Humboldt Bay Municipal Water District 828 7th Street, Eureka



Agenda for Special Meeting of the Board of Directors May 24, 2023 Meeting Start Time: 9:00 am

District Mission: Reliably deliver high quality drinking water to the communities and customers we serve in the greater Humboldt Bay Area at a reasonable cost. Reliably deliver untreated water to our wholesale industrial customer(s) at a reasonable cost. Protect the long-term water supply and water quality interests of the District in the Mad River watershed.

COVID-19 Notice

The Board room at 828 7th street will be open to the public at reduced capacity to accommodate social distancing. Room capacity will be limited. An online option will also be available. **Members of the public may join the meeting online at:**

https://us02web.zoom.us/j/86710296323?pwd=MjZldGxRa08wZ0FWOHJrUINhZnFLQT09

Or participate by phone: 1-669-900-9128 Enter meeting ID: 867 1029 6323 **Enter password:** 484138 If you are participating via phone and would like to comment, please press *9 to raise your hand.

How to Submit Public Comment: Members of the public may provide public comment via email until 5 pm the day before the Board Meeting by sending comments to office@hbmwd.com. Email comments must identify the agenda item in the subject line of the email. Written comments may also be mailed to 828 7th Street, Eureka, CA 95501. Written comments should identify the agenda item number.

These comments will be read during the meeting. Comments received after the deadline will be included in the record but not read during the meeting. If participating in the meeting, public comment will also be received during the meeting.

1. ROLL CALL

2. FLAG SALUTE

3. ACCEPT AGENDA

4. PUBLIC COMMENT

Members of the public are invited to address the Board on items not listed on the agenda that are within the scope and jurisdiction of the District. At the discretion of the President, comments may be limited to three minutes per person. The public will be given the opportunity to address items that are on the agenda at the time the Board takes up that item. Pursuant to the Brown Act, the Board may not take action on any item that does not appear on the agenda.

5. FINANCIAL

FY2023/24 Project Budget

Presentation and discussion of proposed Project Budget (summary and line item detail)* —discuss

6. MINUTES

April 13, 2023, Regular Board Meeting Minutes* — discuss

ADJOURNMENT

ADA compliance statement: In compliance with the Americans with Disability Act, if you need special assistance to participate in this meeting, please contact the District office at (707) 443-5018. Notification 48 hours prior to the meeting will enable the District to make reasonable arrangements to ensure accessibility to this meeting. (Posted and mailed May 19, 2023.)

FINANCIAL

Color Coding for Project Budget

Print Color Explanation - Column "D"

Blue - Recurring Projects

Purple - Essex Driven Projects

Red - Regulatory Required Project

Green - Grant Funded or Main Office Driven Projects

Orange - CIP Project

Column Color Explanation - Column "A" or "B"

Red = New Project this year

Yellow = GHD Project

Purple = Essex Project

Green - Office Project

6 A B			TEXPENDITURE	S THIS FY	PRC	OCEEDS FOR	PROJECTS	N	ADDITIO		Q Resulting	R 2022/23	S	
	ORY, LOCATION, PROJECT NUMBER & TITLE	Treatment	Base Facility	Total	Advance Charges (Collected)	Grants	Reserves	Loans	Advance Charges (Cur. FY)	Debt Service	Customer Charges	Prior Year Budget Amount	CIP	
8	Maintenance								Sale Market					
9 Essex	Area Maintenance											14-162-17-5-9		
M1	FY24 Pipeline Maintenance		14,000	14,000							14,000	4,000		ANNUAL PROJECT: Routine annual maintenance to incomaintenance.
M3 11	FY24 Main Line Meter Flow Calibration		28,000	28,000							28,000	28,000		ANNUAL PROJECT: The District uses a five-year cycle maintenance. The meters will be removed for calibration
M4	FY24 Technical Support and Software Updates to Include Control System		26,750	26,750							26,750	31,500		ANNUAL PROJECT: This is a yearly expense for technic 6) Firewall software 7) Phone system support 8) Antiviru
M5	FY24 Generator Services		3,500	3,500							3,500	3,500		ANNUAL PROJECT: Routine service on 2MW and 35kv
M7	FY24 Hazard & Diseased Tree Removal		8,000	8,000							8,000	8,000		ANNUAL PROJECT: Required to remove hazardous tre
M8	FY24 Cathodic Protection		1,500	1,500							1,500	1,500		ANNUAL PROJECT: To inspect and perform minor mai
M9	FY24 Maintenance Emergency Repairs		50,000	50,000							50,000	50,000	1	ANNUAL PROJECT: Funding for unforeseen maintena
M10	FY24 Fleet Paint Repairs		5,000	5,000							5,000	5,000		ANNUAL PROJECT: This project continues preventive r
18	Particle Counter Calibration	1,750		1,750							1,750		Y	This is a regulatory required analytical instrument which r if required, are additional. Last calibrated 2022.
19 2	EOC Emergency Backpack Supplies, Replenishment		1,750	1,750							1,750			This project will replenish of expired products (MRE's, wa
20 3	Collector 1 Conductor Replacement		89,750	89,750							89,750			This project replaces the 12kV conductors to Collector 1 insulation was breaking down due to age.
4	FY24 Power Pole/Line Inspection/Maintenance		43,500	43,500							43,500	17,500	Y	<u>CIP:</u> This project is a multi year CIP project for a review coring inspections while also inspecting, cleaning, and m our collectors. This year, the project will perform the nec 2022. One repair was made last fall from the 12KV main replacement of two new power poles which were utilized
22 5	SBPS Roll-Up Door		33,000	33,000							33,000			Replacement of roll up door at Samoa Booster Pump St hinges to be more resistant to the conditions on the peni
23 6	Service Vehicle Utility Box Lighting		1,750	1,750							1,750			This project will be to purchase and install interior lightin the tool/storage boxes when working in the dark. Currer
24 7	Park #1 Gazebo Roof Replacement		3,500	3,500							3,500			This project will replace of the current 20-year old aspha
25	Pipeline R-O-W Maintenance		20,000	20,000							20,000			This project is major Right-of-Way maintenance to areas project is for notification of property owners of our plann may be some marketable trees that the District will need
26 TRF Ma	intenance		a strange in the second	State Street Party of										
27 M6	FY24 TRF Generator Service	500		500							500	500		ANNUAL PROJECT: Routine service on Korblex emer
28	FY24 TRF Limitorque Valve Retrofit Supplies	14,500		14,500							14,500	14,500		This reoccurring budget item is for the purchase of addit maintain sufficient inventory of spare parts and actuator
29	TRF Valve Network Upgrade (Phase 2)	125,000		125,000							125,000	121,000	Y	<u>CIP - Related:</u> This project will purchase, install and test network valve actuator replacement project. Our current beginning the third generation of retrofitting for these va compatibility and reliability in order to ensure lower main

PROJECT DESCRIPTION

include re-establishing access to the right-of-way, minor grading, sign replacement, and equipment

cle for mainline meter maintenance. This year, the Blue Lake and Manila meters are due for ion during the winter months.

chnical support and licensing: 1) Rockwell Automation 2) ESRI GIS 3) IMSI CAD 4)Microsoft Software virus software 9) Datto Backup service.

5kw emergency generators.

s trees in the Essex parks.

maintenance on cathodic protection system.

enance, unplanned replacements, and emergency repairs.

ve maintenance to preserve our equipment to prolong assets useful life.

ch requires factory calibration every two years. Charge is service, minor parts and shipping, major parts,

, water & glow sticks) located in staff emergency response backpacks located in the EOC at the TRF.

or 1. During the IPA project, when these cables were spliced the final test of the cable showed the cable

iew of the entire 12 kV system. This project will provide funding to hire a contractor to perform pole d maintaining the pole top equipment and wiring on the 12KV overhead electrical system, which powers necessary repairs as outlined in the inspection report performed by Wahlund Construction in July of naintenance budget and this project will perform the remaining repairs. It will include the inventory zed last year.

D Station due to deterioration from weathering. This will be an upgraded door including stainless steel beninsula. This project was deferred from last year.

hting on the tool boxes of three Units (2,4, and 8). This would increase worker efficiency and visibility into rrently it is difficult to find tools and supplies without a flashlight or other light source.

phalt shingled roof on the Gazebo located in Park #1 with a metal roof.

reas where there has been little to no vegetation management since the pipeline was installed. This anned vegetation management and hiring a tree faller and equipment to move the trees off site. There eed to purchase, but that will be determined on a site-by-site basis.

mergency generator.

dditional Limitorque Valve Actuator Retrofit Kits and spare parts for the TRF valves. It is essential that we ators while we are phasing out the Limitorque Actuators.

I test a new type of valve actuator at the TRF. This trial is essential before proceeding with the complete rent actuators cost between \$10,000-\$15,000 annually to maintain and retrofit. Our current actuators are valves. It is in the District's best financial interest to have fully vetted a prospective replacement for naintenance costs in the future.

AB			TEXPENDITURE	S THIS FY	PRO	CEEDS FOR F	ROJECTS	N	O ADDITI CHAR	and the second	Resulting	R 2022/23	S	
CATEG	ORY, LOCATION, PROJECT NUMBER & TITLE	Treatment	Base Facility	Total	Advance Charges (Collected)	Grants	Reserves	Loans	Advance Charges (Cur. FY)	Debt Service	Customer Charges	Prior Year Budget Amount	CIP	
Ruth Ar	ea Maintenance	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second	aren arren	A-1				11 C. Y . S	1. Same				
RM1	FY24 Brush Abatement Ruth Hydro		21,000	21,000							21,000	6,500		ANNUAL PROJECT: Dam-safety related; FERC and DS damaging the face of the Dam. It is essential to keep ear price increase is due to a new vegetation management
	FY24 LTO Insurance		5,000	5,000							5,000	5,000		ANNUAL PROJECT: This project purchases insurance for
	FY24 Spillway Repairs		10,000	10,000							10,000	10,000		ANNUAL PROJECT: This project funds maintenance an
	FY24 Howell Bunger Valve Inspection		1,000	1,000							1,000	1,000	MRAR	ANNUAL PROJECT: District staff inspect the Howell Bu component to operate the Hydro Plant at Ruth Lake.
	FY24 Log Boom Inspection		1,500	1,500							1,500	1,500		ANNUAL PROJECT: This project is materials and parts dam.
1	Ruth Hydro Synchronizer Testing		21,000	21,000							21,000	0		This project will be to test the current plant synchronizer f Essex switchgear. These synchronizer's are the same m hydro plant.
2	Replace Headquarters Garage Doors		6,750	6,750							6,750	0		This project will replace the existing very old and heavy o
Eureka	Office Maintenance			and the second of	No. 2 New York (Street)			The state of	10万万的比比。	Sec. Marcha	NEW YORK	Care Care Server		
	FY24 Eureka Office Generator Service		500	500							500	0		ANNUAL PROJECT: Routine service on Eureka Office
	al Maintenance Projects	141,750	396,750	538,500	0	0	0	0	0	0	538,500	309,000		
Contract of Contract of Contract	CAPITAL PROJECTS									S CARDENS				
Essex	Area Capital Proj.					a da anti-								
C1	Professional Services for New Capital Debt		162,200	162,200	0					0	162,200	162,200		This project will provide for a financing consultant to beg Projects.
	Collector Mainline Redundancy Project (\$3.1M FY 25)		205,000	205,000	205,000				0		0	0		This project will provide a redundant pipeline to convey v water from all of the District's collectors to the TRF for tre total failure of the HBMWD system. Repair of the collect would likely cause significant erosion of the hillside and r Construction is anticipated in FY24/25. Project total is c
	Collector 2 Rehabilitation (Project \$2.6M - FY24)		2,310,000	2,310,000	1,000,000	1,310,000			0		0	0		This project will begin the rehabilitation of Collector 2. The construction began in FY23. The project is currently est Advanced Charges collected of \$1,000,000.
	3x Tank Seismic Retro Grant (Project \$5.2M - FY25)		3,738,910	3,738,910	1,113,910	2,625,000			0		0	0		This project will provide a Seismic Retrofit for all three st the current seismic code. Currently in the approval proc currently budgeted at \$3,500,000 with a District match c
	Cathodic Protection Project (\$445,000 - FY24)		125,000	125,000	125,000				0		0	0	Y	<u>CIP - Related:</u> Cathodic protection is a form of corrosion Cathodic Protection (ICCP) is a type of cathodic protect is sourced through the soil via buried anodes to the proj in various configurations or arrays; including installation HBMWD has an ICCP system dedicated to the DW pip- aging, and in some cases are estimated to have been i system surveys have been conducted by a specialized Creek), were found to not be functioning at the time of a

PROJECT DESCRIPTION

DSOD require that we remove or kill trees and brush to prevent the root systems of the trees from earth-fill dams clear of such growth so that root systems do not weaken the impervious clay core. <u>The</u> <u>nent company completing the spray work.</u>

e for our LTO for tree management on lease lots and general timber management.

and smaller repairs as needed.

Bunger Valve to determine maintenance, repairs or replacement are required. This is an essential

rts as needed to maintain the Worthington Log Boom at Ruth. This is an essential safety feature of the

er for functionality, and to configure and test the two spare synchronizers that are surplus from the old e manufacturer and type as used at the hydro plant and will be kept for emergency replacements for the

y overhead doors on the Headquarters residence with roll up doors.

ce emergency generator.

egin exploring and pursue long term financing options for CalPERS UAL, OPEB Liability, and CIP

ey water from the District's collectors to the TRF. There is currently only one water line that conveys r treatment, storage, and distribution to customers. Failure of this source water supply line would mean ector mainline would be very difficult, as it travels along a steep and narrow road, and failure of the pipe nd roadway creating costly and time-consuming repairs. FEMA Hazard Mitigation Grant funded. is currently budgeted at \$3,100,000 with a District match of \$775,000.

This will include the design/engineering/replacement of the laterals. Engineering is complete and estimated at \$1,658,000 and has received two NCRP Prop. 1 grant funding of \$1,300,000, and

e storage reservoirs (1MG and 2MG at TRF, and 1MG Industrial). This will bring all three reservoirs up to rocess for FEMA Hazard Mitigation Grant funding, construction is anticipated in FY24. Project total is h of \$875,000.

sion control commonly used to mitigate external corrosion on buried pipelines. Impressed Current ection relying on an external power source: AC power which is converted to DC by a rectifier. DC current project pipeline(s). There are typically several anodes associated with a single rectifier that may be buried ion of multiple anodes in a vertical column as a part of a shallow anode well array or a deep anode well. pipelines; composed of five (5) rectifiers and associated anode beds. The CP system components are in in service for 30 or more years. The CP systems have been maintained by HBMWD staff and periodic ed Contractor retained by the District. Of the five District Rectifiers, two (the Jackson Ranch and Jane's of assessment.

6 001TE00			T EXPENDITURE	S THIS FY	PRC	N	ADDITIONAL CHARGES Res		Q Resulting	R 2022/23	S			
	DRY, LOCATION, PROJECT NUMBER & TITLE	Treatment	Base Facility	Total	Advance Charges (Collected)	Grants	Reserves	Loans	Advance Charges (Cur. FY)	Debt Service	Customer Charges	Prior Year Budget Amount	CIP	
	On-Site Generation of Chlorine, Phase 3 and Building Retro-Fit (\$1.3M - FY23/FY24)	1,311,950	0	1,311,950	1,180,000				0		131,950	250,000		To eliminate the high risk hazard of Chlorine Gas at Ess much safer process than the District currently uses. Chl product with far less regulation. There will be no need fo project. The scope of this project would be to retrofit the generation equipment. This project also includes the re door and metal rollup door for accessing equipment. Bu
	Essex Control Building Expansion		750,000	750,000							0		Y	<u>CIP - Related:</u> This project remodels and expands the facility and ADA restrooms. Staff is currently research
50	Mainline Valve Replacement Program		170,000	170,000							170,000	60,000	Y	<u>CIP - Related:</u> Valves to be replaced TBD. The valves
	Office Capital Proj.											Chill Starstering		
52	ADA Standard improvement- Office Parking Lot		11,000	11,000							11,000	0		This project will demo and repour the ADA parking area
	ea Capital Proj. Storage Barn at Ruth Headquarters (Total \$190k, FY24/FY25)		90,000	90,000							90,000			To protect District equipment from the elements and ext backhoe and other equipment at Ruth Headquarters. T occurring in FY24 and construction/completion in FY25.
	I Capital Projects	1,311,950	7,562,110	8,874,060	3,623,910	3,935,000	0	0	0	0	565,150	472,200		
	ent/Fixed Assets area Equipment/Fixed													
1000	FY24 Replace ESSEX Administrative Computers		6,500	6,500							6,500	7,000		This project annually replaces the two oldest workstation project also maintains software security at the highest le
59	FY24 Replace Control Computers		5,250	5,250							5,250	5,250		This project is for the annual replacement of two Contro years since a critical computer may be replaced more o highest levels currently available.
	Spare Collector Motor		108,250	108,250							108,250	0		This project replaces the spare 400HP motor that was i that size motor is being phased out.
	Portable Eye Wash & Shower		1,750	1,750							1,750			This project will purchase a new portable emergency eyexposure were to occur. This project also includes the Laboratory.
62	Humboldt Bay Radio Read Meters		9,500	9,500			9,500				0			This project will purchase more radio-read meters to ins Road, in customers backyards and cow fields, (etc.), will their time. This purchase is funded using Retail Capital
63	Pipeline Maintenance Equipment		5,750	5,750							5,750			This project will purchase the following: a Jackhammer, gas power water pump for Unit 8. These items will ben systems in addition to other facilities.
64	John Deere 4052 Implements		6,500	6,500							6,500	0		This project will purchase the following implements for t These implements will increase the use flexibility of the be completed.
65	Replace Maintenance Shop High Bay Lights		3,250	3,250							3,250			This project is to purchase and install eight (8) new hig in these high use areas.
7	Cordless Tools and Equipment		5,250	5,250							5,250	0		This project will add additional cordless tools to the ma

PROJECT DESCRIPTION

Essex, this project replaces our current Chlorination system with a Chlorine gas generator. This is a Chlorine generation is a very low concentration process therefore, it is not considered a hazardous d for our SCBA PPE. The District has collected advanced funding as well as reallocation funding for this the existing Chlorine Building with new exterior materials, since it will be housing new hypochlorite retrofit of the existing building: new siding, paint, exterior lighting and the installation of a new pedestrian Budgeted costs also include \$69,700 for engineering.

he current Essex breakroom, Supervisor, Assistant Supervisor and Customer Service offices, Training rching alternate funding sources for this project.

ves will be two Domestic water transmission line isolation valves in strategic locations.

rea to bring into compliance and re-seal the asphalt parking areas and restripe parking spaces

extend equipment lives as long as possible, this project will build a metal storage barn for the work boat, . This project will be funded over two budget-years, with design, planning and permitting potentially 25. The total cost of this project is estimated to the \$190,000 split over two budgets.

tions in the administration network with new computers including peripherals, printers and monitors. This t levels currently available.

ntrol computers with new computers and monitors. These computer replacements average between 5-7 re often and repurposed to a less critical position. This project also maintains software security to the

as installed on Collector 4 this past fall due to failure. The old motor was 350HP and was not rebuilt since

y eyewash/shower station, which would provide support in higher risk field operations if a chemical the purchase of saline refill bags for eyewash stations located in the Essex Maintenance Shop and TRF

install where safety is an issue. These meters will be placed along West End Road and Warren Creek where access is dangerous or limited. Radio read meters help District staff to be more efficient with bital Reserves.

ner, an electric concrete chainsaw, a walk behind kit for our concrete circular saw, and a new 2" compact benefit the District when performing maintenance and repair activities to our transmission, distribution

for the John Deere 4052R Tractor: a box scrapper, a 3 point hydraulic auger, and pallet fork attachment. the tractor and assist with numerous tasks that are well suited for this tractor, but are currently unable to

nigh-bay LED lights in the maintenance shop over the work and fabrication benches for focused lighting

maintenance shop; add/replace six battery packs; and add a two battery simultaneous rapid charger.

6 A B	D	PROJEC	T EXPENDITURE	S THIS FY	PRC	DCEEDS FOR	PROJECTS	N	O ADDITI CHAR		Q	R 2022/23	S	
CATEG	ORY, LOCATION, PROJECT NUMBER & TITLE	Treatment	Base Facility	Total	Advance Charges (Collected)	Grants	Reserves	Loans	Advance Charges (Cur. FY)	Debt Service	Resulting Customer Charges	Prior Year Budget Amount	CIP	
68 TRF Equ	uipment/Fixed Assets		1	and and a second		C.C. Stat Inde	Back, R.S.			The subscript			12	and a state of the state of the state of the
₅₉	TRF Security Fence		7,750	7,750							7,750			This project is to replace the rented, temporary fencing wi installation.
70 2	TRF Spare Process Pumps		25,750	25,750							25,750			This project is for the purchase of an additional wash wat
	Replace PH Probes		26,750	26,750							26,750			location and act as an emergency back-up if one was to f This project will purchase two new benchtop PH probes for
4	Benchtop Turbidity Meter		6,750	6,750							6,750			This project will purchase a new Hach TU5200 Turbidime
72 Eureka	Equipment/Fixed Assets			合称于自己。	Contraction of the party	and the second second						Company and the	18459	
74	FY24 Replace EUREKA Administrative Computers		3,000	3,000							3,000	3,800		Administrative computers are replaced on a 5-year cycle. other monitors of smaller (19") size to a more current star
75 Ruth Ar	ea Equipment/Fixed Assets		1.2.2. State 28			S Martinet			6-54-44-8					
76	Ruth Hydro Power Monitor Replacement		13,500	13,500							13,500	0		This project replaces the existing Allen Bradley power mo monitors are obsolete and are beginning to show signs o buss to the SCADA system and provide a display of this
2	Hydro Plant PRV Internal Belzona Repairs		4,750	4,750							4,750	0		This project will perform necessary rehabilitation of interior pressure reducing Cla-val's. The first valve was funded in
78 3	Replace Ruth Hydro Incoming Power Feed Conductors		42,500	42,500							42,500			This project replaces the high voltage power feeds betwee to be outside of acceptable tolerances and needs to be replaced to be replaced as the second secon
79 4	Ruth Bunkhouse Picnic Table Replacement		2,000	2,000							2,000	0		This project is to purchase two new movable picnic table
80	Automated Tiltmeters		50,000	50,000							50,000	0		This project will purchase and install automated Tiltmeter read and store the data at sub-minute to daily intervals. data at any desired time, including immediately should an
81 Subtota	al Equipment/Fixed Assets	0	334,750	334,750	0	0	9,500	0	0	0	325,250	16,050		
Profess 82 Service	sional and Consulting													
83	FY24 Crane Testing/Certification		10,000	10,000							10,000	10,000		ANNUAL PROJECT: Every four years the District is rec by a licensed contractor in accordance with OSHA regula
84	FY24 Chlorine System Maintenance	6,750		6,750							6,750	16,750		ANNUAL PROJECT: Although the chlorine system is w complex elements of the system to assure proper opera
	FY24 Hydro Plant Annual Electrical and Maintenance Inspection (ReMat Contract)		4,000	4,000							4,000	4,000		ANNUAL PROJECT: Hydro Plant electrical and mainter
86	FY24 Cyber Security Maintenance		5,000	5,000		-					5,000	0		NEW ANNUAL PROJECT: This project is to obtain a bad do a cybersecurity assessment of the administration and networks. We will use the results of this assessment to assessment, but is not funded here.
87	FY24 Essex Mad River Cross- Sectional Survey		12,000	12,000							12,000	12,000		ANNUAL PROJECT: This task consists of the annual fi figures comparing the new cross sections to the historic cross sections in comparison to the last few years will be measures that the District may need to implement. Copi
88	FY24 Technical Training		27,000	27,000							27,000	27,000		ANNUAL PROJECT: This project funds software trainin their job responsibilities. This would include technical tra recurring budget item enables staff to rotate through trai amount will include training for approximately five out of

PROJECT DESCRIPTION

g with a permanent fence surrounding the Tesla Battery project and future Emergency Generator

water return pump and rapid mix pump. These new pumps would serve as a new pump for each to fail.

es for the TRF and Essex.

imeter with a set of sample vials for Essex lab.

cle. This is for the replacement of the General Manager (FY19). This project will also upgrade several standard. The District's computer replacement cycle improves cyber security and employee efficiency.

r monitors on both the generators and the outgoing buss panel at Ruth hydro plant. The current power ns of failure. These units provide energy information from both generator units as well as the outgoing this same information at each breaker and the buss panel.

terior surfaces with a designed coating that protects and reduces cavitation damage on one of the two ad in the FY2023/24 budget.

etween the station transformer and the plant buss. This cabling was tested this last fall and it was found be replaced.

bles for the Ruth Bunkhouse. These two tables will seat 8 people and be ADA compliant.

eters to monitor the spillway walls. The automated Tiltmeters will be connected to datalogger(s) that can ls. Power will be supplied using a combination of batteries and solar power and will allow for collection of d an event (earthquake) occur.

required to test the crane load to comply with OSHA-safety requirements. Each crane must be certified gulations. This will also dielectric test the Altec boom truck and certify boom truck operators.

is well maintained by District staff, each year we contract for review/repair/replacement of the more eration and safety.

ntenance inspection required annually for the Districts' ReMat Contract

a base line of our cybersecurity vulnerabilities at the Essex location. This project is to hire a third party to and control networks. This will include assessments of our remote connections into our control to develop a project for the corrective measures. The Eureka Office will also need a similar

al field survey of the seven historic cross sections along the Mad River and an update of the AutoCAD pric cross sections. Two hardcopies of the AutoCAD drawings showing the current elevations of the Il be submitted along with a Technical Memo detailing the recent changes and highlighting any corrective copies of the electronic files in AutoCAD format will also be submitted.

ining classes and associated travel expenses for a number of District staff on technologies specific to I training for computer science, computer and SCADA networking programing and software. This trainings that arise throughout the year for the constantly changing technology field. This budgeted t of seven qualifying employees.

AB		PROJEC	TEXPENDITURE	S THIS FY	PRC	CEEDS FOR	PROJECTS	<u>N</u>	O ADDITI CHAR		Resulting	R 2022/23	S	
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	FY24 O & M Training		20,000	20,000							20,000	20,000		ANNUAL PROJECT: This budget funds training classe responsibilities. It also includes some funding for other and distribution principles and practices and education f
	Backflow Tester Certification		5,750	5,750							5,750			Backflow recertification training for 3 Essex Staff. This w Otherwise, we must go out of the area to find the trainin
	EAP Tabletop Planning		5,000	5,000							5,000			These funds are for the planning of the regulatory requi project is for any expenses incurred while in the plannin
	CIP 10-year Financial Revision and Project Review		15,000	15,000							15,000			This project will hire a consultant to review and update t remaining in the CIP and the financing required, and wil for the completion of the District budget and charges to
	FY24 Public Education Funds		5,000	5,000							5,000	5,000		ANNUAL PROJECT: The Board has expressed interes provides funding for communications to the public as di
	In-Stream Flow Grant		444,755	444,755		444,755					0	457,755		The In-Stream Flow Grant began in FY19, and work will
														This project is included to support regulatory work and possible activities: 1) Compliance with the terms and or the District perform a hydrological and fish passage ass requires that the District and DFW determine and agree consulting assistance to negotiate a successful outcom
	FY24 Mad River Regulatory Compliance Assistance		50,000	50,000							50,000	50,000		2) Amending the District's HCP to include Eulachon, an Critical Habitat Designation (CDH) for Chinook and Ste- because the final CHD was not approved at the federal available information, and prepare an Environmental A:
														 Enforcement support to the NC Regional Water Qua enforcement agencies to address the adverse environr watershed. (Range of \$20,000 - \$30,000 assumed)
	Spillway bridge inspection		7,500	7,500							7,500	0	MRAR	<u>CIP - Related:</u> This project is in the CIP as a 5-Year ins
#7	FY24 GHD Review & Report of Essex Mad River Cross- Sectional Survey		5,000	5,000							5,000	5,000		This task will consist of a summary of the annual field s others) and an update of the AutoCAD figures compari showing the current elevations of the cross sections in changes and highlighting any corrective measures that submitted. Note that it is assumed that the District will
#8	FY24 Grant Applications Assistance		20,000	20,000							20,000	20,000		This project is for potential grant application assistance programs can vary considerably, and assistance with a work.
1 <mark>#10</mark>	Trinidad Rancheria Water Request		10,000	10,000			10,000				0	10,000		This would be funded by Trinidad Rancheria
#11	Domestic Water for Nordic Aqua Farm		5,000	5,000							5,000	5,000		Nordic Aquafarms is currently taking steps to develop is built, they will also require domestic water service. E discuss and determine need, and an analysis of feasib how much effort will be required in support of this this i
#12	Samoa Peninsula Water Line ROW Maintenance Project		240,850	240,850							240,850			The District needs to go through the CEQA EIR proces which contains sand dunes hosting at least one endar item includes Phase 2 special studies along portions of District also needs to obtain regulatory compliance per management plans). GHD has contracted with HBMW

PROJECT DESCRIPTION

ses and associated travel expenses for District staff on a variety of specific topics related to their job or staff to attend other local training opportunities that may arise throughout the year on water treatment n for CEU's.

s will be far less expensive if we can get the trainer to return to Humboldt County, as happened last year. ning.

puirement to conduct an EAP Tabletop exercise every 5 years. The next event is due 9/30/24. This ning & set-up process.

te the District's Capital Improvement Plan. The consultant will complete an analysis based on projects will calculate the possible changes in Muni charges needed for the next 10-years. This task is essential to Municipal customers.

rest in expanding public outreach for various topics such as water resource planning. This project directed by the Board.

will continue through FY24. This Project is fully grant funded (approved grant \$693,400).

nd possible enforcement activities related to the District's operation on the Mad River. There are four d conditions of the Long-Term Streambed Alteration Agreement (LTSAA). Section 10.2C requires that assessment. The assessment was completed in FY2014/15. Based on the results, Section 10.2D ree upon flow releases from Matthews Dam and bypass flows below Essex. The District may need ome with DFW. (Range of \$10,000 - \$15,000 assumed)

, and supporting NMFS in updating their Biological Opinion (BO) associated with the HCP to address the Steelhead. NMFS addressed CDH for all covered species, but was not able to include that in the BO iral level. A resource consultant will likely be needed to support this work to conduct research, gather Assessment. (Range of \$10,000 - \$15,000 assumed)

tuality Control Board, the California Dept of Fish and Wildlife, the County of Humboldt, or other commental effects of unpermitted or illegal marijuana grows or water diversions in the Mad River

inspection cycle by a structural engineer.

d survey of the seven historic cross sections along the Mad River (survey work to be completed by baring the new cross sections to the historic cross sections. Two hardcopies of the AutoCAD drawings in comparison to the last few years will be submitted along with a Technical Memo detailing the recent hat the District may need to implement. Copies of the electronic files in AutoCAD format will also be vill contract with a surveyor directly to perform the survey work, which will require additional budget.

nce that the District may require in the upcoming year. The level of effort required for various grant th a detailed application may need to be further negotiated with the District prior to the performance of the

op a fish farm on the Samoa Peninsula. In addition to the industrial water that they will require if the facility . Engineering support for this service connection and extension would include attendance at meetings to isibility and/or upgrade requirements that would include a water model analysis. It is unclear at this time is in the upcoming fiscal year.

cess to maintain the waterline right-of-way (ROW) throughout the Coastal Zone on the Samoa Peninsula, langered plant species, wetlands, and upland environmentally sensitive habitat area (ESHA). This line s of the pipeline right-of-way alignment (Phase 1 occurred in FY 22-23) that will be utilized in the EIR. The permits (e.g., Coastal Development Permit, Army Corps 404 permit, and other permits and associated *IWD* to assist with these tasks.

6	A B			T EXPENDITURE	S THIS FY	PRC	CEEDS FOR	PROJECTS	N	O ADDITI CHAR		Q Resulting	R 2022/23	S	
7	ATEG	GORY, LOCATION, PROJECT NUMBER & TITLE	Treatment	Base Facility	Total	Advance Charges (Collected)	Grants	Reserves	Loans	Advance Charges (Cur. FY)	Debt Service	Customer Charges	Prior Year Budget Amount	CIP	
104	ŧ14	Domestic Water System Cathodic Protection Upgrades		48,000	48,000	48,000						0	65,000		The District's CIP has the replacement of the Highway 29 comprehensive assessment of the entire cathodic protect issues may or may not need to be addressed. The Catho the replacement of the four existing anode beds with four alternatives to determine whether the District would like to protection (ICCP) system, or pursue localized galvanic sy decides to move forward with the ICCP system upgrades specifications, design drawings, and bid documents. It do upgrades would not occur in FY 23/24. This project will
105	±15	Essex Control Building Expansion Plans/Specs		46,000	46,000		46,000					0			The Essex Control Building Expansion is included in the the expansion of the Essex Operations Building. This sco detail to allow the project to go out to competitive bid for well as completing structural evaluation design and detail Project specifications and bid forms will also be develope the electrical feed from Pump Station 6 that comes into the
106	¥16	Water Quality Monitoring Plan Assistance		20,000	20,000							20,000			The SWRCB is requiring the District to prepare a Water C 64416. District staff is currently researching as to the exa WQMP in FY24, limited to providing an overview of the h will include the research, analysis, and documentation re-
	¥17	Water Model Update & Samoa Peninsula Domestic Capacity Analysis		30,000	30,000							30,000			The District's hydraulic model no longer reflects real-word prior to the 18-inch Techite pipeline being replaced. The larger pipeline and the operating parameters of the Sam could when the Techite line was in services. The questi development and that the District's domestic water trans GHD proposes to coordinate with District staff to perform will use data from the field work to update the model. Th future additional capacity of the system is, if any. GHD v calibration/verification process; provides a description of be required to provide for future domestic water demand
108	#18	Engineering Study - Replacement of 15-inch Peninsula Domestic Water Line Preliminary Design & ROW Deficiency Analysis		25,000	25,000							25,000	38,000		GHD is currently performing a conceptual analysis for up be a limiting factor in providing for future domestic water Highway 255 and New Navy Base Road and an upgrade appears that the dunes alignment is the most cost effect alignment in the dunes. GHD would then overlay the co may want to obtain additional ROW to allow for construc
109	Ruth D	am Safety Program	and the second	Contraction of the second	18-11-14-15-14-14-14-14-14-14-14-14-14-14-14-14-14-		B. Case Hart	A DECKARD	(HEROES)	BIS CONCERNS	Constant of the	E REPERTING	Contraction of the		
110		Dam Crest Monument Survey (vertical control survey)		20,000	20,000							20,000			ANNUAL PROJECT - (Crest Monument Survey): This and DSOD questions regarding monitoring of spillway wa West, R.W.Matthews Dam - Settlement, Slide, and Wing this survey changing from biennial to annual in FY22/23
111	#2	Matthews Dam Vertical Monument Survey report analysis (Review data from Points West survey above)		5,000	5,000							5,000	5,000		This task consists of the annual (formerly biennial) surve assumed that this task will be performed at the same tim directly to perform the survey work, which will require ad that will be provided for submittal to FERC and DSOD.
112		FY24 Dam Spillway Wall Monument Survey		17,500	17,500							17,500	0		ANNUAL PROJECT - (Spillway Wall and Floor Survey) annually given FERC and DSOD questions regarding m Horizontal Movement; Dam Vertical Settlement; Spillway established in FY2010/11. New baseline was set in 202 30-Dec1, 2021).
113	#3	Matthews Dam Spillway Wingwall and Floor Survey letter - (Review of data from Points West survey above)		6,500	6,500							6,500			This task consists of reviewing the data from the annual Matthews Dam to determine whether there is any move recommendations will be provided for submittal to FERC the survey work, which will require additional budget.

PROJECT DESCRIPTION

299 Anode Bed scheduled for the 2018/19 Fiscal Year. However, in 2019 GHD performed a tection system to determine whether the 299 Anode Bed actually requires replacement and what other thodic Protection Assessment Report was submitted to the District in January 2020 and recommended our new deep anode wells, and replacement of two rectifiers. The District is currently reviewing e to move forward with the recommended upgrades of the existing impressed current cathodic c systems to protect targeted valves and appurtenances within the domestic water system. If the District des, this task would consist of the preparation of a CEQA Notice of Exemption, well and anode bed idoes not include bid phase services or support during construction, as construction for the ICCP will be funded using previously collected Advanced Charges.

he CIP for the 2018/19 Fiscal Year. In 2006/07, Martha Jain Architect prepared concept level plans for scope would include finalizing the plans with the assumption that they would be developed to sufficient or construction. GHD would work with Martha Jain Architect to finalize the plan sheets and details as stails for the building expansion. Plan sheets will also be developed for electrical and plumbing plans. opped. The budget below assumes that minimal (8 hrs.) of electrical engineering is required to re-design o the west side of the existing control building.

er Quality Monitoring Plan (WQMP) in accordance with California Code of Regulations, Title 22, Section exact extent of the required breadth of the sections required. GHD will assist with the first section of the e hydrological and geological data of the Mad River watershed as it pertains to water quality. This task required to write this section of the WQMP.

vorld operating conditions on the Samoa Peninsula. The model was originally developed and calibrated The hydraulic behavior of the system is significantly different since that pipeline has been replaced with a amoa Booster Station have changed since the piping system can now handle higher pressures than it estion of capacity on the Samoa Peninsula is significant, particularly given the current potential for future ansmission line reduces from a 27-inch pipe to a 15-inch pipe for several miles along the peninsula. form the necessary field work to calibrate the existing water model to current operating conditions. GHD The updated model will be used to perform a capacity analysis for the system and determine what the D will prepare a technical memorandum that summarizes the model updates and the model or of the capacity analysis methodology and results; and identifies conceptual system upgrades that may ands.

upgrading the District's 15-inch domestic water pipeline on the Samoa Peninsula, which is believed to ter on the peninsula. Two alternatives are being analyzed including an upgrade alignment that follows ade alignment that parallels the existing alignment in the dunes. Based on currently available data, it iective and preferred alternative. GHD will use existing LiDAR data to develop a conceptual design conceptual alignment with the District's existing ROW data to determine locations where the District ruction of a cost effective and environmentally superior pipeline alignment in the dunes.

This work is required by FERC biennially. The District initiated this work to be done annually given FERC y walls. Targets set and baseline established in FY2010/11. New baseline was set in 2021 (See Point /ingwall Monitoring Survey - Nov 30-Dec1, 2021) Due to recent elevation fluctuations in survey data, /23 to obtain more timely data to analyze fluctuations.

rvey of the 16 vertical survey points to determine whether there is any settlement of the dam crest. It is time as the spillway and landslide surveys. It is assumed that the District will contract with a surveyor additional budget. GHD will process the data from the surveyor and prepare a summary letter report D.

ey): This work is required by FERC biennially. The District has initiated this work to be completed g monitoring of spillway walls. The monitoring surveys consist of four projects: Dam West Abutment way Wingwall Horizontal Movement; and Spillway Vertical Settlement. Targets set and baseline 2021 (See Point West, R.W.Matthews Dam - Settlement, Slide, and Wingwall Monitoring Survey - Nov

ual (formerly biennial) survey of the existing monuments at the top and bottom of the spillway walls at overnent of the walls and/or floor. A drawing and letter report summarizing the analysis and any ERC and DSOD. Note that it is assumed that the District will contract with a surveyor directly to perform the surveyor directly to perform and the surveyor directly to perform and the surveyor directly to perform the surveyor directly to perform the surveyor directly to perform and the surveyor directly to perform the survey of the surveyor directly to perform the surveyor directly to perform the surveyor directly to perform the survey of the surveyor directly to perform the surveyor directly to perform the survey of the survey of the survey of the surveyor directly to perform the survey of the survey

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õ		PROJEC	T EXPENDITURE	S THIS FY	PRC	CEEDS FOR F	PROJECTS		ADDITI CHAR	and the second second second	Resulting	2022/23		
	GORY, LOCATION, PROJECT NUMBER & TITLE	Treatment	Base Facility	Total	Advance Charges (Collected)	Grants	Reserves	Loans	Advance Charges (Cur. FY)	Debt Service	Customer Charges	Prior Year Budget Amount	CIP	
14	Matthews Dam Left Abutment Slide Area Monitoring Survey		10,000	10,000							10,000			RECURRING PROJECT (every two years - next one F Matthews Dam to determine whether there is any mover Monument and spillway walls surveys. A summary drawing
#4	Matthews Dam Left Abutment Monitoring Survey (Review of data from Points West survey above)		3,000	3,000							3,000			This task consists of the biennial survey of the eight slide landslide at the left abutment. It is assumed that this task the District will contract with a surveyor directly to perform be provided for submittal to FERC and DSOD.
#5	FY24 FERC Dam Safety Surveillance and Monitoring Report (DSSMR)		5,000	5,000							5,000	5,000		ANNUAL PROJECT-This task consists of assisting the D submitted to the State Division of Safety of Dams (DSOD majority of the report preparation, while GHD will do a rev and will do a final review of the overall report after it is as
#6	FY24 Spillway Repair, Dam Inspection & Reporting Assistance		5,000	5,000							5,000	5,000		ANNUAL PROJECT: This task is for assisting the Distric Matthews Dam, as well as other inspections and reportin delamination of the concrete on the spillway floor. Areas assessment of those repairs, and assist in the reporting a Commission.
18	FY24 FERC Chief Dam Safety Engineer		12,000	12,000							12,000	10,000		ANNUAL PROJECT - FERC requires the District have a substantial experience and knowledge about dam safety project provides for the continuation of these services. A required dam safety program compliance.
10	Adv. Assistance Spillway Seismic Grant (Project \$1.9M - FY25)		0	0					0		0	25,000		This Advanced Assistance Grant will be used to facilitate and spillway at R.W. Matthews Dam and determine appr of spillway failure that would subsequently lead to failure dam is a M9.2 event on the Cascadia Subduction Zone, response to this seismic event has not yet been analyze any proposed retrofit designs would be closely reviewed Commission (FERC). The grant request totaled \$1.9M to
Subto	otal Professional & Consulting	6,750	1,144,855	1,151,605	48,000	490,755	10,000	0	0	0	602,850	795,505		
	over Projects													
122 123 Subto	otal Carryover Projects	0	0	0	0	0	0	0	0	0	0	0		
124 Subto	otal Project Budget	1,460,450	9,438,465	10,898,915	3,671,910	4,425,755	19,500	0	0	0	2,031,750	1,592,755		
125 Indus 126	Refurbish Pump Station 6 (Phase 1)		3,500,000	3,500,000		2,800,000	700,000				0	0		Two viable industrial customers have approached the D for this project. Grant match will be from zero to 20%. If reimbursed to District from I/W customers.
127	Two Pumps, Motors, and VFD's for Pump Station 6		400,000	400,000			400,000				0			This project is the purchase of two 250HP pumps, moto
IW1	Maintain Water Supply to Industrial Pump Station 6 During Low-Flow Months		13,250	13,250							13,250	13,250		ANNUAL PROJECT: From 1976 to 1991, channel con the river bed has degraded and in the late 1980's it app structures to control water surface elevation (rock jetty a surface elevation to PS6 at 21.5 feet msl. When runoff District's HCP, a study was completed to explore option PS6. The District reserves the right and has permit aut to complete this work: 1) construction of channel 2) biol
128		1		1										

PROJECT DESCRIPTION

e FY25/26): This task consists of the bi-annual survey of the eight slide monitoring control points at vement of the landslides. It is assumed that this task will be performed at the same time as the Dam awing and letter report will be provided for submittal to FERC and DSOD.

lide monitoring control points at Matthews Dam to determine whether there is any movement of the ask will be performed at the same time as the dam monument and spillway surveys. It is assumed that form the survey work, which will require additional budget. GHD will prepare a summary letter report to

The District with the preparation of the Annual DSSMR for the R. W. Matthews Dam. This report is GOD) and the Federal Energy Regulatory Commission (FERC). The intent is that the District will do the review of the active instrumentation, determine whether the monitoring systems in place are adequate, assembled by the District, and stamp and certify the Final Report.

strict with recommendations for spillway repairs and reporting of the necessary spillway repairs at orting assistance. The 2017 inspection of the spillway found several areas where there appeared to be eas of the spillway have been repaired since the initial discovery. GHD or GEI assists the District in the ing and discussions with the State Division of Safety of Dams and the Federal Energy Regulatory

ve a Chief Dam Safety Engineer either on staff or engaged as a consultant. The individual must have fety. The District has chosen to outsource this function/duty to Bill Rettberg of GEI, Engineering. This s. As a consequence of the Oroville Dam spillway failure, both FERC and DSOD have intensified their

tate feasibility studies and engineering designs that will be used to characterize conditions at the dam appropriate actions to make the dam and spillway more resilient to natural disasters and mitigate the risk ure of R.W. Matthews dam in its entirety. A 2016 study found that the controlling ground motion for the ne, resulting in an 84th percentile peak ground acceleration (PGA) of 0.70g. The stability of the dam in lyzed. The engineering studies will be designed to meet current dam safety and seismic standards, and wed by the State of California Division of Safety of Dams (DSOD) and the Federal Energy Regulatory 9M with a District match of \$475,000

District requesting I/W. This project rehabilitates Station #6 (PS6). The District is seeking grant funds . Exact amount will not be known until grant application is approved. Match will ultimately be

otors, and VFD's for Industrial water (Pump Station 6).

conditions in Mad River allowed operation of Pump Station 6 without any water stage control. Since then, approached an elevation at which pumps would not operate. In 1991, District installed two rock tty and grade-control weir). The jetty projects from north bank and downstream weir maintains the water noff declines, for many years, the District constructed a gravel berm connecting jetty to the weir. Per the tions. The current "base case" is creation of a channel along the south bank connecting the thalweg to authority to construct the berm if the channel is not successful. This project covers activities necessary biological survey per HCP and 3) protection of aquatic species during construction.

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6	L			T EXPENDITURE	S THIS FY		CEEDS FOR F			ADDITI	State of the state	Resulting	2022/23	3	
7	CATEG	GORY, LOCATION, PROJECT NUMBER & TITLE	Treatment	Base Facility	Total	Advance Charges (Collected)	Grants	Reserves	Loans	Advance Charges (Cur. FY)	Debt Service	Customer Charges	Prior Year Budget Amount	CIP	
129	#9	Industrial System Assistance		10,000	10,000			10,000				0	10,000		This task will consist of assisting the District with the refu the Samoa Peninsula. The District has developed a bud and intake screens and pumps to provide continued ser work themselves and should not need much assistance step the voltage down to 480V instead of the current 23 some other sediment removal system on District proper may arise this year associated with the Industrial Water the figure below is simply for budgetary purposes.
130	#13	Crossover Vault Modifications (Needed for Nordic, Funded by ReMat)		32,000	32,000			32,000				0	32,000		It is possible that an engineering analysis may be require requirements. It is our understanding that staff from the connects the pipeline from Collector 1 to the industrial w their concerns. This line item includes the work detailed Scott Gilbreath, the SWRCB rep, prior to making decision
131	#20	Pump Station 6 Gravel Bar Work and Permitting		76,100	76,100			76,100				0	50,000		The existing weir in the Mad River that is intended to pre- several years, and the main channel in this reach has m California Dept. of Fish & Wildlife ways to help ensure th grading and work on the gravel bar downstream of the F updating the river model, and permitting the proposed ri Board. This line item includes the work detailed in the A industrial customer under contract. This project will be
132	Subtot	tal Industrial System Projects	0	3,955,250	3,955,250	0	2,800,000	1,142,000	0	0	0	13,250	55,250		
133		TOTAL PROJECT BUDGET	1,460,450	13,393,715	14,854,165	3,671,910	7,225,755	1,161,500	0	0	0	2,045,000	1,648,005		

PROJECT DESCRIPTION

refurbishment of the Industrial System to provide water to Nordic Aquafarms and other potential users on budget and preliminary design to refurbish the Industrial System including the Pump Station 6 building service and correct deferred maintenance on the system. The District will be able to perform most of this nce. However, there are some outstanding questions, such as whether to install new transformers that 2300V. There is also the outstanding issue of turbidity removal including whether to install a clarifier or perty. This task will consist of assisting the District with these and other engineering design issues that ter system refurbishment. It is difficult to estimate the exact amount of effort required for this task, and

quired for upgrading the domestic/industrial crossover vault at Essex to conform to SWRCB the State Water Resources Control Board expressed concern about the configuration of the vault that al waterline and that the District may need GHD to analyze options for reconfiguring the vault to address led in the February 11, 2020 scope letter. District staff continues to discuss this issue internally and with cisions on how to move forward.

b prevent the Mad River from bypassing the Pump Station 6 intake has become less efficient over the last as moved north, away from the Pump Station 6 intake. The District is in the process of discussing with re the channel in front of Pump Station 6 remains the main channel. This would likely include additional the Pump Station. GHD submitted a scope of work and budget in August 2018 for preparing design plans, ed river work with NMFS, California DFW, Army Corps of Engineers and the State Water Quality Control le August 23, 2018 scope letter. This work will likely not move forward until the District has a major **ill be funded using ReMat funds if necessary.**

MINUTES

The minutes of the April 13, 2023 meeting were not completed in time for the May 24, 2023 Special Board Meeting packet. The April minutes will be available for review and possible approval at the June 8, 2023 Regular Board Meeting.