources

- Developed and finalized the Local Hazard Mitigation Plan. This critical document will enable the District to pursue federal cost-share grants to mitigate natural hazards including those associated with seismic events, flooding, and wildfires.
- Operations and lab completed bench-scale study to understand treatment dosing necessary to handle ash loading from a wildfire.
- Developed Watershed Hydrological Model.

Watershed

- In 2019 the Board adopted the Biodiversity Fire and Fuels Integrated Plan. Since that time watershed forest restoration and vegetation management has been scaled up and over the past year the following work has been completed:
 - 282 acres of Fuelbreak maintenance,
 - 146 acres of forest restoration and fuel reduction,
 - 524 acres of broom management, and
 - 218 acres of priority weed management.

- Completed Potrero Meadows fuels modeling of completed forest restoration work to evaluate how work changed fire behavior. Initiated watershed wide fuels model with Tuckman Geospatial to assess vegetation management treatments and inform future work priorities.
- Expanded fuel reduction and forest restoration activities around the Bon Tempe Treatment Plant and Lake Lagunitas.
- Prescribed burn planning and coordination with County Fire to support future implementation.
- Removed barbecues from Larurel Dell, Riffle Camp, and Potrero Camp.
- PG&E coordination and environmental compliance support for power-pole infrastructure maintenance, replacement and vegetation work for the following:
 - 52 acres of vegetation management under power lines,
 - 1 power pole replacement project,
 - 3 guy wire replacement projects,
 - 3 other hardware replacement projects, and
 - 1 pole repair project.

Fundraising

- In 2021 the District received an \$800,000 grant from the California Coastal Conservancy's Wildfire Resiliency Program.
- In 2021 the Districted received a \$3.1 million grant from the Cal Fire's Forest Health Program.
- In 2022, the District submitted a second grant with One Tam Partners to the California Coastal Conservancy's Wildfire Resiliency Program in the amount of \$800,000.
- In 2022, the District submitted a grant with One Tam to the Cal Fire Forest Health Grant in the amount of \$1.7 million.
- District submitted a federal funding request for Wildfire hardening of the San Geronimo Treatment Plant and three pump stations.

Rangers

- Improved response capabilities by upgrading the District's Type IV engine with one purchased from Marin County Fire.
- Replaced one Rangers Type VII truck and one wildfire suppression water tank.
- Installed emergency alert signs at major watershed entrances to improve emergency communication with visitors.
- Wildfire seasonal staff training refresher and ongoing monthly trainings underway.
 - Staff completed wildfire pump training.
- Increased enforcement of illegal parking on the watershed.
- Two Rangers completed Drone Pilot License training and testing.
- Completed inter-agency training and hosted the Sherriff Departments Drone training.

FISCAL IMPACT

None

ATTACHMENT(S)

None



Informational Item

TO: Board of Directors

FROM: Paul Sellier, Water Resources Director

THROUGH: Ben Horenstein, General Manager

DIVISION NAME: Operations

ITEM: Water Supply Update

SUMMARY

Overall, reservoir storage is 90% of capacity and 100% of the average for this time of year. With reservoirs nearly at capacity the District is well positioned to provide water for both potable and environmental needs in the coming year. Storage level projections indicate that, were there no additional rainfall from this point forward, reservoir levels on December 1, 2022 will be between 50,000 AF and 55,000 AF. Staff will provide a brief presentation and discussion on water supply.

FISCAL IMPACT

None

ATTACHMENT(S)

None

Informational Item

TO: Board of Directors

FROM: Terrie Gillen, Board Secretary



THROUGH: Ben Horenstein, General Manager



DIVISION NAME: Communications & Public Affairs Department

ITEM: Future Meeting Schedule and Agenda Items

SUMMARY

Review of the upcoming Board of Directors and Committee meetings

DISCUSSION

Below are the upcoming meetings of the Board of Directors and/or Committees:

Internal Meetings

- Friday, May 20, 2022
Operations Committee/Board of Directors (Operations) Meeting
9:30 a.m.
- Tuesday, May 24, 2022
Board of Directors' Special Meeting (Strategic Water Supply Assessment Working Session)
5:00 p.m.
- Wednesday, May 25, 2022
Communications & Water Efficiency Committee/Board of Directors (Communications & Water Efficiency) Special Meeting
9:30 a.m.
- Thursday, May 26, 2022
Finance & Administration Committee/Board of Directors (Finance & Administration) Meeting
9:30 a.m.

- Tuesday, June 7, 2022
Board of Directors' Regular Bi-Monthly Meeting
7:30 p.m.
- Tuesday, June 14 and Tuesday, June 28
Board of Directors' Special Meeting (Strategic Water Supply Assessment Working Sessions IV and V)
5 p.m.

External Meetings

- Friday, June 3, 2022
North Bay Watershed Association
9:30 a.m. to 11:30 p.m.
- Monday, June 6, 2022
Sonoma Technical Advisory Committee
9:00 a.m.
- Thursday, June 9, 2022
Tomaes Bay Watershed Foundation
Time TBD
- Friday, June 10, 2022
Lagunitas Creek Technical Advisory Committee
9:00 a.m. to 12 p.m.

FISCAL IMPACT

None

ATTACHMENT(S)

None