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# CARMEL AREA WASTEWATER DISTRICT

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## Regular Board Meeting

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3945 Rio Road, Carmel, CA 93923

April 27, 2023  
Thursday  
9:00AM

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*The regular board meeting will be opened by the Board Chair and anyone wishing to address the Board on a matter not on the Agenda may do so at this time. After Appearances /Public Comment, Agenda Changes, and Employee Recognition are complete. The Board will then go into the Closed Session. Open Session will Reconvene shortly thereafter*

# **Employee Recognition**

**Closed Session**  
*Open Session Will Reconvene  
Shortly Thereafter*

# STAFF REPORT

To: Board of Directors  
From: Patrick Treanor, Acting General Manager  
Date: April 27, 2023  
Subject: Bridge To Everywhere Presentation



## RECOMMENDATION

Receive Report- Informational only; no action required

## DISCUSSION

During the meeting CAWD staff will conduct a slide show presentation. The presentation slides are posted under separate cover.

# Consent Agenda



# CARMEL AREA WASTEWATER DISTRICT REGULAR BOARD MEETING MINUTES

**Thursday, 9:00 a.m., March 30, 2023**

Via Teleconference Webinar & In Person with Proof of Vaccination

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**CALL TO ORDER - ROLL CALL** - The meeting was called to order at 9:01 a.m.

**Present:** Directors: President Ken White, Pro Tem Bob Siegfried, and Directors Greg D'Ambrosio, Mike Rachel, Kevan Urquhart

**Absent:** None

**A quorum was present.**

**Others:** Barbara Buikema, General Manager  
Carmel Area Wastewater District (CAWD or District)  
Rachél Lather, Principal Engineer, CAWD  
Patrick Treanor, Plant Engineer, CAWD\*  
Ed Waggoner, Plant Superintendent, CAWD\*  
Kevin Young, Plant Operations Supervisor, CAWD\*  
Chris Foley Maintenance Superintendent, CAWD  
Daryl Lauer, Superintendent of Collection\*  
Domine Barringer, Board Secretary, CAWD  
Robert Wellington, Wellington Law Offices, CAWD Legal Counsel  
Leo Laska, President of the Board Pebble Beach Community Services District (PBCSD) \*  
Mike Niccum, General Manager, PBCSD\*  
Nick Becker, Deputy General Manager, District Engineer, PBCSD\*

**In Person Public Attendees:**

Kate Daniels| Corona Road Resident    Chuck Keller| Resident  
David Scopp| Resident    Barbara Ricciardi| Resident    Keith Porter| Resident  
Elizabeth Oka| Resident    Dan Keig| Resident    Dasha Keig| Resident  
Denise Duffy| Denise Duffy & Associates & Robyn Simpson| Denise Duffy & Associates

**Virtual Public Attendees:**

Lilian Hull| Corona Road Resident\*    Carol Keller| Resident\*  
Shandy Carroll| Monterey County\*  
Marianna Pimentel| PBCSD\*    Yuriana Nunez| PBCSD\*

\*Signifies Virtual Attendance

**1. *Appearances/Public Comments: Public Comments (Matters Not on Agenda Any Subject):***

Public comments on non-agendized matters were received from David Scopp, Chuck Keller, Elizabeth Oka.

**Appearances/Public Comments on Agendized Items:**

Item # 21-Public Comments received by the Board from Kate Daniels, and Lillian Hull, Denise Duffy. Item #27- Shandy Carroll| Monterey County Project-Carmel River Floodplain Restoration (CRFREE).

**2. Agenda Changes:**

*The Board agreed to move Agenda Items #21, 22, 23 forward to accommodate public comment on these agenda items.*

**3. CLOSED SESSION:** *As permitted by Government Code Section 54956 et seq., the Board of Directors may adjourn to a Closed Session to consider specific matters dealing with litigation, certain personnel matters, real property negotiations, or to confer with the District’s Meyers-Milias-Brown representative.*

The board room was cleared of all in person attendees and all virtual attendees placed on hold in a waiting room. The Board went into closed session at 9:12 a.m. and discussed agenda item #3 regarding potential litigation. The closed session ended at 9:40 a.m. Legal Counsel reported that during the closed session the Board took up the matter at hand with regard to the potential litigation, and no reportable action was taken. The Board came back into open session at 9:45 a.m. and the open meeting was reconvened at 10:11 a.m. and all in person attendees were invited back into the open session and all virtual attendees had access to the audio and visual platform to participation in the meeting.

**CONSENT CALENDAR: APPROVAL OF MINUTES, FINANCIAL STATEMENTS AND MONTHLY REPORTS**

*Consists of routine items for which Board approval can be taken with a single motion and vote.*

**Board Action**

***A motion to receive and approve the consent agenda was made by Director Urquhart and seconded by Director Rachel. After a Roll Call vote, the Board unanimously received and approved the following Consent Calendar/Agenda items.***

- 4.** Approve February 23, 2023, Regular Board Meeting Minutes & 02-13-2023 Pension Minutes  
02-16-2023 Budget Minutes  
03-09-2023 Budget Minutes  
03-13-2023 Special Board Minutes  
03-20-2023 Budget Meeting Minutes
- 5.** Receive and Accept Bank Statement Review by Clifton Larson Allen (CLA) – February 2023
- 6.** Receive and Accept Schedule of Cash Receipts & Disbursements- February 2023
- 7.** Approve Register of Disbursements – Carmel Area Wastewater District – February 2023
- 8.** Approve Register of Disbursements – CAWD/PBCSD Reclamation Project February,2023
- 9.** Receive and Accept Financial Statements and Supplementary Schedules – February,2023
- 10.** Receive and Accept Collection System Superintendent’s Report –February 2023
- 11.** Receive and Accept Safety and Regulatory Compliance Report –February 2023



12. Receive and Accept Treatment Facility Operations Report –February 2023  
January 2023 & December 2022
13. Receive and Accept Laboratory/Environmental Compliance Report –February 2023
14. Receive and Accept Capital Projects Report/Implementation Plan
15. Receive and Accept Project Summaries – Capital & Non-Capital
16. Receive and Accept Plant Operations Report – February 2023
17. Receive and Accept Maintenance Projects Report – February 2023
18. Receive and Accept District Engineer’s Report – March 2023

## **ACTION ITEMS BEFORE THE BOARD**

*Action Items consist of business which requires a vote by the Board. These items are acted upon in the following sequence: (1) Staff Report (2) Board Questions to Staff (3) Public Comments, and (4) Board Discussion and Action.*

## **RESOLUTIONS**

19. **Resolution No. 2023-23;** Resolution Accepting the Lowest Responsible Bid For The 2022-2023 Pipeline Spot Repairs Project #23-02 And Awarding Contract in An Amount Not to Exceed \$118,700– *Report by District Engineer, Rachel Lather*

### ***Board Action***

***After brief discussion, a motion to approve the resolution was made by Director Rachel and seconded by Director Siegfried. Following a Roll Call vote, the Board unanimously passed Resolution 2023-23. Accepting the lowest responsible bid for the 2022-2023 pipeline spot repairs project #23-02 and awarding the contract to Rooter King in an amount not to exceed \$118,700***

20. **Resolution No. 2023-24;** Contract With Monterey Peninsula Engineering For \$53,830 To Pay For Initial Work Performed At Lorca Lane Project #22-07– *Report by District Engineer, Rachel Lather*

### ***Board Action***

***After brief discussion, a motion to approve the resolution was made by President White and seconded by Director D’Ambrosio. Following a Roll Call vote, the Board unanimously passed Resolution 2023-24 to enter into a contract with Monterey Peninsula Engineering for \$53,830 to pay for initial work performed at Lorca Lane project #22-07***

*Director D’Ambrosio asked about the repaving of the street by the County. The District Engineer, replied that the County is most likely responsible for the painting and she will confirm with the County.*

- 21. Resolution No. 2023-25;** Resolution To Adopt An Initial Study/Mitigated Negative Declaration (IS/MND) And; The Mitigation Monitoring & Reporting Program (MMRP) And Approve The Project For The Corona Road Sewer Extension Project- #18-21-  
*Report by District Engineer, Rachel Lather*

***Board Action***

***After brief discussion, a motion to approve the resolution was made by Director Urquhart and seconded by Director D'Ambrosio. Following a Roll Call vote, the Board unanimously passed Resolution 2023-25. To adopt an initial study/mitigated negative declaration (IS/MND) and; the mitigation monitoring & reporting program (MMRP) and approve the project for the Corona Road Sewer Extension Project- #18-21.***

- 22. Resolution No. 2023-26;** Resolution Authorizing The General Manager To Enter Into A Contract Amendment No. 2 With Denise Duffy & Associates To Provide Additional Environmental Consulting Services For The Corona Road Sewer Extension Project #18-21 In An Amount Not To Exceed \$62,867- *Report by District Engineer, Rachel Lather*

***Board Action***

***A motion to approve the resolution was made by Director Urquhart and seconded by Director Rachel. Following a Roll Call vote, the Board unanimously passed Resolution 2023-26 to enter into a contract amendment no. 2 with Denise Duffy & Associates to provide additional environmental consulting services for the Corona Road Sewer Extension Project #18-21 in an amount not to exceed \$62,867.***

- 23. Resolution No. 2023-27;** Resolution Adopting A Memorandum Of Agreement (MOA) Between County of Monterey And Carmel Area Wastewater District ("District") Regarding Carmel River Flood Plain Restoration And Environmental Enhancement Project-*Report by General Manager, Barbara Buikema*

***Board Action***

***After a lengthy discussion, a motion to approve the amended resolution was made by Director Siegfried and seconded by D'Ambrosio. Following a Roll Call vote, the Board unanimously passed Resolution 2023-27, adopting a Memorandum of Agreement (MOA) between County of Monterey and Carmel Area Wastewater District ("District") regarding Carmel River Flood Plain Restoration and Environmental Enhancement Project***

*The amendment requested by Director Siegfried requested a language change to ensure that in the event of cost overruns additional funding is not coming from District funds. The board agreed to approving this resolution as amended and to remove the contradiction.*

*The General Manager, Barbara Buikema, requested that the Monterey County representative, Shandy Carroll, take it before the County for the language change. If the County approves and removes the contradiction the District motion will stand. If the County does not approve the language change the District motion will be null and void.*

*Shandy Carroll| Monterey County stated that it will be brought to the County Board at the end of April, which will allow for signatory by both the County and CAWD. She also referenced section 2.03.*

*General Manager clarified that the language to the County is that the District will not compromise the District's Operations and Maintenance and will not approve any change to plans and specifications that would compromise the project.*

- 24. Resolution No. 2023-28;** A Resolution Adopting a Debt Management Policy In Compliance With California Government Code Section 8855(I)-*Report by General Manager, Barbara Buikema*

***Board Action***

***After brief discussion, a motion to approve the resolution was made by Director Siegfried and seconded by Director Rachel. Following a Roll Call vote, the Board unanimously passed Resolution 2023-28 adopting a Debt Management Policy***

**COMMUNICATIONS**

- 25.** General Manager Report – oral report covering the last two weeks of February 2023, \*  
was presented by the Acting General Manager, Chris Foley

**OTHER ITEMS BEFORE THE BOARD**

- 26.** Carmel Area Wastewater District's Fiscal Year (FY) 2023-2024 Preliminary Budget–  
*Report by General Manager, Barbara Buikema and Maintenance Superintendent, Chris Foley*

***Action Required*** – *Requesting A Motion to Accept the Fiscal Year 2023-2024 Preliminary Budget Preliminary Budget Under Separate Cover e*

***Board Action***

***After brief discussion, a motion to approve the FY 2023-20234 Preliminary Budget was made by Director Rachel and seconded by Director D'Ambrosio. Following a Roll Call vote, the Board unanimously accepted the 2023-2024 Preliminary Budget.***

- 27.** Carmel Area Wastewater District's Fiscal Year 2023-2024 Preliminary Rate Model– *Report by General Manager, Barbara Buikema and Maintenance Superintendent, Chris Foley*

***Action Required*** – *Requesting A Motion to Accept the Fiscal Year 2023-2024 Preliminary Rate Model*

**Board Action**

***After brief discussion, a motion to approve the fiscal year rates for 2023-2024 was made by Director Siegfried and seconded by President White. Following a Roll Call vote, the Board unanimously accepted the Fiscal Year 2023-2024 Preliminary Rate Model.***

- 28.** Section 115 footnote disclosure for the published Carmel Area Wastewater District's Financial Audit Fiscal Year ending 6-30-2022. Director Siegfried requested that this footnote disclosure discussion be agendaized and there was a board consensus to add this to the March agenda. The request by Director Siegfried is for the Pun Group to insert additional information regarding the Strategy 2 column with asset classes and benchmarks to be shown.

*During the discussion, Director Siegfried requested proof that the PUN Group provided The Secretary of State with the corrected edited footnote disclosure. The General Manager confirmed that the District has filed the report with the State Controller's Office with the correct numerical component, but there is no requirement as to how the State discloses submission of footnote disclosures.*

*President White asked if there is a need to discuss this item any further and there was no further comments from the Board regarding this item and President White called for Board Action.*

**Action Required** – Requesting A Motion to Accept the edited footnote disclosure for Section 115

**Board Action**

***After a discussion, a motion to accept the edited footnote was made by President White and seconded by Director Rachel, with a No vote from Director Siegfried. Following a Roll Call vote, the Board accepted the edited footnote disclosure.***

- 29.** Annexation Cost – Trust Fund – Cost Of Living Adjustment (COLA) Inflation– Report by General Manager, Barbara Buikema

*During the discussion Director Siegfried would like to see the value that is funded the system is paid by the rate payer that originally funded the system. The value that is paid should be the same or closely approximated to current costs. The suggestion proposed by Director Siegfried, was to increase the annexation fees by the Consumer Price Index (CPI).*

*The goal is to recoup the fee for the current rate payers that the benefits future connections the constituents are going to receive.*

*The General Manager stated that a charge for annexations can be brought to the Board every year. The issue at hand is that there are two different annexations occurring in different years, with different fees due to different parameters.*

*Over time, the tracking of annexation fees will be difficult to track due to the iterations of fees per annexation, based on the size and the timeline for the project to be completed.*

*President White stated that the District needs to formulate what is needed to calculate the fee based on all of the parameters.*

**Board Action**

***After the discussion, a motion to table the discussion for further consideration at some point in time regarding annexation costs was made by Director Siegfried and seconded by President White. Following a Roll Call vote, the Board, unanimously agreed to table the conversation.***

- 30.** *Other Director's Compensation Amounts in the County– Report by General Manager, Barbara Buikema*

**Board Action**

***After brief discussion, a motion to approve the report and keep the Director's compensation "as is" was made by Director Rachel and seconded by Director Urquhart. Following a Roll Call vote, the Board unanimously agreed to keep compensation as status quo.***

- 31.** *General Manager's role as Trustee on the Pension Committee as requested by Director Siegfried and agreed by the Board to agendaize.*

*During the discussion Director Siegfried stated that the General Manager membership in the Pension Committee, being bound to the General Manager's position could be putting this position in legal jeopardy.*

*Legal Counsel, Rob Wellington stated that expertise is important and conversion to the 338 Plan did provide adequate protection for all the participating committee members. The protection comes from the committee having an investment manager. Barbara with her institutional knowledge and her experience in finance is a very valued member of the committee. However, it is a good point when recruiting a new General Manager that this topic of having the General Manager with a Trustee role on the Pension Committee should be reviewed.*

*The General Manager, Barbara Buikema, stated that the current Pension plan the District has cannot be terminated. She advised that the District hire a Pension attorney for any further discussion.*

*President White stated it is important that a staff member be present on the Pension Committee.*

**Board Action**

***After brief discussion, a motion to accept the report and take no further action was made by Director Urquhart and seconded by Director Siegfried. Following a Roll Call vote, the Board, unanimously agreed no further action is to be taken.***

**INFORMATION/DISCUSSION ITEMS**

- 32.** *February Construction Updates of Project #18-01  
Electrical/Mechanical Rehab and Sludge Holding Tank Replacement –  
Report by Plant Engineer, Patrick Treanor*

33. February 24, 2023, PBCSD Board Meeting Summaries-  
*Report by Maintenance Superintendent, Chris Foley*

**34. Announcements on Subjects of Interest to the Board Made by Members of the Board or Staff**

*Oral reports or announcements from Board President, Directors or staff concerning their activities and/or meetings or conferences attended.*

**PBCSD Board Public Meeting Notice & Agenda** – The next PBCSD meeting is scheduled for:  
*Friday, March 31, 2023, at 9:30 a.m. – Director Rachel is scheduled to attend.*  
*Friday, April 28, 2023, at 9:30 a.m. – Director Siegfried is scheduled to attend.*

**Special Districts Association of Monterey County** – The next SDA meeting is scheduled for:  
*Tuesday, April 18, 2023, at 6:00 p.m. – President White is scheduled to attend.*  
*Tuesday, July TBD, 2023, at 6:00 p.m. – Director Rachel is scheduled to attend.*

**Reclamation Management Committee (RMC) Meeting** – The next RMC meeting is scheduled for:  
*Tuesday, May 9, 2023, at 9:30 a.m. Director Rachel is scheduled to attend.*

**35. ADJOURNMENT:**

*The Board adjourned open session at 9:01 a.m. and took a 5-minute break to clear the room of public attendees. The Board then convened into closed session at 9:12 a.m. The Board came out of closed session at 9:40 a.m., and Legal Counsel reported that during the closed session the Board took up, the matter at hand with regard to the potential litigation, and no reportable action was taken. The Board reconvened back into open session at 9:45 a.m. and the meeting was convened at 12:03 p.m.*

*As Reported To:*

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*Domine Barringer, Secretary to the Board*

**APPROVED:**

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*Ken White, President of the Board*



**CARMEL AREA WASTEWATER DISTRICT (CAWD)  
BUDGET STANDING COMMITTEE MEETING MINUTES**

*February 27, 2023, Monday, 1:30 p.m.*

**3645 Rio Road, Carmel, CA 93923**

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**CALL TO ORDER - ROLL CALL:**

The meeting was called to order at 1:32 p.m.

**Present:** President Pro Tem Robert Siegfried, Committee member  
Director Greg D'Ambrosio, Committee member  
Barbara Buikema, General Manager  
Chris Foley, Maintenance Superintendent (Acting General Manager)

**Absent:** None

**Appearances/Public Comments:** None

**Agenda Changes:** None

**AGENDA ITEMS:**

The committee discussed the following agenda items:

- Review of the Fiscal Year District Budget 2023-2024 with updated actuals .
  - Direction provided to reduce Operations & Maintenance (O&M) budget by 10% to bring more in line with historical budget to actual.
  - Staff to bring back updated O&M budget and rate model to reflect O&M changes.

**ADJOURNMENT:** *There being no further business to come before the Committee, the meeting concluded at 3:28 : p.m. The next Regular Board Meeting will be held at 9:00 a.m., Thursday, March 30, 2023, or an alternate acceptable date, in person and via teleconference webinar. The teleconference webinar is hosted through Zoom and you may receive access by visiting our website homepage, [www.cawd.org](http://www.cawd.org), calling the District office at 831-624-1248 or via email at [downstream@cawd.org](mailto:downstream@cawd.org).*

***As Reported To:***

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***Chris Foley, Acting General Manager***

**APPROVED:**

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***Ken White, President***



**CARMEL AREA WASTEWATER DISTRICT (CAWD)**  
**PENSION STANDING COMMITTEE MEETING MINUTES**  
*April 10, 2023, Monday, 10:00 a.m.*

**Via teleconference and in-person**

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**CALL TO ORDER - ROLL CALL:**

The meeting was called to order at 10:08 a.m.

**Present:** President Pro Tem Robert Siegfried, Committee member  
Kevan Urquhart, Director Committee member  
Robert Wellington, Legal Counsel  
Barbara Buikema, General Manager  
Patrick Treanor, Plant Engineer

**Absent:** None

**Appearances/Public Comments:** None

**Agenda Changes:** None

**AGENDA ITEMS:**

The committee discussed developing fixed asset strategy.

**ADJOURNMENT:** *There being no further business to come before the Committee, the meeting concluded at 11:10 a.m. The next Regular Board Meeting will be held at 9:00 a.m., Thursday, April 27, 2023, or an alternate acceptable date, in-person and via teleconference webinar. The teleconference webinar is hosted through Zoom, and you may receive access by visiting our website homepage, [www.cawd.org](http://www.cawd.org), calling the District office at 831-624-1248 or via email at [downstream@cawd.org](mailto:downstream@cawd.org).*

***As Reported To:***

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***Barbara Buikema, General Manager***

**APPROVED:**

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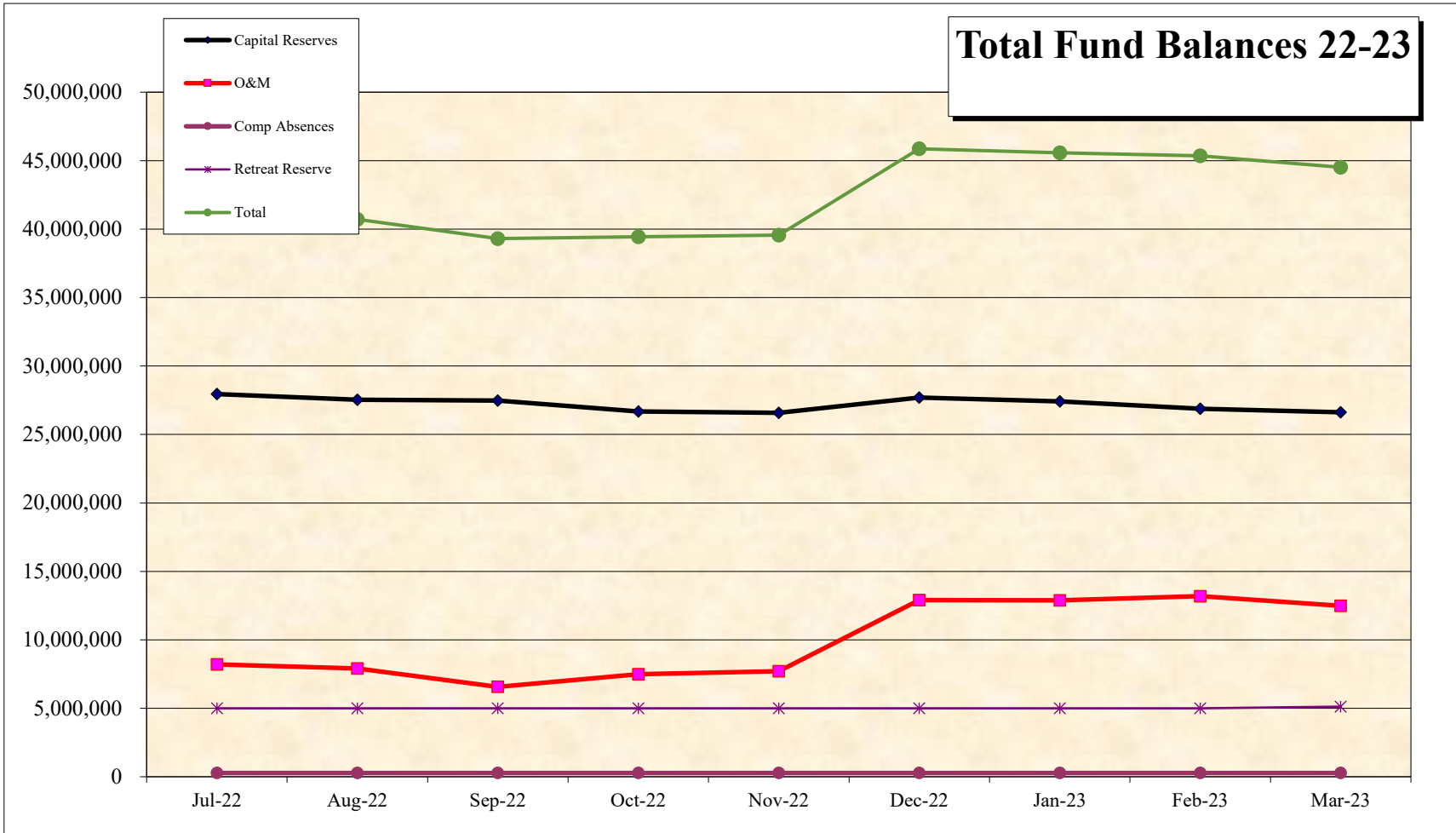
***Ken White, President***



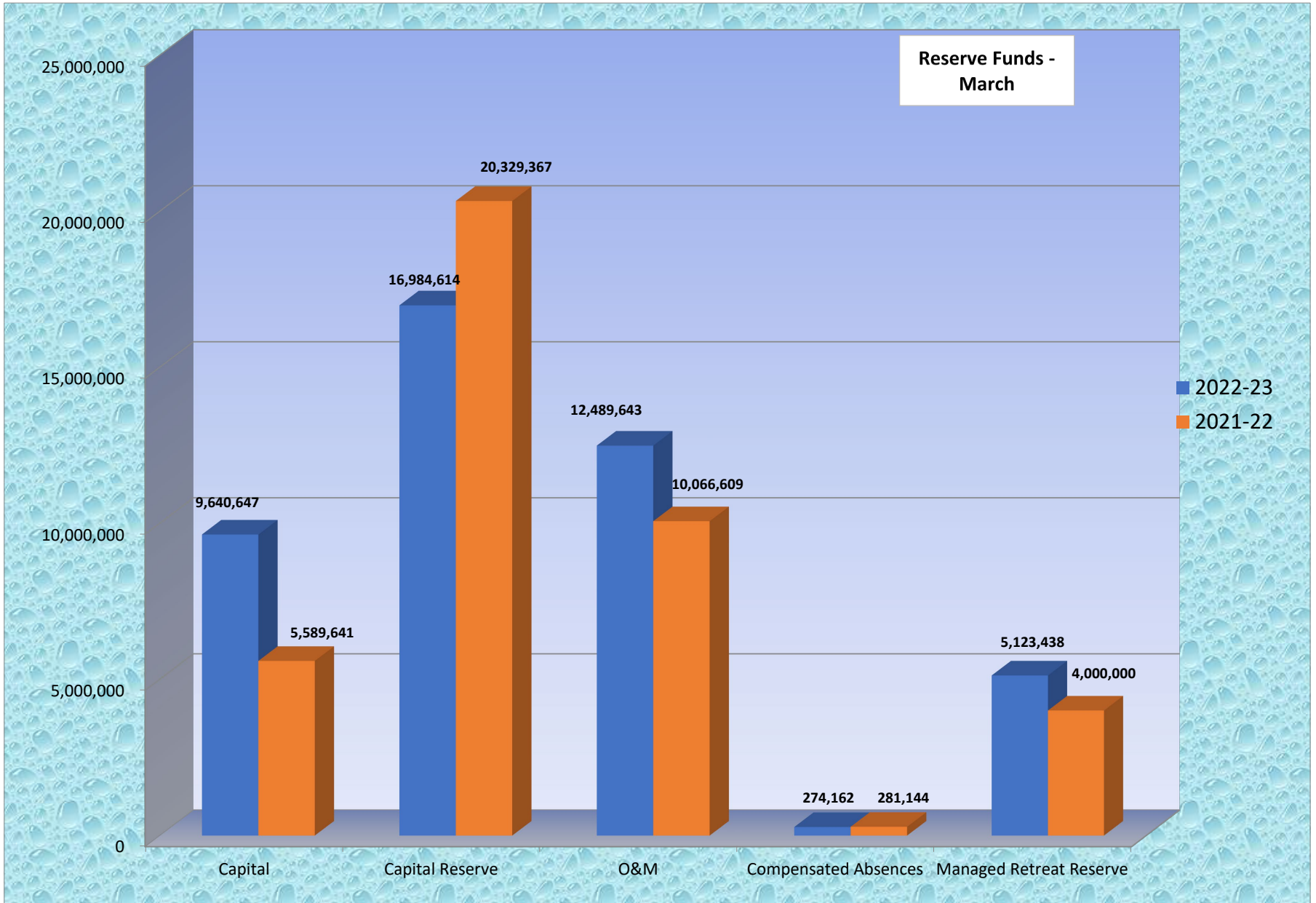
**Clifton Larsen Allen (CLA), LLP**  
**March 2023**  
**Independent Accountants' Report**  
*will be inserted at the board meeting*

**Carmel Area Wastewater District**  
**Schedule of Cash Receipts and Disbursements - MARCH 2023**

	Capital Fund	Capital Improvement Reserve	General O & M Fund	Compensated Accruals Reserve	Defend or Managed Retreat Reserve	COUNTY Total Fund Balance	Chase Bank O & M Balance	Chase Bank PR Balance	L.A.I.F. Balance
BALANCE BEGINNING OF MONTH	\$9,962,946	\$16,919,107	\$13,191,992	\$274,162	\$5,000,000	\$45,348,208	\$409,459	\$10,964	\$1,210,849
<b>Receipts:</b>									
User Fees			309,289						
Property Taxes		65,507							
PBCSD Treatment Fees							115,000		
Reclamation O & M reimbursement							72,189		
Reclamation capital billing									
Permits							6,030		
PBCSD capital billing									
Other misc. revenue							23,441		
Interest income									
Connection Fees									
CCLEAN receipts									
CRFree Project grant funds							30,571		
Carmel Reserve LLC-Sept. Ranch Project review fees							319,662		
Greeley and Hansen return duplicate check									
Void checks-replace lost checks									
<b>Total Receipts</b>	<b>0</b>	<b>65,507</b>	<b>309,289</b>	<b>0</b>	<b>0</b>	<b>374,796</b>	<b>566,893</b>	<b>0</b>	<b>0</b>
<b>Fund Transfers:</b>									
Transfers to Chase Bank O&M	(322,299)		(877,701)				1,200,000		
Transfers to Chase Bank PR							(240,000)	240,000	
Transfer to Defend or Managed Retreat Fund			(123,438)		123,438				
Intra-fund transfers for capital expenditures									
Rebalance Capital and O&M Reserves									
<b>Total Transfers</b>	<b>(322,299)</b>	<b>0</b>	<b>(1,001,138)</b>	<b>0</b>	<b>123,438</b>	<b>(1,200,000)</b>	<b>960,000</b>	<b>240,000</b>	<b>0</b>
<b>Disbursements:</b>									
Operations and capital							914,816		
Payroll & payroll taxes								243,206	
Employee Dental reimbursements							1,534		
CALPERS EFT							35,179		
CAWD SAM pension EFT							0		
CAWD pension loans EFT							0		
Home Depot EFT							1,533		
US Bank EFT							8,572		
Deferred comp contributions EFT							12,508	0	
PEHP contributions EFT							3,169	0	
Bank/ADP fees							0	804	
Highlands Bond Debt Service Payment			10,500						
Annual County admin billing fee									
Greeley Hansen deposit lost check									
HCM Unlocked EFT							2,250		
<b>Total Disbursements</b>	<b>0</b>	<b>0</b>	<b>10,500</b>	<b>0</b>	<b>0</b>	<b>10,500</b>	<b>979,562</b>	<b>244,011</b>	<b>0</b>
BALANCE END OF MONTH	9,640,647	16,984,614	12,489,643	274,162	5,123,438	44,512,503	956,790	6,954	1,210,849



*Capital Reserve + O&M + O&M Reserve + Compensated Absences Reserve = Total Fund held in County*



**Carmel Area Wastewater District**  
**Disbursements**  
**Mar-23**

<b>Date</b>	<b>Check</b>	<b>Vendor</b>	<b>Description</b>	<b>Amount</b>
03/01/23	4117	Alameda Electrical Distributors	Plant building electrical supplies	961.10
03/01/23	4118	Amazon Capital Services	Plant battery charger and paper towels	126.86
03/01/23	4119	American Fidelity Assurance Company	Flex accounts	203.84
03/01/23	4120	American Fidelity Assurance	Employee insurance premiums	1,102.02
03/01/23	4121	Applied Marine Sciences	CCLEAN expenses	4,198.77
03/01/23	4122	Aquatic Bioassay & Consulting	Sample analysis	1,280.00
03/01/23	4123	AT&T Mobility	SCADA text modem	70.72
03/01/23	4124	AT&T	Plant fiber router, IP card and voice routing	771.43
03/01/23	4125	Beck's Shoes	Employee work boots	639.67
03/01/23	4126	Borges & Mahoney	Operating supplies	662.84
03/01/23	4127	Burleson Consulting	Perimeter Fence Project #19-18 (CAPITAL)	1,485.00
03/01/23	4128	Cintas Corporation #63D	Laundry service	831.80
03/01/23	4129	Comcast	Admin internet	276.41
03/01/23	4130	Direct TV	Plant service	95.99
03/01/23	4131	Domine Barringer	Dental	200.00
03/01/23	4132	Edges Electrical Group	Five circuit breakers	2,095.74
03/01/23	4133	EMC Planning Group	Elec/Mech Rehab and Holding Tank Project #18-01 (CAPITAL)	3,004.08
03/01/23	4134	Equitable Financial Life Insurance	Life insurance, long-term and short-term disability premiums	2,606.23
03/01/23	4135	Evantec Corporation	Lab supplies	215.84
03/01/23	4136	Got.Net	Domain parking	4.20
03/01/23	4137	Grainger	Operating supplies	2,884.45
03/01/23	4138	Greeley and Hansen	Long term sea level rise planning	10,614.05
03/01/23	4139	Idexx Laboratories	Lab supplies	2,453.25
03/01/23	4140	Image Source	Plant copier	97.00
03/01/23	4141	Kennedy/Jenks Consultants	Elec/Mech Rehab and Holding Tank Project #18-01 and Vactor Receiving Station Project #22-06 (CAPITAL)	19,189.75
03/01/23	4142	Liebert Cassidy Whitmore	Annual Employment Relations Consortium membership	3,560.00
03/01/23	4143	McMaster-Carr	Operating supplies	201.27
03/01/23	4144	Patelco Credit Union	Health savings accounts contributions	4,786.70
03/01/23	4145	Peninsula Welding & Medical Supply	Non-liquid cylinder rent	38.70
03/01/23	4146	Pure Water	Plant and admin service	170.75
03/01/23	4147	Quill LLC	Office supplies	41.36
03/01/23	4148	Rooter King Monterey County	Clean drain and repair Sloan flush valve at the Plant	360.00

**Carmel Area Wastewater District**  
**Disbursements**  
**Mar-23**

<b>Date</b>	<b>Check</b>	<b>Vendor</b>	<b>Description</b>	<b>Amount</b>
03/01/23	4149	Sierra Printers	Employee hooded sweatshirts and caps	1,407.90
03/01/23	4150	Streamline	Website maintenance	400.00
03/01/23	4151	State Water Resource Control Board	Annual discharge permit fee for Hatton Canyon pipeline	365.00
03/01/23	4152	Toro Petroleum	Mobil SHC oil	288.63
03/01/23	4153	ULINE	Plant black carpet mats and sewer cantilever single side and add-on	4,279.28
03/01/23	4154	Univar Solutions USA Inc.	Sodium hypochlorite	11,878.44
03/01/23	4155	Universal Staffing	Admin temp service	648.00
03/01/23	4156	Vision Service Plan	Vision insurance premium	551.25
03/01/23	4157	Weco Industries	Operating supplies	534.26
03/01/23	4158	Whitson Janitorial Service	Plant and admin service	1,625.00
03/03/23	4159	Amazon Capital Services	Admin office supplies	107.74
03/03/23	4160	AT&T CALNET 3	Admin alarm	36.37
03/03/23	4161	Bay Area Barricade Service	Balance due for barricades	56.87
03/03/23	4162	Biobot Analytics	Influent sample testing	1,400.00
03/03/23	4163	CAWD\PBSCD Reclamation Project	Reimbursement for tertiary lab PG&E	944.34
03/03/23	4164	Cintas Corporation #63D	Laundry service	415.14
03/03/23	4165	CliftonLarsonAllen LLP	Bank reconciliation oversight	450.00
03/03/23	4166	Fastenal Company	Operating supplies	1,179.81
03/03/23	4167	FGL Environmental	Sample analysis	1,062.00
03/03/23	4168	McMaster-Carr	Operating supplies	30.23
03/03/23	4169	Motion Industries	Operating supplies	250.22
03/03/23	4170	Pacific Gas & Electric	Monthly service	7,841.06
03/03/23	4171	Quill LLC	Office supplies	587.11
03/03/23	4172	Scarborough Lumber (ACE)	Plant, collections and admin supplies	292.98
03/03/23	4173	Siemens Industry	Echomax transducers	2,702.37
03/03/23	4174	Winsupply of Monterey County	Pump station repair parts	1,928.38
03/15/23	4175	Acme Analytical Solutions	Iodine and potassium iodate	560.78
03/15/23	4176	Alameda Electrical Distributors	Repair parts for Plant building	608.16
03/15/23	4177	Amazon Capital Services	Collection supplies	364.99
03/15/23	4178	Ann Muraski	Downpayment for the Spring-Summer newsletter design	7,000.00
03/15/23	4179	Applied Marine Sciences	January CCLEAN expenses	72,632.09
03/15/23	4180	AT&T Mobility	Cell service	795.88
03/15/23	4181	AT&T CALNET 3	Plant fiber line	616.60

**Carmel Area Wastewater District**  
**Disbursements**  
**Mar-23**

<b>Date</b>	<b>Check</b>	<b>Vendor</b>	<b>Description</b>	<b>Amount</b>
03/15/23	4182	Best Best & Krieger LLP	District legal services	3,419.60
03/15/23	4183	Borges & Mahoney	Operating supplies	2,459.73
03/15/23	4184	Bryan Mailey Electric	Plant and collections electrical services	9,825.00
03/15/23	4185	California American Water	Monthly service	1,724.66
03/15/23	4186	Cintas Corporation #63D	Laundry service	406.31
03/15/23	4187	Coastal Paving & Excavating	Emergency repair-300 feet of sewer line on Scenic Road <b>(CAPITAL)</b>	257,273.14
03/15/23	4188	Daniel Deeth	Dental	348.65
03/15/23	4189	Eaton Corporation	Annual preventative maintenance renewal	2,413.63
03/15/23	4190	Exceedio	Server warranty renewal	815.28
03/15/23	4191	Ferguson Enterprises	Operating supplies	299.43
03/15/23	4192	Fisher Scientific	Lab supplies	774.83
03/15/23	4193	Grainger	Safety supplies	261.06
03/15/23	4194	Hach Company	Kit, sensor cap replacement	737.05
03/15/23	4195	ICON Cloud Solutions	Telephone service	599.43
03/15/23	4196	Kemira Water Solutions	Ferric chloride	8,480.87
03/15/23	4197	Michael Rachel	Dental	206.00
03/15/23	4198	Mission Communications	Annual renewal for manhole monitoring	4,215.60
03/15/23	4199	Murphy Austin Attorneys	Legal services-Monterey County option agreement	3,202.50
03/15/23	4200	Pacific Gas & Electric	Monthly service	29,407.28
03/15/23	4201	Quill LLC	Office supplies	368.17
03/15/23	4202	Robert Bowman	Dental	169.00
03/15/23	4203	Rockwell Engineering and Equipment	DAFT pump rotors and repair parts	4,196.33
03/15/23	4204	Rooter King Monterey County	Sewer line repair at 4320 Canada Ct.	7,500.00
03/15/23	4205	SRT Consultants	Carmel Meadows Gravity Sewer Project #19-03 final design and Bay/Scenic Pump Station Rehab. Project #20-07 <b>(CAPITAL)</b>	16,282.48
03/15/23	4206	Star Sanitation LLC	Collections portable toilet rental	24.30
03/15/23	4207	Synagro Technologies	Sludge hauling and January price increase billing	16,625.97
03/15/23	4208	Toro Petroleum	Mobil SHC oil	573.57
03/15/23	4209	Town & Country Gardening	Plant and admin service	700.00
03/15/23	4210	Trevor Weidner-Holland	Dental	151.00
03/15/23	4211	Univar Solutions USA Inc.	Sodium bisulfate	6,949.91
03/15/23	4212	USA Blue Book	Operating supplies	1,159.06
03/15/23	4213	WateReuse Association	Annual dues	876.71

**Carmel Area Wastewater District**  
**Disbursements**  
**Mar-23**

<b>Date</b>	<b>Check</b>	<b>Vendor</b>	<b>Description</b>	<b>Amount</b>
03/15/23	4214	WM Corporate Services	Plant and admin garbage and recycling	2,109.31
03/16/23	4215	Applied Marine Sciences	July-December 2022 CCLEAN expenses	131,582.39
03/22/23	4216	Accelerated Technology Laboratories	Annual support renewal for LIMS lab software	5,664.87
03/22/23	4217	Amazon Capital Services	Safety glasses and battery charger	237.42
03/22/23	4218	Applied Marine Sciences	CCLEAN expenses and 10year Carmel Bay ASBS Study	88,317.14
03/22/23	4219	AT&T	Voice routing	53.81
03/22/23	4220	Buckles-Smith Electric	Tech Connect Automation Services Agreement	1,431.54
03/22/23	4221	Comcast	Admin internet	276.41
03/22/23	4222	Comcast	Pump station internet	537.00
03/22/23	4223	Culligan Water Conditioning	Lab supplies	46.35
03/22/23	4224	Daniel Deeth	Dental	459.80
03/22/23	4225	Drewry Distributing Inc.	Wet well air mixer	4,335.00
03/22/23	4226	El Camino Machine & Welding	Fabricate pipes	161.65
03/22/23	4227	FedEx	Shipping charges for samples	58.95
03/22/23	4228	Frisch Engineering	Elec/Mech Rehab and Holding Tank Project #18-01 <b>(CAPITAL)</b>	21,320.00
03/22/23	4229	Grainger	Safety and operating supplies	733.85
03/22/23	4230	Hach Company	Lab supplies	792.97
03/22/23	4231	ICONIX Waterworks	Repair parts for sewers	4,241.38
03/22/23	4232	Johnson Associates	Fuel transfer pump, hose and nozzle	822.54
03/22/23	4233	Monterey Bay Engineers	Emergency Lorca Lane Sewer Relocation #22-07 <b>(CAPITAL)</b>	3,745.00
03/22/23	4234	Motion Industries	Traction oil	267.75
03/22/23	4235	Quill LLC	Office supplies	362.62
03/22/23	4236	Toro Petroleum	Gasoline and diesel	15,908.50
03/22/23	4237	Univar Solutions USA Inc.	Sodium bisulfate and hypochlorite	19,241.17
03/22/23	4238	Wellington & Rathie	District legal services	3,843.00
03/22/23	4239	Whitson Janitorial Service	Plant and admin janitorial service	1,300.00
03/22/23	4240	Wildhorse Propane & Appliance	Highlands generator propane	881.91
03/30/23	4241	Monterey County Clerk	Corona Road Sewer Extension Project #18-21 NOD fee	2,814.00
03/30/23	4242	Public Agency Coalition Enterprise	Health insurance	33,287.29
				<b>916,350.87</b>



**CAWD/PBCSD Reclamation Project**  
**Disbursements**  
**Mar-23**

<b>Date</b>	<b>Check</b>	<b>Vendor</b>	<b>Description</b>	<b>Amount</b>
03/01/23	884	Acme Analytical Solutions	Lab supplies	63.63
03/01/23	885	Brenntag Pacific, Inc.	Ammonium hydroxide	5,046.56
03/01/23	886	Cal-Am Water Company	Hydrant meter K	2,894.54
03/01/23	887	Frisch Engineering, Inc.	SCADA Migration Project #21-09 <b>(CAPITAL \$4,320.00)</b> and SCADA engineering service	4,665.00
03/01/23	888	Idexx Laboratories	Lab supplies	2,453.25
03/01/23	889	Kennedy/Jenks Consultants	Asset Analysis and Master Plan Project #22-05 <b>(CAPITAL)</b>	44,324.50
03/01/23	890	Lenntech USA LLC	Grundos pump without motor	8,072.40
03/01/23	891	McMaster-Carr	Operating supplies	122.15
03/01/23	892	Motion Industries	Operating supplies	751.96
03/01/23	893	Pebble Beach Company	Bond principal and interest, past letter of credit and bond fees and project rep costs	273,681.32
03/01/23	894	Professional Water Technologies	Opticlean-S-45 clean-in-place chemical	4,682.06
03/01/23	895	SCP Science	Lab supplies	225.99
03/01/23	896	Siemens Industry	CLS200 rod-digital point level switch	1,741.24
03/01/23	897	Trussell Technologies Inc.	MF/RO Ops Support Data Review	995.00
03/03/23	898	Brenntag Pacific, Inc.	Brennfloc RE 5000	13,317.48
03/03/23	899	MANCO	Magnetic flow meter system	5,426.31
03/03/23	900	Pacific Gas & Electric	Tertiary billing	8,380.23
03/03/23	901	T&T Valve and Investment	High performance valves	10,111.09
03/03/23	902	Thatcher Company of California	Citric acid	7,924.45
03/15/23	903	Alameda Electrical	Sulfuric Acid Tank Project #18-26 <b>(CAPITAL)</b>	476.91
03/15/23	904	Borges & Mahoney	2rpm synch motor, 600rpm motor and parts	3,320.25
03/15/23	905	Bryan Mailey Electric	Electrical service	150.00
03/15/23	906	Coastal Fabrication	Fabricate 12 Jack bolts and steel bar	1,374.27
03/15/23	907	Eaton Corporation	Annual preventative maintenance renewal	2,413.63
03/15/23	908	Ferguson Enterprises	Service sink faucet	339.99

**CAWD/PBCSD Reclamation Project**  
**Disbursements**  
**Mar-23**

<b>Date</b>	<b>Check</b>	<b>Vendor</b>	<b>Description</b>	<b>Amount</b>
03/15/23	909	Inorganic Ventures	Lab supplies	650.40
03/15/23	910	Fisher Scientific	Lab supplies	616.95
03/15/23	911	Trussell Technologies Inc.	MF/RO Ops Support Data Review	767.50
03/15/23	912	Hach Company	Kit, flow regulator	289.63
03/15/23	913	<b>VOID</b>	<b>VOID</b>	0.00
03/15/23	914	Harrington Industrial Plastics	Sulfuric Acid Tank Project #18-26 ( <b>CAPITAL</b> )	135.76
03/16/23	915	Carmel Area Wastewater District	O&M reimbursement	61,022.52
03/22/23	916	Accelerated Technology Laboratories	Annual support for LIMS lab software	5,664.87
03/22/23	917	Carmel Area Wastewater District	January and February sodium bisulfate and hypochlorite	11,166.41
03/22/23	918	Frisch Engineering, Inc.	Sulfuric Acid Tank Project #18-26 ( <b>CAPITAL</b> )	390.00
03/22/23	919	Hach Company	Lab supplies	834.15
03/22/23	920	Microgenics Corporation	Lab supplies	547.23
03/22/23	921	Pebble Beach Community Services District	February O&M	31,595.56
03/22/23	922	Pacific Gas & Electric	MF/RO billing	4,934.76
03/22/23	923	PSTS, Inc.	Asset Analysis and Master Plan Project #22-05 ( <b>CAPITAL</b> )	2,703.75
03/22/23	924	T&T Valve and Investment	Bray butterfly valve	1,501.56
03/22/23	925	Tesco Controls	Bi-annual flow meter calibrations	379.55
03/22/23	926	Wellington & Rathie	Legal services	152.00
03/22/23	927	Winsupply Monterey County	Blind flanges	260.30
				<b>526,567.11</b>



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**Financial Statements  
and  
Supplementary Schedules**

**March 2023**

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April 27, 2023

# *Carmel Area Wastewater District*

## *Balance Sheet*

March 2023

### ASSETS

Current Assets

Cash

Cash

46,687,095.83

TOTAL Cash

46,687,095.83

Other Current Assets

Other Current Assets

219,111.17

TOTAL Other Current Assets

219,111.17

TOTAL Current Assets

46,906,207.00

Fixed Assets

Land

Land

308,059.76

TOTAL Land

308,059.76

Treatment Structures

Treatment Structures

70,377,201.24

TOTAL Treatment Structures

70,377,201.24

Treatment Equipment

Treatment Equipment

8,864,043.57

TOTAL Treatment Equipment

8,864,043.57

Collection Structures

Collection Structures

1,238,843.71

TOTAL Collection Structures

1,238,843.71

Collection Equipment

Collection Equipment

1,524,870.54

TOTAL Collection Equipment

1,524,870.54

Sewers

15,772,472.56

Disposal Facilities

Disposal Facilities

1,643,890.85

TOTAL Disposal Facilities

1,643,890.85

Other Fixed Assets

Other Fixed Assets

4,511,351.21

TOTAL Other Fixed Assets

4,511,351.21

Capital Improvement Projects

Capital Improvement Projects

8,088,507.99

TOTAL Capital Improvement Projects

8,088,507.99

Accumulated depreciation

(56,777,957.36)

TOTAL Fixed Assets

55,551,284.07

Other Assets

Other Assets

5,774,030.29

TOTAL Other Assets

5,774,030.29

TOTAL ASSETS

108,231,521.36

# *Carmel Area Wastewater District*

## *Balance Sheet*

March 2023

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### LIABILITIES

Current Liabilities		
Current Liabilities	1,347,434.82	
TOTAL Current Liabilities	<u>1,347,434.82</u>	1,347,434.82
Long-Term Liabilities		
Long Term Liabilities	1,164,662.80	
TOTAL Long-Term Liabilities	<u>1,164,662.80</u>	<u>1,164,662.80</u>
TOTAL LIABILITIES		<u>2,512,097.62</u>

### NET POSITION

Net Assets	101,293,950.98	
Year-to-Date Earnings	4,425,472.76	
TOTAL NET POSITION		<u>105,719,423.74</u>
TOTAL LIABILITIES & NET POSITION		<u><u>108,231,521.36</u></u>

***Carmel Area Wastewater District***  
***Income Statement Actual to Budget***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
<b>Income</b>				
Revenue	8,601,356.13	7,646,757.37	954,598.76	12.5 %
<b>TOTAL Income</b>	<u>8,601,356.13</u>	<u>7,646,757.37</u>	<u>954,598.76</u>	<u>12.5 %</u>
<b>Adjustments</b>				
Discounts	39.18	0.00	39.18	
<b>TOTAL Adjustments</b>	<u>39.18</u>	<u>0.00</u>	<u>39.18</u>	
<b>*****</b>	<u>8,601,395.31</u>	<u>7,646,757.37</u>	<u>954,637.94</u>	<u>12.5 %</u>
<b>***** OPERATING INCOME</b>	<u>8,601,395.31</u>	<u>7,646,757.37</u>	<u>954,637.94</u>	<u>12.5 %</u>
<b>Operating Expenses</b>				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	2,851,198.64	3,142,468.50	291,269.86	9.3 %
<b>TOTAL Salaries and Payroll Taxes</b>	<u>2,851,198.64</u>	<u>3,142,468.50</u>	<u>291,269.86</u>	<u>9.3 %</u>
Employee Benefits				
Employee Benefits	655,474.41	583,434.60	(72,039.81)	-12.3 %
<b>TOTAL Employee Benefits</b>	<u>655,474.41</u>	<u>583,434.60</u>	<u>(72,039.81)</u>	<u>-12.3 %</u>
Director's Expenses				
Director's Expenses	18,429.27	25,281.47	6,852.20	27.1 %
<b>TOTAL Director's Expenses</b>	<u>18,429.27</u>	<u>25,281.47</u>	<u>6,852.20</u>	<u>27.1 %</u>
Truck and Auto Expenses				
Truck and Auto Expenses	60,036.37	59,891.28	(145.09)	-0.2 %
<b>TOTAL Truck and Auto Expenses</b>	<u>60,036.37</u>	<u>59,891.28</u>	<u>(145.09)</u>	<u>-0.2 %</u>
General and Administrative				
General and Administrative	550,369.47	542,391.69	(7,977.78)	-1.5 %
<b>TOTAL General and Administrative</b>	<u>550,369.47</u>	<u>542,391.69</u>	<u>(7,977.78)</u>	<u>-1.5 %</u>
Office Expense				
Office Expense	55,168.26	58,569.62	3,401.36	5.8 %
<b>TOTAL Office Expense</b>	<u>55,168.26</u>	<u>58,569.62</u>	<u>3,401.36</u>	<u>5.8 %</u>
Operating Supplies				
Operating Supplies	347,988.49	365,963.25	17,974.76	4.9 %
<b>TOTAL Operating Supplies</b>	<u>347,988.49</u>	<u>365,963.25</u>	<u>17,974.76</u>	<u>4.9 %</u>
Contract Services				
Contract Services	566,755.48	623,127.38	56,371.90	9.0 %
<b>TOTAL Contract Services</b>	<u>566,755.48</u>	<u>623,127.38</u>	<u>56,371.90</u>	<u>9.0 %</u>

***Carmel Area Wastewater District***  
***Income Statement Actual to Budget***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	652,227.47	698,114.05	45,886.58	6.6 %
TOTAL Repairs and Maintenance	652,227.47	698,114.05	45,886.58	6.6 %
Utilities				
<i>Utilities</i>	301,960.64	286,658.87	(15,301.77)	-5.3 %
TOTAL Utilities	301,960.64	286,658.87	(15,301.77)	-5.3 %
Travel and Meetings				
<i>Travel and Meetings</i>	35,109.07	38,418.78	3,309.71	8.6 %
TOTAL Travel and Meetings	35,109.07	38,418.78	3,309.71	8.6 %
Permits and Fees				
<i>Permits and Fees</i>	60,296.50	74,838.00	14,541.50	19.4 %
TOTAL Permits and Fees	60,296.50	74,838.00	14,541.50	19.4 %
Memberships and Subscriptions				
<i>Memberships and Subscriptions</i>	37,035.30	37,714.06	678.76	1.8 %
TOTAL Memberships and Subscriptions	37,035.30	37,714.06	678.76	1.8 %
Safety				
<i>Safety</i>	43,203.51	85,754.15	42,550.64	49.6 %
TOTAL Safety	43,203.51	85,754.15	42,550.64	49.6 %
Other Expenses				
<i>Other Expense</i>	26,566.68	17,991.69	(8,574.99)	-47.7 %
TOTAL Other Expenses	26,566.68	17,991.69	(8,574.99)	-47.7 %
TOTAL Operating Expenses	6,261,819.56	6,640,617.39	378,797.83	5.7 %
***** OPERATING INCOME (LOSS)	2,339,575.75	1,006,139.98	1,333,435.77	132.5 %
Non-op Income, Expense, Gain or Loss				
Other Income or Gain				
<i>Other Income, Gain, Expense and Loss</i>	2,085,897.01	1,557,782.00	528,115.01	33.9 %
TOTAL Other Income or Gain	2,085,897.01	1,557,782.00	528,115.01	33.9 %
TOTAL Non-op Income, Expense, Gain or Loss	2,085,897.01	1,557,782.00	528,115.01	33.9 %
***** NET INCOME (LOSS)	4,425,472.76	2,563,921.98	1,861,550.78	72.6 %
***** NET INCOME (LOSS)	4,425,472.76	2,563,921.98	1,861,550.78	72.6 %

**Carmel Area Wastewater District**  
**Op. Exps. Actual to Budget-Collections**  
*Year-to-Date Variance, March 2023 - current month, Consolidated by  
account, Department 5*

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
<i>Salaries and Payroll Taxes</i>	517,463.61	537,913.00	20,449.39	3.8 %
TOTAL Salaries and Payroll Taxes	517,463.61	537,913.00	20,449.39	3.8 %
Employee Benefits				
<i>Employee Benefits</i>	161,146.49	153,361.41	(7,785.08)	-5.1 %
TOTAL Employee Benefits	161,146.49	153,361.41	(7,785.08)	-5.1 %
Truck and Auto Expenses				
<i>Truck and Auto Expenses</i>	43,278.09	50,202.47	6,924.38	13.8 %
TOTAL Truck and Auto Expenses	43,278.09	50,202.47	6,924.38	13.8 %
General and Administrative				
<i>General and Administrative</i>	38,581.59	56,093.00	17,511.41	31.2 %
TOTAL General and Administrative	38,581.59	56,093.00	17,511.41	31.2 %
Office Expense				
<i>Office Expense</i>	1,022.03	5,138.36	4,116.33	80.1 %
TOTAL Office Expense	1,022.03	5,138.36	4,116.33	80.1 %
Operating Supplies				
<i>Operating Supplies</i>	29,664.25	30,520.80	856.55	2.8 %
TOTAL Operating Supplies	29,664.25	30,520.80	856.55	2.8 %
Contract Services				
<i>Contract Services</i>	133,584.03	140,441.66	6,857.63	4.9 %
TOTAL Contract Services	133,584.03	140,441.66	6,857.63	4.9 %
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	411,049.10	446,200.00	35,150.90	7.9 %
TOTAL Repairs and Maintenance	411,049.10	446,200.00	35,150.90	7.9 %
Utilities				
<i>Utilities</i>	33,723.32	34,938.84	1,215.52	3.5 %
TOTAL Utilities	33,723.32	34,938.84	1,215.52	3.5 %
Travel and Meetings				
<i>Travel and Meetings</i>	6,777.54	12,341.72	5,564.18	45.1 %



***Carmel Area Wastewater District***  
***Op. Exps. Actual to Budget-Collections***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account, Department 5***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
TOTAL Travel and Meetings	6,777.54	12,341.72	5,564.18	45.1 %
Permits and Fees				
<i>Permits and Fees</i>	7,402.60	6,600.00	(802.60)	-12.2 %
TOTAL Permits and Fees	7,402.60	6,600.00	(802.60)	-12.2 %
Memberships and Subscriptions				
<i>Memberships and Subscriptions</i>	2,572.35	2,483.28	(89.07)	-3.6 %
TOTAL Memberships and Subscriptions	2,572.35	2,483.28	(89.07)	-3.6 %
Safety				
<i>Safety</i>	20,152.63	25,741.66	5,589.03	21.7 %
TOTAL Safety	20,152.63	25,741.66	5,589.03	21.7 %
Other Expenses				
<i>Other Expense</i>	0.00	291.69	291.69	100.0 %
TOTAL Other Expenses	0.00	291.69	291.69	100.0 %
TOTAL Operating Expenses	1,406,417.63	1,502,267.89	95,850.26	6.4 %
***** OPERATING INCOME (LOSS)	(1,406,417.63)	(1,502,267.89)	95,850.26	6.4 %
***** NET INCOME (LOSS)	(1,406,417.63)	(1,502,267.89)	95,850.26	6.4 %
***** NET INCOME (LOSS)	(1,406,417.63)	(1,502,267.89)	95,850.26	6.4 %

***Carmel Area Wastewater District***  
***Op. Exps. Actual to Budget-Treatment***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account, Department 6***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
<i>Salaries and Payroll Taxes</i>	1,319,256.26	1,547,455.00	228,198.74	14.7 %
TOTAL Salaries and Payroll Taxes	1,319,256.26	1,547,455.00	228,198.74	14.7 %
Employee Benefits				
<i>Employee Benefits</i>	379,983.28	326,302.47	(53,680.81)	-16.5 %
TOTAL Employee Benefits	379,983.28	326,302.47	(53,680.81)	-16.5 %
Truck and Auto Expenses				
<i>Truck and Auto Expenses</i>	16,475.19	7,598.81	(8,876.38)	-116.8 %
TOTAL Truck and Auto Expenses	16,475.19	7,598.81	(8,876.38)	-116.8 %
General and Administrative				
<i>General and Administrative</i>	400,770.63	385,634.69	(15,135.94)	-3.9 %
TOTAL General and Administrative	400,770.63	385,634.69	(15,135.94)	-3.9 %
Office Expense				
<i>Office Expense</i>	29,066.20	30,945.85	1,879.65	6.1 %
TOTAL Office Expense	29,066.20	30,945.85	1,879.65	6.1 %
Operating Supplies				
<i>Operating Supplies</i>	317,308.47	328,796.64	11,488.17	3.5 %
TOTAL Operating Supplies	317,308.47	328,796.64	11,488.17	3.5 %
Contract Services				
<i>Contract Services</i>	358,421.01	420,142.38	61,721.37	14.7 %
TOTAL Contract Services	358,421.01	420,142.38	61,721.37	14.7 %
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	211,765.00	244,373.99	32,608.99	13.3 %
TOTAL Repairs and Maintenance	211,765.00	244,373.99	32,608.99	13.3 %
Utilities				
<i>Utilities</i>	249,459.86	235,655.03	(13,804.83)	-5.9 %
TOTAL Utilities	249,459.86	235,655.03	(13,804.83)	-5.9 %
Travel and Meetings				
<i>Travel and Meetings</i>	17,511.50	15,802.03	(1,709.47)	-10.8 %

***Carmel Area Wastewater District***  
***Op. Exps. Actual to Budget-Treatment***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account, Department 6***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
TOTAL Travel and Meetings	17,511.50	15,802.03	(1,709.47)	-10.8 %
Permits and Fees				
<i>Permits and Fees</i>	29,343.90	44,688.00	15,344.10	34.3 %
TOTAL Permits and Fees	29,343.90	44,688.00	15,344.10	34.3 %
Memberships and Subscriptions				
<i>Memberships and Subscriptions</i>	4,498.06	6,508.28	2,010.22	30.9 %
TOTAL Memberships and Subscriptions	4,498.06	6,508.28	2,010.22	30.9 %
Safety				
<i>Safety</i>	22,972.07	58,062.49	35,090.42	60.4 %
TOTAL Safety	22,972.07	58,062.49	35,090.42	60.4 %
Other Expenses				
<i>Other Expense</i>	5,933.14	0.00	(5,933.14)	
TOTAL Other Expenses	5,933.14	0.00	(5,933.14)	
TOTAL Operating Expenses	3,362,764.57	3,651,965.66	289,201.09	7.9 %
***** OPERATING INCOME (LOSS)	(3,362,764.57)	(3,651,965.66)	289,201.09	7.9 %
***** NET INCOME (LOSS)	(3,362,764.57)	(3,651,965.66)	289,201.09	7.9 %
***** NET INCOME (LOSS)	(3,362,764.57)	(3,651,965.66)	289,201.09	7.9 %

**Carmel Area Wastewater District**  
**Op. Exps. Actual to Budget-Admin.**  
*Year-to-Date Variance, March 2023 - current month, Consolidated by  
account, Department 7*

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
<i>Salaries and Payroll Taxes</i>	529,872.93	572,689.00	42,816.07	7.5 %
TOTAL Salaries and Payroll Taxes	529,872.93	572,689.00	42,816.07	7.5 %
Employee Benefits				
<i>Employee Benefits</i>	114,344.64	103,770.72	(10,573.92)	-10.2 %
TOTAL Employee Benefits	114,344.64	103,770.72	(10,573.92)	-10.2 %
Director's Expenses				
<i>Director's Expenses</i>	18,279.27	24,581.47	6,302.20	25.6 %
TOTAL Director's Expenses	18,279.27	24,581.47	6,302.20	25.6 %
Truck and Auto Expenses				
<i>Truck and Auto Expenses</i>	283.09	2,090.00	1,806.91	86.5 %
TOTAL Truck and Auto Expenses	283.09	2,090.00	1,806.91	86.5 %
General and Administrative				
<i>General and Administrative</i>	83,759.95	80,664.00	(3,095.95)	-3.8 %
TOTAL General and Administrative	83,759.95	80,664.00	(3,095.95)	-3.8 %
Office Expense				
<i>Office Expense</i>	25,080.03	22,466.69	(2,613.34)	-11.6 %
TOTAL Office Expense	25,080.03	22,466.69	(2,613.34)	-11.6 %
Operating Supplies				
<i>Operating Supplies</i>	374.29	937.53	563.24	60.1 %
TOTAL Operating Supplies	374.29	937.53	563.24	60.1 %
Contract Services				
<i>Contract Services</i>	73,938.76	62,543.34	(11,395.42)	-18.2 %
TOTAL Contract Services	73,938.76	62,543.34	(11,395.42)	-18.2 %
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	15,306.47	1,365.00	(13,941.47)	-1021.4 %
TOTAL Repairs and Maintenance	15,306.47	1,365.00	(13,941.47)	-1021.4 %
Utilities				
<i>Utilities</i>	18,777.46	16,065.00	(2,712.46)	-16.9 %

***Carmel Area Wastewater District***  
***Op. Exps. Actual to Budget-Admin.***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account, Department 7***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
TOTAL Utilities	18,777.46	16,065.00	(2,712.46)	-16.9 %
Travel and Meetings				
<i>Travel and Meetings</i>	10,820.03	10,275.03	(545.00)	-5.3 %
TOTAL Travel and Meetings	10,820.03	10,275.03	(545.00)	-5.3 %
Permits and Fees				
<i>Permits and Fees</i>	23,550.00	23,550.00	0.00	
TOTAL Permits and Fees	23,550.00	23,550.00	0.00	
Memberships and Subscriptions				
<i>Memberships and Subscriptions</i>	29,964.89	28,722.50	(1,242.39)	-4.3 %
TOTAL Memberships and Subscriptions	29,964.89	28,722.50	(1,242.39)	-4.3 %
Safety				
<i>Safety</i>	78.81	1,075.00	996.19	92.7 %
TOTAL Safety	78.81	1,075.00	996.19	92.7 %
Other Expenses				
<i>Other Expense</i>	20,633.54	17,700.00	(2,933.54)	-16.6 %
TOTAL Other Expenses	20,633.54	17,700.00	(2,933.54)	-16.6 %
TOTAL Operating Expenses	965,064.16	968,495.28	3,431.12	0.4 %
***** OPERATING INCOME (LOSS)	(965,064.16)	(968,495.28)	3,431.12	0.4 %
***** NET INCOME (LOSS)	(965,064.16)	(968,495.28)	3,431.12	0.4 %
***** NET INCOME (LOSS)	(965,064.16)	(968,495.28)	3,431.12	0.4 %

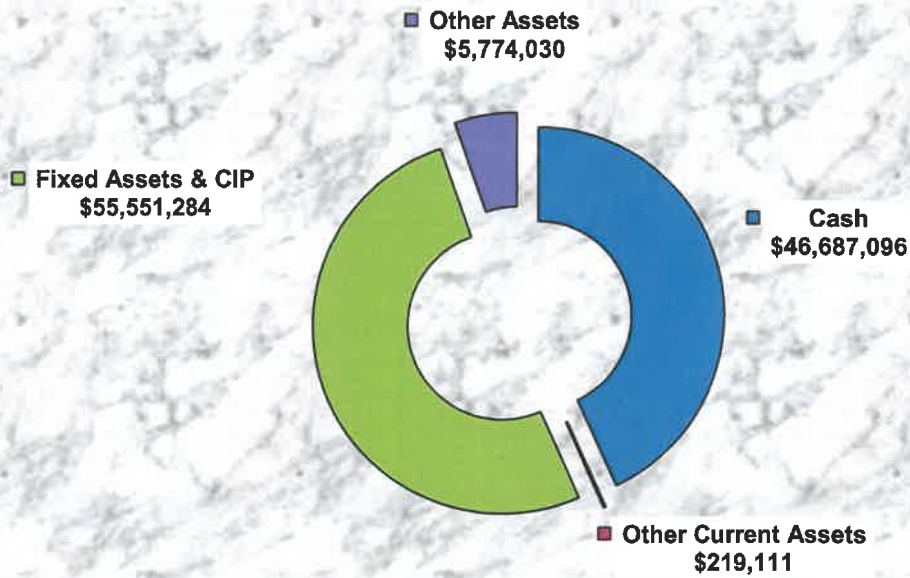
***Carmel Area Wastewater District***  
***Op. Exps. Actual to Budget-Reclamation***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account, Department 8***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
*****	0.00	0.00	0.00	
***** OPERATING INCOME	0.00	0.00	0.00	
Operating Expenses				
Salaries and Payroll Taxes				
<i>Salaries and Payroll Taxes</i>	484,459.31	482,958.00	(1,501.31)	-0.3 %
TOTAL Salaries and Payroll Taxes	484,459.31	482,958.00	(1,501.31)	-0.3 %
Director's Expenses				
<i>Director's Expenses</i>	150.00	700.00	550.00	78.6 %
TOTAL Director's Expenses	150.00	700.00	550.00	78.6 %
General and Administrative				
<i>General and Administrative</i>	27,257.30	20,000.00	(7,257.30)	-36.3 %
TOTAL General and Administrative	27,257.30	20,000.00	(7,257.30)	-36.3 %
Operating Supplies				
<i>Operating Supplies</i>	641.48	4,958.31	4,316.83	87.1 %
TOTAL Operating Supplies	641.48	4,958.31	4,316.83	87.1 %
Contract Services				
<i>Contract Services</i>	811.68	0.00	(811.68)	
TOTAL Contract Services	811.68	0.00	(811.68)	
Repairs and Maintenance				
<i>Repairs and Maintenance</i>	14,106.90	4,300.00	(9,806.90)	-228.1 %
TOTAL Repairs and Maintenance	14,106.90	4,300.00	(9,806.90)	-228.1 %
Safety				
<i>Safety</i>	0.00	875.00	875.00	100.0 %
TOTAL Safety	0.00	875.00	875.00	100.0 %
TOTAL Operating Expenses	527,426.67	513,791.31	(13,635.36)	-2.7 %
***** OPERATING INCOME (LOSS)	(527,426.67)	(513,791.31)	(13,635.36)	-2.7 %
***** NET INCOME (LOSS)	(527,426.67)	(513,791.31)	(13,635.36)	-2.7 %

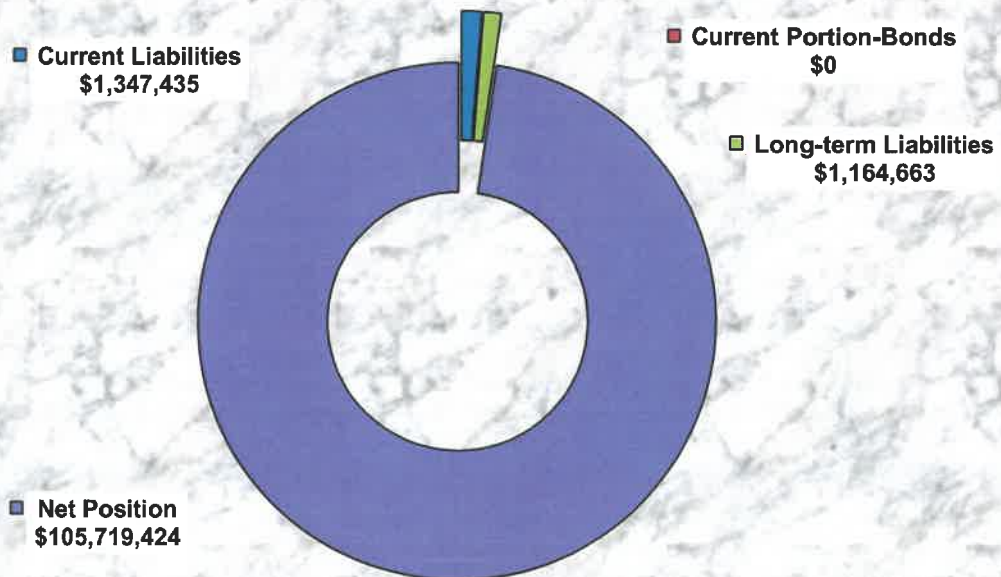
***Carmel Area Wastewater District***  
***I/S Actual to Budget-Brine Disposal***  
***Year-to-Date Variance, March 2023 - current month, Consolidated by***  
***account, Department 10***

	<i>9 Months Ended March 31, 2023</i>	<i>9 Months Ended March 31, 2023 Budget</i>	<i>Variance Fav/&lt;Unf&gt;</i>	<i>% Var</i>
Income				
Revenue	42,704.22	60,000.03	(17,295.81)	-28.8 %
TOTAL Income	<u>42,704.22</u>	<u>60,000.03</u>	<u>(17,295.81)</u>	-28.8 %
*****	<u>42,704.22</u>	<u>60,000.03</u>	<u>(17,295.81)</u>	-28.8 %
***** OPERATING INCOME	<u>42,704.22</u>	<u>60,000.03</u>	<u>(17,295.81)</u>	-28.8 %
Operating Expenses				
Salaries and Payroll Taxes				
Salaries and Payroll Taxes	146.53	1,453.50	1,306.97	89.9 %
TOTAL Salaries and Payroll Taxes	<u>146.53</u>	<u>1,453.50</u>	<u>1,306.97</u>	89.9 %
Office Expense				
Office Expense	0.00	18.72	18.72	100.0 %
TOTAL Office Expense	<u>0.00</u>	<u>18.72</u>	<u>18.72</u>	100.0 %
Operating Supplies				
Operating Supplies	0.00	749.97	749.97	100.0 %
TOTAL Operating Supplies	<u>0.00</u>	<u>749.97</u>	<u>749.97</u>	100.0 %
Repairs and Maintenance				
Repairs and Maintenance	0.00	1,875.06	1,875.06	100.0 %
TOTAL Repairs and Maintenance	<u>0.00</u>	<u>1,875.06</u>	<u>1,875.06</u>	100.0 %
TOTAL Operating Expenses	<u>146.53</u>	<u>4,097.25</u>	<u>3,950.72</u>	96.4 %
***** OPERATING INCOME (LOSS)	<u>42,557.69</u>	<u>55,902.78</u>	<u>(13,345.09)</u>	-23.9 %
***** NET INCOME (LOSS)	<u>42,557.69</u>	<u>55,902.78</u>	<u>(13,345.09)</u>	-23.9 %
***** NET INCOME (LOSS)	<u>42,557.69</u>	<u>55,902.78</u>	<u>(13,345.09)</u>	-23.9 %

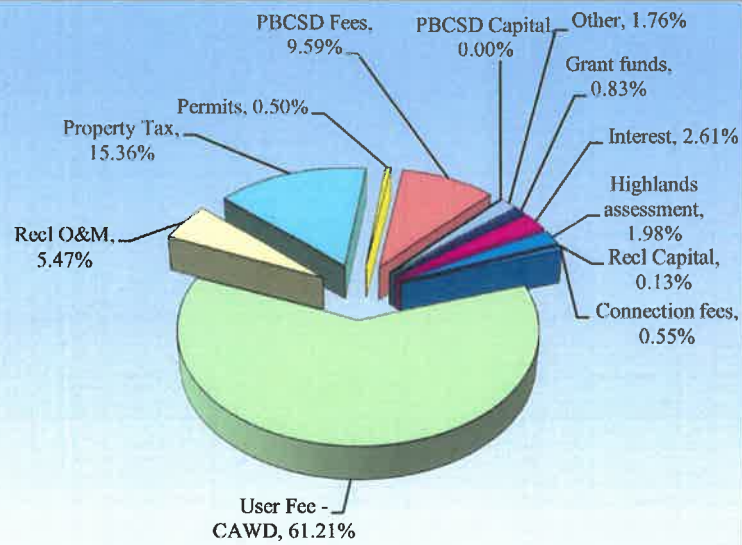
### Assets - March 31, 2023



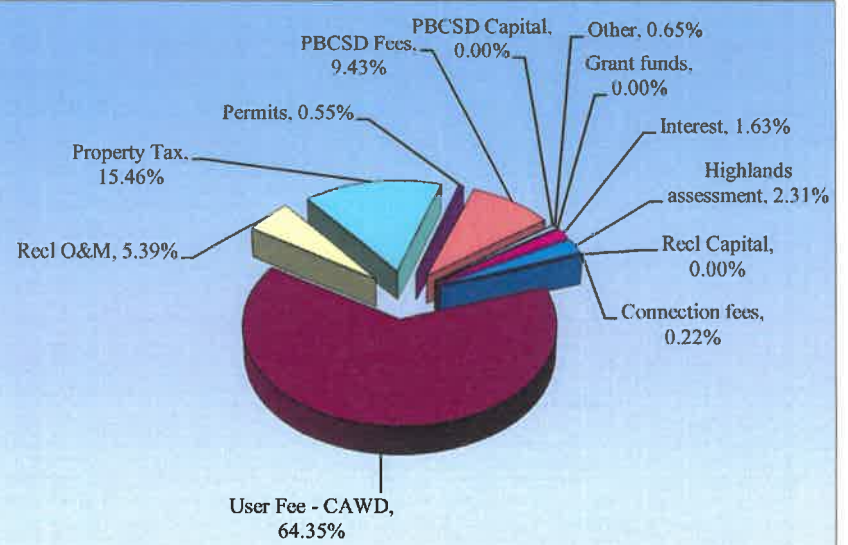
### Liabilities - March 31, 2023



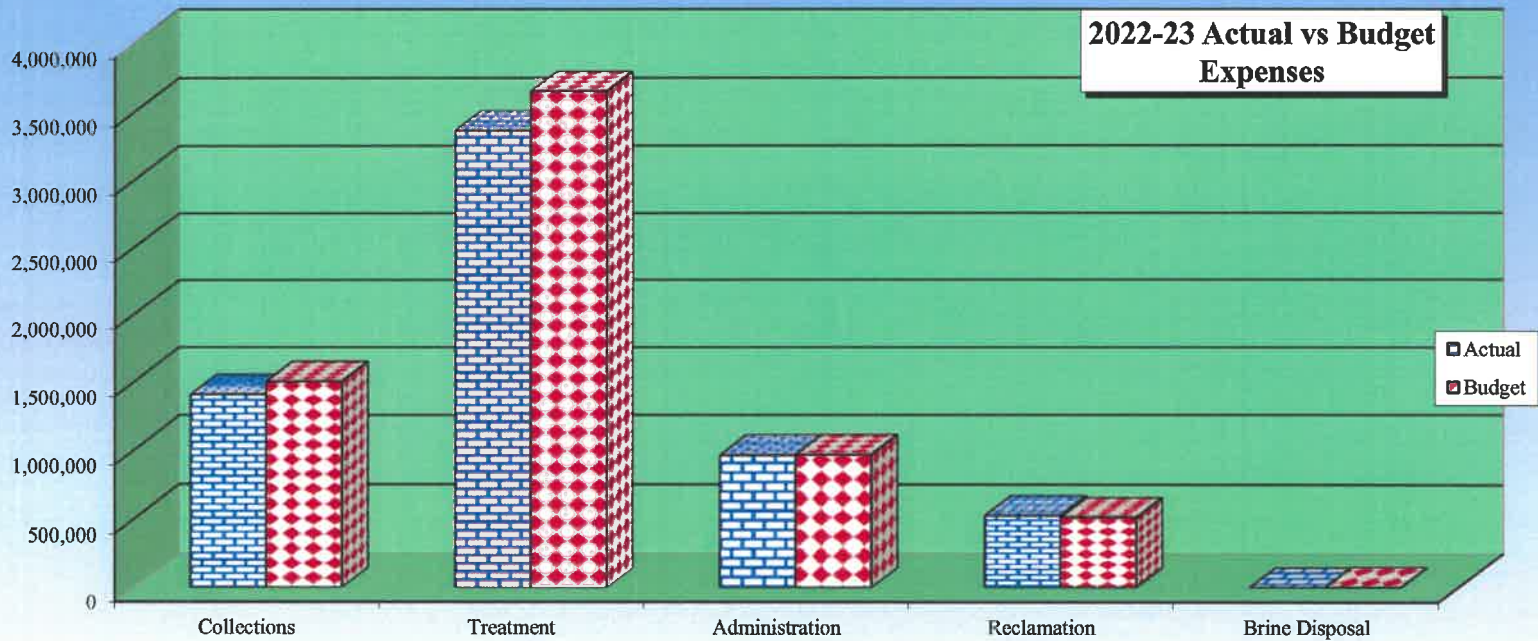




**2022-23 Actual Revenues**

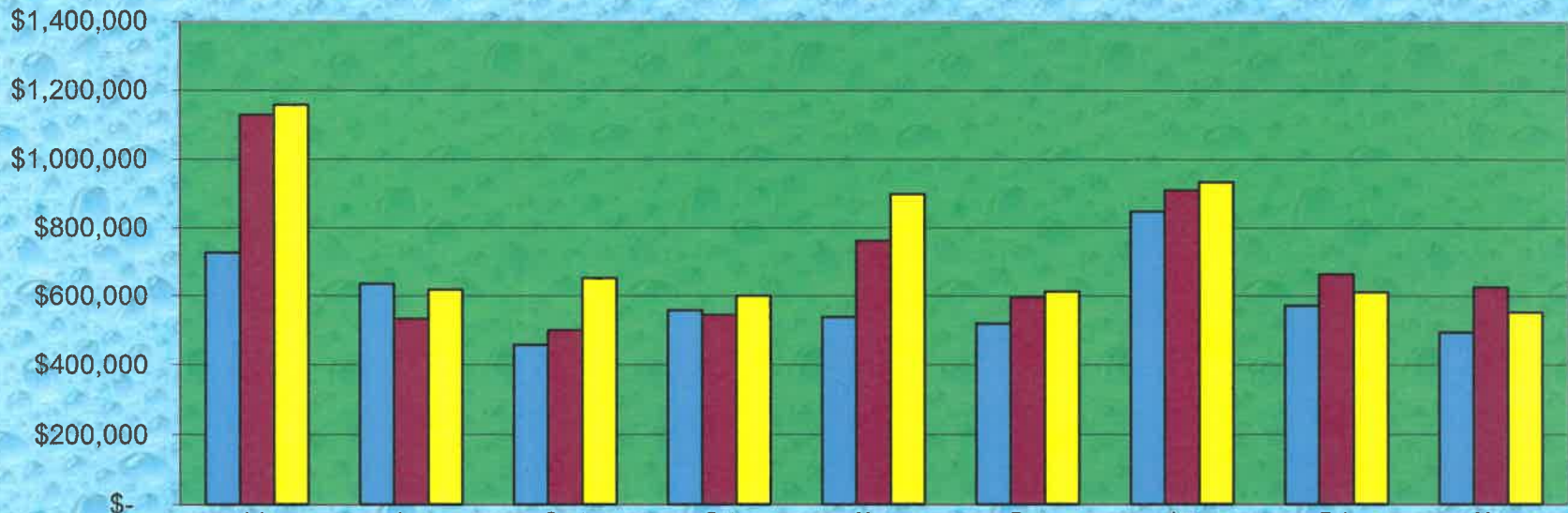


**2022-23 Budget Revenues**



**2022-23 Actual vs Budget Expenses**

### Operating Expenses



	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar
■ FY 21-22	\$726,464	\$636,022	\$457,080	\$557,531	\$537,313	\$518,130	\$848,165	\$571,858	\$494,319
■ FY 22-23	\$1,129,338	\$532,107	\$498,951	\$543,933	\$761,735	\$595,405	\$910,312	\$663,465	\$626,573
■ CY Budget	\$1,159,356	\$618,626	\$652,827	\$600,535	\$898,527	\$613,186	\$933,595	\$611,405	\$552,560

**Carmel Area Wastewater District**  
**Capital Expenditures**  
**2022-23**

	BEG BAL	MAR	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<b><u>CAPITAL PURCHASES</u></b>						
<b><u>Admin</u></b>						
		0	0	0	0	NA
		0	0	0	0	NA
<b><u>Collections</u></b>						
Jetter water pump hydraulic system- unbudgeted		0	11,575	11,575	0	NA
Pescadero emergency repair- unbudgeted		0	11,380	11,380	0	NA
Flygt pump for MV and 16th pump station- unbudgeted		0	15,270	15,270	0	NA
Scenic Road emergency repair- unbudgeted		7,000	264,273	264,273	0	NA
<b><u>Treatment</u></b>						
Eaton SVX9000 refurbished VFD for Reclamation- unbudgeted		0	14,208	14,208	0	NA
Pavement and water line repair- unbudgeted		0	14,095	14,095	0	NA
RECL share	0	0	(14,208)	(14,208)	0	NA
PBCSD share (1/3 of cost)	0	0	(4,698)	(4,698)	0	NA
<b><i>Total Capital Purchases 22-23</i></b>		<b>7,000</b>	<b>311,895</b>	<b>311,895</b>	<b>0</b>	<b>NA</b>

**Carmel Area Wastewater District  
Capital Expenditures  
2022-23**

	BEG BAL	MAR	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<b><u>CIP PROJECTS</u></b>						
<b><u>Administration</u></b>						
<b><u>Collections</u></b>						
Construction of new Gravity Sewer Line-Carmel Meadows	474,359	13,895	54,390	528,750	2,000,000	2.72%
Carmel Valley Manor Sewer-unbudgeted	180	0	0	180	0	NA
Scenic Rd Pipe Burst-Ocn/Bay	231,786	11,023	27,456	259,243	3,500,000	0.78%
Bay/Scenic Pump Station Rehab	30,892	2,388	35,016	65,907	650,000	5.39%
Pescadero Creek Area Pipe Rehab	89,236	4,163	90,440	179,676	100,000	90.44%
Vactor Receiving Station	0	0	20,325	20,325	100,000	20.33%
Lorca Lane Sewer Repair-budget amendment	0	12,271	22,596	22,596	153,500	NA
<b><u>Treatment</u></b>						
RECL share	0	0	0	0	0	NA
PBCSD share (1/3 of cost)	0	0	0	0	0	NA
<b><i>Total CIP Projects 22-23</i></b>	<b>826,453</b>	<b>43,739</b>	<b>250,224</b>	<b>1,076,677</b>	<b>6,503,500</b>	<b>3.85%</b>

**Carmel Area Wastewater District**  
**Capital Expenditures**  
**2022-23**

	BEG BAL	MAR	CURRENT YTD	CUMULATIVE TOTAL	ANNUAL BUDGET	BUDGET SPENT
<b><i>LONG TERM CIP PROJECTS</i></b>						
<b><u>Treatment</u></b>						
Perimeter Fence	0	16,351	48,856	48,856	275,000	17.77%
Elec/Mech Rehab & Sludge Holding Tank Project (RECL 2.7%)	4,321,103	677,572	2,580,596	6,901,699	4,820,750	53.53%
Aeration Basin Improvements-unbudgeted	17,332	0	0	17,332	0	NA
Potable Water & Gas Main Replacement	0	0	43,444	43,444	100,000	43.44%
Plant Bridge Retrofit Project-unbudgeted	0	500	500	500	0	NA
RECL share	(116,670)	(18,294)	(69,675)	(186,345)	(130,160)	53.53%
PBCSD share (1/3 of cost)	(1,407,255)	(225,376)	(867,907)	(2,275,162)	(1,688,530)	51.40%
<b><i>Total Long Term CIP Projects 22-23</i></b>	<b>2,814,510</b>	<b>450,752</b>	<b>1,735,814</b>	<b>4,550,324</b>	<b>3,377,060</b>	<b>51.40%</b>
<b>Total Capital (net of RECL and PBCSD)</b>	<b>3,640,963</b>	<b>501,491</b>	<b>2,297,933</b>	<b>5,938,896</b>	<b>9,880,560</b>	<b>23.26%</b>

**Carmel Area Wastewater District  
Variance Analysis  
2022-23**

**YTD Actual/  
YTD Budget  
Variance**

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**Collections**

Employee Benefits	-5.10%	Workers compensation underbudgeted.
Permits and Fees	-12.20%	SWRCB and Monterey Bay Air Resources underbudgeted- small dollar amounts.

**Treatment**

Employee Benefits	-16.50%	Workers compensation underbudgeted.
Truck and Auto Expenses	-116.80%	Diesel underbudgeted. Small dollar amounts.
Utilities	-5.90%	Slightly underbudgeted.
Travel and Meetings	-10.80%	Conferences slightly underbudget due to timing.
Other Expense	No budget	Recruiting unbudgeted.

**Administration**

Employee Benefits	-10.20%	Workers compensation underbudgeted.
Office Expense	-11.60%	Temp service underbudgeted.
Contract Services	-18.20%	HR consulting underbudgeted.
Repairs and Maintenance	-1021.40%	Building repairs underbudgeted. Small dollar amounts.
Utilities	-16.90%	PG&E underbudgeted.
Travel and Meetings	-5.30%	Conferences slightly underbudget due to timing. Small dollar amounts.
Other Expense	-16.60%	Legal notices and newsletter underbudgeted. Small dollar amounts.

**District Obligations:**

- 1) 2004 Highlands Project Bond Proceeds \$3,057,165 - Balance \$400,000

**Carmel Area Wastewater District  
2022-23 Resolutions Amending the Budget**

<b>Resolution #</b>	<b>Description</b>	<b>Budgeted</b>	<b>Amendment</b>	<b>Spent To Date</b>
2023-02	A Resolution authorizing the General Manager to execute a contract with Monterey Peninsula Engineering in an amount not to exceed \$153,500 for an emergency sewer relocation at Lorca Lane and Del Monte Street, Project #22-07.	\$ -	\$ 153,500	\$ 22,596
2023-06	A Resolution authorizing the General Manager to execute a contract with Coastal Paving & Excavating for the emergency sewer relocation at Scenic Road on a time and materials basis.	\$ -	Time & Mat.	\$ 264,273
2023-24	A Resolution authorizing the General Manager to execute a contract with Monterey Peninsula Engineering in the amount of \$53,830 for initial work on the emergency sewer relocation at Lorca Lane and Del Monte Street, Project #22-07.	\$ -	\$ 53,830	-
Total To Date		<u>\$ -</u>	<u>\$ 207,330</u>	<u>\$ 286,869</u>

# STAFF REPORT



TO: Board of Directors  
 FROM: Daryl Lauer, Collection Superintendent  
 DATE: April 27, 2023  
 SUBJECT: Monthly Report – March

## RECOMMENDATION

Receive Report- Informational only; no action required.

### Permits Issued

Sewer Lateral Permits issued in March.....	24
Total Fees .....	\$4,800.00

### Maintenance

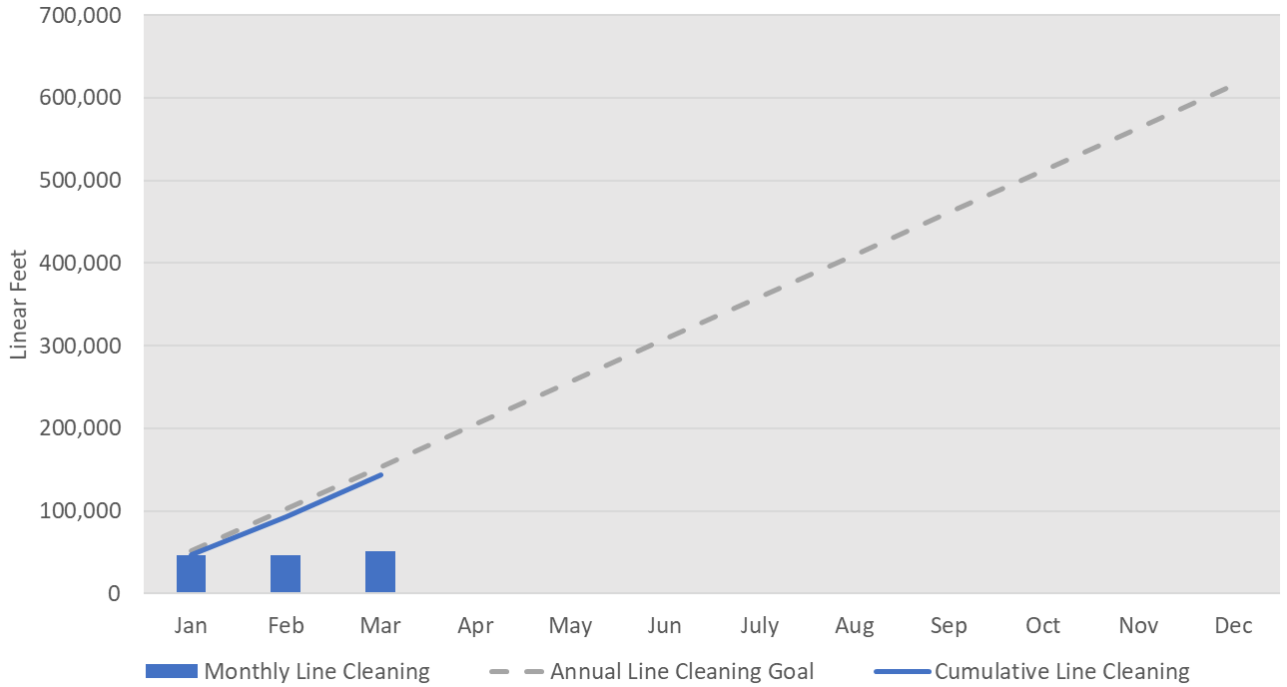
Attached is a map of the areas cleaned and Closed-Circuit Television (CCTV) inspected in past three months. There were 51,385 feet of sewer lines cleaned, there were no CCTV inspections during the month of March.

### Recent Line Cleaning Summary

Cleaning period	Footage Cleaned	Percentage Cleaned	Size of Pipe Cleaned
March	51,385 ft.	12.49%	6 – 27 inches
February	46,148 ft.	11.22%	6 - 10 inches
January	46,421 ft.	11.29%	6 – 10 inches



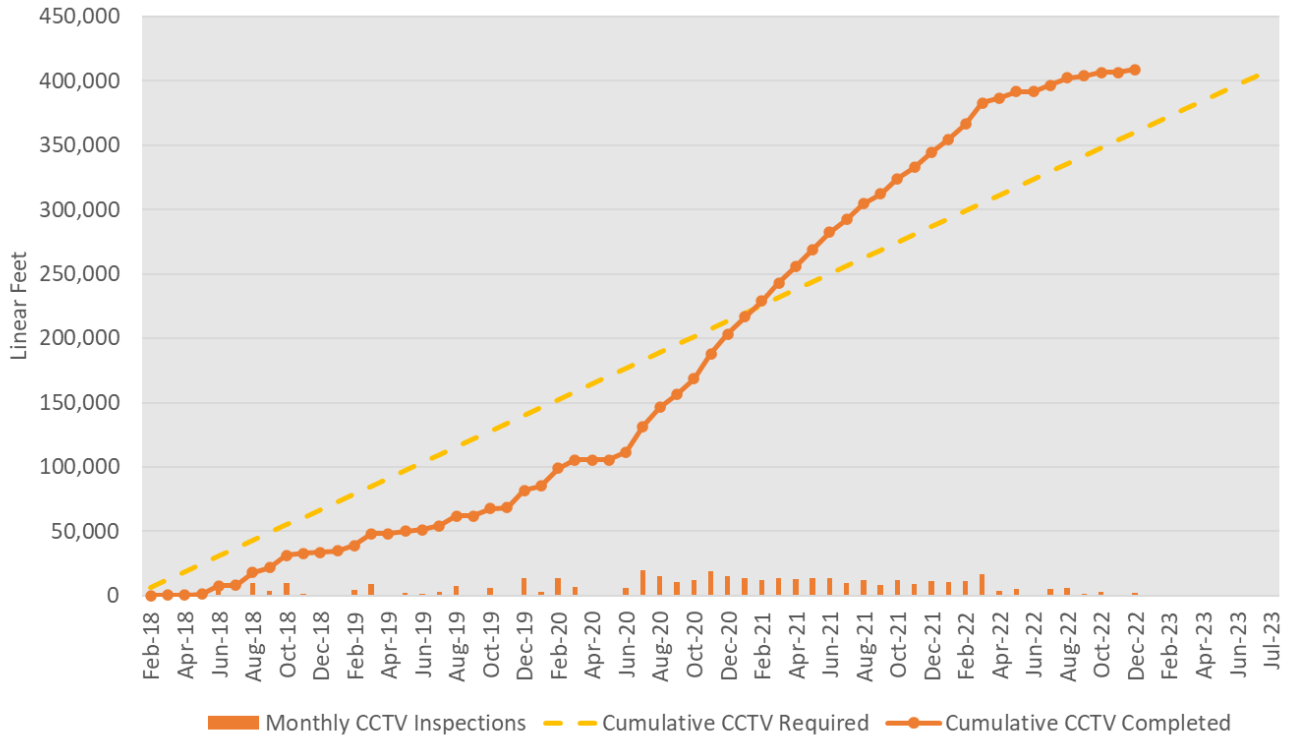
**Annual Line Cleaning Graph**



**Line Cleaning Table**

<b>Total Target Amount (Linear Feet)</b>	<b>Cumulative Complete (Linear Feet)</b>	<b>Remaining (Linear Feet)</b>
615,000	143,046	471,046

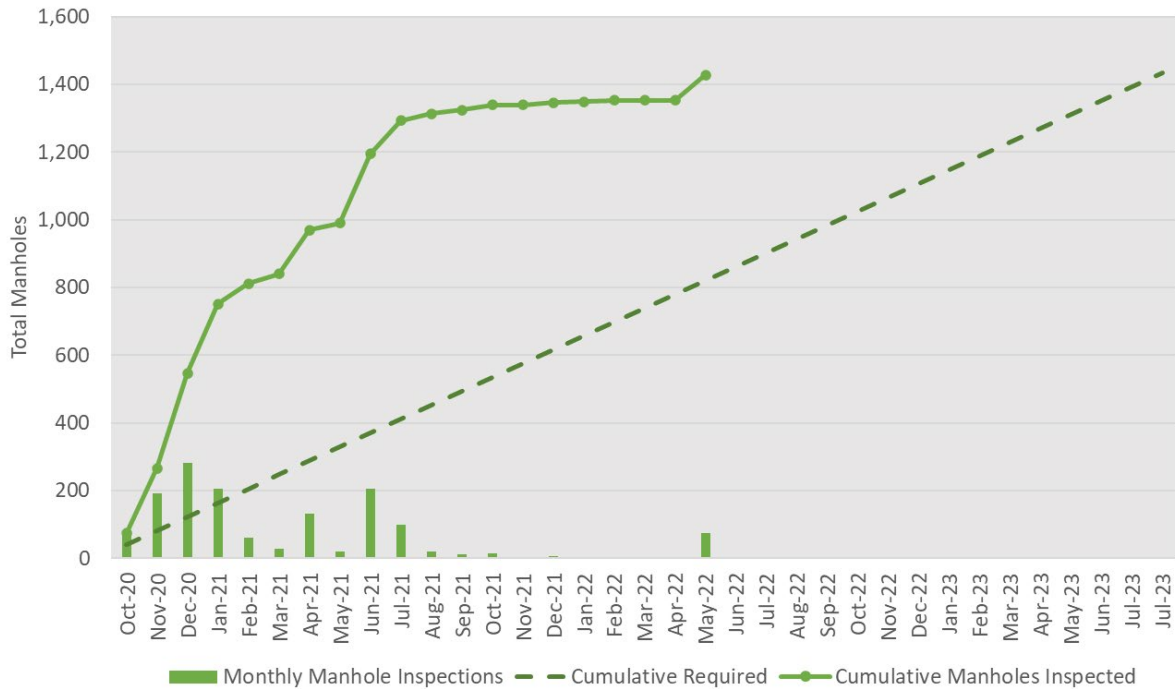
**CCTV Progress Graph (River Watch Settlement Agreement Target)**



**CCTV Table**

<b>Total Required amount (Linear Feet)</b>	<b>Cumulative Complete (Linear Feet)</b>	<b>Remaining (Linear Feet)</b>
408,672	408,672	0

**Manhole Inspection Progress Graph (Riverwatch Settlement Agreement Target)**



**Manhole Inspection Table**

Total Required Amount (Manholes)	Actual Complete (Manholes)	Remaining (Manholes)
1428	1428	0

**Riverwatch Update**

- Staff has completed the manhole inspection part of the settlement. The Principal Engineer will use this data to schedule rehabilitation or replacement of damaged or deteriorated manholes.
- Staff has completed the CCTV inspections and Pumps Station evaluations are being reviewed by the Principal Engineer, all of this information will be used for the final Collection System Asset Management Plan.

**Construction Activities**

- N/A

**Staff Development**

- Staff completed several in-person tailgate training courses.

**General comments**

- N/A

**Service calls responded to by crew**

<b>Date</b>	<b>Time</b>	<b>Callout</b>	<b>Resolution</b>
3/7/2023	10:05 AM	Odor Complaint	Called by Admin office regarding a sewer odor in a downtown business. Staff found no problems in the sewer line near the business. However, there was a strong odor in the lower level of the business. The restaurant had recently had their grease trap cleaned, which was the cause of the odor both inside and outside of the establishment.
3/10/2023	11:15 AM	Lateral Overflow	Called by homeowner for a lateral overflow. Staff cleaned the District main line and found no problems. Staff informed owner to call a plumber of their choice.
3/13/2023	10:21 AM	Lateral Overflow	Called by homeowner for a lateral overflow. Staff cleaned District main line and found no problems in line. Staff informed owner to call a plumber of their choice.

<b>Date</b>	<b>Time</b>	<b>Callout</b>	<b>Resolution</b>
3/15/2023	4:05 PM	Lateral Overflow	Called by homeowner for a lateral overflow. Staff cleaned District main line and found no problems in District's line. Staff informed owner to call a plumber of their choice.
3/17/2023	8:00 AM	Sanitary Sewer Overflow	Notified by contractor of a lateral overflowing. Staff arrived on scene and found the property cleanout overflowing. The property was not using any water. Staff used pressure cleaner to open the blockage in the main line. Estimated 108 gallons spilled. Staff cleaned the area and restored the flow. Staff determined that roots in the main line were the cause of the blockage. See map for location.
3/23/2023	10:47 AM	Lateral Overflow	Called by homeowner for a lateral overflow. Staff cleaned District main line and found no problems in District's line. Staff informed owner to call a plumber of their choice.
3/23/2023	3:32 PM	Damaged pipe	Called by resident that was walking an easement in the Pine Hill's area for a possible sewer main break. Staff found a large pine tree had lifted up a portion of the clay sewer line separating the joints. Staff replaced the damaged section of sewer pipe and returned to service. This line services three homes and had very low flow, no sewage leaked out of the pipe.

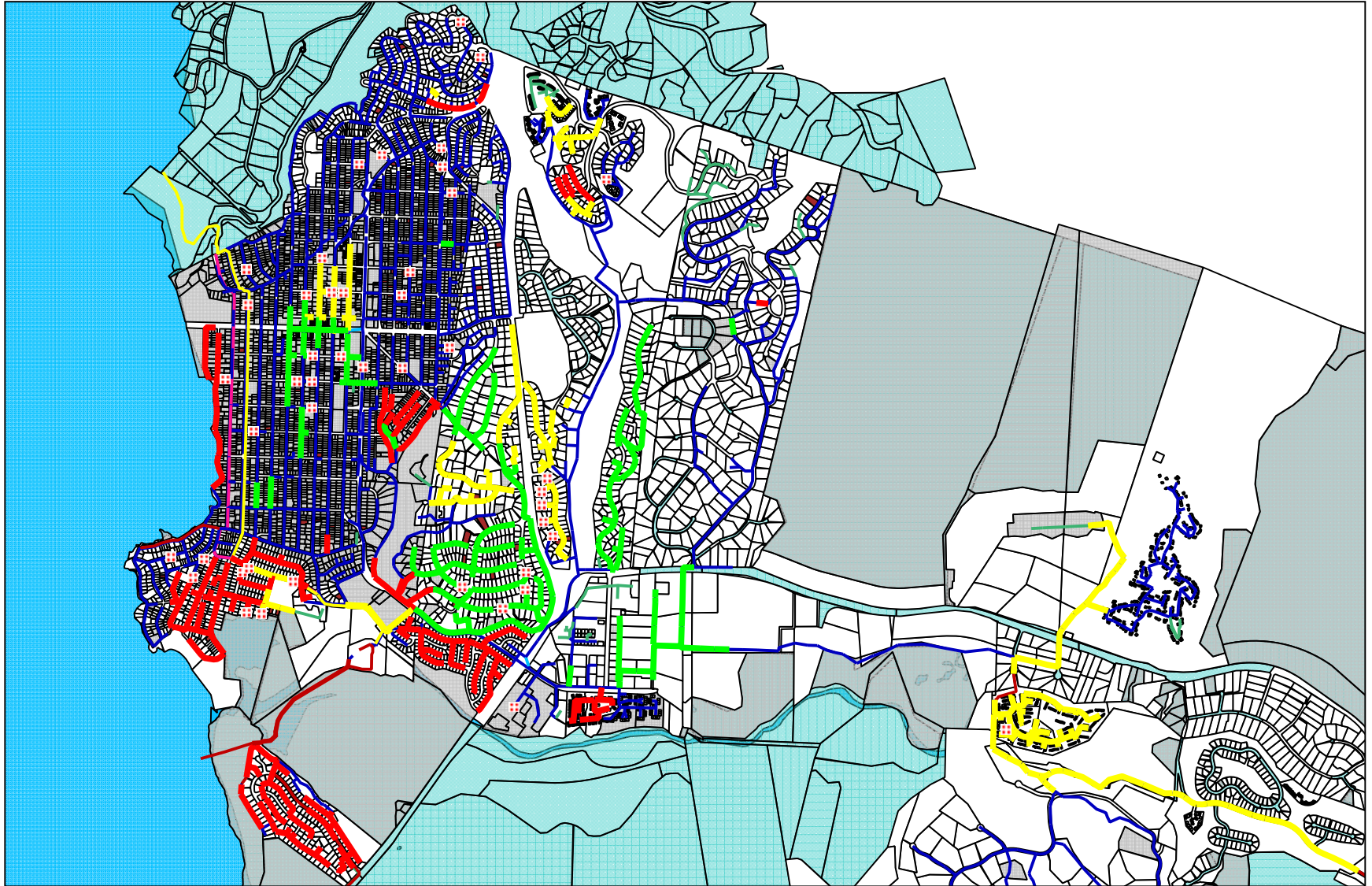
USA Location Requests – 229

Plumbing permit inspections – 17

Private Sewer Lateral Compliance Certificates Issued – 15

March (Red) 51,385 feet  
February (Yellow) 46,421 feet  
January (Green) 47,393 feet

### Cleaning Map

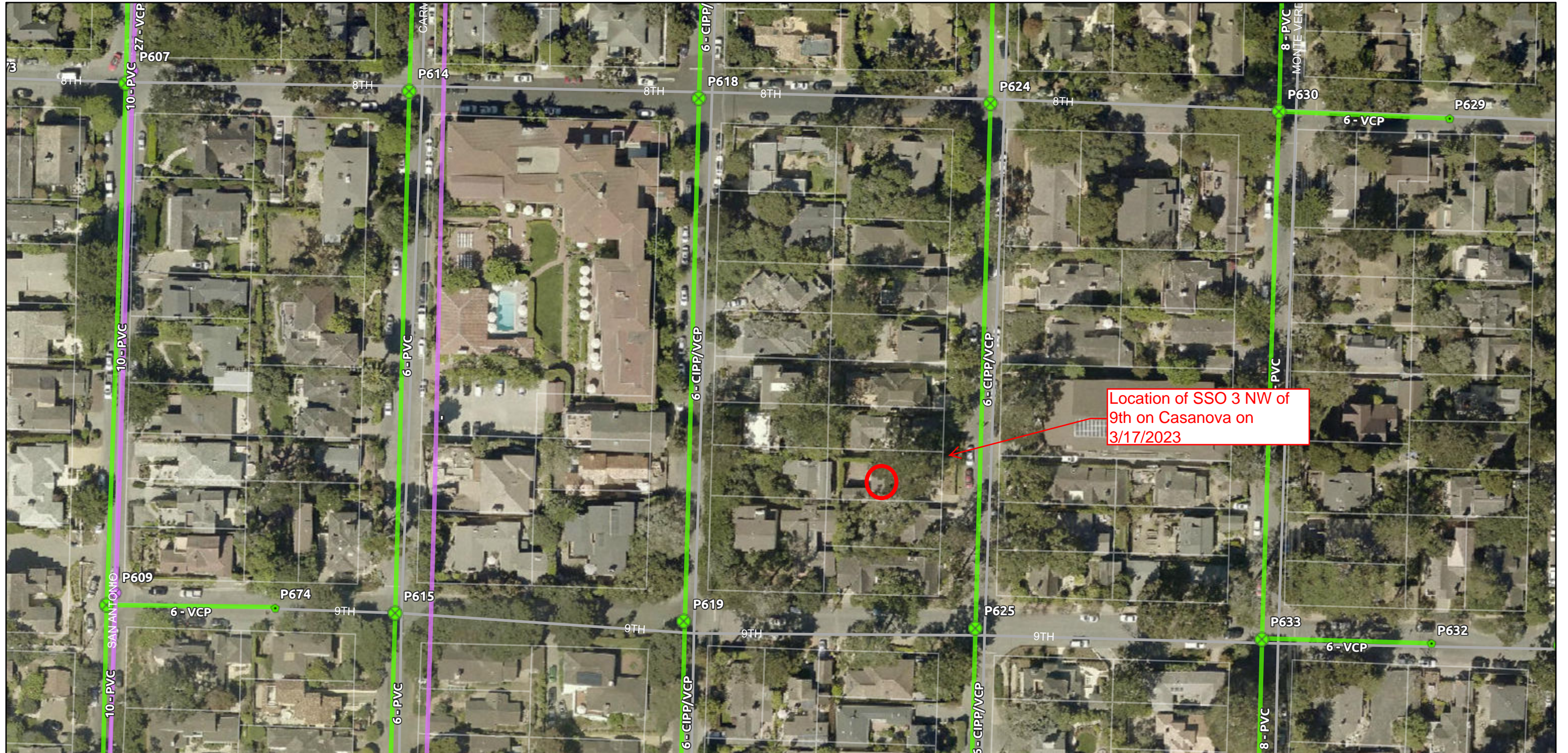


RedZone<sup>®</sup>  
ROBOTICS

4/5/2023

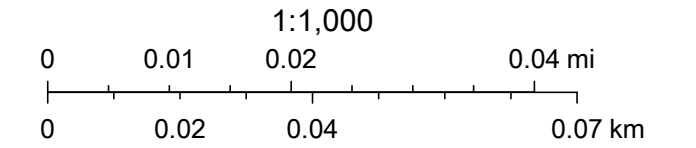


# CAWD GIS Maps



4/5/2023, 11:07:48 AM

- CAWD Service Area ● CAWD (MH) ● Mains — Streets — APNs
- Active Assets ● PBCSD (MH) — CAWD — PBCSD
- Flushing Inlet (FI)



TIGEO

# STAFF REPORT

To: Board of Directors

From: Mark Dias, Safety and  
Regulatory Compliance Administrator  
(S/C Admin Dias)

Date: April 27, 2023

Subject: Monthly Safety Report (for March 2023)



## RECOMMENDATION

Receive Report- Informational only; no action required

## DISCUSSION

### Safety & Training

- **Mar 2- Tailgate Training;** S/C Admin Dias presented on incident reporting, which is critical to improving any safety culture. An “incident” is not limited to an actual injury or exposure because it includes anything safety related such as: close-calls, damage to equipment, trip hazards, and emerging issues like slow leaks, or corrosion on chemical systems. There are several ways to report an incident which could include the following: reporting it to their supervisor or the safety admin, in writing using the District’s incident form, anonymously using the suggestion box, or creating a work order in the Mainsaver system.
- **Mar 8- Tailgate Training;** Patrick Treanor, Plant Engineer, presented on trenching safety. Because soil conditions vary widely, emphasis was placed on making sure a competent person is always present to determine what level of protections are required for each particular trenching operation.
- **March 22- Tailgate Training;** Safety during overtime response events. Kevin Young, Operations Supervisor, presented on ways to stay safe while working overtime. With the recent atmospheric rivers and accompanying wind events, some operators and collections staff needed to work overtime. This included some staff staying overnight at the plant site.



Safety tips included: using the buddy system so at least two persons were on site together while staying in contact, knowing that working extended hours can lead to exhaustion and remembering to take rest breaks, identifying if a coworker seems too tired or distracted to work safely, not coming in the next morning if too tired to work safely, and taking extra care when working in poor lighting conditions.

**March 29- Tailgate Training;** Improved safety training. S/C Admin Dias presented on enhancements to the safety trainings. See Ongoing Safety Improvement section below.

### Ongoing Safety Improvements

Maintenance Superintendent Chris Foley and S/C Admin Dias continued to implement safety improvements and seek input from the operations crew and the Safety Committee. Activities in March included:

- **Safety Training Enhancements.** Several modifications are being implemented to enhance safety related trainings. (1) For weekly tailgate trainings, higher priority topics have been pre-determined for the year. Topics will be pre-assigned to each department. This will allow the trainer to have time to prepare a more thorough presentation. This will also reduce the number of low-priority topics put together at the last minute. (2) The annual Safety Weeks schedule will be streamlined. Typically, 10 straight working days of training are set aside each September. This creates scheduling conflicts and/or overtime accruals with operations and lab staff who also work on the weekends. Safety weeks will now be held over six days (Tuesday-Wednesday-Thursday) and focus on topics where vendors are required to provide certification of training. These include: hazardous materials response, fit-testing, confined space, equipment (forklift, backhoe, etc.), first aid, and cranes/hoists. Other in-house policy trainings will be completed throughout the year instead of during safety weeks. (3) Safety skill drills will also be started. Starting in April hands on skill drills will begin. These will be drills such as setting up confined space retrieval systems, rescue rope knots, victim packaging using specialized rescue equipment. Drills for hazardous materials response will also be started. These include cleaning up an acid, cleaning up a base, taking bulk chemical deliveries, and donning self-contained breathing apparatus.

### Tours and Outreach

- **Tours.** On-site tours remain on temporary hold while several areas of the plant are being impacted by Phase II construction activities. Further progress was made on developing virtual tours. Two tours were given to a Seaside middle schools classes. Troubleshooting of technical transmission issues is ongoing. A different technology will be tried in April to achieve a consistent video stream and reduce zones where the signal drops out.

**Injuries; First Aid Incidents; Workers Compensation Claims**

There was a Workers Comp claim in March. During the atmospheric river event in mid-March, a collections worker was injured during an after-hours response. Crews were dispatched to check on a lift station without power caused by the high winds. Along with other collections workers, the injured worker was assisting Cal-Fire crews to clear a downed tree across Highway 1. While pulling on a branch, the branch broke and the worker fell backwards bruising his lower back. He later became immobile and needed to be taken by ambulance to the Community Hospital of Monterey Peninsula. He was released early the next morning and needed one week of recovery time. He has since made a full recovery and has been returned to full duty. Management has determined that crews will not be dispatched during the height of storms simply to “check on” a lift station. Crews will be dispatched if there is a critical issue that demands an immediate response. Remote monitoring of the lift stations has been improved to determine if there is a critical issue. The updated matrix for 2023 is below.

	<b>Work Related Injuries and Illnesses for 2023 Calendar Year</b>				
<b>TYPE</b>	<b>New Incidents (Month)</b>	<b>Total Incidents (Year)</b>	<b>Total Days Away from Work (Year)</b>	<b>Total Days of Job Restriction (Year)</b>	<b>Cumulative days lost (Year)</b>
<b>OSHA Injuries</b>	1	1	5	5	5
<b>OSHA Illnesses</b>	0	0	0	0	0
<b>Other WC Claims</b>	0	0	0	0	0
<b>First Aid (non-OSHA)</b>	0	0	0	0	0

**FUNDING**

N/A- Informational item only

# Wastewater Treatment Facility Operations Report

Report for: March 2023	HYDRAULIC LOADINGS					2023 YEAR-TO-DATE	
	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	41.933	1.353	1.104	2.241	58.032	114.41	350.95
PBCSD Flow	30.326	0.978	0.688	1.833	41.968	82.26	252.33
<b>Total Plant Flow</b>	<b>72.259</b>	<b>2.331</b>	<b>1.792</b>	<b>4.074</b>	<b>100.00</b>	<b>196.67</b>	<b>603.28</b>
Tertiary Flow (2)	0.842	0.168	0.128	0.203	1.165	26.26	80.55
Ocean Discharge	74.411	2.400	1.816	4.477	102.978	176.82	542.40
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## TERTIARY PROCESS HISTORY

Total Annual Reclamation Production (2023)	26.26MG (80.55acre-ft.)
Total Lifetime Reclamation Production (94-23)	9.27 BG (28.45 K acre-ft.)
12 Month Rolling Total Reclamation Production	300.35 MG (921.78 acre-ft.)

## ELECTRICAL COSTS

Monthly Totals	Mar'23 kWh	Price per kWh	Mar'23	Feb'23	Jan'23	Dec'22
Secondary	95,967.00	\$ 0.184	\$ 17,632.58	\$ 17,321.01	\$ 21,036.13	\$ 22,608.37
Blowers	45,180.88	\$ 0.182	\$ 8,208.67	\$ 8,891.34	\$ 9,037.96	\$ 10,196.01
<b>CAWD Total</b>	<b>141,147.88</b>		<b>\$ 25,841.25</b>	<b>\$ 26,212.35</b>	<b>\$ 30,074.09</b>	<b>\$ 32,804.38</b>
Tertiary	19,562.56	\$ 0.368	\$ 7,192.67	\$ 8,380.23	\$ 16,711.11	\$ 19,953.86
MF/RO	12,926.00	\$ 0.410	\$ 5,303.60	\$ 4,934.76	\$ 14,804.84	\$ 24,003.19
<b>Reclaim Total</b>	<b>32,488.56</b>		<b>\$ 12,496.27</b>	<b>\$ 13,314.99</b>	<b>\$ 31,515.95</b>	<b>\$ 43,957.05</b>
<b>Adjusted Monthly Totals (1)</b>	<b>CAWD Total</b>		<b>\$ 16,289.20</b>	<b>Reclamation Total</b>		<b>\$ 22,048.32</b>

## kW-h Per Acre Foot

	2022				2023			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	1409.48	1577.57	1448.51	1206.68	773.12	N/A	N/A	N/A
Reclamation	2190.20	1984.97	1885.30	1907.67	2889.60	N/A	N/A	N/A

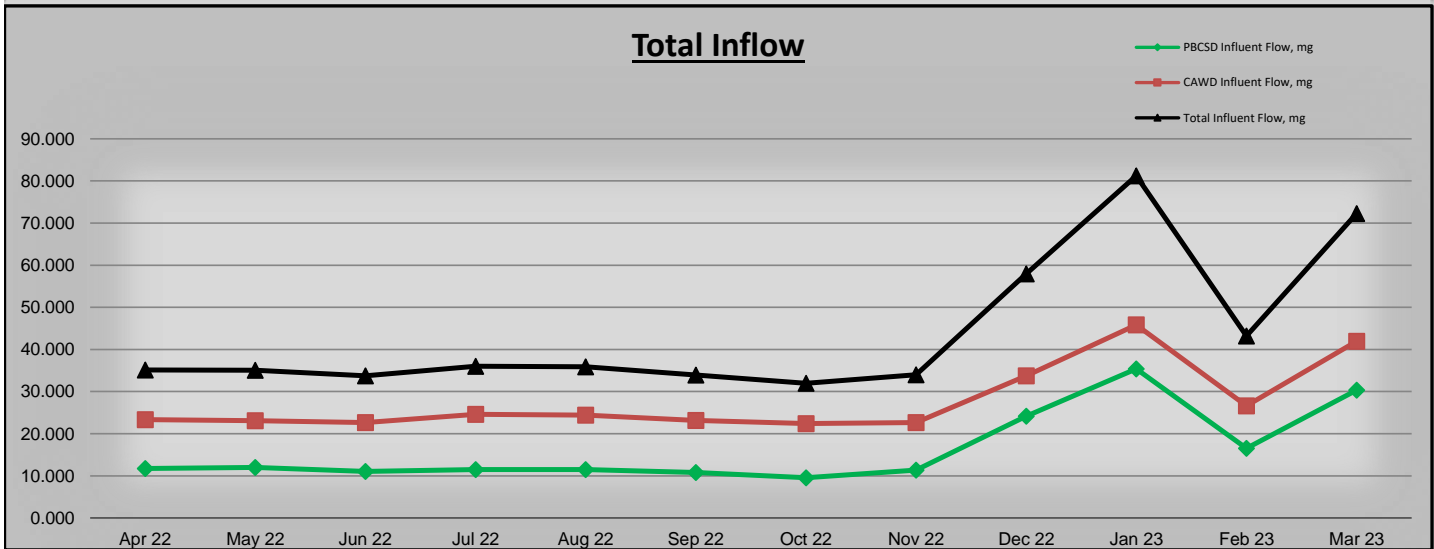
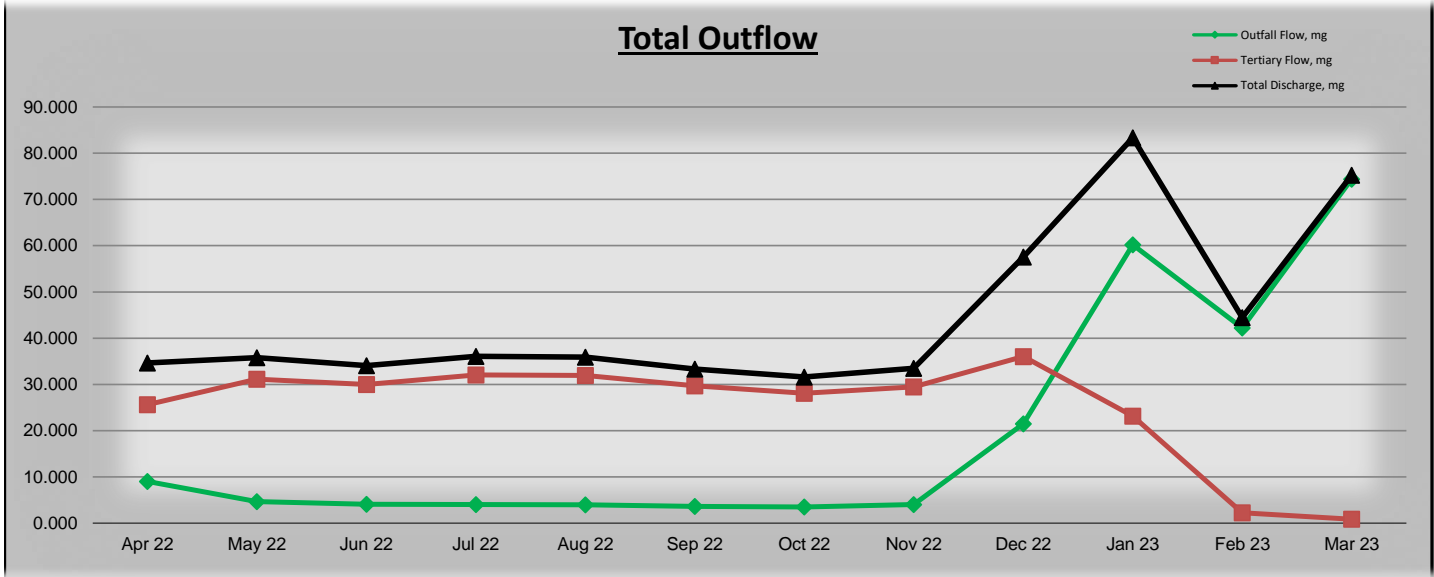
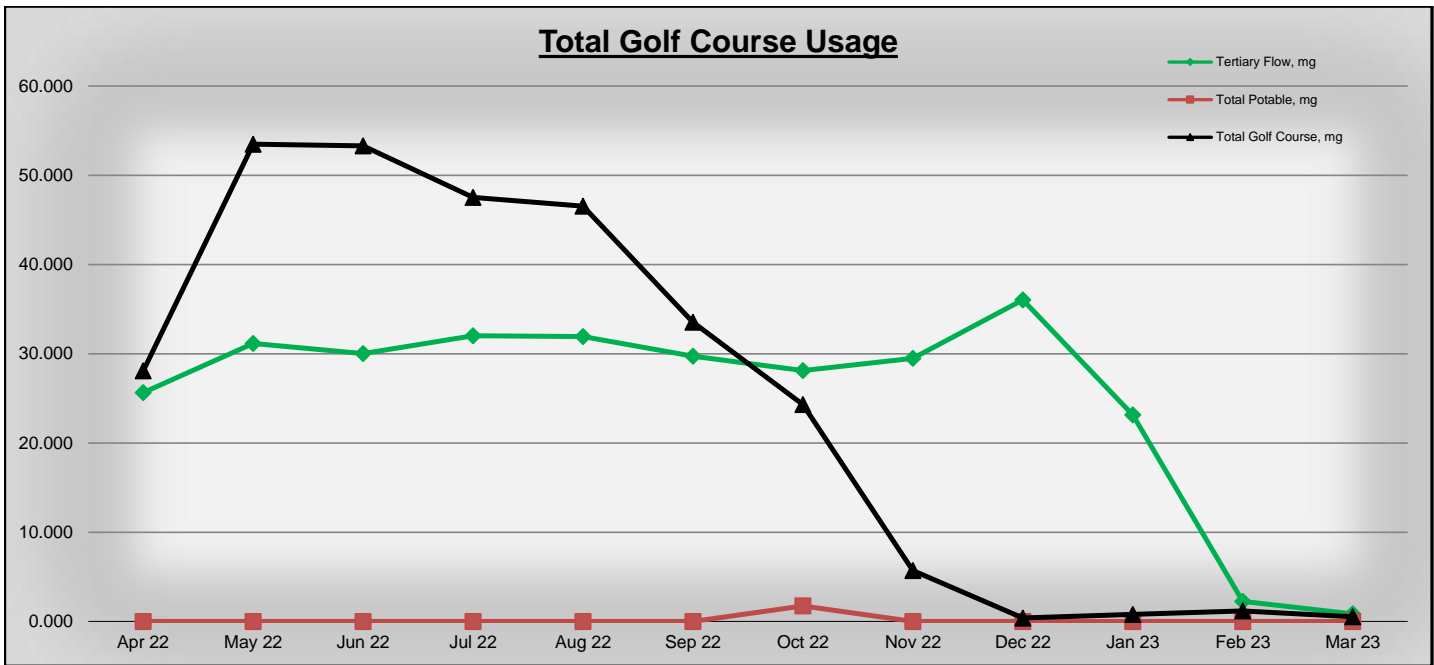
## MICROTURBINE SUMMARY

Month	Mar '23 kW-h (3)	Feb'23	Jan'23	Dec'22	Accumulated Totals
Production, kW-h	7,799	11,438	11,943	5,817	1,324,291.00

(1) Cost adjustment for Reclamation percentage for Secondary power costs and CAWD's percentage for Tertiary's power costs due to the Lab's power usage.

(2) Reclamation facility was in operation intermittently to keep the Poppy Hills storage tank full

(3) Microturbine off-line due to equipment malfunction from the PG&E power outages



# Wastewater Treatment Facility Operations Report

Report for: February 2023	HYDRAULIC LOADINGS					2023 YEAR-TO-DATE	
	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	26.652	0.952	0.794	1.538	61.703	72.48	222.32
PBCSD Flow	16.542	0.591	0.443	1.058	38.297	51.93	159.30
<b>Total Plant Flow</b>	<b>43.194</b>	<b>1.543</b>	<b>1.237</b>	<b>2.596</b>	<b>100.00</b>	<b>124.41</b>	<b>381.63</b>
Tertiary Flow (2)	2.262	0.206	0.147	0.235	5.237	25.42	77.97
Ocean Discharge	42.221	1.508	1.144	2.810	97.747	102.41	314.15
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

## TERTIARY PROCESS HISTORY

Total Annual Reclamation Production (2023)	25.42MG (77.97acre-ft.)
Total Lifetime Reclamation Production (94-23)	9.27 BG (28.45 K acre-ft.)
12 Month Rolling Total Reclamation Production	326.52 MG (1002.08 acre-ft.)

## ELECTRICAL COSTS

Monthly Totals	Feb'23 kWh	Price per kWh	Feb'23	Jan'23	Dec'22	Nov'22
Secondary	102,408.00	\$ 0.169	\$ 17,321.01	\$ 21,036.13	\$ 22,608.37	\$ 20,217.64
Blowers	53,755.36	\$ 0.165	\$ 8,891.34	\$ 9,037.96	\$ 10,196.01	\$ 10,482.05
<b>CAWD Total</b>	<b>156,163.36</b>		<b>\$ 26,212.35</b>	<b>\$ 30,074.09</b>	<b>\$ 32,804.38</b>	<b>\$ 30,699.69</b>
Tertiary	26,771.68	\$ 0.313	\$ 8,380.23	\$ 16,711.11	\$ 19,953.86	\$ 16,183.46
MF/RO	13,097.00	\$ 0.377	\$ 4,934.76	\$ 14,804.84	\$ 24,003.19	\$ 24,511.97
<b>Reclaim Total</b>	<b>39,868.68</b>		<b>\$ 13,314.99</b>	<b>\$ 31,515.95</b>	<b>\$ 43,957.05</b>	<b>\$ 40,695.43</b>
<b>Adjusted Monthly Totals (1)</b>	<b>CAWD Total</b>		<b>\$ 16,511.94</b>	<b>Reclamation Total</b>		<b>\$ 23,015.40</b>

## kW-h Per Acre Foot

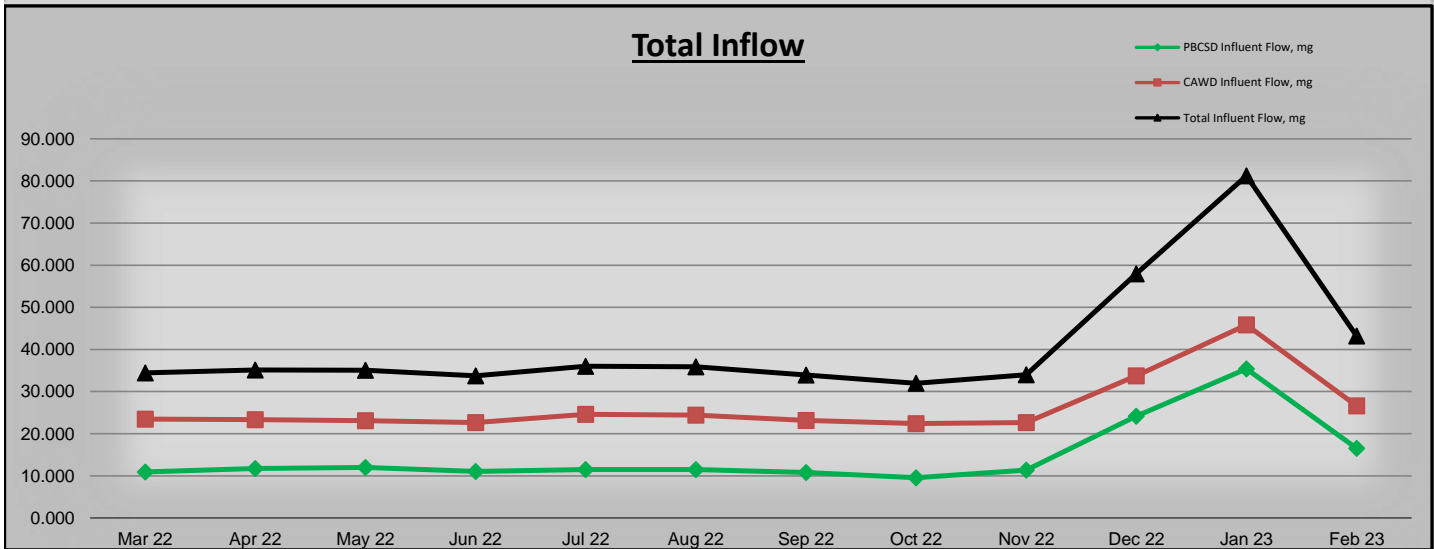
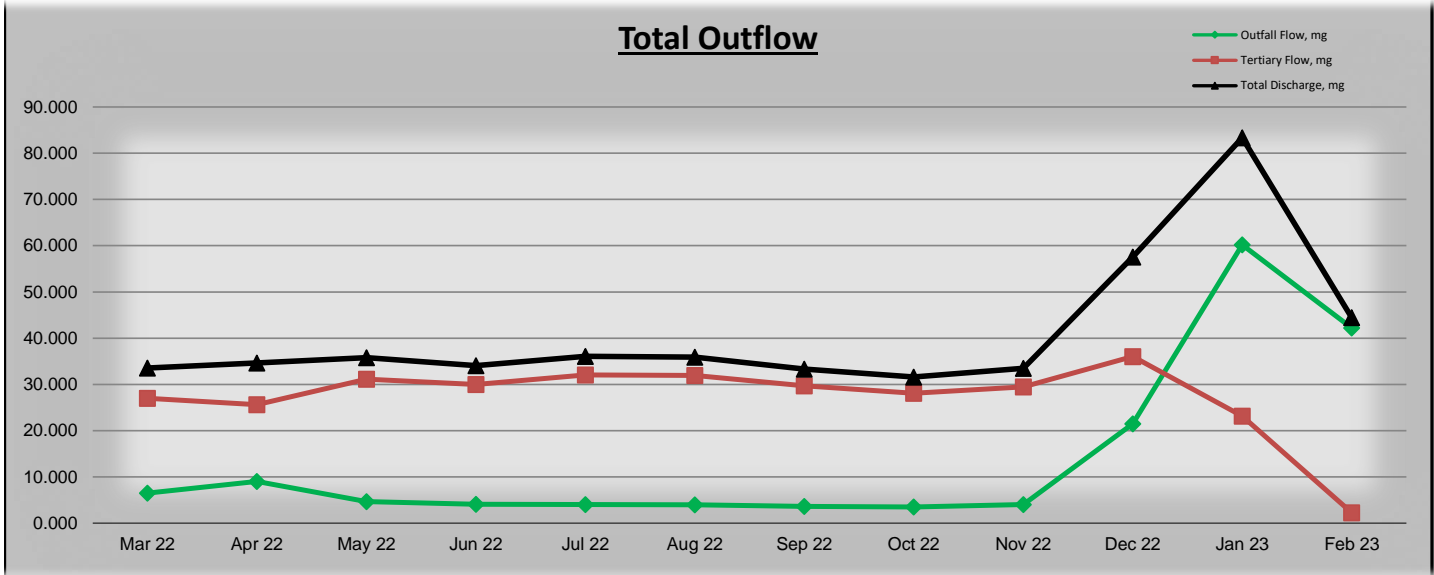
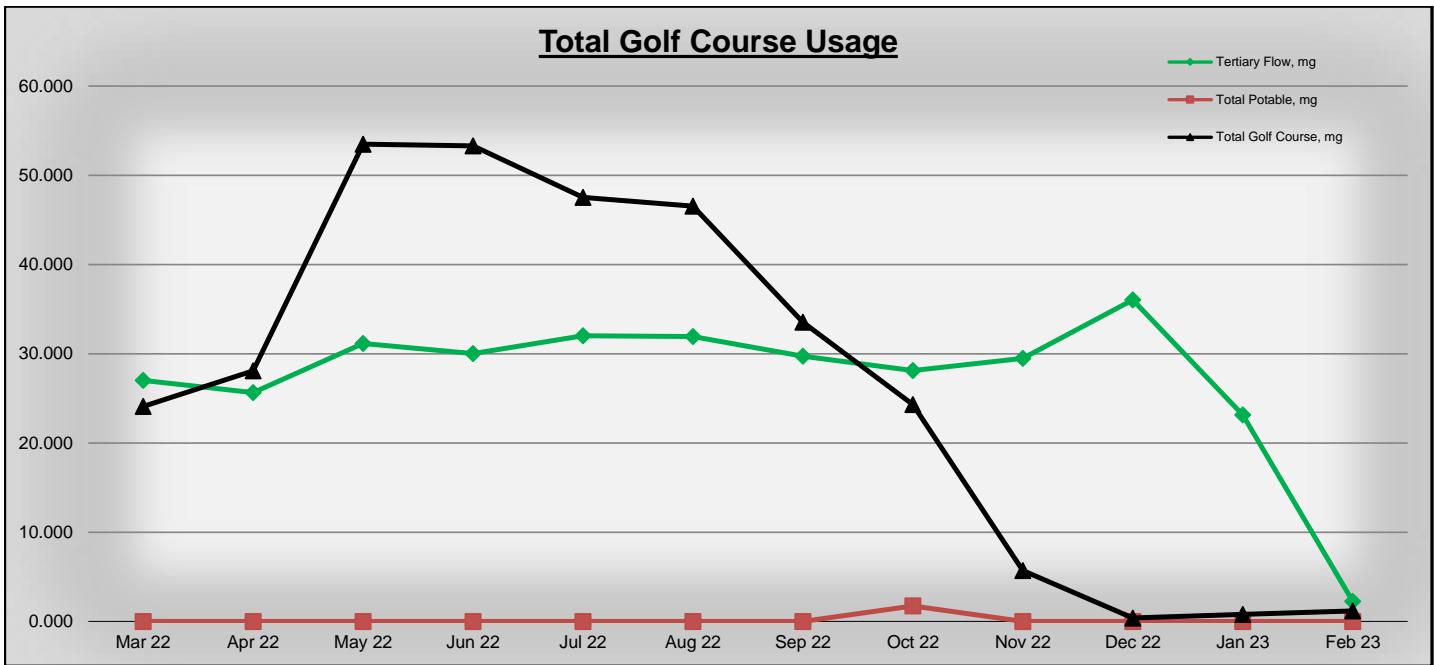
	2022				2023			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	1409.48	1577.57	1448.51	1206.68	N/A	N/A	N/A	N/A
Reclamation	2190.20	1984.97	1885.30	1907.67	N/A	N/A	N/A	N/A

## MICROTURBINE SUMMARY

Month	Feb '23 kW-h	Jan'23	Dec'22	Nov'22	Accumulated Totals
Production, kW-h	11,438	11,943	5,817	10,147	1,316,492.00

(1) Cost adjustment for Reclamation percentage for Secondary power costs and CAWD's percentage for Tertiary's power costs due to the Lab's power usage.

(2) Reclamation facility was in operation intermittently to keep the Poppy Hills storage tank full



## Wastewater Treatment Facility Operations Report

	HYDRAULIC LOADINGS					2023 YEAR-TO-DATE	
Report for: January 2023	Total Monthly, MG	Avg. Daily, MGD	Min Daily, MGD	Max Daily, MGD	% of Total	MG	acre-feet
CAWD Flow	45.825	1.478	0.877	2.531	56.424	45.83	140.57
PBCSD Flow	35.391	1.142	0.604	1.981	43.576	35.39	108.56
<b>Total Plant Flow</b>	<b>81.216</b>	<b>2.620</b>	<b>1.481</b>	<b>4.512</b>	<b>100.00</b>	<b>81.22</b>	<b>249.13</b>
Tertiary Flow (2)	23.155	1.007	0.170	1.615	28.510	23.16	71.03
Ocean Discharge	60.192	1.942	0.994	4.568	74.113	60.19	184.64
Potable Water	0.000	0.000	0.000	0.000	0.000	0.000	0.000

### TERTIARY PROCESS HISTORY

Total Annual Reclamation Production (2023)	23.16MG (71.03acre-ft.)
Total Lifetime Reclamation Production (94-23)	9.27 BG (28.44 K acre-ft.)
12 Month Rolling Total Reclamation Production	346.72 MG (1064.08 acre-ft.)

### ELECTRICAL COSTS

Monthly Totals	Jan'23 kWh	Price per kWh	Jan'23	Dec'22	Nov'22	Oct'22
Secondary	115,142.00	\$ 0.183	\$ 21,036.13	\$ 22,608.37	\$ 20,217.64	\$ 19,148.64
Blowers	53,954.32	\$ 0.168	\$ 9,037.96	\$ 10,196.01	\$ 10,482.05	\$ 9,363.99
<b>CAWD Total</b>	<b>169,096.32</b>		<b>\$ 30,074.09</b>	<b>\$ 32,804.38</b>	<b>\$ 30,699.69</b>	<b>\$ 28,512.63</b>
Tertiary	93,401.56	\$ 0.179	\$ 16,711.11	\$ 19,953.86	\$ 16,183.46	\$ 16,189.86
MF/RO	66,996.00	\$ 0.221	\$ 14,804.84	\$ 24,003.19	\$ 24,511.97	\$ 19,032.17
<b>Reclaim Total</b>	<b>160,397.56</b>		<b>\$ 31,515.95</b>	<b>\$ 43,957.05</b>	<b>\$ 40,695.43</b>	<b>\$ 35,222.03</b>
<b>Adjusted Monthly Totals (1)</b>	<b>CAWD Total</b>		<b>\$ 18,511.37</b>	<b>Reclamation Total</b>		<b>\$ 43,078.67</b>

### kW-h Per Acre Foot

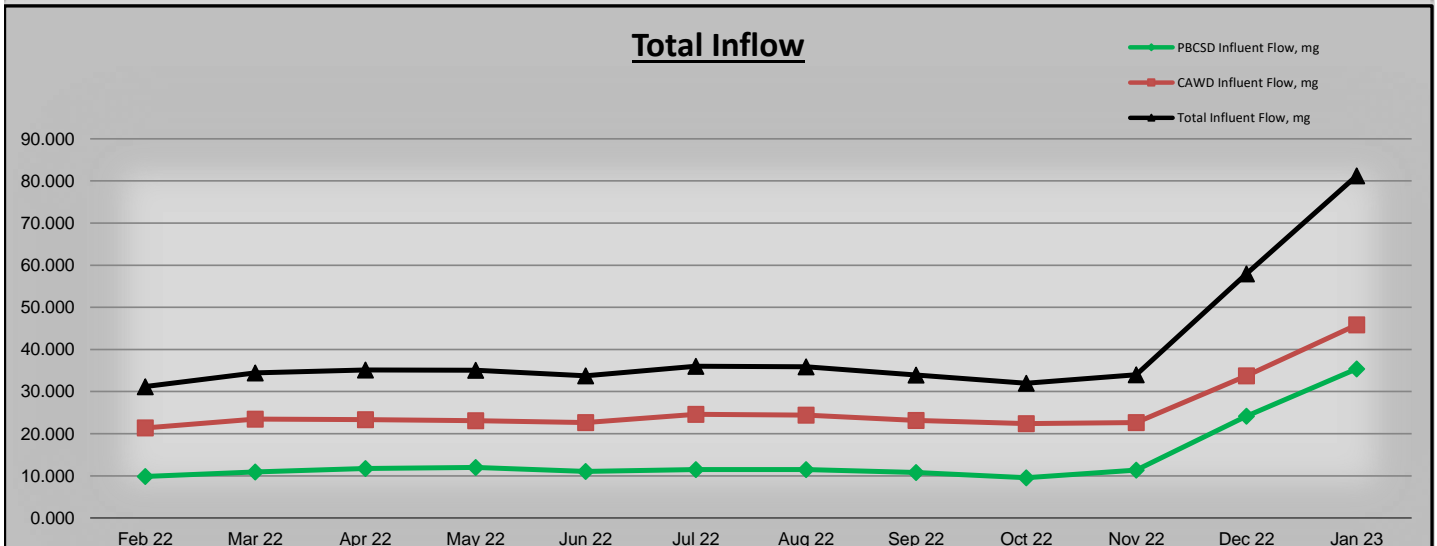
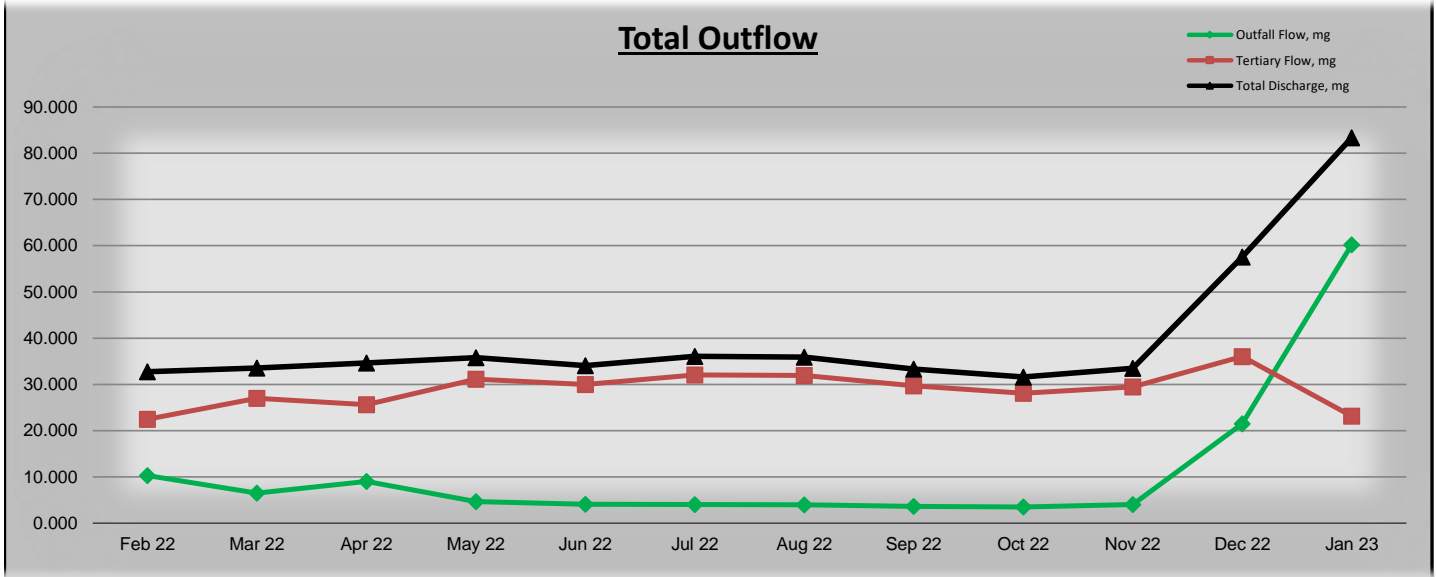
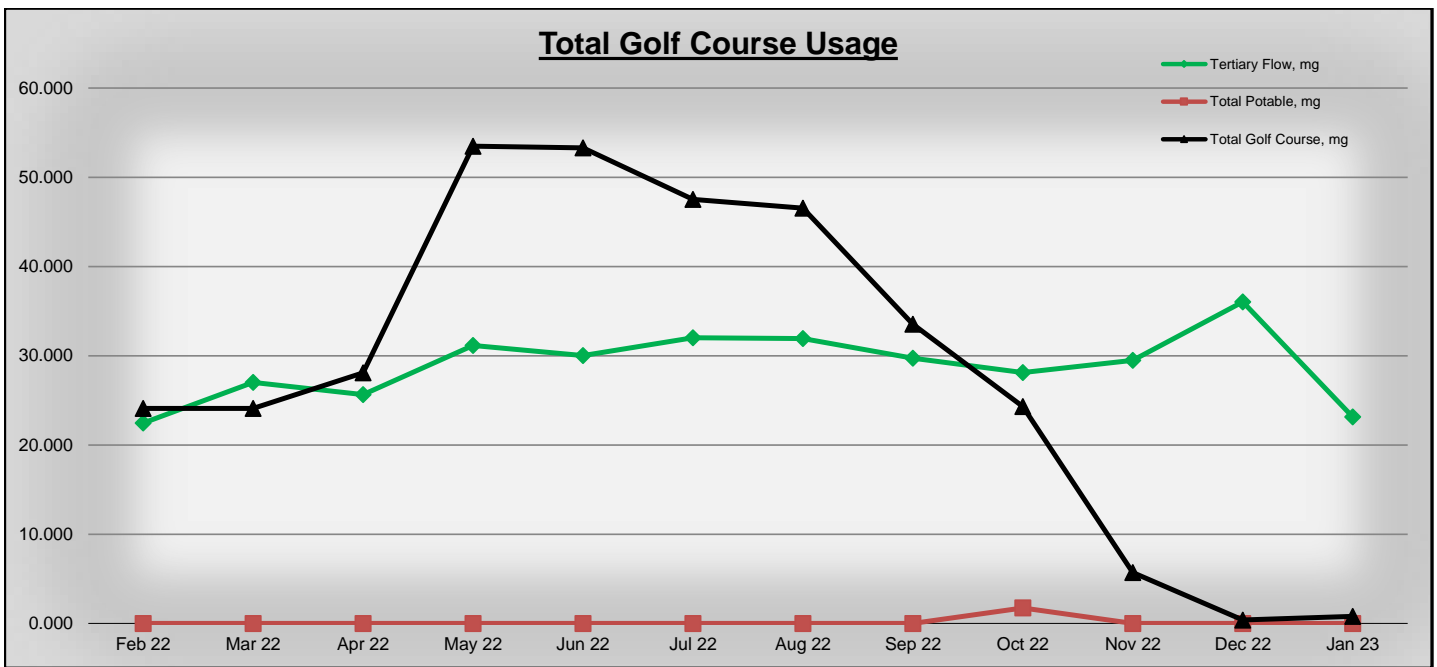
	2022				2023			
	1 QTR	2 QTR	3 QTR	4 QTR	1 QTR	2 QTR	3 QTR	4 QTR
CAWD	1409.48	1577.57	1448.51	1206.68	N/A	N/A	N/A	N/A
Reclamation	2190.20	1984.97	1885.30	1907.67	N/A	N/A	N/A	N/A

### MICROTURBINE SUMMARY

Month	Jan '23 kW-h	Dec'22	Nov'22	Oct'22	Accumulated Totals
Production, kW-h	11,943	5,817	10,147	20,420	1,305,054.00

(1) Cost adjustment for Reclamation percentage for Secondary power costs and CAWD's percentage for Tertiary's power costs due to the Lab's power usage.

(2) Reclamation facility taken off-line on 1/23/2023 due to full reservoir and storage tank





# STAFF REPORT



To: Board of Directors  
From: Ray De Ocampo - Laboratory/Environmental Compliance Supervisor  
Date: April 27, 2023  
Subject: Monthly Report – March 2023

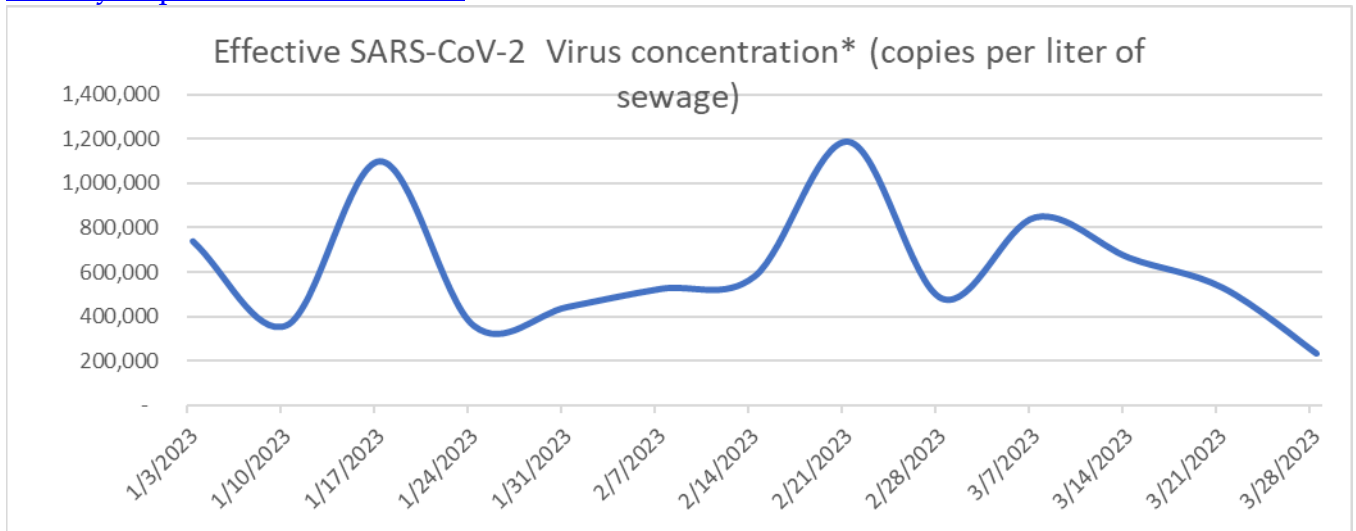
## RECOMMENDATION

Receive Report - Informational only; No action required.

## DISCUSSION

### LABORATORY REPORT

- Biobot Analytics continues to provide COVID-19 analysis for Carmel Area Wastewater District (CAWD) composite samples of the Influent Pump Station. Biobot samples are available upon request and can also be viewed on the CAWD website: [Biobot Analytics Weekly Reports on SARS-CoV-2](#).



\* Effective virus concentration value is derived by adjusting the raw virus concentration to account for dilution & other factors (copies per liter of sewage)

- On March 7, the Thermo Fisher Service Technician was on site to perform maintenance on the Gallery instrument. The Gallery was having a problem with dispensing the sample cuvette causing the instrument to not operate correctly. The technician was able to complete the work successfully, if the problem continues then a complete hardware replacement would happen under the preventative maintenance service contract.

- On March 7,8,14,15, the laboratory lost PG&E power to the building, staff ran the laboratory on small portable generators and with extension cords from the plant back up power supply from the Chlorine Dechlorine building.
- On March 17, 2023, the Central Coast Long Term Assessment Network, (CCLEAN), completed the 30 day “wet season” sampling that started on February 17, 2023. Staff collected and shipped samples to the contract laboratory for analysis and results will be available after reviewed by Applied Marine Sciences.
- On March 31, 2023, the 10-year (2013-2023) Comprehensive Study of Effects from the Carmel Area Wastewater District Discharge on Carmel Bay Area of Special Biological Significance report was prepared and submitted by Applied Marine Services to Central Coast Regional Water Quality Control Board as part of the National Pollutant Discharge Elimination System (NPDES) Permit.

**ENVIRONMENTAL COMPLIANCE REPORT**

**Restaurant Inspections**

<b>Restaurant</b>	<b>Compliant</b>	<b>Reason for Non-Compliance</b>	<b>Comments</b>
Village Corner	Yes		
Grasings	Yes		
Pangaea Grill	Yes		
The Tuck Box	Yes		

**Grocery Store/Delicatessen Inspections**

<b>Grocery Store/Delicatessen</b>	<b>Compliant</b>	<b>Reason for Non-Compliance</b>	<b>Comments</b>
NA			

**Compliance Register**

<b>% Compliance</b>	<b>Maintenance</b>	<b>Mechanical</b>
January 2023	NA	NA
February 2023	100	100
March 2023	100	100

Project Number	GL	Task Name	Manager	Start	Finish	Current FY Budget	Cumulative Budget	Status	21	2022		2023		2024		20
									H2	H1	H2	H1	H2	H1	H2	H1
<b>Projects Implementation Plan Schedule</b>																
<u>Treatment Plant Capital Projects</u>																
18-01	1620.000	Elec/Mech Rehab and Sludge Holding Tank Replacement Project	Treanor	4/30/18	9/29/23	\$4,820,750	\$9,137,431	In Construction	Tank Replacement Project							
18-28	1626.000	Perimeter Tree Plan and Implementation	Treanor	7/1/19	6/30/26	\$75,000	\$130,020	Planning Stakeholder Meeting	Perimeter Tree Plan and Implementation							
19-21	1993.000	Carmel River FREE Mitigation	Treanor	6/1/20	12/30/25	\$0	\$0	Pending Funding	Carmel River FREE Mitigation							
19-19	1634.000	Aeration Basin Improvements	Waggoner	7/1/20	10/13/23	\$0	\$17,332	On Hold Until Spring 2023	Aeration Basin Improvements							
19-18	1593.000	Perimeter Fencing	Treanor	7/1/22	10/15/24	\$275,000	\$275,000	Design/CEQA	Perimeter Fencing							
22-03	1639.000	WWTP Gas and Water Main Replacement	Treanor	5/2/22	10/15/24	\$100,000	\$300,000	In Design	WWTP Gas and Water Main Replacement							
22-04	5500.006	CAWD Bridge and Trail Project	Treanor	3/1/21	2/29/28	\$0	\$550	Funding Strategy	CAWD Bridge and Trail Project							
22-06	1640.000	Vactor Receiving Station	Treanor	7/1/22	8/29/24	\$104,950	\$354,950	Design Phase	Vactor Receiving Station							
<u>Reclamation Capital Projects</u>																
18-26	14777	Sulfuric Acid and Citric Acid Storage and Feed Systems	Treanor	1/1/19	4/28/23	\$334,000	\$455,923	Substantial Completion	Storage and Feed Systems							
22-05	14794	Reclamation 15-Year CIP Master Plan	Treanor	8/2/22	12/29/23	\$300,000	\$300,000	In Progress	Reclamation 15-Year CIP Master Plan							
<u>Collections Capital Projects</u>																
19-03	1586.000	Carmel Meadows Sewer Replacement	Lather	8/1/19	1/17/25	\$2,000,000	\$2,471,949	Permitting	Meadows Sewer Replacement							
20-07	1636.000	Bay/Scenic Pump Station Rehabilitation	Lather	12/31/20	6/30/24	\$650,000	\$680,892	In Design	Scenic Pump Station Rehabilitation							
20-08	1635.000	Scenic Rd Pipe Bursting - Ocean to Bay	Lather	2/5/21	6/28/24	\$3,500,000	\$3,731,786	In Design / CEQA	Scenic Rd Pipe Bursting - Ocean to Bay							
21-05	1637.000	Pescadero Sewer Relocation	Lather	7/1/21	6/30/25	\$100,000	\$1,689,236	In Design / CEQA	Pescadero Sewer Relocation							
22-07	1641.000	Emergency Lorca Lane Sewer Relocation	Lather	8/30/22	5/31/23	\$175,000	\$0	In Progress	Emergency Lorca Lane Sewer Relocation							
23-01		Santa Rita & Guadalupe Pipeline Rehab	Lather	1/1/23	6/30/23	\$0	\$0	In Design	Santa Rita & Guadalupe Pipeline Rehab							
20-06		Collections 15-Year CIP	Lather	7/1/20	7/1/40	\$0	\$62,899,430	Work In Progress	Collections 15-Year CIP							
<u>Collections Non-Capital Projects</u>																
20-05		River Watch Agreement	Lather	2/21/20	2/21/24	\$0	\$0	Work In Progress	River Watch Agreement							
23-02		22-23 Pipeline Spot Repair	Lather	1/2/23	6/30/23	\$150,000	\$150,000	In Construction	22-23 Pipeline Spot Repair							
<u>Assessment Districts/Annexations</u>																
18-21	1631.000/2505.000	Corona Road Assessment District	Lather	8/2/18	3/15/24	\$0	\$0	In Design / CEQA	Assessment District							
19-08	1632.000	Carmel Valley Manor Pipeline and Pump Station	Lather	7/3/18	2/15/24	\$0	\$0	In Construction	Pipeline and Pump Station							
18-29	9095.000	September Ranch Subdivision	Lather	9/1/22	8/30/24	\$0	\$0	Sewer Agreement	September Ranch Subdivision							
		Rancho Cañada Village Subdivision	Lather	3/1/23	2/27/25	\$0	\$0	In Design by Property Owner	Rancho Cañada Village Subdivision							

Project Number	GL	Task Name	Manager	Start	Finish	Current FY Budget	Cumulative Budget	Status	21	2022		2023		2024		20
									H2	H1	H2	H1	H2	H1	H2	H1
		<u>Other Non-Capital Projects</u>														
		Workforce Now	Foley			\$0	\$0	Implementation								
		Real Property Investigation	Buikema			\$75,000	\$75,000	Ongoing								
		Cyber Security	Foley			\$17,000	\$17,000	Ongoing								
		Source Control Six Sigma	Buikema			\$0	\$0	Board Presentation								
22-01	5500.006	Long Term SLR Planning	Buikema / Treanor	5/3/21	2/29/40	\$260,000	\$1,400,000	In Progress								
									<b>Long Term SLR Planning</b>							

# **Treatment Plant Capital Project Summaries**



Photo: New Sludge Tank Under Construction

<b>Project Number:</b>	<b>18-01</b>	
<b>Project Name:</b>	<b>Wastewater Treatment Plant (WWTP) – Elec/Mech Rehab &amp; Sludge Holding Tank Replacement Project</b>	
<b>Project Location:</b>	Wastewater Treatment Plant	
<b>Project Manager:</b>	Trenor	
<b>Status:</b>	In Construction	
<b>Project Description:</b>	This project is a multi-area project at the WWTP aimed at mitigating risk of failure in the Influent Pump Station, Headworks, 3W/Chlorine Analyzer Building, Effluent Building and Sludge Storage Tank. Most of the work involves replacing aged electrical and mechanical equipment in existing buildings.	
<b>Department:</b>	Treatment	
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent:
	\$9,137,431	\$6,901,699
<b>Financial:</b>	FY Budget:	FY Spent:
	\$4,820,750	\$2,580,596
<b>Reclamation Share:</b>	Estimated at 2.7% of project cost.	
<b>Other Entities:</b>	Pebble Beach Community Services District, CAWD/PBCSD Reclamation Project	
<b>Permits Required:</b>	Coastal Commission Notification	
<b>Challenges:</b>	Electrical Equipment Supply Chains	
<b>Schedule:</b>	<ul style="list-style-type: none"> <li>Construction anticipated for FY21/22 into FY22/23</li> </ul>	
<b>Consultants:</b>	Design: Kennedy/Jenks Consultants Construction Management: Currie Engineers	
<b>Contractor:</b>	Clark Bros. Inc.	



Photo: Eucalyptus trees on South Side of Treatment Plant

<b>Project Number:</b>	<b>18-28</b>	
<b>Project Name:</b>	<b>Perimeter Tree Plan and Implementation</b>	
<b>Project Location:</b>	Wastewater Treatment Plant	
<b>Project Manager:</b>	Trenor	
<b>Status:</b>	Planning Stakeholder Meeting	
<b>Project Description:</b>	Planning and landscaping around the treatment plant. This will include looking into possibly replacing the non-native eucalyptus trees around the perimeter of the treatment plant with native tree species. The project will start with a study and a plan to determine costs, sequencing schedule, and visual impacts. The Eucalyptus trees around the plant have ongoing maintenance costs, which may be offset in the long term with a different type of tree screening. The purpose is to improve security around plant perimeter.	
<b>Department:</b>	Treatment	
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent:
	\$130,020	\$5,020
<b>Financial:</b>	FY Budget:	FY Spent:
	\$75,000	\$0
<b>Reclamation:</b>	N/A	
<b>Other Entities:</b>	N/A	
<b>Permits Required:</b>	Currently unknown (In Study Phase)	
<b>Challenges:</b>	Time it will take for new trees to grow up that will fully screen treatment plant from view	
<b>Schedule:</b>	<ul style="list-style-type: none"> <li>Study moved to 2023; anticipate completion 06-30-26</li> </ul>	
<b>Consultants:</b>	Scott Hall Landscape Design	
<b>Contractor:</b>	TBD	

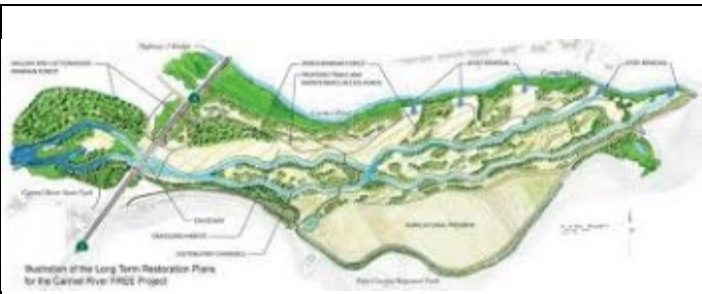


Photo: Carmel River Floodplain Restoration and Environmental Enhancement (CRFREE)

<b>Project Number:</b>	<b>19-21</b>	
<b>Project Name:</b>	<b>Carmel River Floodplain Restoration &amp; Environmental Enhancement (CRFREE) Mitigation</b>	
<b>Project Location:</b>	Carmel River Lagoon	
<b>Project Manager:</b>	Trenor	
<b>Status:</b>	Pending Funding	
<b>Project Description:</b>	The CRFREE Project intends to create a new river channel in the Carmel River lagoon floodplain, which will significantly impact existing wastewater pipelines that cross the lagoon. To fully mitigate impacts from CRFREE the pipelines, which are currently crossing over a portion of the lagoon, are proposed to be installed underground using Horizontal Directional Drilling construction methods.	
<b>Department:</b>	Engineering	
<b>Financial:</b>	Coastal Conservancy Grant Budget: \$750,000	Cumulative Spent: \$618,569 FY Spent: \$0
** Project is being funded by CRFREE initiated grants		
<b>Reclamation Share:</b>	N/A	
<b>Other Entities:</b>	Monterey County	
<b>Permits Required:</b>	Coastal Commission, CA Fish and Wildlife, Army Corp of Engineers, Reginal Water Quality Control Board (RWQCB)	
<b>Challenges:</b>	Construction near environmentally sensitive habitat and obtaining new easement from State Parks	
<b>Schedule:</b>	<ul style="list-style-type: none"> <li>Construction anticipated in 2025</li> </ul>	
<b>Consultants:</b>	Design: Kennedy Jenks and Staheli Trenchless CEQA: Johnson Marigot	
<b>Contractor:</b>	TBD	



Photo: Existing air diffuser system

<b>Project Number:</b>	<b>19-19</b>	
<b>Project Name:</b>	<b>WWTP – Aeration Basin Improvements</b>	
<b>Project Location:</b>	Wastewater Treatment Plant	
<b>Project Manager:</b>	Waggoner	
<b>Status:</b>	On Hold Until Spring 2023	
<b>Project Description:</b>	The Aeration Basins 4A & 4B need to have additional diffusers installed to ensure the proper air (oxygen) transfer into the wastewater to support the aerobic microorganisms in the basins.	
<b>Department:</b>	Treatment	
<b>Financial:</b>	Cumulative Budget: \$17,332	Cumulative Spent: \$17,332
	FY Budget: \$0	FY Spent: \$0
<b>Reclamation Share:</b>	N/A	
<b>Other Entities:</b>	N/A	
<b>Permits Required:</b>	N/A	
<b>Challenges:</b>	Weather conditions and Scheduling	
<b>Schedule:</b>	<ul style="list-style-type: none"> <li>Design is complete</li> <li>Materials ordered and received</li> <li>Construction anticipated for Spring 2023</li> </ul>	
<b>Consultants:</b>	N/A	
<b>Contractor:</b>	N/A	



Photo: Existing Dilapidated Fence

<b>Project Number:</b>	<b>19-18</b>
<b>Project Name:</b>	<b>Perimeter Fencing</b>
<b>Project Location:</b>	Wastewater Treatment Plant (WWTP)
<b>Project Manager:</b>	Treanor
<b>Status:</b>	Design/CEQA
<b>Project Description:</b>	Install a new fence around the perimeter of the WWTP.
<b>Department:</b>	Treatment
<b>Financial:</b>	Cumulative Budget: \$275,000
	Cumulative Spent: \$48,856
	FY Budget: \$275,000
	FY Spent: \$48,856
<b>Reclamation Share:</b>	N/A
<b>Other Entities:</b>	N/A
<b>Permits Required:</b>	California Environmental Quality Act (CEQA) Mitigated Negative Declaration (MND), Coastal Developmental Permit (CDP) Notification
<b>Challenges:</b>	Environmental Mitigations
<b>Schedule:</b>	<ul style="list-style-type: none"> <li>Design in FY22-23</li> <li>Construction in FY23-24</li> </ul>
<b>Consultants:</b>	Kennedy Jenks
<b>Contractor:</b>	TBD



Photo: Gas Meter on North Side of River

<b>Project Number:</b>	<b>22-03</b>
<b>Project Name:</b>	<b>WWTP Gas and Water Main Replacement</b>
<b>Project Location:</b>	Wastewater Treatment Plant
<b>Project Manager:</b>	Treanor
<b>Status:</b>	In Design
<b>Project Description:</b>	The WWTP natural gas and water utility service exists on the opposite side of the Carmel River from the WWTP. CAWD owns the piping under the river for these utilities. The water line and gas line are PVC and identified as having a high risk of failure. The gas line is needed for plant operations to provide supplementary heating to the digesters for thermophilic digestion.
<b>Department:</b>	Treatment
<b>Financial:</b>	Cumulative Budget: \$300,000
	Cumulative Spent: \$43,444
	FY Budget: \$100,000
	FY Spent: \$43,444
<b>Reclamation Share:</b>	N/A
<b>Other Entities:</b>	Cost Share w/ Collections @ 5.5%
<b>Permits Required:</b>	TBD
<b>Challenges:</b>	Underground work in riparian area
<b>Schedule:</b>	<ul style="list-style-type: none"> <li>Currently undergoing alternatives analysis study</li> <li>Design in FY22-23</li> <li>Construction in FY23-24</li> </ul>
<b>Consultants:</b>	Kennedy Jenks
<b>Contractor:</b>	N/A





Photo: Conceptual Rendering of Public Use and Bridge

<b>Project Number:</b>	<b>22-04</b>	
<b>Project Name:</b>	<b>CAWD Bridge and Trail Project</b>	
<b>Project Location:</b>	Wastewater Treatment Plant	
<b>Project Manager:</b>	Trenor	
<b>Status:</b>	Funding Strategy	
<b>Project Description:</b>	Construct a new bridge at the location of the existing CAWD bridge over the Carmel River. Bridge would be open for public use and would allow for new walking trails to connect the City of Carmel-by-the-Sea (Mission Trail) to the Regional Parks (Palo Corona).	
<b>Department:</b>	Treatment	
<b>Financial:</b>	Cumulative Budget: \$550	Cumulative Spent: \$550
	FY Budget: \$0	FY Spent: \$0
**No budget. Funding potential via Carmel River settlement grants.		
<b>Reclamation Share:</b>	N/A	
<b>Other Entities:</b>	State Parks, Diocese of Monterey, City of Carmel-by-the-Sea, Regional Parks District	
<b>Permits Required:</b>	TBD	
<b>Challenges:</b>	Obtaining Funding and Community Support	
<b>Schedule:</b>	Currently working on video and marketing outreach effort	
<b>Consultants:</b>	TBD	
<b>Contractor:</b>	TBD	



Photo: CAWD Vactor Truck

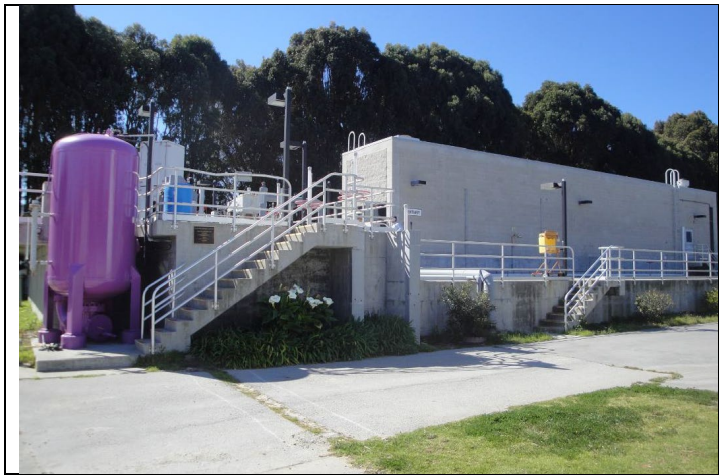
<b>Project Number:</b>	<b>22-06</b>	
<b>Project Name:</b>	<b>Vactor Receiving Station</b>	
<b>Project Location:</b>	Wastewater Treatment Plant	
<b>Project Manager:</b>	Trenor	
<b>Status:</b>	Design Phase	
<b>Project Description:</b>	Construct a new Vactor Receiving Station for the Collections Department and the disposal of waste collected in the vactor truck.	
<b>Department:</b>	Treatment	
<b>Financial:</b>	Cumulative Budget: \$354,950	Cumulative Spent: \$20,325
	FY Budget: \$104,950	FY Spent: \$20,325
<b>Reclamation Share:</b>	N/A	
<b>Other Entities:</b>	N/A	
<b>Permits Required:</b>	Coastal Developmental Permit (CDP) Notification	
<b>Challenges:</b>	Design for ultimate user satisfaction.	
<b>Schedule:</b>	Construction in FY23/24	
<b>Consultants:</b>	Kennedy Jenks	
<b>Contractor:</b>	TBD	

# **Reclamation Capital Project Summaries**



*Photo: Existing totes used for Sulfuric Acid storage and Feed*

<b>Project Number:</b>	<b>18-26</b>	
<b>Project Name:</b>	<b>Sulfuric Acid &amp; Citric Acid Storage &amp; Feed Systems Project</b>	
<b>Project Location:</b>	Reclamation – Microfiltration (MF)/Reverse Osmosis (RO)	
<b>Project Manager:</b>	Treanor	
<b>Status:</b>	Substantial Completion	
<b>Project Description:</b>	Code compliance upgrades for existing acid chemical storage and feed system used by Reclamation for enhancing RO recovery. Project includes code compliant secondary containment and separation of dissimilar chemicals.	
<b>Department:</b>	Treatment	
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent: \$386,209
	\$455,923	
<b>Financial:</b>	FY Budget:	FY Spent: \$260,741
	\$334,000	
<b>Reclamation Share:</b>	100%	
<b>Other Entities:</b>	Reclamation Project	
<b>Permits Required:</b>	Coastal Commission Notification	
<b>Challenges:</b>	Hazardous Chemical Safety	
<b>Schedule:</b>	Anticipated Completion mid 2023	
<b>Consultants:</b>	Trussell Technologies, Inc	
<b>Contractor:</b>	Monterey Peninsula Engineering	



*Photo: Exterior of Tertiary Building*

<b>Project Number:</b>	<b>22-05</b>	
<b>Project Name:</b>	<b>Reclamation MF/RO and Tertiary System 15-Year Capital Improvement Program (CIP) Master Plan</b>	
<b>Project Location:</b>	Reclamation – Microfiltration (MF)/Reverse Osmosis (RO) and Tertiary Building	
<b>Project Manager:</b>	Treanor	
<b>Status:</b>	In Progress	
<b>Project Description:</b>	Asset management condition and risk evaluations, development of projections of capital expenditures, and preliminary engineering planning	
<b>Department:</b>	Treatment	
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent: \$91,609
	\$300,000	
<b>Financial:</b>	FY Budget:	FY Spent: \$91,609
	\$300,000	
<b>Reclamation Share:</b>	100%	
<b>Other Entities:</b>	Reclamation Project	
<b>Permits Required:</b>	None	
<b>Challenges:</b>	Complexity	
<b>Schedule:</b>	Planning Process will extend into FY 23/24	
<b>Consultants:</b>	Kennedy Jenks Trussell Technologies, Inc	
<b>Contractor:</b>	N/A	

## **Collections Capital Project Summaries**



*Photo: View gravity pipe in Carmel easement*

<b>Project Number:</b> 19-03		
<b>Project Name:</b> Carmel Meadows Sewer Replacement		
<b>Project Location:</b> Collection System		
<b>Project Manager:</b> Lather		
<b>Status:</b> Permitting		
<b>Project Description:</b> The project will replace 1,300 feet of Ductile Iron Pipe (DIP) on an aerial span and eight manholes by constructing a small pump station at the end of Mariposa Drive. This project is located on an easement parallel to Ribera Road and was originally installed in the early 1960's.		
<b>Department:</b> Collections		
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent:
	\$2,471,949	\$528,750
<b>Financial:</b>	FY Budget:	FY Spent:
	\$2,000,000	\$54,390
<b>Permits Required:</b> Coastal Permit and Environmental Review		
<b>Challenges:</b> Redirecting the sewer to the pump station without requiring booster pumps for individual houses.		
<b>Schedule:</b> Design and Environmental Review completed 6/28/22. Construction to begin FY22/23.		
<b>Consultants:</b> SRT Consultants, WRA Environmental		
<b>Contractor:</b> TBD		



*Photo: Looking at Pump Station Exterior*

<b>Project Number:</b> 20-07		
<b>Project Name:</b> Bay/Scenic Pump Station Rehabilitation		
<b>Project Location:</b> Collection System		
<b>Project Manager:</b> Lather		
<b>Status:</b> In Design		
<b>Project Description:</b> Remodel the interior of the pump station and update the SCADA panel to minimize areas prone to flooding.		
<b>Department:</b> Collections		
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent:
	\$680,892	\$65,907
<b>Financial:</b>	FY Budget:	FY Spent:
	\$650,000	\$35,016
<b>Reclamation Share:</b>		0%
<b>Other Entities:</b>		Carmel-by-the-Sea, Coastal Commission
<b>Permits Required:</b>		Exemptions from CEQA & Coastal Commission
<b>Challenges:</b>		Traffic Control
<b>Schedule:</b>		Design 2021, Construct 2022, completed by 06-2023
<b>Consultants:</b>		SRT Consultant
<b>Contractor:</b>		Pending



Photo: Pipe Bursting Limits on Scenic

<b>Project Number:</b>			<b>20-08</b>		
<b>Project Name:</b>			<b>Scenic Rd Pipe Bursting - Ocean to Bay</b>		
<b>Project Location:</b>			Collection System		
<b>Project Manager:</b>			Lather		
<b>Status:</b>			In Design / CEQA		
<b>Project Description:</b>			Replace approximately 9,525 linear feet of existing 6-inch clay pipe with a new 8-inch High-Density Polyethylene (HDPE) and includes manhole rehabilitation.		
<b>Department:</b>			Collections		
<b>Financial:</b>	Cumulative Budget:		Cumulative Spent:		
	\$3,731,786		\$259,243		
<b>Financial:</b>	FY Budget:		FY Spent:		
	\$3,500,000		\$27,456		
<b>Reclamation Share:</b>			0%		
<b>Other Entities:</b>			Carmel-by-the-Sea, Coastal Commission		
<b>Permits Required:</b>			CEQA & Coastal Commission permit required.		
<b>Challenges:</b>			Traffic control & poorly mapped underground utilities. Cultural Resources at southern end of project.		
<b>Schedule:</b>			Design 2021-2022, Construct 2023, Completed 06-2023		
<b>Consultants:</b>			MNS, Rincon		
<b>Contractor:</b>			Pending		

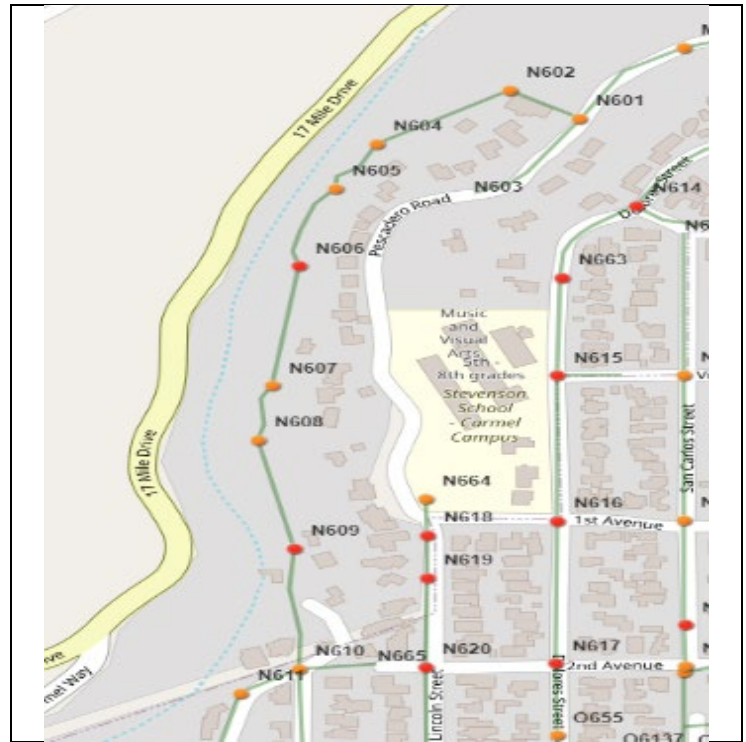


Photo: Sewer Line at Pescadero Creek

<b>Project Number:</b>			<b>21-05</b>		
<b>Project Name:</b>			<b>Pescadero Sewer Relocation</b>		
<b>Project Location:</b>			Collection System		
<b>Project Manager:</b>			Lather		
<b>Status:</b>			In Design / CEQA		
<b>Project Description:</b>			Relocate damaged pipe from creek slope to roadway		
<b>Department:</b>			Collections		
<b>Financial:</b>	Cumulative Budget:		Cumulative Spent:		
	\$1,689,236		\$179,676		
<b>Financial:</b>	FY Budget:		FY Spent:		
	\$100,000		\$90,440		
<b>Reclamation Share:</b>			0%		
<b>Other Entities:</b>			N/A		
<b>Permits Required:</b>			Environmental Review		
<b>Challenges:</b>			Narrow road, depth of manhole, houses to be placed on individual pumps		
<b>Schedule:</b>			Start design, public outreach, & Environmental in Winter 2022/2023.		
<b>Consultants:</b>			MNS, Denise Duffy, TBC Communication & Media		
<b>Contractor:</b>			TBD		

Account #	Account Name	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	Capital Projects - Public Works	10,000,000											
2	Water Treatment Plant - Capital Projects	10,000,000											
3	Water Treatment Plant - Operations												
4	Water Treatment Plant - Maintenance												
5	Water Treatment Plant - Utilities												
6	Water Treatment Plant - Other												
7	Water Treatment Plant - Total	10,000,000											
8	Water Treatment Plant - Total	10,000,000											
9	Water Treatment Plant - Total	10,000,000											
10	Water Treatment Plant - Total	10,000,000											
11	Water Treatment Plant - Total	10,000,000											
12	Water Treatment Plant - Total	10,000,000											
13	Water Treatment Plant - Total	10,000,000											
14	Water Treatment Plant - Total	10,000,000											
15	Water Treatment Plant - Total	10,000,000											
16	Water Treatment Plant - Total	10,000,000											
17	Water Treatment Plant - Total	10,000,000											
18	Water Treatment Plant - Total	10,000,000											
19	Water Treatment Plant - Total	10,000,000											
20	Water Treatment Plant - Total	10,000,000											
21	Water Treatment Plant - Total	10,000,000											
22	Water Treatment Plant - Total	10,000,000											
23	Water Treatment Plant - Total	10,000,000											
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26	Water Treatment Plant - Total	10,000,000											
27	Water Treatment Plant - Total	10,000,000											
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61	Water Treatment Plant - Total	10,000,000											
62	Water Treatment Plant - Total	10,000,000											
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99	Water Treatment Plant - Total	10,000,000											
100	Water Treatment Plant - Total	10,000,000											

Photo: LT Capital Schedule

<b>Project Number:</b>	<b>20-06</b>
<b>Project Name:</b>	<b>Collections 15 -Year CIP</b>
<b>Project Location:</b>	Collection System
<b>Project Manager:</b>	Lather
<b>Status:</b>	Work in Progress
<b>Project Description:</b>	Utilize updated sewer line inspection information and flow modeling to develop a 20-year Construction Improvement Plan
<b>Department:</b>	Collections
<b>Projection of Total Capital Costs-15-Yr \$63M</b>	Construction Costs: \$63M Administration Costs: \$10M (20% engineering, legal, admin.)
<b>Financial:</b>	Cumulative 15YR Budget: EST \$63M FY Budget: N/A
	Cumulative Spent: N/A FY Spent: N/A
<b>Reclamation Share:</b>	0%
<b>Other Entities:</b>	River Watch Agreement-see project #20-05
<b>Permits Required:</b>	none
<b>Challenges:</b>	Need all pipeline Closed Caption Television (CCTV) results to be completed to develop plan.
<b>Schedule:</b>	2020 - 2040
<b>Consultants:</b>	West Yost
<b>Contractor:</b>	N/A

### Lorca Lane Sewer Replacement

<b>Project Number:</b>	<b>22-07</b>
<b>Project Name:</b>	<b>Lorca Lane Sewer Replacement</b>
<b>Project Location:</b>	Collection System
<b>Project Manager:</b>	Lather
<b>Status:</b>	Work in Progress
<b>Project Description:</b>	Relocate 300' of 6" line and install manhole at Lorca Lane and Del Monte Street.
<b>Department:</b>	Collections
<b>Financial:</b>	Cumulative Budget: \$175,000 FY Budget: \$153,500
	Cumulative Spent: \$10,325 FY Spent: \$10,325
<b>Reclamation Share:</b>	0%
<b>Other Entities:</b>	Carmel-by-the-Sea, Coastal Commission
<b>Permits Required:</b>	None
<b>Challenges:</b>	Weather
<b>Schedule:</b>	Construct 2023
<b>Consultants:</b>	Monterey Bay Engineering
<b>Contractor:</b>	Monterey Peninsula Engineering

## **Collections Non-Capital Project Summaries**





*Photo: River Watch logo*

<b>Project Number:</b>	<b>20-05</b>	
<b>Project Name:</b>	<b>River Watch Agreement</b>	
<b>Project Location:</b>	Collection System	
<b>Project Manager:</b>	Lather	
<b>Status:</b>	Work in Progress	
<b>Project Description:</b>	Work with Collections to provide data that is needed to satisfy the milestones in the agreement with River Watch. As of May 2022, staff completed all of the 1,478 District manholes for the Fiscal Year (FY).	
<b>Department:</b>	Collections	
<b>Financial:</b>	Cumulative Budget: N/A	Cumulative Spent: N/A
	FY Budget: N/A	FY Spent: N/A
<b>Reclamation Share:</b>	0%	
<b>Other Entities:</b>	River Watch	
<b>Permits Required:</b>	none	
<b>Challenges:</b>	Closed caption television (CCTV) scheduling deadlines. The Board agreed to increase staffing by one full-time equivalent (FTE) to assist in meeting the required schedule. Received 1 yr. extension from River Watch due to COVID-19.	
<b>Schedule:</b>	Due date June 2023	
<b>Consultants:</b>		
<b>Contractor:</b>	N/A	

## **Assessment Districts/Annexations**

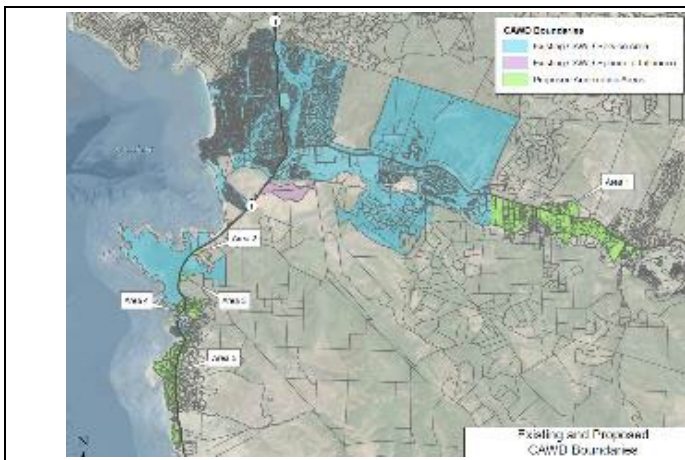


Photo: Areas of Potential Annexation

<b>Project Number:</b>	<b>18-21</b>	
<b>Project Name:</b>	<b>Corona Road Sewer Assessment District</b>	
<b>Project Location:</b>		
<b>Project Manager:</b>	Lather	
<b>Status:</b>	In design phase by Assessment Engineer. The application has been made for the Septic to Sewer grant. Also organizing efforts for Special Assessment District.	
<b>Project Description:</b>	The project will provide sewer facilities to the Corona Road neighborhood and parcels on the west side of Highway 1, across from Corona Road. #18-21 Corona Road (Deferred Revenue**)	
<b>Department:</b>	Collections	
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent:
	\$0	\$0
<b>Financial:</b>	FY Budget:	FY Spent:
	\$0	\$0
** No Budget included for project because the initial costs were funded by Corona Road residents. District has agreed to fund a portion of environmental work \$56,200 (Res #22-62). State Revolving Fund confirmed funding if April 1 <sup>st</sup> deadline is met.		
<b>Permits Required:</b>	Coastal Permit, CalTrans Encroachment permit, Environmental Review	
<b>Challenges:</b>	Assessment District process/approval and obtaining easements for pump station. Funds from homeowners in the amount of \$67K have been received by CAWD.	
<b>Schedule:</b>	Complete studies July/August 2022, Assessment District proceeding along with Septic to Sewer Grant Funding	
<b>Consultant:</b>	Denise Duffy & Associates and Monterey Bay Engineers	

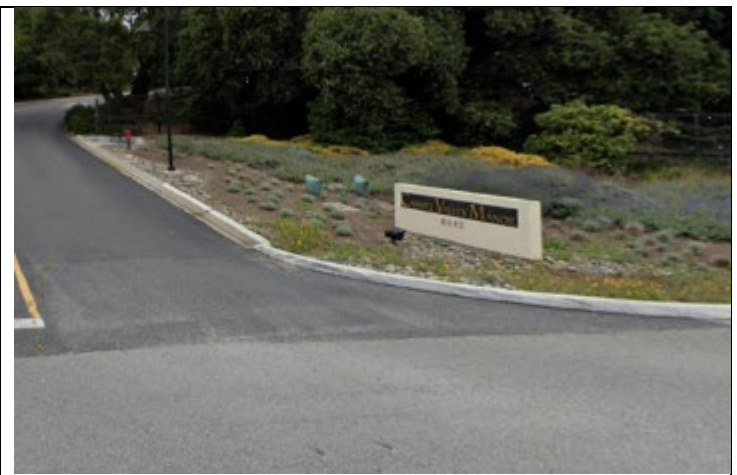


Photo: Entrance to Carmel Valley Manor

<b>Project Number:</b>	<b>19-08</b>	
<b>Project Name:</b>	<b>Carmel Valley Manor Pipeline and Pump Station</b>	
<b>Project Location:</b>	Collection System	
<b>Project Manager:</b>	Lather	
<b>Status:</b>	In Construction	
<b>Project Description:</b>	Sewer extension project to be completed by the owners of Carmel Valley Manor to connect to CAWD's sewer system. Riley Ranch, #19-08 Carmel Valley Manor (Deferred Revenue)	
<b>Department:</b>	Collections	
<b>Financial: this is an unbudgeted item-under repayment agreement (no funds received)-</b>	Cumulative Budget:	Cumulative Spent:
	\$0	\$180
<b>Financial:</b>	FY Budget:	FY Spent:
	\$0	\$180
<b>Other Entities:</b>	The prospect of a pipeline has given rise to a plethora of potential additional connections	
<b>Permits Required:</b>	County Encroachment Permit, Environmental Review completed.	
<b>Challenges:</b>	Funding, Repayment Agreement, easement agreements LAFCO annexation	
<b>Schedule:</b>	Approved without protest at 3/22/21 LAFCO hearing.	
<b>Consultants:</b>	MNS and Rincon are working for Carmel Valley Manor to permit and design the project.	
<b>Contractor:</b>	N/A	

## **Other Non-Capital Project Summaries**



## ADP Workforce Now

*Photo: ADP Clip Art*

<b>Project Number:</b>	N/A	
<b>Project Name:</b>	Workforce Now	
<b>Project Location:</b>	All Supervisor Locations	
<b>Project Manager:</b>	Foley	
<b>Status:</b>	Implementation	
<b>Project Description:</b>	Implementation of a comprehensive Human Resource (HR) software database for all supervisors and employees to utilize. Modules provide employee development tracking, benefits administration, custom performance review templates, and employee goal management.	
<b>Department:</b>	Administration	
<b>Financial:</b>	Cumulative Budget: \$0	Cumulative Spent: \$2,520 (annual fee)
	FY Budget: \$0	FY Spent: \$2,520 (annual fee)
<b>Challenges:</b>	Technical issues need to be resolved & employee training. Implementation of advanced features for employee development and learning management.	
<b>Schedule:</b>	Anticipate implementation in April 2023. HCM Unlocked Consultant hired for specialized implementation services	
<b>Consultants:</b>	ADP	



*Photo: Real Estate Clip Art*

<b>Project Number:</b>	N/A	
<b>Project Name:</b>	Real Property Investigation	
<b>Project Location:</b>	Carmel Valley	
<b>Project Manager:</b>	Barbara Buikema	
<b>Status:</b>	Evaluation in Progress	
<b>Project Description:</b>	An investigation of a possible new treatment facility site in the mouth of the Carmel Valley, which is in response to the Coastal Commission requirement to move facilities within 30 years.	
<b>Department:</b>	Administration	
<b>Financial:</b>	Cumulative Budget: \$75,000	Cumulative Spent: \$0
	FY Budget: \$75,000	FY Spent: \$0
<b>Permits Required:</b>	None – at this time	
<b>Challenges:</b>	Limited land possibilities, regulatory hurdles, and zoning	
<b>Schedule:</b>	open ended	
<b>Consultants:</b>	Mahoney & Associates	



Photo: Cyber Security Clip Art

<b>Project Number:</b>	N/A	
<b>Project Name:</b>	Cyber Security	
<b>Project Location:</b>	District-wide	
<b>Project Manager:</b>	Chris Foley	
<b>Status:</b>	Ongoing	
<b>Project Description:</b>	Internal Cyber Security Incident Response Team (CSIRT) formed, and they are working on a response plan & training. The upgrades to email filtering system have been completed. Stricter geofencing policies have been put in place, and a cold backup system that is sandboxed from the network were installed March 2022.	
<b>Department:</b>	All	
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent:
	\$17,000	\$0
<b>Financial:</b>	FY Budget:	FY Spent:
	\$17,000	\$0
<b>Challenges:</b>	Ongoing training & the need for continual upgrades as skills of hackers grow.	
<b>Schedule:</b>	Continually updating	
<b>Consultant:</b>	Exceedio	



Photo: Six Sigma Clip Art

<b>Project Number:</b>	N/A	
<b>Project Name:</b>	Source Control Six Sigma	
<b>Project Location:</b>	Management staff	
<b>Project Manager:</b>	Barbara Buikema	
<b>Status:</b>	Board Presentation	
<b>Project Description:</b>	A Six Sigma project to improve source control activities by focusing majority of inspection and compliance efforts on restaurants determined to be likely causes of grease in District lines.	
<b>Department:</b>	Administration	
<b>Financial:</b>	Cumulative Budget:	Cumulative Spent:
	\$0	\$2,000
<b>Financial:</b>	FY Budget:	FY Spent:
	\$0	\$0
<b>Permits Required:</b>	None	
<b>Challenges:</b>	Implementation phase	
<b>Schedule:</b>	Ongoing	
<b>Consultants:</b>	Self-study online	



*Photo: California coastline*

<b>Project Number:</b>	<b>22-01</b>	
<b>Project Name:</b>	<b>Long-Term Sea Level Rise Planning</b>	
<b>Project Location:</b>	Treatment Plant	
<b>Project Manager:</b>	Barbara Buikema/Patrick Treanor	
<b>Status:</b>	In Progress	
<b>Project Description:</b>	As conditions of Coastal Permit #3-82-199-A8 - the District submitted its Long-Term Coastal Hazards Plan on 03-03-22. Board approved a Wastewater Treatment Plant Alternatives Planning Assistance on Sea Level Rise consultant services contract in May 2022.	
<b>Department:</b>	Administration	
<b>Financial:</b>	Cumulative Budget: \$1,400,00	Cumulative Spent: \$219,862
	FY Budget: \$260,000	FY Spent: \$219,862
<b>Permits Required:</b>	In response to California Coastal Commission	
<b>Challenges:</b>	Establishing focus on long term objectives and committing to follow through items.	
<b>Schedule:</b>	WWTP Relocation Planning Alternatives on Sea Level Rise presented in May 2022	
<b>Consultants:</b>	Greeley & Hansen	

# STAFF REPORT

To: Board of Directors  
From: Ed Waggoner, Operations Superintendent  
Date: April 27, 2023  
Subject: Monthly Operations Reports – March 2023



## RECOMMENDATION

Receive Report- Informational only; no action required.

## DISCUSSION

### Plant Operation

#### Treatment Plant:

- The treatment plant operations staff has continued finishing projects and concentrating on Preventative Maintenance Work Orders during the month of March.
- March 3, Synagro 3 Year Biosolids Hauling Contract signed by District General Manager.
- March 10 through March 11, the treatment plant experienced a major power failure along with heavy wind and rain requiring operations staff to operate on a 24-hour shift scheduled to maintain plant equipment and permit compliance.
- March 14, the treatment plant experienced a second major power failure and operational personnel were scheduled accordingly to maintain plant equipment and permit compliance during this second power outage.
- Northstar Chemical site visit on March 24 for safety qualification inspection to confirm tanks, pumping, and safety equipment for the Sulfuric Acid and Citric Acid project.
- Neo Water Materials, vendor representative Greg Page, visited staff concerning new alternative coagulants for the sand filter system.

#### Reclamation:

- The Reclamation Facility shut down on January 23 due to Forest Lake Reservoir at capacity of 115 million gallons.
- Staff continued preventative maintenance work on pumps, motors, and any equipment that needs maintenance for the Microfiltration (MF) and Reverse Osmosis Systems (ROS).
- Staff completed Clean-in-Place (CIP) cleans on Microfiltration (MF) Cells 1, 2, and 3. The cells cleaned successfully with Trans Membrane Pressures (TMPs) pressures ranging between 1.8 to 5.5 pounds per square inch (psi).
- (Project #21-09) Programmable Logic Controller/Supervisory Control and Data Acquisition (PLC/SCADA). Operations staff continues working with Maintenance and Frisch Engineering on the upgrades and programming of the PLC/SCADA System.



### **Training:**

- Staff participated in scheduled tailgate safety meetings in the digester building conference room.
- March 23 & 30, the Operations Superintendent, Operations Supervisor, and Laboratory Supervisor attended a virtual class on Maximizing Supervisory Skills for First Line Supervisors, sponsored by Liebert, Cassidy, and Whitmore.
- March 29, Operations and Maintenance staff received initial training of the Sulfuric Acid & Citric Acid dosing project by Patrick Treanor Plant Engineer.

### **Capital Improvement:**

- Staff continues working with Plant Engineer, Patrick Treanor, on Project #18-01, the Electrical/Mechanical Rehabilitation and Sludge Holding Tank Replacement Project for the following areas: Influent Pump Station, Headworks, Blower Building, Chlorination/Dechlorination Building, Effluent Building, Digester No. 1, Digester No. 1 Control Building and Dewatering Building.

### **Meetings Attended**

- March 2, Operations Superintendent attended Teams meeting with Central Coast Water Reuse Chapter.
- March 9, Operations Superintendent attended a Zoom meeting with the Water Awareness Committee of Monterey County.
- March 10, Operations Superintendent attended a Teams meeting with Clark Bros, Inc. to discuss requirements for the installation of the electrical trip units for the main feeders to the influent pump station, headworks, and effluent pump station, duration of full plant power outage and other expectations for Friday March 17.
- March 22 in house staff Safety Committee Meeting to plan new safety training programs for the remainder of 2023.
- March 23, Operations Superintendent attended a Teams meeting with Clark Bros, Inc. to discuss requirements for the Effluent pump station bypass pumping system.
- (Project #18-01) Weekly Teams Meeting on the construction progress of the Electrical/Mechanical Rehabilitation and Sludge Holding Tank Replacement Project for the following areas: Influent Pump Station, Headworks, Blower Building, Chlorination/Dechlorination Building, Effluent Building, Digester No. 1, Digester No. 1 Control Building and Dewatering Building.

### **Discharge Permit Violations**

- There were no violations of Reclamation Permit 93-72 for the month of February 2023.
- There were no violations of the National Pollutant Discharge Elimination System (NPDES) Number CA0047996, Order No. R3-2014-0012 within the month of February 2023.
- Submitted the Comprehensive Study of Effects from the Carmel Area Wastewater District Discharge on Carmel Bay Area of Special Biological Significance on March 30 to the Central Coast Regional Water Quality Control Board. Staff posted the report on CAWD Website.

### **Attachment:**

Comprehensive Study of Effects from the Carmel Area Wastewater District Discharge on Carmel Bay Area of Special Biological Significance

## Final Report

# Comprehensive Study of Effects from the Carmel Area Wastewater District Discharge on Carmel Bay Area of Special Biological Significance

March 30, 2023



**Submitted to:**

Ed Waggoner

Carmel Area Wastewater District

P.O Box 221428 3945 Rio Road

Carmel, CA 93922

**Submitted by:**

Applied Marine Sciences

Santa Cruz, California



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# Comprehensive Study of Effects from the Carmel Area Wastewater District Discharge on Carmel Bay Area of Special Biological Significance

## 1. Background

State Water Board resolution 84-78 permitted the Carmel Area Wastewater District (CAWD) to discharge municipal wastewater into the Carmel Bay Area of Special Biological Significance (ASBS), providing that certain requirements are met. This resolution specified that a comprehensive study must be performed every 10 years to determine whether changes to the ASBS are occurring because of the discharge. Such a comprehensive study was last completed June 1, 2013. The requirement for a comprehensive study is reiterated in Order R3-2014-0012, NPDES Number CA0047996. This order requires that the results of the Comprehensive Study be submitted by March 31st, 2023. This report is submitted in partial satisfaction of Order R3-2014-0012, NPDES Number CA0047996.

CAWD discharges highly treated municipal wastewater into Carmel Bay through a multiport diffuser at a depth of approximately 40 feet. For the five most recent calendar years from 2018 through 2022, the total annual volume discharged has ranged from 39 – 356 million gallons. The composition of the effluent changes seasonally in response to water requirements of the Pebble Beach Community Services District (PBCSD). PBCSD accepts a mix of treated wastewater and potable water produced by treatment of the wastewater with denitrification, as well as a microfiltration/reverse osmosis (MF/RO) plant located at the CAWD treatment facility. When all of the available potable water and CAWD effluent are being accepted by PBCSD, only the concentrate from the MF/RO facility is discharged to the ocean. Consequently, discharge volume can range from >1 million gallons per day (MGD), when all effluent is being discharged, to <0.13 MGD, when the MF/RO facility is treating all available wastewater.

The previous Comprehensive Study was completed in 2013. The study focused on spatial and temporal differences in persistent organic pollutants (POPs) and Fecal Indicator Bacteria (FIB) concentrations in the CAWD effluent discharge and Carmel Bay. The analysis used data from additional sources of water quality data to evaluate discharges into Carmel Bay. The current comprehensive study puts a strong emphasis on trends, using POP concentrations in resident mussels and fecal indicator bacteria at Carmel Bay compared with effluent data sources to evaluate whether changes in beneficial uses have occurred and whether changes have been associated with the CAWD discharge. POPs analyzed in this study are those that are consistently detected in central California ocean samples and for which Monterey Bay was recently recommended for placement on the 303d list; Chlordanes, Dieldrin, DDTs, and PCBs.

## 2. Data Sources

Several valuable sources of data were used to inform an evaluation of Beneficial Uses in the Carmel Bay ASBS, and the potential effects of CAWD discharge on the Beneficial Uses. These datasets are summarized in Table 1, and included the following:

Beneficial Uses:

1. **Shellfish Harvesting and Marine Habitat.** The status of these beneficial uses are demonstrated by concentrations of POPs in mussels adjacent to Carmel River Beach collected and analyzed by CCLEAN and their changes over time and exceedance of human health alert levels.
2. **Water Contact Recreation.** The status of this beneficial use is demonstrated by monthly measurements of fecal indicator bacteria (FIB) by the Monterey County Department of Health at Carmel Bay and exceedances of water-contact recreation water quality objectives and shellfish harvesting.
3. **Marine Habitat.** Another indicator of the condition of this beneficial use is the incidence of harmful algal blooms.

Potential Effects of CAWD Effluent on Beneficial Uses:

1. Wet- and dry-season concentrations and loads of POPs measured by CCLEAN in CAWD effluent.
2. Concentrations and loads of nutrients and bacteria measured monthly in effluent by CAWD.

Searches of scientific literature and region news outlets were search for information on harmful algal blooms in Carmel Bay and none were found. Despite the lack of documented harmful algal blooms, CAWD nutrient discharges were examined, as described in the next section.

**Table 1. Data Sources**

Data	POPs	FIBs	Nutrients	Source	Time Frame	Frequency
<b>Carmel River Beach Mussel Tissue</b>	X			CCLEAN	2013-2022	Once per year in the wet season
<b>Carmel Bay @ Ocean Avenue</b>		X		Monterey County Department of Health	2013-2022	Monthly (Wet and Dry season averages)
<b>CAWD Effluent</b>	X			CCLEAN	2013-2022	Two times per year (Wet and Dry Seasons)
<b>CAWD Effluent</b>		X	X	CAWD	2013-2022	Monthly (seasonally averaged)

### 3. Methods

Monitoring datasets were analyzed to address five priority questions that framed the assessment of effects on Beneficial Uses in the ASBS. The priority questions were:

**1. Has the CAWD discharge exceeded permit limitations over the past 10 years?**

This question is answered by comparing CAWD’s effluent data against limits in their NPDES permit (Table 2, Table 3, and Table 4). Any temporal trends in exceedances or propensities of certain chemicals to approach or exceed permit limits are discussed.

**Table 2. CAWD NPDES Effluent Limitations for POPs**

Indicator	30-day Average	
	Concentration	Load
Chlordane	0.0028 µg/L	0.00007 lbs/day
DDT (total)	0.021 µg/L	0.00052 lbs/day
Dieldrin	0.0049 µg/L	0.00012 lbs/day
PCBs	0.0023 µg/L	0.000058 lbs/day

**Table 3. CAWD NPDES Effluent Limitations for Ammonia**

Indicator	6-Month Median	Daily Maximum	Instantaneous Maximum
Ammonia concentration	73,000 µg/L	290,000 µg/L	730,000 µg/L
Ammonia load	1,800 lbs/day	7,300 lbs/day	18,000 lbs/day

**Table 4. CAWD NPDES Effluent Limitations for Fecal Indicator Bacteria**

Indicator	Monthly Average	Single Sample Maximum
Total Coliform	230 per 100 mL	10,000 per 100 mL
Fecal Coliform *	24,000 per 100 mL	49,000 per 100mL
Enterococci *	4,300 per 100 mL	13,000 per 100 mL

\* Only applicable to data since July 11, 2014 (Order R3-2014-0012, NPDES Number CA0047996)

**2. Have the concentrations or loads of contaminants in the CAWD discharge increased over time?**

This question is answered by examining data for total effluent volume, contaminant concentrations, and contaminant loads in the CAWD discharge for statistically significant changes over time. Effluent

concentration data were tested with stepwise regressions to examine whether any changes over time were due to the passage of time i.e., (date) or flow volume (MGD). In this analysis, all tested variables are considered at once with the least significant variable removed sequentially until all insignificant variables are removed. This approach was necessary because changes in concentrations over time (e.g., Figure 1) could potentially be due to increased reclamation efforts that remove water from the effluent discharge, while maintaining a consistent contaminant load. Load data were plotted versus time, and regression slopes of the resulting trendlines were tested to reveal whether they were significantly different from zero at a probability of <0.05. Answering Question 2 reveals whether any contaminants are trending upward and/or nearing levels of concern.

**3. Have contaminant concentrations in water and mussels in the ASBS exceeded The California Ocean Plan or Human Health Alert Levels?**

This question is answered by comparison of the CCLEAN data for mussels and water samples from within and nearby the Carmel Bay ASBS to water quality objectives in the California Ocean Plan (Table 5 and Table 6) and OEHHA Human Health Alert Levels for fish and shellfish consumption (Table 7). This information informs whether any recurring water quality exceedances have occurred.

**Table 5. California Ocean Plan Water Quality Objectives for Ammonia**

Indicator	6-Month Median	Daily Maximum	Instantaneous Maximum
<b>Ammonia</b>	600 µg/L	2400 µg/L	6000 µg/L

**Table 6. California Ocean Plan Water Quality Objectives for Fecal Indicator Bacteria**

Indicator	Median	Geometric Mean	Single Sample Maximum
<b>Fecal Coliform REC-1 Water Quality Objective for Water Contact in Ocean Waters</b>	--	200 per 100 mL	400 per 100mL
<b>Enterococci REC-1 Water Quality Objective for Water Contact in Ocean Waters</b>	--	30 per 100 mL	110 per 100 mL
<b>Total Coliform Shellfish Harvesting Standard</b>	70 per 100 mL	--	230* per 100 mL

\* > 10% of samples

**Table 7. OEHHA Human Health Advisory Tissue Levels for Fish/Shellfish Consumption**

Indicator	Daily Consumption (7 meals per week)	No Consumption (0 meals per week)
Chlordane	80 ng/g	560 ng/g
DDT (total)	220 ng/g	2100 ng/g
Dieldrin	7 ng/g	46 ng/g
PCBs	9 ng/g	120 ng/g

**4. Have concentrations of contaminants in mussels or fecal indicator bacteria in water in the ASBS increased over time?**

This question is answered by examining CCLEAN data on contaminant concentrations in mussels from Carmel River Beach and the Monterey County Public Health data on fecal indicator bacteria from Carmel Bay, for statistically significant changes over time. Mussels tissue concentration data were plotted versus time, and regression slopes tested for statistical differences from zero at  $p < 0.05$ . A similar approach was taken for data on FIBs. Answering Question 4 informs whether any contaminants or FIBs in the ASBS are trending upward and/or nearing levels of concern.

**5. Are concentrations of contaminants or fecal indicator bacteria in water or shellfish in the ASBS associated with discharges from CAWD?**

This question is answered by evaluating associations between a) contaminant loads in the CAWD discharge and contaminant concentrations in mussels from Carmel River Beach; and b) fecal indicator bacteria in the CAWD discharge and fecal indicator bacteria from Carmel Bay. Correlations between the CAWD discharge and concentrations focused on observations that exceeded human health alert levels or the California Ocean Plan.

**Assessment Approach**

To perform the Comprehensive Study, data and reported results were organized around the five questions presented above. The assessment evaluated the supporting evidence to determine whether changes have occurred in the ASBS over time, and the statistical probability that those changes are associated to the quality and quantity of discharged CAWD wastewater effluent. A positive finding for any question is further highlighted in the Conclusions section, and considerations for follow-on evaluations to aid future comprehensive reports is presented in the Recommendations. One caveat to the current assessment is that while it was also of interest to examine the potential influences of the Carmel River discharges in the ASBS, monitoring of the Carmel River by the CCLEAN



Program ceased in 2007. Therefore, it is currently not possible to assess current conditions or trends in POPs entering the ASBS from the Carmel River over time.

## 4. Results

### 1. Has the CAWD discharge exceeded permit limitations over the past 10 years?

Persistent Organic Pollutants (Chlordanes, DDTs, Dieldrin, and PCBs) measured in the CAWD discharge have consistently been below NPDES effluent limitations between 2013-2022. None of the Chlordane, Dieldrin, or DDT concentrations (Figure 1) or loads (Figure 2) had any exceedances during this period. Two occurrences of a 30-day average concentration above the PCBs effluent limit (0.0023 µg/L) occurred in October 2017 and October 2020 (both dry season), which measured 27% and 4% above the effluent limit, respectively. Neither occurrence was associated with a corresponding exceedance of the effluent load limit, however. This may largely be attributable to the relatively low CAWD discharge that occurred during the dry seasons of 2017-2021 (Figure 3). Figure 2. 30-day Average Load of Chlordanes, DDTs, Dieldrin, and PCBs measured in CAWD wastewater, 2013-2022. Load was estimated from the 30-day composite sampling and flow measurements conducted by the CCLEAN Program.

Figure 3. 30-day Average CAWD Discharge, 2013-2022. Flow measured during 30-day composite sampling conducted by the CCLEAN Program.

Figure 4. Monthly Ammonia (NH<sub>3</sub>) concentration (mg/L, left axis) and load (lbs/day, right axis) measured in CAWD wastewater, 2013-2022. Load was estimated from the monthly grab samples collected by CAWD in partial fulfillment of its NPDES permit monitoring requirements.

Figure 5. Rolling six-month median of Ammonia (NH<sub>3</sub>) concentration (mg/L, left axis) and load (lbs/day, right axis) measured in CAWD wastewater, 2013-2022. Load was estimated from the monthly grab samples collected by CAWD in partial fulfillment of its NPDES permit monitoring requirements.

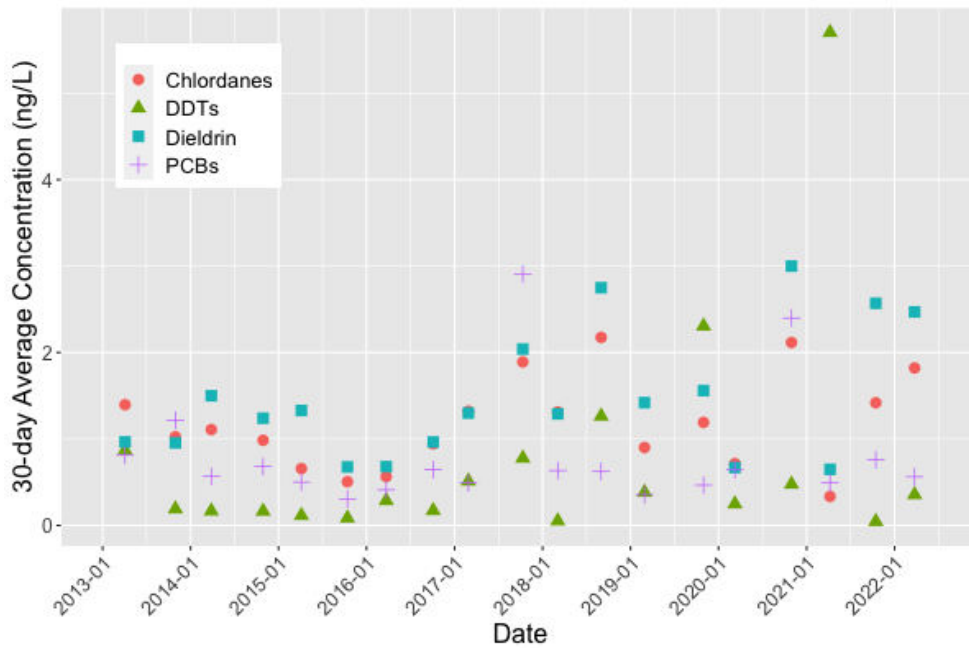
).

Nutrient concentrations (ammonia, nitrate, and organophosphate) measured in the CAWD discharge have also largely been well below NPDES effluent limitations between 2013-2022. The highest ammonia concentrations occurred between June and August 2018 (Figure 4), which corresponded to a range of 136-174 mg/L that was approximately 40% below the daily ammonia effluent limit (290,000 µg/L or 290 mg/L; Table 3). Similarly, ammonia load peaked in April 2018 (334 lbs/day) that was more than an order of magnitude below the daily effluent limit (7,300 lbs/day). On the other hand, the six-month median concentration of ammonia was exceeded (Figure 5). The six-month median of ammonia concentration exceeded the effluent limitation during a four-month period between August and November 2018 (4 occurrences total). Two of those occurrences were concomitant with relatively high ammonia load (both 191 lbs/day), but well below the effluent load

limit (1,800 lbs/day).

Finally, Fecal Indicator Bacteria (FIBs; total coliforms, fecal coliforms, and *Enterococcus*) measured in the CAWD discharge rarely exceeded permit limits. Total coliforms exceeded the monthly average effluent limit of 230 MPN/100ML once, in August 2018 (Figure 6). None of the monthly average concentrations of fecal coliform or *Enterococcus* had any exceedances during this period. In terms of instantaneous single sample maxima, total coliforms exhibited four samples above the effluent limit, which all occurred during a two-week period in late-August 2018 (Figure 7). In comparison, the instantaneous fecal coliform and *Enterococcus* concentrations were never close to the effluent limit, with maximum concentrations of 127 MPN/100mL and 93 MPN/100mL, respectively.

In summary, between 2013 and 2022, CAWD discharge exceeded NPDES effluent limitations for PCB concentrations twice (2017 and 2020 dry-season), for ammonia concentration four times (August through September 2018), and for total coliforms once for the monthly average (August 2018), and four times for the single sample maximum (8/13 – 8/26, 2018).



**Figure 1. 30-day Average Concentration of Chlordanes, DDTs, Dieldrin, and PCBs measured in CAWD wastewater, 2013-2022. Concentration was measured by the 30-day composite sampling conducted by the CCLEAN Program.**

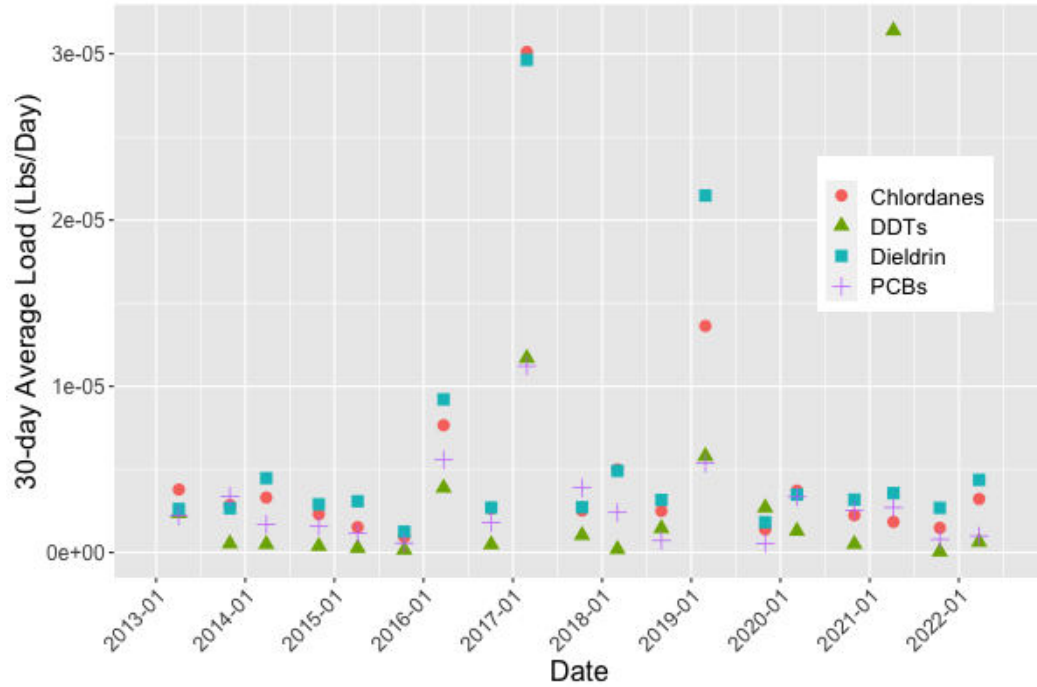


Figure 2. 30-day Average Load of Chlordanes, DDTs, Dieldrin, and PCBs measured in CAWD wastewater, 2013-2022. Load was estimated from the 30-day composite sampling and flow measurements conducted by the CCLEAN Program.

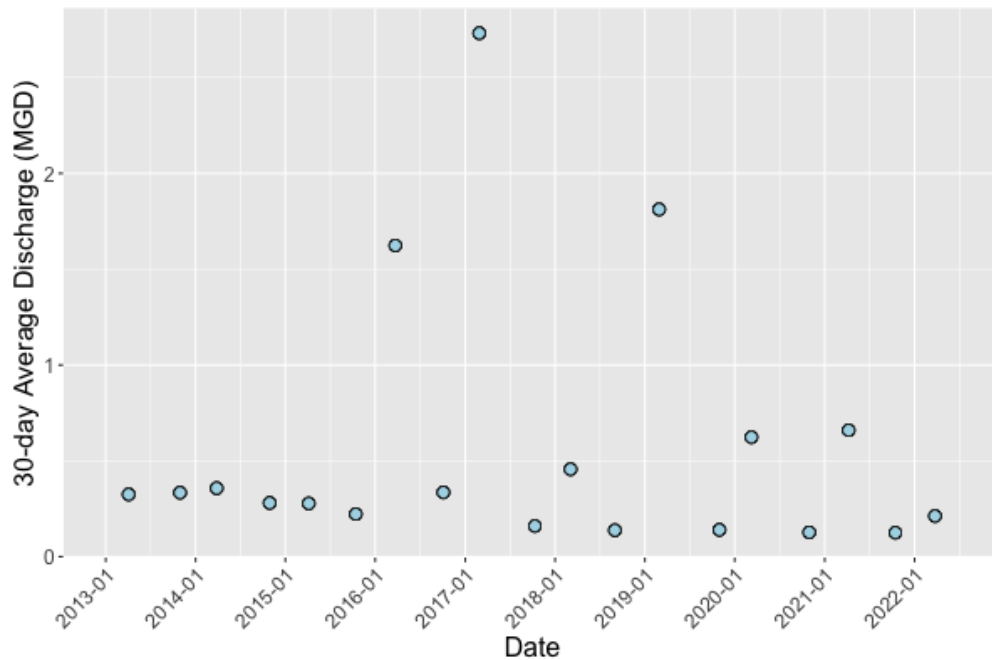


Figure 3. 30-day Average CAWD Discharge, 2013-2022. Flow measured during 30-day composite sampling conducted by the CCLEAN Program.

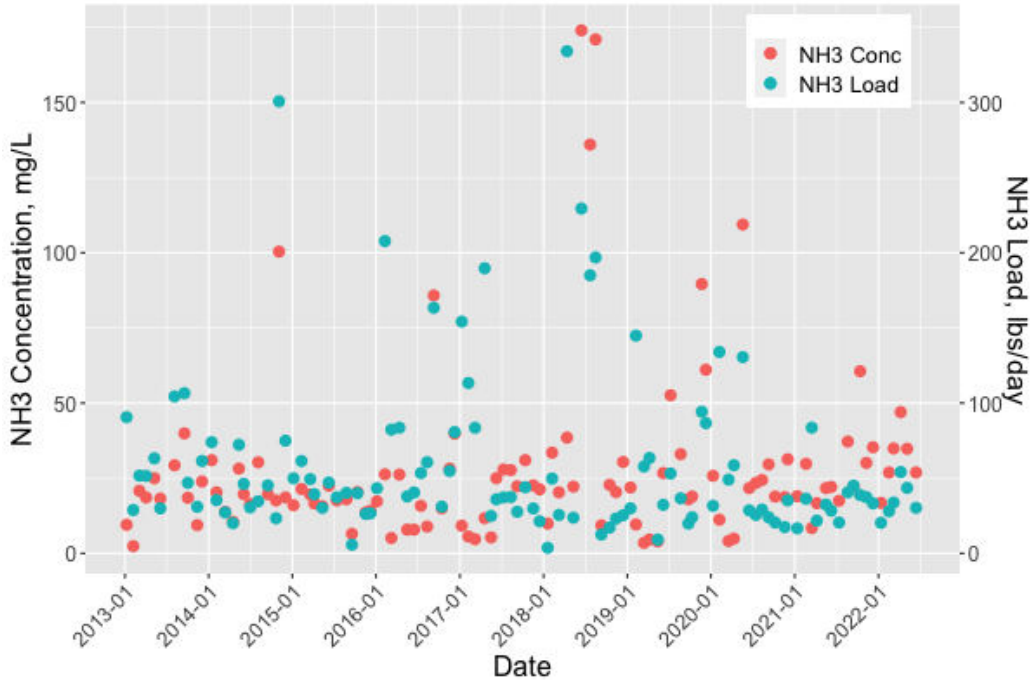


Figure 4. Monthly Ammonia (NH3) concentration (mg/L, left axis) and load (lbs/day, right axis) measured in CAWD wastewater, 2013-2022. Load was estimated from the monthly grab samples collected by CAWD in partial fulfillment of its NPDES permit monitoring requirements.

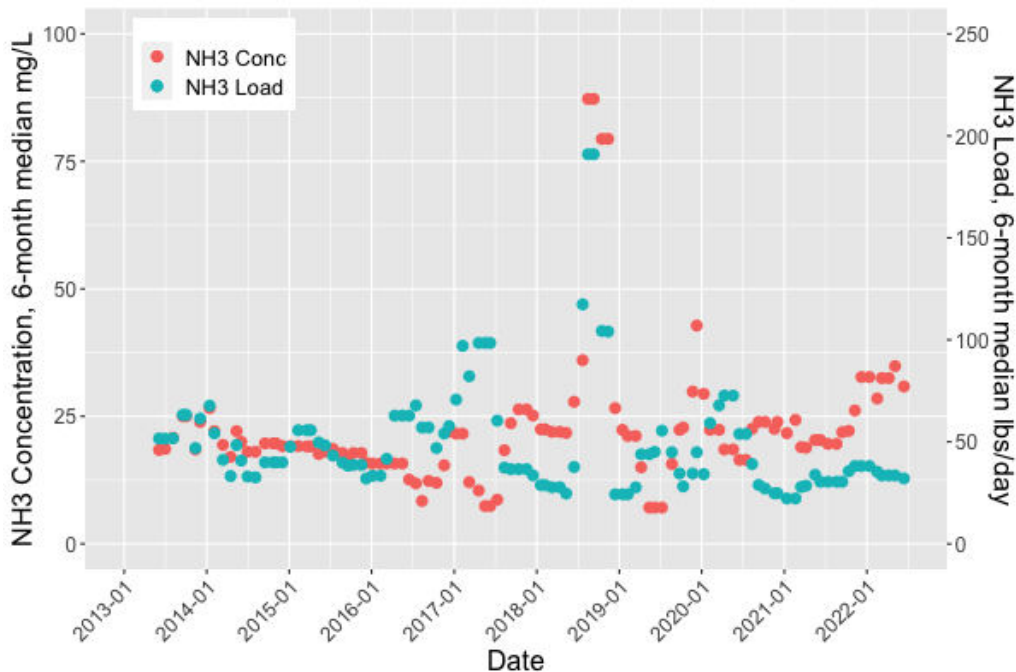


Figure 5. Rolling six-month median of Ammonia (NH3) concentration (mg/L, left axis) and load (lbs/day, right axis) measured in CAWD wastewater, 2013-2022. Load was estimated from the monthly grab samples collected by CAWD in partial fulfillment of its NPDES permit monitoring requirements.

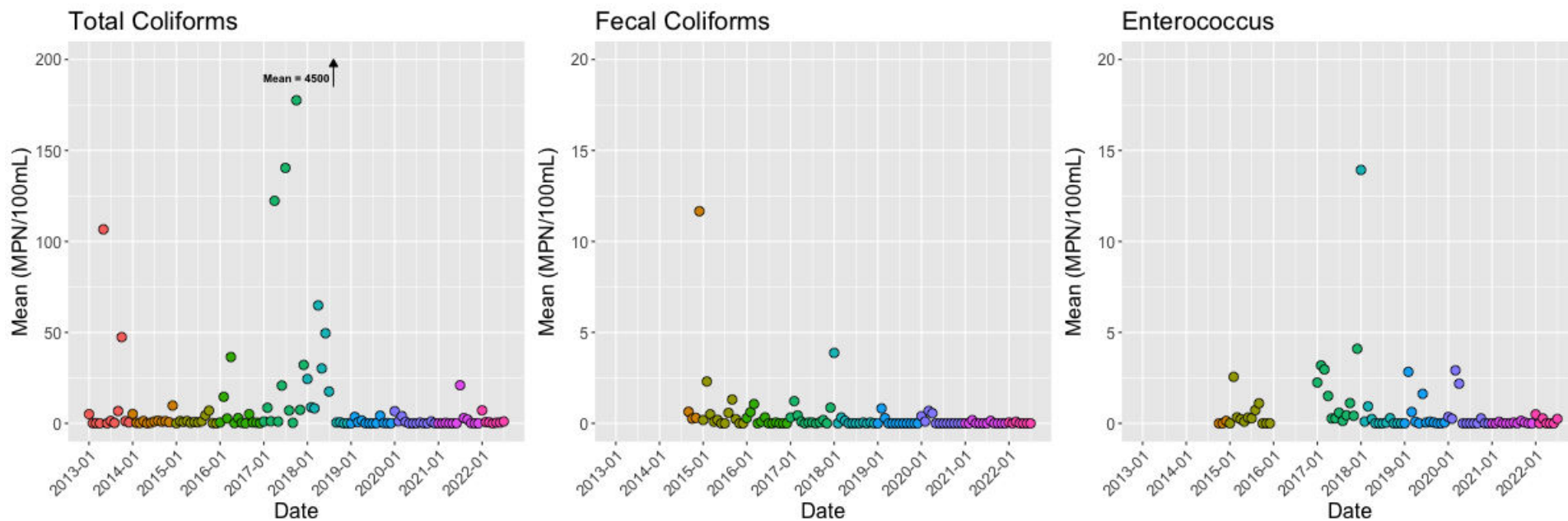


Figure 6. Monthly means for Fecal Indicator Bacteria (FIB) measured in CAWD wastewater, 2013-2022. Means were calculated from weekly grab samples collected by CAWD in partial fulfillment of its NPDES permit monitoring requirements. The maximum monthly mean for total coliforms was 4500 MPN/100 mL in 2018-08.

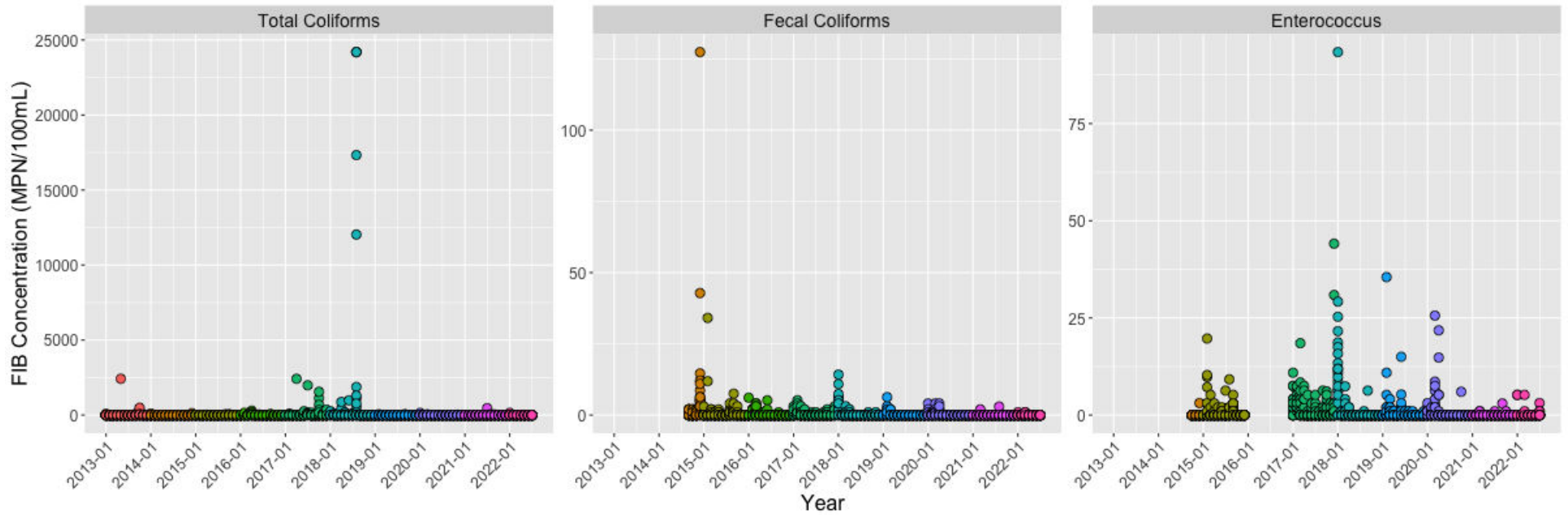


Figure 7. Concentrations of FIBs measured in CAWD wastewater effluent, 2013-2022.



**2. Have the concentrations or loads of contaminants in the CAWD discharge increased over time?**

Step-wise regressions of POP concentrations in CAWD effluent versus date and discharge volume found that Chlordanes, DDTs, and PCBs did not change with time or discharge volume (Table 8). Concentration of Dieldrin did, however, increase over time and was not affected by discharge volume. Trends in loads of DDTs and dieldrin trended upward over time, whereas loads of Chlordanes and PCBs trended downward over time, although none of the load trendlines was significantly different from zero (Table 9).

**Table 8. Results of step-wise regressions to determine whether POP concentrations (ng/L) from CAWD have been significantly affected over the past 10 years by time or wastewater volume discharged.**

POP	Model	F Ratio	Adj. R <sup>2</sup>	Probability
<b>Chlordanes</b>	Not Significant			
<b>DDTs</b>	Not Significant			
<b>Dieldrin</b>	Dieldrin = -11.54 + 3.63e-9 Date	4.987	0.1734	0.0385*
<b>PCBs</b>	Not Significant			

\* p<0.05

**Table 9. Results of regressions to determine whether POP loads (Lbs/day) from CAWD have significantly changed over the past 10 years.**

POP	Model	F Ratio	Adj. R <sup>2</sup>	Probability
<b>Chlordanes</b>	Load/day = 0.00002 – 3.3e-15 Date	0.0311	-0.0569	0.8622
<b>DDTs</b>	Load/day = 0.00008 + 2.3e-14 Date	1.4373	0.0237	0.2470
<b>Dieldrin</b>	Load/day = -9.64e-7 + 1e-15 Date	0.0123	-0.0581	0.9132
<b>PCBs</b>	Load/day = 0.00001 – 2.5e-15 Date	0.1279	-0.0509	0.7251

As discussed in Question 2 on page 5, high variability in constituent concentrations through time can lead to confusing impressions of the effects of date. Contrary to the apparent general increases in nitrate and orthophosphate concentrations through time (Figure 8), step-wise regressions of nutrient concentrations in CAWD effluent found that nitrate and orthophosphate had a significant negative relationships with discharge volume, which means their concentrations were higher with lower discharge volumes, with no effect of date (Table 10), which suggested higher concentrations could be associated with increased water reclamation efforts. Nitrate also had significantly higher concentrations with lower discharge volumes and its concentrations have significantly increased with date, independent of discharge volume. Urea was also affected by date and discharge volume, as seen for nitrate. Concentrations of ammonia increased with decreased discharge volumes, independent of date. Total nitrogen did not change with either date or discharge volume.

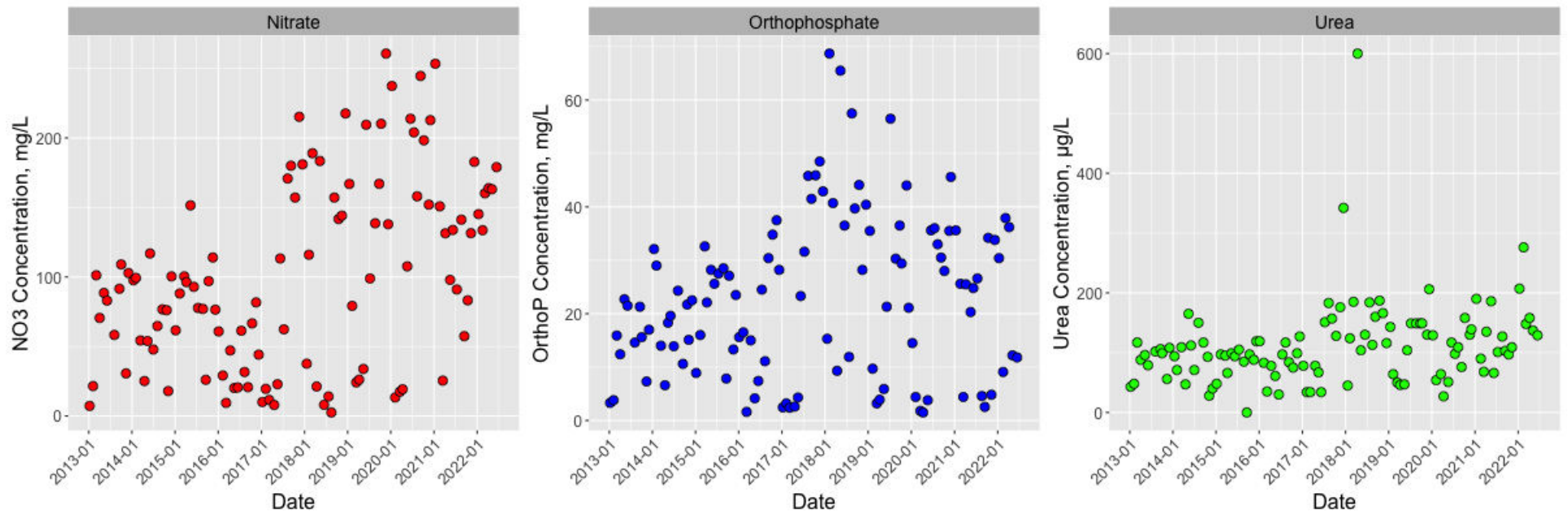


Figure 8. Monthly Nitrate (NO<sub>3</sub>, mg/L, left), Orthophosphate (mg/L, center), and urea concentration (µg/L, right) measured in CAWD wastewater, 2013-2022.

Orthophosphate was the only nutrient to exhibit a significant change in loads, which decreased over time, whereas decreases in ammonia loads were marginally non-significant (Table 11).

Regressions of 6-month median values for ammonia effluent concentrations and loads revealed that ammonia concentrations have increased significantly over time, whereas loads have decreased significantly over time (Table 12).

**Table 10. Results of step-wise regressions to determine whether nutrient concentrations (ng/L) from CAWD have been significantly affected over the past 10 years due to time or wastewater volume discharged.**

Nutrient	Model	F Ratio	Adj. R <sup>2</sup>	Probability
<b>NH3-N</b>	Concentration = 33.93 – 15.86 MGD	11.25	0.0799	0.0011*
<b>NO3</b>	Concentration = -930.9 + 2.94e-7 Date – 63.71 MGD	49.66	0.4520	<0.0001*
<b>Urea</b>	Concentration = -540.8 + 1.85e-7 Date – 32.05 MGD	8.753	0.1179	0.0003*
<b>Total N</b>	Not Significant			
<b>OrthoP</b>	Concentration = 28.38 – 15.13 MGD	45.93	0.2757	<0.0001*

\* p<0.05

**Table 11. Results of regressions to determine whether nutrient loads (Kg/day) from CAWD have significantly changed over the past 10 years.**

Nutrient	Model	F Ratio	Adj. R <sup>2</sup>	Probability
<b>NH3-N</b>	Load/day = 178.5 – 4.24e-8 Date	2.8431	0.0154	0.0944
<b>NO3</b>	Load/day = -136.5 + 6.27e-8 Date	0.6314	-0.0031	0.4284
<b>Urea</b>	Load/day = -0.6384 + 2.3e-10 Date	0.5325	-0.0040	0.4670
<b>Total N</b>	Load/day N = 41.38 + 2.06e-8 Date	0.0618	-0.0005	0.8041
<b>OrthoP</b>	Load/day = 156.5 – 383e-8 Date	13.735	0.0974	0.0003*

\* p<0.05

**Table 12. Results of regressions to determine whether 6-month median ammonium concentrations (mg/L) and loads (Lbs/day) from CAWD have significantly changed over the past 10 years.**

Parameter	Model	F Ratio	Adj. R <sup>2</sup>	Probability
<b>Ammonia</b>	Concentration = -112.10 + 3.75e-8 Date	7.2417	0.0523	0.0082*
<b>Ammonia</b>	Load/day = 271.37 – 6.19e-8 Date	4.5071	0.0301	0.0360*

\* p<0.05

### 3. Have contaminant concentrations in water and mussels in the ASBS exceeded The California Ocean Plan or Human Health Alert Levels?

POPs measured in ocean waters by the CCLEAN Program has frequently identified PCB concentrations or loads that exceed the California Ocean Plan, while Chlordanes, DDTs, and Dieldrin have also sometimes exceeded the Ocean Plan criteria. During 2013-2022, none of these contaminants exceeded human health alert levels based on mussels sampled by CCLEAN at Carmel River Beach. Mussels have exhibited average concentrations of Chlordane (0.34 ng/g), Dieldrin (0.44 ng/g), DDTs (1.26 ng/g), and PCB (0.22 ng/g) that were an order of magnitude or more below the OEHHA Advisory Tissue Levels (OEHHA ATLS; OEHHA 2016).

Fecal Indicator Bacteria (FIB) concentrations in ocean waters adjacent to Ocean Avenue in Carmel have also been generally below water quality objectives for water contact recreation and shellfish harvesting criteria listed in the California Ocean Plan (Figure 9). Total coliform exceeded the shellfish harvesting standard (Median = 230 MPN/100mL) on four occasions: November 2013, October 2016, January 2018, and January 2020. The highest median occurred in November 2013 that was 8-times higher (1935 MPN/100mL) than the standard. Geometric means for fecal coliforms exceeded the Ocean Plan threshold one time, in January 2020, and *Enterococcus* exceeded two times in January 2018 and January 2021.

Each of the FIB indicators had exceedances of the Ocean Plan objectives for single sample maxima (Figure 10). Total coliforms exceeded the single sample maximum 12 times between 2013 and 2022. Four occurrences were detected in 2018, three occurrences were detected in 2013, two occurrences were detected in 2016, and one occurrence in 2014, 2017, and 2020. The only year that exhibited exceedance of the Ocean Plan in > 10% of samples was for 2018 (4 of 38, 10.5%). Fecal coliform exceed the single sample maximum once, in August 2013, which coincided with an exceedance in the same month for total coliforms. Finally, *Enterococcus* exceeded the single sample maximum seven times; three times in 2018, two times in 2013, and once in 2020 and 2022.

The absence of harmful algal blooms reported for Carmel Bay in our search of the scientific literature and local news outlets is consistent with the current loads of nutrients from the CAWD discharge (Table 11) and no impairments of Carmel Bay beneficial uses by nutrients discharged by CAWD.

In summary, POP concentrations measured in mussel tissues in the ASBS have not exceeded human consumption thresholds, though CCLEAN has measured both concentration and loads in Monterey Bay waters that frequently do exceed the Ocean Plan (CCLEAN, 2021). In contrast, each of the FIB indicators have shown exceedances of the Ocean Plan objectives at Carmel Beach. Total coliforms exceeded the shellfish standard four times based on the 30-day median and once based on 10% of samples above the single sample maximum in a calendar year. Fecal coliforms exceeded the recreational water contact objective once based on the geometric mean, and once based on a single sample maximum. Lastly, *Enterococcus* exhibited two exceedances of the recreational water contact objective and seven exceedances of the single sample maximum. In total, 16 exceedances of the Ocean Plan based on FIBs sampled in the ASBS were observed during 2013-2022.

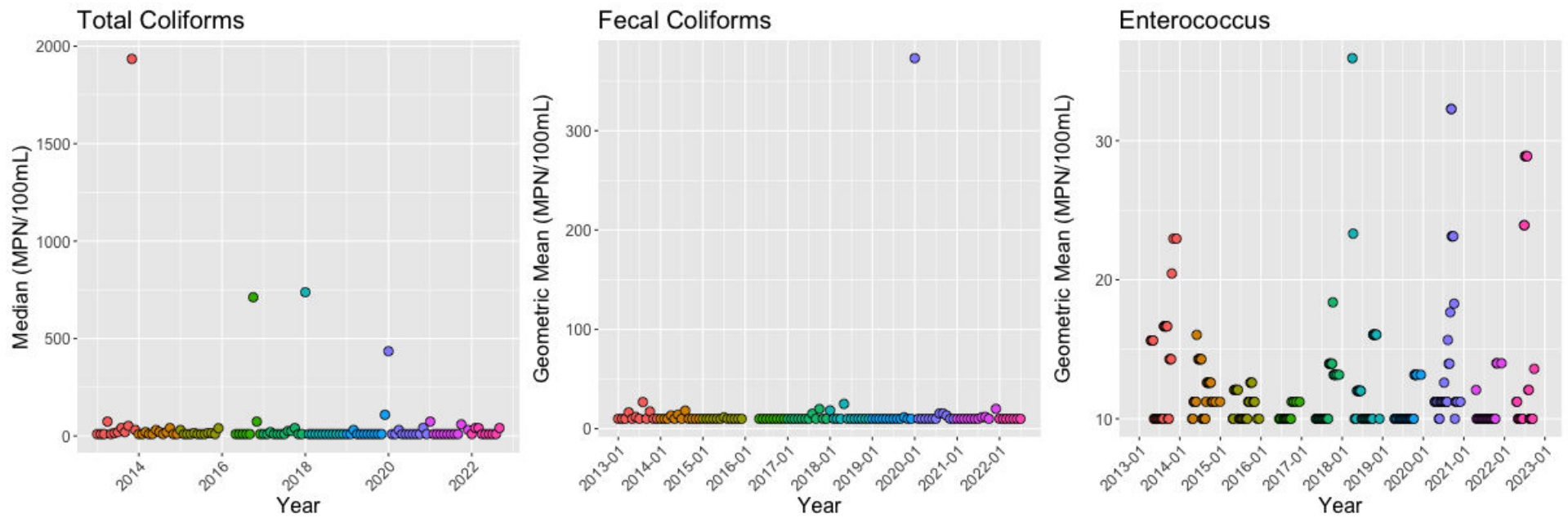


Figure 9. Median and Geometric Means (GMs) for FIBs collected at Ocean Avenue in Carmel, 2013-2022. Total coliform medians were calculated from the weekly observations. GMs for fecal coliforms reflect the 30-day average, and the GMs for *Enterococcus* reflect the 6-week rolling average of weekly observations, respectively.

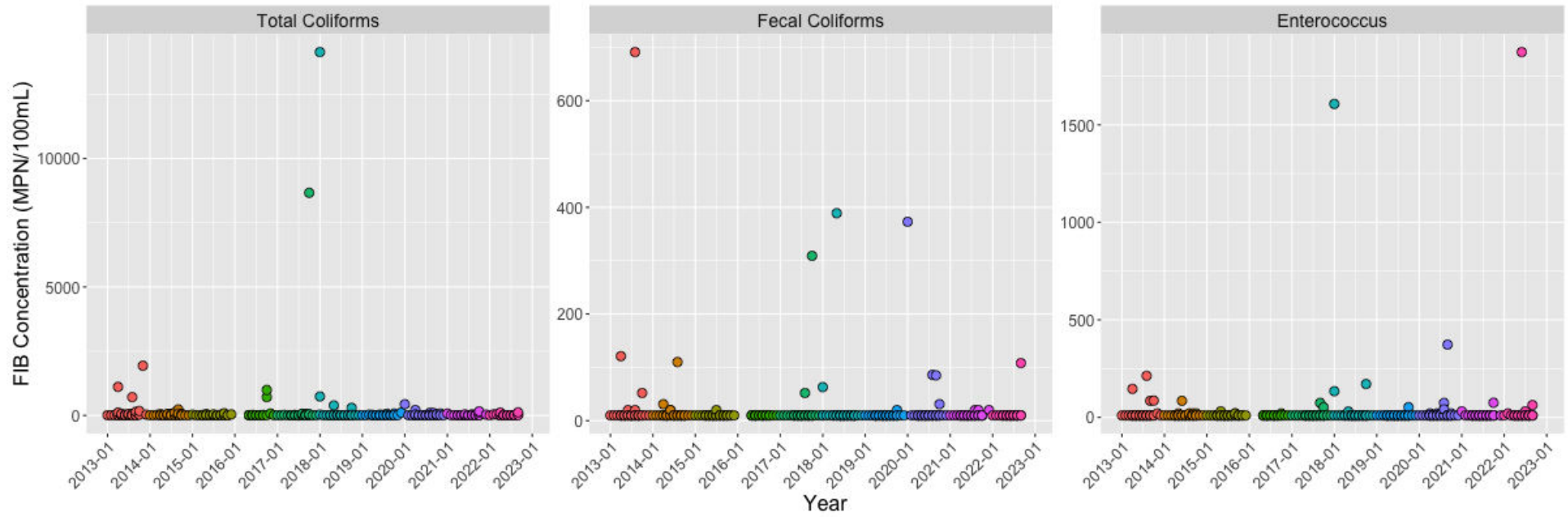
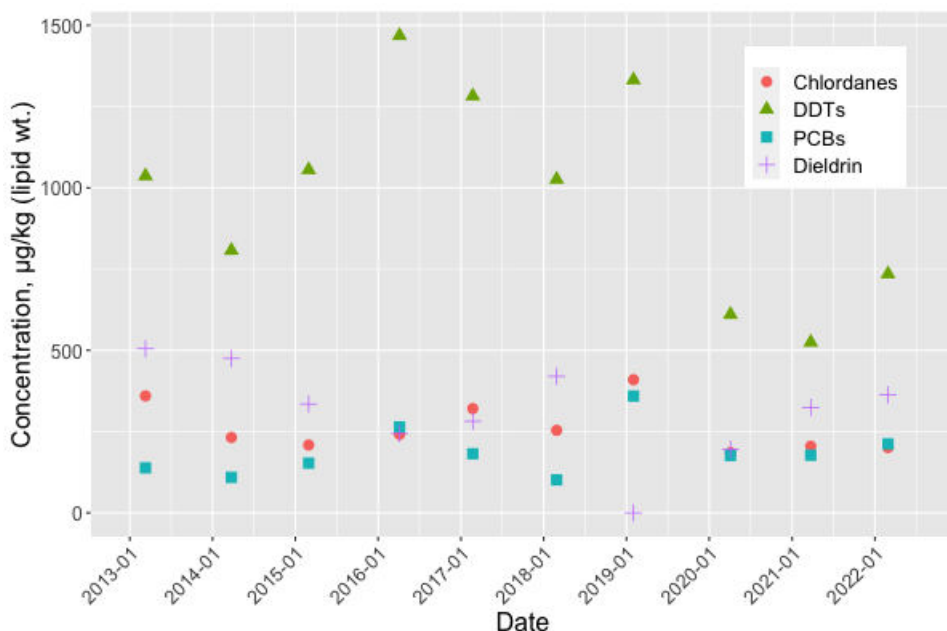


Figure 10. Concentrations of FIBs collected at Ocean Avenue in Carmel, 2013-2022.

**4. Have concentrations of contaminants in mussels or fecal indicator bacteria in water in the ASBS increased over time?**

During 2013-2022, POPs in mussels did not show any significant increases over time. DDTs have consistently exhibited the highest lipid-weight concentrations compared to the other three contaminants (Figure 11). Concentrations above 1000 µg/kg were observed in every year between 2013 and 2019 except for 2014, while the most recent three years have been ~ 40% lower, ranging between 526 – 735 µg/kg. Regression analyses of lipid-weight concentrations over time indicated declining slopes for all but PCBs. However, in all cases, the regression slopes were not statistically significant (Table 13).



**Figure 11. Lipid-weight concentrations of Chlordanes, DDTs, Dieldrin, and PCBs in mussels measured at Carmel River Beach, 2013-2022. Concentrations were determined from composite mussel samples collected during the wet season by the CCLEAN Program.**

**Table 13. Results of regressions to determine whether lipid-weight concentrations of legacy pesticides in mussels from Carmel River Beach have significantly changed over the past 10 years.**

Pesticide	Model	F Ratio	Adj. R <sup>2</sup>	Probability
<b>Chlordanes</b>	LW = 1193.5 – 2.6e-7 Date	0.9520	-0.0054	0.3578
<b>DDTs</b>	LW = 6317 – 0.0000015 Date	2.014	0.1012	0.1936
<b>Dieldrin</b>	LW = 2789 – 6.9e-7 Date	1.9934	0.0994	0.1957
<b>PCBs</b>	LW = -804.3 + 2.76e-7 Date	1.0598	0.0066	0.3334

FIB indicators from Carmel Bay have also not indicated a significant increase over time. Generally, sporadic high FIB concentrations were evident between 2013 and 2022. These spikes did not trend over time, though the dry season of 2018 was notable for having the highest mean concentrations for each FIB indicator (Figure 12). Regression slopes of mean concentrations have trended downwards for total coliforms and fecal coliforms, and upward for *Enterococcus*, with the latter observation driven by the relatively high wet season concentration in 2022. In each of the regression models, season had a positive coefficient, indicating that the dry season exhibited relatively higher concentrations than the wet season, notably in 2018 and 2020. None of these trends were statistically significant at  $p < 0.05$  (Table 14). In Question 5 below, the potential contribution of CAWD discharge to changes in POPs in mussels and FIBs in ocean waters was evaluated.

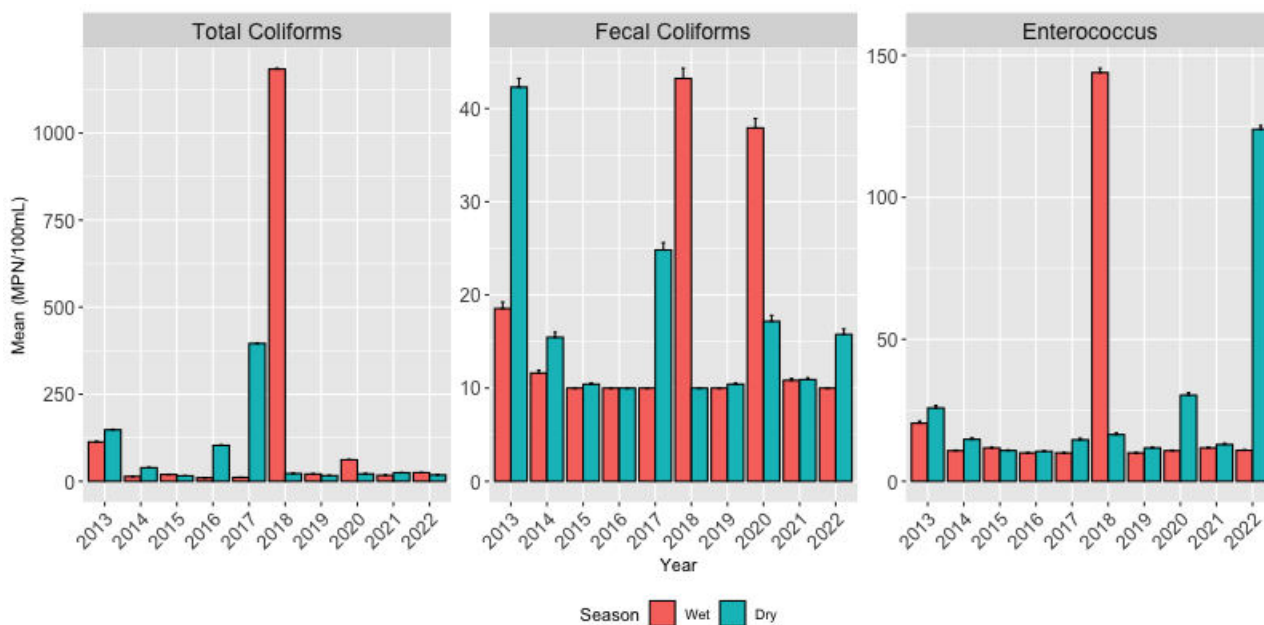


Figure 12. Lipid-weight concentrations of Chlordanes, DDTs, Dieldrin, and PCBs in mussels measured at Carmel River Beach, 2013-2022. Concentrations were determined from composite mussel samples collected during the wet season by the CCLEAN Program.

Table 14. Results of regressions to determine whether FIB concentrations in water from Carmel Bay have significantly changed over the past 10 years.

FIB Indicator	Model	F Ratio	Adj. R <sup>2</sup>	Probability
<b>Total Coliforms</b>	FIB = 178.40 - 0.09 Year + 0.17 Season	0.408	-0.066	0.67
<b>Fecal Coliforms</b>	FIB = 48.68 - 0.02 Year + 0.03 Season	0.155	-0.098	0.86
<b>Enterococcus</b>	FIB = -95.96 + 0.05 Year + 0.25 Season	0.542	-0.051	0.59



**5. Are concentrations of contaminants or fecal indicator bacteria in water or shellfish in the ASBS associated with discharges from CAWD?**

Concentrations of POPs in shellfish and fecal indicator bacteria in water were not found to be associated with loads in CAWD wastewater discharges. CAWD effluent load of POPs were tested for statistically significant associations with lipid-weight POP concentrations in mussels. For Chlordanes and PCBs there was a positive slope to the regressions, while for DDTs and Dieldrin the slope was negative. In all four parameters, the slopes were not statistically significant ( $p > 0.05$ ) and explanatory variance relatively low ( $< 0.3$ ), indicated a lack of significant association (Table 15).

**Table 15. Results of regressions to determine whether lipid-weight concentrations of legacy pesticides in mussels from Carmel River Beach have been affected significantly by loads from CAWD (Lbs/day).**

Pesticide	Model	F Ratio	Adj. R2	Probability
<b>Chlordanes</b>	LW = 227.2 + 46699 Lbs/day	3.241	0.1994	0.1095
<b>DDTs</b>	LW = 1042 – 9295702 Lbs/day	0.706	-0.0338	0.4253
<b>Dieldrin</b>	LW = 389.7 – 19157128 Lbs/day	3.423	0.2121	0.1014
<b>PCBs</b>	LW = 154.5 + 8926885 Lbs/day	1.169	0.0185	0.3110

FIBs in CAWD effluent discharge also did not associate with FIB concentrations in the ASBS during 2013-2022. Seasonal-average effluent loads of FIBs were tested for statistically significant associations with FIB concentrations from Carmel Bay. In all three FIB indicators (total, fecal, Enterococcus), there was a minimal slope to the regression, which was highly unlikely ( $p \gg 0.05$ ) to be different from zero (Table 16).

**Table 16. Results of regressions to determine whether FIB concentrations in water from Carmel Bay have been affected significantly by loads from CAWD (Lbs/day).**

FIB Indicator	Model	F Ratio	Adj. R2	Probability
<b>Total Coliforms</b>	FIB = 56.0 – 0.0002 TC-Load	0.187	-0.015	0.667
<b>Fecal Coliforms</b>	FIB = 62.8 – 0.007 FC-Load	0.088	-0.022	0.769
<b>Enterococcus</b>	FIB = 49.1 + 0.003 EC-Load	0.108	-0.021	0.744

## 5. Conclusions

The Comprehensive Study has provided answers to each of the stated study questions, as follows:

1. *Has the CAWD discharge exceeded permit limitations over the past 10 years?*

Eleven exceedances of NPDES permit limits were observed during the 2013-2022 reporting period. These occurrences were coincident with 1) the 30-day seasonal average PCB concentrations during

the dry season of 2017 and 2020; 2) the rolling six-month median of monthly ammonia concentrations between August and November 2018; 3) the monthly average of total coliforms in August 2018; and 4) the single sample maximum of total coliforms four times between 8/13 – 8/26, 2018.

*2. Have the concentrations or loads of contaminants in the CAWD discharge increased over time?*

There were few instances of significantly increased contaminant concentrations or loads since 2013. Concentrations of Dieldrin, nitrate, and urea have increased with time, while concentrations of ammonia, nitrate, urea, and orthophosphate were lower in higher discharge volumes, suggesting contaminant masses associated with water reclamation efforts. Loads of only orthophosphates have changed over time, with significant decreases since 2012.

*3. Have contaminant concentrations in water and mussels in the ASBS exceeded the California Ocean Plan or Human Health Alert Levels?*

No exceedances of OEHHA advisory tissue levels for human consumption of shellfish were associated with POP concentrations in mussels between 2013 and 2022. However, a total of 16 observations of FIBs were observed above the median, geometric mean, or single sample maxima listed in the Ocean Plan. *Enterococcus* exhibited nine of the 16 exceedances, total coliform exhibiting five, and fecal coliform exhibiting two exceedances. Most of these relatively high observations were sporadic and unrelated to season. Only in 2018, were several re-occurring exceedances apparent.

*4. Have concentrations of contaminants in mussels or fecal indicator bacteria in water in the ASBS increased over time?*

Concentrations in water and mussels in the ASBS have not significantly increased over time. Despite the observations of increasing CAWD concentrations of Dieldrin, there have been no increases over time of this or any other contaminant measured in mussels or in water from the ASBS. Moreover, concentrations of some POPs in mussels have been slowly declining.

*5. Are concentrations of contaminants or fecal indicator bacteria in water or shellfish in the ASBS associated with discharges from CAWD?*

Over the past 10 years, POP and FIB loads in CAWD wastewater discharge were not statistically associated to mussel contamination or FIB concentrations in the ASBS, respectively. The lack of significant regressions suggests other factors or sources contributed to the mussel contamination and exceedances of Ocean Plan recreational water contact and shellfish harvest standards observed over the time-series.

## 6. Recommendations

Considering the findings from the Comprehensive Study, additional information in two areas would be helpful for future comprehensive reports:

- 1) Fecal Indicator Bacteria measurements from additional discharges into the Carmel Area ASBS. All the Ocean Plan exceedances were for FIB indicators in waters at Carmel Bay adjacent to Ocean Avenue. As a result of the lack of associations with CAWD discharge, future analyses would benefit from FIB data from additional potential sources, such as the Carmel River and stormwater discharges.
- 2) Periodic measurements of POP loads from the Carmel River. This would enable more accurate and balanced examinations of the effects of POP loads from CAWD effluent, in the event that declines in mussel POP concentrations reverse in the future.

## 7. References

CCLEAN (2021) 2020-2021 Annual Report. Central Coast Long-term Environmental Assessment Network, Santa Cruz CA.

Central Coast Regional Water Quality Control Board (2014) Waste Discharge Requirements for the Carmel Area Wastewater District Treatment Plant, Order No. R3-2014-0012, NPDES No. CA0047996

Office of Environmental Health Hazard Assessment (2016) Statewide Advisory for Eating Fish from California Coastal Locations Without Site-Specific Advice, Oakland, CA

State Water Resources Control Board (2019) California Ocean Plan. California Environmental Protection Agency, Sacramento, CA

# STAFF REPORT



To: Board of Directors

From: Chris Foley, Maintenance Superintendent

Date: April 27, 2023

Subject: Monthly Maintenance Report – March 2023

## RECOMMENDATION

Receive Report- Informational only; no action required.

## DISCUSSION

### Maintenance Projects in Progress/Completed

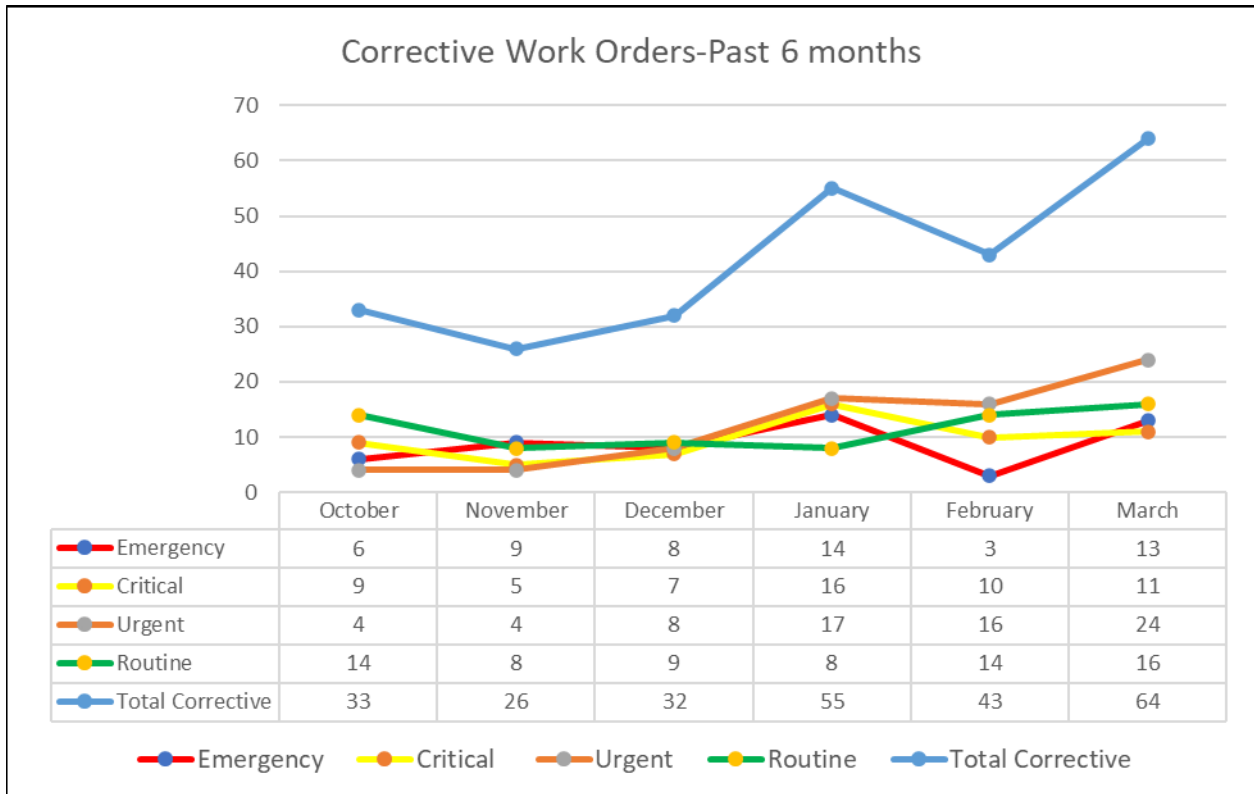
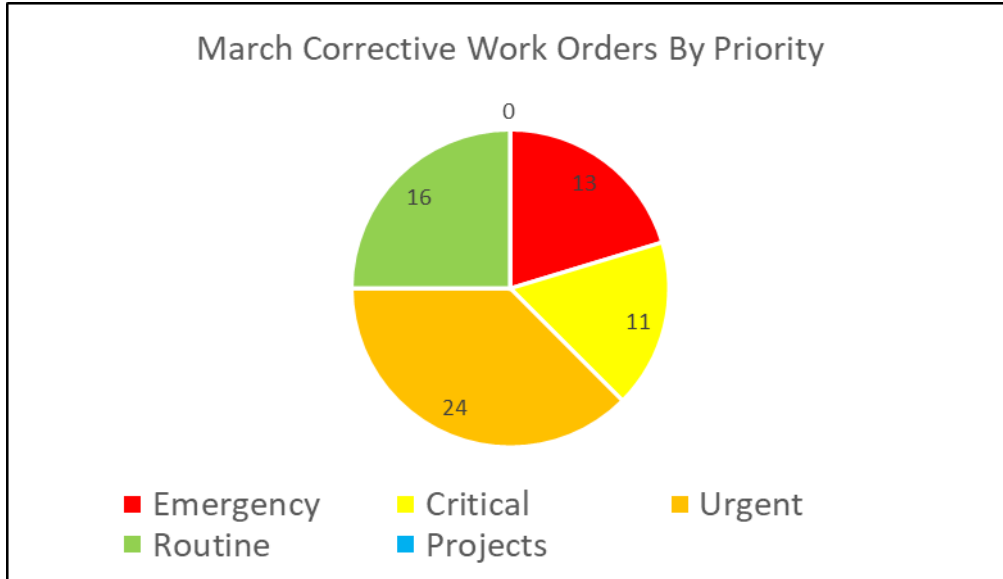
- (Update 2)-Staff is working on reclamation preventative maintenance and equipment upgrades.
  - A. Reverse Osmosis (RO) Train C motor was replaced with the reconditioned spare. The Train C motor was sent out for reconditioning and when it is returned it will be swapped with Train B motor.
  - B. The RO clean-in-place (CIP) heating element has degraded and is not heating the CIP tank to the correct temperature. A new element has been ordered and the expected delivery should occur within 2 weeks.
- (Update) The fiber optic internet at the treatment plant had a failure. AT&T repaired the damaged fiber optic line and all systems are back in service.
- The 65-kilowatt (kW) microturbine had a failure. Cal Microturbine diagnosed the issue and ordered a replacement component. The 30kW unit is online until the 65kW is repaired.
- The number of emergency work orders increased due to multiple callouts for power outages for the month of March.

## Upcoming Maintenance Projects

- (Update 1) Staff received parts to install pipe risers for emergency bypass pumping at the Hacienda and Highlands pump stations which have been installed. Staff plans on renting a portable pump to test connection at Highlands and verify pump specifications before purchasing a budgeted portable pump.
- (Update 2: Waiting on Proposal)-Staff is working with DKF Solutions on Risk Survey improvements. This includes equipment specific lock out tag out procedures, emergency response planning, and qualified electrical worker policy documentation.
- (Update 1) A contractor has been mobilized for an emergency replacement of the 1 water line. There are no signs of the leak and since the pipe is very corroded and requires replacement the contractor is excavating the old line to find the leak. The old black iron piping will be replaced, from near the old chemical storage to the operations building. The back half of the plant is plastic pipe and in good condition, so once this work is completed the system will be more robust.
- (Waiting on contractor) All the parts have arrived for the lunchroom electrical upgrade. The obsolete motor control center will be removed now that the power has been re-routed to the new digester control building by the contractor as part of the electrical/mechanical rehabilitation and sludge holding tank replacement project.
- (Waiting on contractor) Parts have arrived for the administration building portable generator connection.
- A Starlink satellite router has been purchased for Highlands pump station. This will replace the cellular modem for Supervisory Control and Data Acquisition. Both the primary and backup alarm system are currently on cellular. Starlink will provide more resilient redundancy by utilizing two different technologies for telemetry communication.
- The 750kW generator has a minor coolant leak. Staff has contacted multiple contractors to obtain quotes for the repair. During the repair the 500kW will be placed in the lead position in case of a power failure. The system automatically switches to the 500kW if the 750kW generator fails.

## Work Order Metrics Preventive Maintenance (March)

Total Work Orders Generated	425
Total Work Orders Closed/Done	400
Total Work Orders Still Open	25
Percentage of Work Orders Completed	94.12%



FUNDING-N/A- Informational item only

# **General Manager - Oral Report**

## **Other Items Before the Board**



# STAFF REPORT



To: Board of Directors

From: Patrick Treanor, Acting General Manager

Date: April 27, 2023

Subject: Adaptation Planning Grant Program – Governor’s Office of Planning and Research

## RECOMMENDATION

Staff recommends the Board pass a motion accepting a grant application as submitted.

## DISCUSSION

On March 31<sup>st</sup>, Carmel Area Wastewater District (CAWD) staff submitted an application for a sea level rise adaptation planning grant administered by the Governor’s Office of Planning and Research (OPR). The OPR is rolling out a new State funded comprehensive climate change grant program called the “*Integrated Climate Adaptation and Resiliency Program*” (ICARP). The total program is funded up to about \$300 million over the next 3 to 5 years. The funding is split up into different climate action programs and is being awarded in stages. The grant CAWD applied for is under the “*Round 1 - Adaptation Planning Grant Program*” (APGP), which has \$8 million in funding. CAWD applied for \$575,000 to complete two planning studies. One study is an evaluation of alternatives to adapt the existing wastewater treatment plant infrastructure to climate change, and the second study is an evaluation of pumping to Monterey One Water.

The application required detailed descriptions of how the climate adaptation work would consider vulnerable communities, and provide economic and environmental benefits to the broader community. The application included letters of support from City of Carmel-by-the-Sea, and Monterey One Water. Pebble Beach Community Services District, and Monterey Peninsula Water Management District were Co-Applicants. CAWD is expecting to hear back in late May as to whether our application will be recommended for award.

**Attachment:** Adaptation Planning Grant Program - Round 1 Grant Application

## Applicant Information

Proposed Project Name: **CAWD Wastewater Treatment Plant – Long Term Coastal Hazards Planning**

Lead Applicant: **Carmel Area Wastewater District (CAWD)**

## Project Vision & Priorities

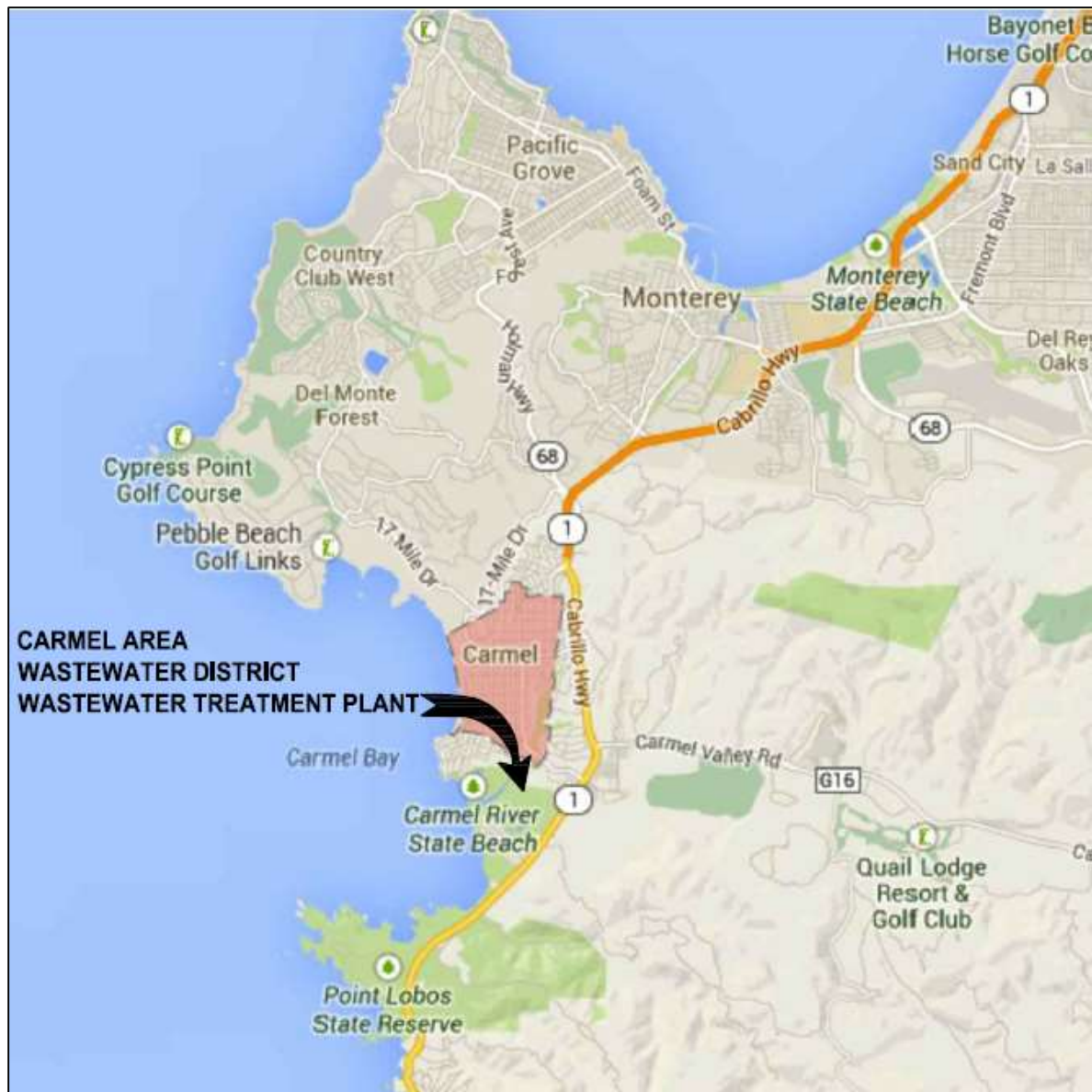


**Figure: Aerial View of Carmel Area Wastewater District Wastewater Treatment Plant**

Note: Emphasis is added in this document by underlining certain segments. This is to allow the reader to scan the document for key points if desired.

Since 2016 CAWD has been engaged in planning for a long-term solution to address flooding and related coastal hazards threats to the CAWD Wastewater Treatment Plant (WWTP) as these threats are increased by climate change. The CAWD WWTP (pictured above) is located within the lower coastal floodplain of the Carmel River and near the Carmel River Lagoon. Because of its location in the 100-year floodplain the CAWD Wastewater Treatment Plant has been designed to handle flooding up to a certain level. However, future sea levels and storm intensity increases over the next 40 years, as caused by climate change, could make the existing treatment facility location unviable.

The location of the CAWD WWTP is shown in the Vicinity Map below.



**Figure: Vicinity Map**

Carmel Area Wastewater District (CAWD) is a California Special District formed under the Sanitary District Act of 1923. CAWD produces 1,000 acre-ft of recycled water annually in partnership with Pebble Beach Community Services District (PBCSD) and Monterey Peninsula Water Management District (MPWMD), who are Co-Applicants.

CAWD was issued a new Coastal Development Permit for the WWTP from the Coastal Commission in 2021. The 2021 Coastal Development Permit allows CAWD to continue to operate and maintain the existing WWTP while working towards a "Long-Term Coastal

Hazards Plan" that evaluates coastal hazards mitigations as they are exacerbated by climate change. The coastal hazard mitigations to evaluate include:

- Relocation of the WWTP
- Adaptation of existing infrastructure in place to be resilient to increased future flood levels
- Pumping all wastewater to the Monterey One Water treatment facility (approximately 20 miles away)

No matter which mitigation approach is ultimately taken to address climate change impacts at the CAWD treatment plant, it will be an extremely expensive undertaking. It is inherently expensive to make major modifications to wastewater and recycled water infrastructure, and this has the potential to effect the entire Monterey Peninsula.

CAWD has completed three studies so far related to climate change impacts at the treatment plant, which are posted on our website: <https://www.cawd.org/sea-level-rise>. These three studies are aligned with "Phase 1", and "Phase 2" planning activities as defined by the APGP guidelines. CAWD is also currently working on a fourth "Phase 3" planning study.

In 2018 CAWD completed a Sea Level Rise Study that included projections for the timing of sea level rise impacts on existing wastewater treatment infrastructure. The projections modelled future flood levels based on future sea level rise modelling guidance from the Ocean Protection Council, and also based on increased intensity rainfall events. Assuming an "extreme" (H++) sea level rise scenario and 30% to 70% increase in rainfall intensity, it was projected that the CAWD WWTP could be significantly vulnerable to major flood damage after the year 2060. We would consider this 2018 study a "Phase 2 – Assess Vulnerability" planning activity as it evaluated the vulnerability of the facilities based on projections of future increased flooding.

In 2020 and 2022 CAWD completed additional studies that we would consider "Phase 1 – Explore, Define, and Initiate" planning activities. The 2020 study laid out a data monitoring plan for how CAWD intends to collect local data that tracks the progression of climate change hazards over the planning horizon, and the 2022 study presented a planning roadmap that described what specific planning activities needed to occur over the next 20 years.

The studies that CAWD is applying for in this grant application would fall under "Phase 3 – Define Adaptation Framework and Strategies", because they would evaluate specific potential adaptation strategies.

CAWD is also currently in progress on another "Phase 3" study that defines the adaptation strategy of relocating the WWTP by building a facility farther inland. This study will be completed in mid-2023.

CAWD is planning on completing a suite of infrastructure and climate change planning studies over the course of the next 15 years, as generally outlined in the figure below.

CAWD's intent is to use the Round 1 APGP funding to hire consultants to complete planning studies that will advance our efforts in evaluating the specific hazard mitigation approaches that we have defined in our Phase 1 planning work.

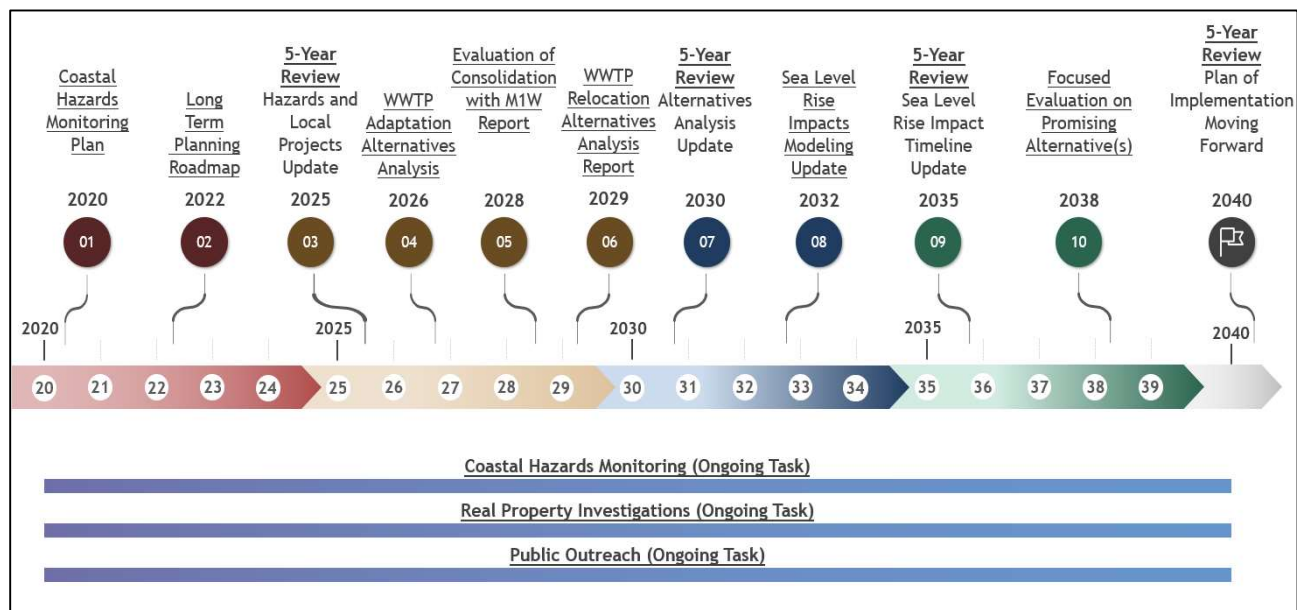


Figure: Long Term Planning Roadmap - 2020 thru 2040

## Community Need & Adaptive Capacity

**Impact on Disadvantaged Communities:** The CAWD wastewater treatment facility produces about 1,000 acre-ft of recycled water per year, which benefits the greater Monterey Peninsula region. Like many coastal communities in California, water is a scarce and valuable resource in the Monterey Peninsula. The greater Monterey Peninsula region served by our Co-Applicant MPWMD includes economically disadvantaged communities in the cities of Monterey, Sand City, and Seaside. MPWMD has been an ongoing partner with CAWD in the management of the recycled water project for the last 30 years (see Community Partnership section). The water produced at the CAWD wastewater treatment facility helps to offset costs of more expensive forms of potable water for the community; such as ocean desalination. There is a plan to build an ocean desalination plant to serve more water to the Monterey Peninsula that has gotten approval from the Coastal Commission. Economically disadvantaged communities in the Monterey Peninsula need affordable water and the recycled water produced by CAWD helps reduce the local cost of water compared to other more expensive forms of water such as ocean desalination.

The population within the immediate CAWD sewer service area is relatively affluent, however there is a large contingent of retired individuals in our service area with fixed incomes who have a hard time absorbing big increases in expenses (i.e. sewer charges). CAWD sewer charges are currently about \$1,000 per year per household. The cost to adapt our wastewater treatment plant to climate change could more than double the annual

sewer charges. CAWD serves 11,000 households and also customers from the Pebble Beach Community Services District (PBCSD).

**Climate Change Vulnerability:** Due to our geographic location, CAWD and the coastal community we serve, is vulnerable to the effects of climate change including sea level rise, coastal flooding, and increased storm intensities. The existing wastewater treatment plant is located in the historic 100-year coastal floodplain near the Carmel Lagoon. The most recent major flood events were in 1995 and 1998. The original treatment plant was designed with elevated structures to operate through onsite flooding, and no major damage or permit violations occurred from the floods in the 1990s. However, climate change could make the existing facility impractical to use as a result of higher frequency and higher severity flooding beyond what occurred in the 1990s. It is worth noting that residential neighborhoods around the Carmel Lagoon also flooded in the 1990s resulting in extensive property damage in the community.

As a coastal community the Monterey Peninsula is vulnerable to sea level rise and coastal flooding impacts brought on by climate change. The major economic driver for the Monterey Peninsula is tourism, drawn in mostly by the natural beauty of the coastline and coastal mountain ranges. The Monterey Peninsula is also a gateway to Big Sur. The viability of the community tourism industry necessitates infrastructure that can cost effectively support visitors and residents, while also continuing to protect the natural beauty of this region.

The planning work to be completed in this grant will add to several other studies evaluating how to address the increased coastal flooding hazards at the CAWD wastewater treatment plant. This planning work is seeking to flush out the most cost effective and equitable approach; that is also the most beneficial to the community at large.

## Co-Benefits

The CAWD wastewater treatment facility produces about 1,000 acre-ft of Title 22 recycled water annually. This water resource is a considerable part of the water portfolio for the Monterey Peninsula and contributes economic benefits and environmental benefits to the community. The Monterey Peninsula includes approximately 106,000 people within the cities of Carmel-by-the-Sea, Del Rey Oaks, Monterey, Pacific Grove, Seaside, Sand City, and portions of unincorporated Monterey County including Pebble Beach, Carmel Highlands and Carmel Valley.

The Monterey Peninsula uses about 10,000 acre-ft of water annually, and the recycled water produced at the CAWD wastewater treatment facility comprises about 10% of the water supply.

**Environmental Benefit:** The Monterey Peninsula's main source of potable water is the Carmel River watershed. The Carmel River is critical habitat for steelhead salmon (a federally protected species). The quantity of water in the Carmel River that can be used as potable water is constrained by the need to maintain critical habitat for the steelhead. The

recycled water produced at CAWD helps support efforts to reduce the amount of water that is taken from the natural steelhead habitat.

**Economic Benefit:** The recycled water produced by the CAWD treatment facility is an economic benefit to the community, supporting one of the biggest economic drivers in the area. The golf courses in Pebble Beach are a world renown attraction that brings tourism, jobs, and a significant portion of the tax money for the community. 100% of the water used to irrigate the seven golf courses in Pebble Beach is produced at the CAWD treatment facility.

## Community Partnership

CAWD provides recycled water through a partnership with the community of Pebble Beach and the local water management district. CAWD is a critical partner in producing recycled water that benefits the entire Monterey Peninsula. The “Reclamation Project” (as it is called) is a partnership including CAWD, Monterey Peninsula Water Management District (MPWMD), and Pebble Beach Community Services District (PBCSD). The recycled water is purchased by the golf courses in Pebble Beach who water 100% of the golf links with recycled water, thus freeing up more potable water for the rest of the community. The privately owned golf courses are also partners in the Reclamation Project. MPWMD and PBCSD are Co-Applicants to this grant application and are described briefly below.

**Monterey Peninsula Water Management District (MPWMD):** manages water supply for the greater Monterey Peninsula including Carmel-by-the-Sea, Del Rey Oaks, Monterey, Pacific Grove, Seaside, Sand City, Pebble Beach, Carmel Highlands and Carmel Valley.

**Pebble Beach Community Services District (PBCSD):** manages the storage and distribution of the recycled water that is produced at the CAWD WWTP to deliver it to world famous golf courses in Pebble Beach.

The Reclamation Project partnership has been in effect since the early 1990’s and has been a tremendous success in producing valuable water. One of the first recycled water projects in California, the project has been operating continuously for about 30 years.

## Workplan and Budget

CAWD is requesting a grant to aid in completing additional coastal hazard adaptation planning for the existing CAWD Wastewater Treatment Plant. There are two studies on the horizon that we would like grant funding to complete. If grant funds are limited, then CAWD would be happy to receive a grant for just one of the two pending studies. Both studies would be completed by a consulting engineering company with qualifications and experience necessary to complete the studies. The studies could be completed by different consultants depending on qualifications. Estimated cost for Study #1 is \$275,000; and

estimated cost for Study #2 is \$300,000. Therefore, it is estimated that completing both planning studies would cost \$575,000.

**Study #1 - Wastewater Treatment Plant Adaptation Alternatives Analysis** - Adaptation of the WWTP in its existing location is a viable alternative for either shorter term or longer term mitigation of Coastal Hazards. CAWD understands that hard armoring of the perimeter of the existing wastewater treatment plant site is not allowed per our Coastal Development permit. There are however still ways to protect the ongoing operation of the WWTP during floodplain events that do not involve coastal armoring or levees.

CAWD proposes to complete a planning study to evaluate various methods to “adapt in place”, which may include any number of strategies such as:

1. Increasing the top of wall elevation of critical treatment tanks
2. Raising any low lying critical equipment
3. Installing water tight lids on low lying vaults
4. Site drainage improvements
5. Vegetation Management
6. Sandbar Management
7. Flood Managed Aquifer Recharge
8. Living Shorelines

**Study #2 - Evaluation of Consolidation with Monterey One Water** - Evaluate options to pump wastewater generated in the CAWD service area to the Monterey One Water (M1W) Treatment Plant located in Marina, CA. Pumping to the M1W Treatment Plant would represent a centralized wastewater treatment option for the entire Monterey Peninsula. Extensive new raw wastewater conveyance infrastructure would be required to convey wastewater from the CAWD service area to Marina, CA (crossing from the Carmel River watershed to the Salinas River watershed). About 20 miles of new pipelines and several new pump stations would need to be built to move wastewater across the Monterey Peninsula.

CAWD proposes to commission a study to evaluate various sewer conveyance approaches and to evaluate likely treatment fees CAWD would pay for treating water at M1W. Specific items to be evaluated may include:

1. Capacity of existing M1W Raw Wastewater Pump Stations (Wet Weather and Dry Weather Flow)
2. Hydraulic Evaluations of new Conveyance Systems (Wet Weather and Dry Weather Flow)
3. Potential Alignment Alternatives for New Pipelines
4. Conceptual Pump Station Information
5. Identification of Pump Station Sites
6. Analysis of Future Treatment Costs and Liabilities at M1W Facilities

**-- END OF DOCUMENT--**



Work Plan					
<b>Proposal Name:</b>	<b>CAWD Wastewater Treatment Plant – Long Term Coastal Hazards Planning</b>				
<b>Lead Applicant:</b>	Carmel Area Wastewater District				
<b>Project Description:</b> (500 character limit)	<p>There are two studies on the horizon that Carmel Area Wastewater District (CAWD) would like grant funding to complete. If grant funds are limited, then CAWD would be happy to receive a grant for just one of the two pending studies. Each study will focus on a different approach to mitigating climate change increased flood impacts at the CAWD Wastewater Treatment Plant.</p> <p><b>-Study #1 - Wastewater Treatment Plant Adaptation Alternatives Analysis</b> This study would evaluate ways to adapt the existing CAWD wastewater treatment plant infrastructure to climate change in its existing location. Adaptation would involve modifications to the existing wastewater treatment plant to increase flood resilience. Methods to adapt the existing facility to higher and more frequent flooding could include: Increasing the top of wall elevation of critical treatment tanks and buildings, raising any low lying critical equipment, installing water tight lids on low lying vaults, site drainage improvements, vegetation management, sandbar management, flood managed aquifer recharge, and living shorelines. Cost estimates would be developed for promising adaptation alternatives.</p> <p><b>-Study #2 - Evaluation of Consolidation with Monterey One Water</b> This study would evaluate pumping wastewater from the CAWD service area to the Monterey One Water (M1W) treatment facility located about 20 miles away. The study would develop conceptual design criteria for pump stations and pipeline infrastructure with sufficient capacity to handle wet weather and dry weather sewer flows. In addition, potential pipeline alignments and pump station locations would be evaluated. The capacity of the M1W treatment facility to handle the additional CAWD flows would also be evaluated. Cost estimates for alternatives would be developed including the charges that M1W would charge for CAWD to connect to their treatment facility, as well as annual ongoing treatment charges (rates).</p>				
<b>Character Count</b>	<b>287</b>				
Task 1: Wastewater Treatment Plant Adaptation Alternatives Analysis					
<b>Subtask</b>	<b>Description</b> <i>Include detail of activities or deliverables</i>	<b>Deliverables / Milestones</b> <i>Major outcomes and/or metrics used to demonstrate success</i>	<b>Timeline</b> <i>No later than January 31, 2026</i>	<b>Partners Involved</b> <i>If the partners are not identified include future plans to engage</i>	<b>APGP Eligible Activities Addressed</b>
<b>Kickoff Meeting</b>	Conduct a kickoff meeting with engineering consultant and stakeholders	Meeting Minutes	January 2024	Reclamation Project Partners	Phase 3
<b>Data Collection</b>	Information gathering	N/A	April 2024	Reclamation Project Partners	Phase 3
<b>Develop Adaptation Strategies</b>	Develop Adaptation Strategies and provide descriptions of concepts, and technical information for each strategy	Conceptual depictions, and technical information.	October 2024	Reclamation Project Partners	Phase 3
<b>Develop Draft Technical Report</b>	Package strategies in a report and included cost estimates for each strategy and assessment of how effective each strategy would be in providing adaptation	Draft Technical Report	January 2025	Reclamation Project Partners	Phase 3
<b>Present Draft Technical Report to Stakeholders</b>	Presentation of report to stakeholders	Presentation	March 2025	Reclamation Project Partners	Phase 3
<b>Develop Final Technical Report</b>	Finalize report based on comments from stakeholders	Final Technical Report	May 2025	Reclamation Project Partners	Phase 3
Task 2: Evaluation of Consolidation with Monterey One Water					
<b>Subtask</b>	<b>Description</b> <i>Include detail of activities or deliverables</i>	<b>Deliverables / Milestones</b> <i>Major outcomes and/or metrics used to demonstrate success</i>	<b>Timeline</b> <i>No later than January 31, 2026</i>	<b>Partners Involved</b> <i>If the partners are not identified include future plans to engage</i>	<b>APGP Eligible Activities Addressed</b>
<b>Kickoff Meeting</b>	Conduct a kickoff meeting with engineering consultant and stakeholders	Meeting Minutes	September 2024	Reclamation Project Partners / Monterey One Water	Phase 3
<b>Meet with Monterey One Water</b>	Meet with Monterey One Water to coordinate ideas and discuss information sharing	N/A	October 2024	Reclamation Project Partners / Monterey One Water	Phase 3
<b>Data Collection</b>	Information gathering, including information from Monterey One Water	N/A	December 2024	Reclamation Project Partners / Monterey One Water	Phase 3
<b>Develop Conceptual System Information</b>	Develop concept criteria and descriptions for pipeline and pump station infrastructure, evaluate multiple pipeline alignments and pump station locations, provide conceptual descriptions, and technical information for each strategy	Conceptual depictions, and technical information.	June 2025	Reclamation Project Partners / Monterey One Water	Phase 3
<b>Develop Draft Technical Report</b>	Package concepts in a report and included cost estimates and assessment of feasibility of identified alternatives	Draft Technical Report	September 2025	Reclamation Project Partners / Monterey One Water	Phase 3
<b>Present Draft Technical Report to Stakeholders</b>	Presentation of report to stakeholders	Presentation	November 2025	Reclamation Project Partners / Monterey One Water	Phase 3
<b>Develop Final Technical Report</b>	Finalize report based on comments from stakeholders and Monterey One Water	Final Technical Report	January 2026	Reclamation Project Partners / Monterey One Water	Phase 3

Budget							
Proposal Name:	CAWD Wastewater Treatment Plant – Long Term Coastal Hazards Planning						
Lead Applicant:	Carmel Area Wastewater District						
Table	Direct Costs	Indirect Costs					
Cap/Threshold	80-100%	0-20%					
Calculated	100.0%	0.0%					
<b>Total</b>	<b>\$ 575,000.00</b>	<b>\$ -</b>					
Cost Description	Cost Type	Cost per unit (Examples: Hourly rates, fees, etc.)	Number of Units (Example: Hours worked, fee cost, etc.)	Total APGP Funds	Task 1: Wastewater Treatment Plant Adaptation Alternatives Analysis	Task 2: Evaluation of Consolidation with Monterey One Water	Total APGP Funds [Cross Check]
Meetings - Consultant Fees	Program Meeting/Workshop Attendance	\$ 250.00	80	\$ 20,000.00	\$ 10,000.00	\$ 10,000.00	\$ 20,000.00
Data Gathering - Consultant Fees	Evaluation Activities	\$ 250.00	200	\$ 50,000.00	\$ 25,000.00	\$ 25,000.00	\$ 50,000.00
Conceptual Engineering Analysis - Consultant Fees	Evaluation Activities	\$ 250.00	700	\$ 175,000.00	\$ 75,000.00	\$ 100,000.00	\$ 175,000.00
Cost Estimating - Consultant Fees	Evaluation Activities	\$ 250.00	400	\$ 100,000.00	\$ 50,000.00	\$ 50,000.00	\$ 100,000.00
Presentations - Consultant Fees	Evaluation Activities	\$ 250.00	100	\$ 25,000.00	\$ 12,500.00	\$ 12,500.00	\$ 25,000.00
Technical Report Writing - Consultant Fees	Evaluation Activities	\$ 250.00	800	\$ 200,000.00	\$ 100,000.00	\$ 100,000.00	\$ 200,000.00
Consultant Travel Costs - Consultant Direct Costs	Travel Costs	\$ 5,000.00		\$ 5,000.00	\$ 2,500.00	\$ 2,500.00	\$ 5,000.00
<b>Totals</b>				<b>\$ 575,000.00</b>	<b>\$ 275,000.00</b>	<b>\$ 300,000.00</b>	<b>\$ 575,000.00</b>



City of Carmel-by-the-Sea  
P.O. Box CC  
Carmel-by-the-Sea, CA 93921

## City of Carmel-by-the-Sea

POST OFFICE BOX CC  
CARMEL-BY-THE-SEA, CA 93921  
(831) 620-2000

March 30, 2023

Subject: Letter of Support - Integrated Climate Adaptation and Resiliency Program - Adaptive Planning Grant Program

To: Governor's Office of Planning and Research

Dear Office of Planning and Research Staff,

Carmel Area Wastewater District (CAWD) provides essential sewer service to the city of Carmel-by-the-Sea. The city was developed in concert with the sewer district beginning in the early 1900's, and CAWD serves the entire City of Carmel-by-the-Sea for their wastewater needs. We have developed a good working relationship over the years such that we work closely with the city's Public Works department and contract for various projects (e.g. in cleaning out catch basins). The treatment plant, while physically in the County, has been instrumental in the development of the city of Carmel and has helped it to retain the quality of life that we have today. Additionally, the pump stations along the Carmel Beach belong to us, all our sewer lines are under city streets, and the reclaimed line runs straight through Carmel. But the impact of climate change on the city and on the district means it is in both of our interests to work together.

As a coastal community, climate change resiliency and sea level rise are of key interest to the city of Carmel-by-the-Sea. Both CAWD and the City of Carmel have begun the process of planning for climate adaptation and recognize the benefits of working together towards what is essentially the same goal. CAWD has already prepared two reports for the Coastal Commission (Coastal Hazard Monitoring Plan & Long Term Hazard Mitigation Plan) and are nearly finished with a consulting engineering project on treatment plant alternatives.) The City of Carmel, like CAWD, see long term planning as critical to our success and the health of the community.

We support the Carmel Area Wastewater District's efforts to plan future mitigations for climate change impacts that may occur at the wastewater treatment plant. The Carmel Area Wastewater District wastewater treatment plant also provides recycled water to Pebble Beach golf courses, which offsets the potable water used by the community. Water is a scarce and valuable resource on the Monterey Peninsula and water resource projects have wide reaching effects on the local economy. That said, the cost to relocate a wastewater treatment plant would also have an economic impact via significant increases in our constituents' sewer rates.

We understand that the cost to move the treatment of sewage to a new location would be a huge infrastructure project and could cost hundreds of millions of dollars. Taking the time to consider all possible alternatives through careful planning would be prudent, and we support the Carmel Area Wastewater in seeking grant funding to conduct sufficient planning to find the best solution for the community.

Regards,

Chip Rerig

City Administrator, Carmel-by-the-Sea



# Monterey One Water

## Providing Cooperative Water Solutions

ADMINISTRATION OFFICE: 5 Harris Court, Bldg D, Monterey, CA 93940  
MAIN: (831) 372-3367 or (831) 422-1001 FAX: (831) 372-6178  
WEBSITE: [www.montereyonewater.org](http://www.montereyonewater.org)

March 31 ,2023

Integrated Climate Adaptation and Resiliency Program (ICARP)  
Governor's Office of Planning and Research  
1400 Tenth Street  
Sacramento, CA 95814

RE: ICARP Adaptation Planning Grant Program Round 1 FY 2022-2023 –  
Support for the Carmel Area Wastewater District

Dear Office of Planning and Research Staff,

Monterey One Water (M1W) understands the Carmel Area Wastewater District (CAWD) is seeking grant funding to plan mitigations for climate change and sea level rise impacts that may occur at their wastewater treatment plant located near the Carmel River Lagoon.

As the wastewater utility serving communities just north of the CAWD service area, M1W also understands one potential mitigation option for CAWD is to pump their wastewater to our regional treatment facility.

M1W supports CAWD in their efforts to evaluate this potential mitigation strategy and would work with CAWD during the planning to develop alternatives. M1W produces 3,500 acre-ft per year of recycled water for potable reuse and has been working for decades to maximize water resources and improve the water supply resiliency.

Thank you for your consideration of this request.

Sincerely,

Paul A. Sciuto  
General Manager  
Monterey One Water



# Carmel Area Wastewater District

P.O. Box 221428 Carmel California 93922 ❖ (831) 624-1248 ❖ FAX (831) 624-0811

Barbara Buikema  
General Manager  
Ed Waggoner  
Operations Superintendent  
Robert R. Wellington  
Legal Counsel

Board of Directors  
Gregory D'Ambrosio  
Michael K. Rachel  
Robert Siegfried  
Kevan Urquhart  
Ken White

April 4, 2023

**RE: Tahoe-Truckee Sanitation Agency (TTSA) Proposition 218 Notice to Property Owners of Proposed Sewer Rates and a Public Hearing**

Dear Fellow Board of Directors & General Manager Barbara Buikema,

I thought you might be interested in another treatment district's notice on their proposed 218 notice regarding their rates. Please see the attached flyer regarding the notification to residents to consider the adoption of a 5 year schedule of maximum sewer rates.

Note the history about TTSA and the attached metering notice and the customer protest form. Also attached is the Carmel Area Wastewater District's protest form, which will post to the website in conjunctions with the CAWD Connections Sprint/Summer 2023 public outreach.

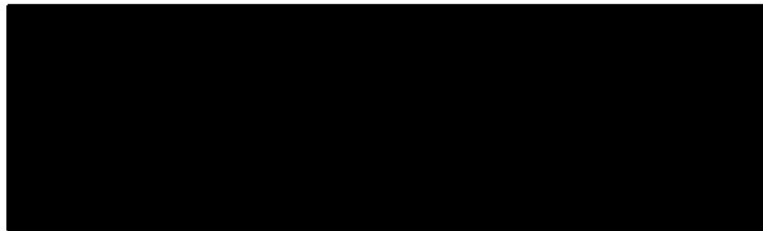
Sincerely,

Ken White,  
[white@cawd.org](mailto:white@cawd.org)  
831-624-1248



Presorted  
Standard  
U.S. Postage  
Paid  
Mailed from  
Zip Code  
92899  
Permit #146

Tahoe-Truckee  
Sanitation Agency  
13720 Butterfield Dr.  
Truckee, CA 96161



## TAHOE-TRUCKEE SANITATION AGENCY

### Proposition 218 Notice to Property Owners of Proposed Sewer Rates and a Public Hearing

The Tahoe-Truckee Sanitation Agency Board of Directors is providing notice of proposed sewer rate increases and invites the public to attend a Public Hearing to consider adoption of a 5-year schedule of maximum sewer rates. The hearing will be held on:

- DATE: Wednesday, May 17, 2023**
- TIME: 9:00 AM**
- LOCATION: T-TSA Board Room,  
13720 Butterfield Dr., Truckee, CA 96161**

The purpose of the Public Hearing is to consider verbal or written testimony and written protests of the proposed rates. This notice is provided to all property owners who currently receive these services provided by T-TSA. All interested property owners are invited to appear at the time and place specified to give verbal or written testimony, as well as written protests, regarding the proposed rates. If adopted, new rates will go into effect on July 1, 2023. The proposed rates are shown in more detail under the caption Proposed Rate Schedules.

----- ✂  
Written protest must be mailed in an envelope or delivered to: 13720 Butterfield Dr. Truckee, CA 96161.

I \_\_\_\_\_ oppose the proposed rate increases.  
(PRINT NAME)

Assessor's Parcel Number or Address: \_\_\_\_\_

Signature: \_\_\_\_\_

Submission of this form constitutes a written protest.

**THE FOLLOWING RATES REPRESENT  
THE MAXIMUM SEWER RATES THAT CAN BE CHARGED**

**Proposed Sewer Rate Schedule**

<b>Monthly Charge</b>	<b>Current</b>	<b>FY24</b>	<b>FY25</b>	<b>FY26</b>	<b>FY27</b>	<b>FY28</b>
Residential	\$25.50	\$33.17	\$39.33	\$44.67	\$48.50	\$50.17

**Proposed Sewer Rate Schedule - Annual Fee**

<b>Service Type</b>	<b>Code</b>	<b>Unit Type</b>	<b>Current</b>	<b>FY24</b>	<b>FY25</b>	<b>FY26</b>	<b>FY27</b>	<b>FY28</b>
Beauty/Barber Shop	A	# of service chairs	\$138.36	\$179.96	\$213.42	\$242.36	\$263.16	\$272.20
Commercial Establishments (unless otherwise noted)	B	# of fixture chairs	\$39.24	\$51.04	\$60.53	\$68.73	\$74.63	\$77.20
Dump Station	D	# of stations	\$306.00	\$398.00	\$472.00	\$536.00	\$582.00	\$602.00
Restaurant or Bar	F	# of seats inside	\$30.00	\$39.02	\$46.27	\$52.55	\$57.06	\$59.02
	Z	# of seats outside	\$10.80	\$14.05	\$16.66	\$18.92	\$20.54	\$21.25
	Z	# of seats banquet	\$10.80	\$14.05	\$16.66	\$18.92	\$20.54	\$21.25
Grocery	G	# of fixture units	\$60.60	\$78.82	\$93.47	\$106.15	\$115.26	\$119.22
Industrial User	I	as calculated pursuant to Table A-2	\$306.00	\$398.00	\$472.00	\$536.00	\$582.00	\$602.00
Car Washes	J	# of bays, automatic	\$459.00	\$597.00	\$708.00	\$804.00	\$873.00	\$903.00
		# of bays, automatic- recycled	\$367.20	\$477.60	\$566.40	\$643.20	\$698.40	\$722.40
		# of bays, self-service	\$306.00	\$398.00	\$472.00	\$536.00	\$582.00	\$602.00
		# of bays, self-service recycled	\$244.80	\$318.40	\$377.60	\$428.80	\$465.60	\$481.60
Campsite with Sewer Connection	K	# of sites	\$164.16	\$213.52	\$253.21	\$287.55	\$312.23	\$322.96
Laundromat	L	# of washing machines	\$163.32	\$212.42	\$251.92	\$286.08	\$310.63	\$321.30
Motel or Hotel Unit	M	# of units	\$153.00	\$199.00	\$236.00	\$268.00	\$291.00	\$301.00
Motel or Hotel Unit with Kitchen	N	# of units	\$201.96	\$262.68	\$311.52	\$353.76	\$384.12	\$397.32
Swimming Pool or Spa	P	# of P units, see Table A-1	\$5.64	\$7.34	\$8.70	\$9.88	\$10.73	\$11.10
Campsite without Sewer Connection	Q	# of sites	\$138.84	\$180.58	\$214.16	\$243.20	\$264.07	\$273.14
Residential Unit	R	# of dwelling suits	\$306.00	\$398.00	\$472.00	\$536.00	\$582.00	\$602.00
Other	S	As determined by General Manager	\$5.64	\$7.34	\$8.70	\$9.88	\$10.73	\$11.10
Assembly Hall	T	# of seats	\$2.28	\$2.97	\$3.52	\$3.99	\$4.34	\$4.49
Public Schools	—	per 1,000 gallons	—	\$3.67	\$4.35	\$4.94	\$5.36	\$5.55

All rate schedules will be available for review on our website. Current rates are also available for review online at <https://www.ttsa.ca.gov> in our Ordinance 2-2015. Please contact us with any questions related specifically to your Residential or Commercial property.

**March 31, 2023**  
**NOTICE OF PUBLIC HEARING**  
**TAHOE-TRUCKEE SANITATION AGENCY**

**PROPOSITION 218 NOTICE TO PROPERTY OWNERS  
OF PROPOSED SEWER RATES FISCAL YEARS 2024-2028**



 **About T-TSA**

During the 1960's and 1970's biologists began to recognize that the water quality of Lake Tahoe and the Truckee River was deteriorating. Spurred on by public interest and the concerns of both California and Nevada governmental agencies, the California Legislature enacted the Porter Cologne Water Quality Control Act. One of the mandates of the Act required that all wastewater in the Lake Tahoe Basin be exported for treatment; on May 1, 1972, the Tahoe Truckee Sanitation Agency (T-TSA) was formed to meet this new mandate.

T-TSA's specific mandate is the planning, administering, and coordinating of wastewater treatment and disposal services throughout the north and west shores of Lake Tahoe, the Truckee River corridor (including the communities of Alpine Meadows and Olympic Valley), and Truckee to protect public health and the environment.

The Agency embarked on a program to plan, design, and construct a regional system to accomplish its mandate. The treated wastewater was to be discharged in such a manner as to retain the integrity of ground and surface waters, while ensuring the quantity of water downstream was not diminished. To realize these goals, the Agency constructed:

- Approximately seventeen miles of interceptor pipeline (Tahoe City to the water reclamation plant site, located three miles east of Truckee in the Martis Valley);
- A 4.83 million gallon per day (MGD) advanced wastewater treatment plant; and
- A disposal system consisting of approximately 78,000 feet of underground perforated piping.



The facility began treating wastewater in February 1978 at an original project cost of \$32 million.

Within months of startup, wastewater flows reached 80 percent of the plant's 4.83 MGD capacity. In response, T-TSA initiated efforts to expand the capacity of the treatment facilities to 7.4 MGD. The expanded water reclamation facilities began operation in 1982 at a cost of \$10 million. By late 1997 the facility was again approaching 80 percent of its design capacity. In response T-TSA initiated an expansion project designed to increase overall plant capacity to 9.6 MGD. The new facilities began operation in 2008 at a total program cost of \$75 million.

In March of 2019, with the infrastructure nearing 50 years of age, the Agency initiated a Master Sewer Plan. The goal was to produce a comprehensive document that would guide the Agency over the next 25 years, identifying needed rehabilitation, upgrades, and expansion. The Plan, which was accepted by the T-TSA Board in February of 2022, identified fifty-four projects with an estimated total cost of \$143 million.







## Proposed Rate Changes

T-TSA is committed to fiscal responsibility through sound and prudent financial stewardship. As part of this commitment, T-TSA retained an independent rate consultant, HDR Engineering Inc., to perform a 10-year comprehensive sewer rate study (2022 Sewer Rate Study). The purpose of this study was to evaluate the adequacy of the Agency's current rates, which haven't changed since 2011, and make recommendation for changes, if needed, to meet reserve policy objectives given projected Agency Operation and Maintenance expenses (O&M), as well as Capital Improvement costs based on the Master Sewer Plan and IT Scada Master Plan. The Sewer Rate Study, which was accepted by the T-TSA Board of Directors in March 2023, is available on the T-TSA website at <https://www.ttsa.ca.gov>

The 2022 Sewer Rate Study concluded that due to inflation and shrinking reserves, a rate increase is necessary. The Study recommended annual rate adjustments over the next 10 years to meet anticipated O&M expenses and capital improvements costs. By raising rates, T-TSA will continue to reliably serve the public in accordance with the mandate entrusted to the Agency since 1972. To comply with California Proposition 218, the new rate structure is divided into two (2), five-year phases. This notice is associated with the first five-year rate adjustment (see proposed rate schedule).

The complete Master Sewer Plan, IT Scada Master Plan, and 2022 Sewer Rate Study can be found on our website, <https://www.ttsa.ca.gov> under the Transparency tab.

## How Do I Protest The Proposed Rates?

Any property owner whose property will be subject to the proposed rates, may submit a written protest and/or come to the public hearing and provide verbal testimony. Protests must be in writing to be counted and only one protest will be counted per identified parcel. If a majority of property owners currently receiving sewer service file valid written protests by the end of the public hearing on May 17, 2023, the corresponding sewer rates will not be approved. All protests must:

1. Be in writing and received by the Agency Clerk before the close of the public hearing on May 17, 2023, beginning at 9am.
  - a) Written protests must be mailed or personally delivered to:  
**T-TSA Agency Board Clerk**  
**13720 Butterfield Drive, Truckee, CA 96161**
  - b) Email or facsimile protests will not be accepted
  - c) Protests will not be accepted after the closure of the public hearing
  - d) A form is included with this notice
2. Specifically identify what you are protesting.
3. Identify the affected parcel by the service address and or Assessor's Parcel Number (APN).
4. Include the name and original (wet) signature of the property owner of the service address. If the party signing or presenting the protest is not shown as the parcel owner on the last equalized assessment roll of Placer County, Nevada County, or El Dorado County the protest must contain, or be accompanied by, written evidence that such party is the owner or the tenant.

At the Public Hearing, the T-TSA Board will accept verbal and written testimony, as well as written protests, regarding the proposed rates.

Per California Senate Bill 323, plaintiffs must bring a challenge to new or increased water or sewer rates within 120 days of the effective date or date of final passage, adoption, or approval of the ordinance or resolution adopting the water or sewer rate.



# Carmel Area Wastewater District Prop 218 Proposed Rate Adjustment Protest

You can use this form to register your protest against the proposed wastewater rate adjustment. You can also choose to write a letter to the District, following the requirements below, or appear at the public hearing listed on June 29, 2023 at 9:00 a.m. at the Carmel Area Wastewater District Offices.

## How Can I Participate?

On June 29, 2023, at 9:00 a.m., or as soon thereafter as the matter may be taken up, the Carmel Area Wastewater District (CAWD) Board of Directors will hold a public hearing prior to the adoption of its sewer rates. The hearing will be held at the District Offices located at 3945 Rio Road, Carmel, CA 93923.

Property owners may file a written and signed protest against the proposed increase with the Board of Directors of Carmel Area Wastewater District (CAWD) at or before the close of the public hearing. To be valid, a protest must be in writing even if you plan to attend the public hearing. E-mail protests cannot be formally considered. Each written protest must include the parcel owner's name, service address, assessor's parcel number for the parcel served, and the parcel owner's signature. Only one protest will be counted per parcel. If you own more than one parcel, you may file a single protest, but it must identify each parcel you own. The protest must be signed by the property owner(s). If the signer(s) is not shown on the last equalized assessment roll of Monterey County as the owner(s) of the property, the signer(s) must provide written evidence of ownership of said property. At the hearing, the Board of Directors shall hear all protests and tabulate the ballots.

Protests must be mailed or delivered to the same address as the hearing location. For further detailed information regarding the proposed rate plan, please call James Grover, Principal Accountant, at (831) 624-1248.

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## Use This Form to Protest the Proposed Wastewater Rate Increase

I \_\_\_\_\_ protest this proposed increase to wastewater rates.

Property Address: \_\_\_\_\_

Assessor's Parcel Number: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

If you wish to use this form, please fill out and mail in a stamped envelope to: Board Secretary, 3945 Rio Road, Carmel, CA 93923 or deliver at the above reference public hearing.

## **Information -Discussion Items**

**Carmel Area Wastewater District**  
WWTP Elec/Mech Rehab and Sludge Holding Tank Replacement Project

**Construction Progress Report**

April 11<sup>th</sup>, 2023

Prepared by: Patrick Treanor, Plant Engineer  
Contractor: Clark Bros Inc (CBI)



## Section 1: Project Summary

Project Summary			
General Contractor		Clark Bros Inc	
Contract Value			
Contract Bid Amount		\$7,291,500	
Change Orders Issued to Date		1	
Value Added Change Order Cost <sup>(1)</sup>	% of Bid Amount	\$59,212.57	0.81%
Non Value Added Change Order Cost <sup>(2)</sup>	% of Bid Amount	\$62,928.78	0.86%
Total Change Order Cost	% of Bid Amount	\$122,141.35	1.7%
Current Contract Value		\$7,413,641.35	
Open/Pending Potential Change Orders (PCO)		1	
Contract Time			
Notice To Proceed		September 7 <sup>th</sup> , 2021	
Original Contract Time		550 Calendar Days	
Calendar Days Elapsed		580 Days	
Weather Days: Accepted to Date		5 Days	
Contract Change Order(s) Time Extension		0 Days	
Current Contract Completion Date		March 11 <sup>th</sup> , 2023	
Contract Progress Summary			
Total Project Time Expended		105%	
Total Project Construction Cost Expended		70% (not including retention)	

Notes:

1. Value Added Change Orders include: District Requested Additional Work and Betterments
2. Non Value Added Change Orders include: Design Issues, and Unforeseen/Differing Site Conditions

## **Section 2: Work Performed This Month**

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### **2.1 General**

Work this month focused on installation and setup of the new Motor Control Centers (MCC) for the Influent Pump Station and Headworks. Minor mechanical work continued at the Influent Pump Station, Headworks, and Sludge Tank.

#### **2.1.1 Submittals**

Submittals reviewed this month included the revised critical path schedule. Also, warranty forms were submitted for the new Grit Collector, Bladder Tank, and Sludge Tank Pump. The Temporary Bypass Pumping Plan for the Effluent Building was also submitted.

#### **2.1.2 PLC Programming**

PLC programming by Frisch Engineering is in progress.

### **2.2 Site Work**

#### **2.2.1 Potholing/Locating Existing Utilities**

None.

### **2.3 Sludge Holding Tank Replacement**

Protective coatings application work was conducted this month as well as installation and backfill of a small section of buried piping.

### **2.4 Influent Pump Station Rehab**

The new MCC was installed, tested, and commissioned this month. The first new Influent Pump was also put in service and has begun the acceptance test period. Clark Bros finished welding of remaining stair guardrails and protective coatings were installed on the new rails.

### **2.5 Headworks Rehab**

The new MCC for the Headworks was delivered and installed. Testing and commissioning is planned for later in April. Clark Bros conducted mechanical piping work for a new hose station, grit channel flushing piping, and a new flowmeter for the Equalization Basin return. Clark Bros finished welding of guardrail repair around the Grit Tank and protective coatings were installed on the new rails.

## 2.6 Chlorination Building Rehab/3W System Improvements

No work observed.

## 2.7 Effluent Pump Station Rehab

The plan for the Temporary Bypass Pumping was submitted for review. Some back and forth remains on the plan for temporarily bypassing flow around this station prior to Contractor securing temporary equipment.

### **Section 3: Project Issues**

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On September 1<sup>st</sup>, 2022, Clark Bros notified CAWD that the MCC were experiencing extended delays beyond what was previously anticipated and that the MCC may not be onsite until June of 2023. CAWD sent a notice to Clark Bros on September 7<sup>th</sup>, 2022 stating that CAWD will incur financial loss if the work is not completed in the Contract Time, and reaffirming that there hasn't been a change to the Contract Time stipulated in the Agreement.

Clark Bros has been working diligently with the supplier in getting the MCC onsite without significant delays. The Influent Pump Station MCC was delivered on March 2<sup>nd</sup>, 2023. The Headworks MCC was delivered on March 24<sup>th</sup>, 2023. The Chlorination Building MCC is projected to arrive in mid-May and the Effluent Building MCC is projected to arrive in June.

### **Section 4: RFI and Submittals Review Summary**

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The following table contains a summary of RFI/Clarifications and Submittals to date:

	<b>Total Number Processed</b>	<b>Number Received in Current Month</b>
<b>RFI/Clarifications</b>	52	4
<b>Submittals</b>	172	8

## Section 5: Change Order Summary

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Potential change orders (PCOs) are being generated for differing site conditions, owner requested changes, and design issues.

	Total Number Processed to Date	Open PCO Pending Quote/Approval	Number Generated in Current Month	Total Cost Approved to Date
Potential Change Orders (PCO)	11	0	0	NA
Change Orders	4	0	0	\$122,141.35

## Section 6: Project Schedule and Budget

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### 6.1 Schedule

MCC deliveries have been a moving target and have already delayed the project by about 6 months. Clark Bros submitted a revised schedule in March that reflects the delays to project completion. Clark Bros and CAWD are currently negotiating a potential time extension to account for delays in MCC procurement.

### 6.2 Budget

At this time the approved change orders amount to 1.7% of the project cost. The project management team is continually monitoring the costs of potential changes to manage costs.

Currently the amount to be paid to CBI is 60% (not including retention) of the total approved budget (66% with retention).

## Section 7: Photos

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- Influent Pump Station Rehab
- Headworks Rehab
- Sludge Holding Tank Replacement



Photos:  
Influent Pump Station Rehab







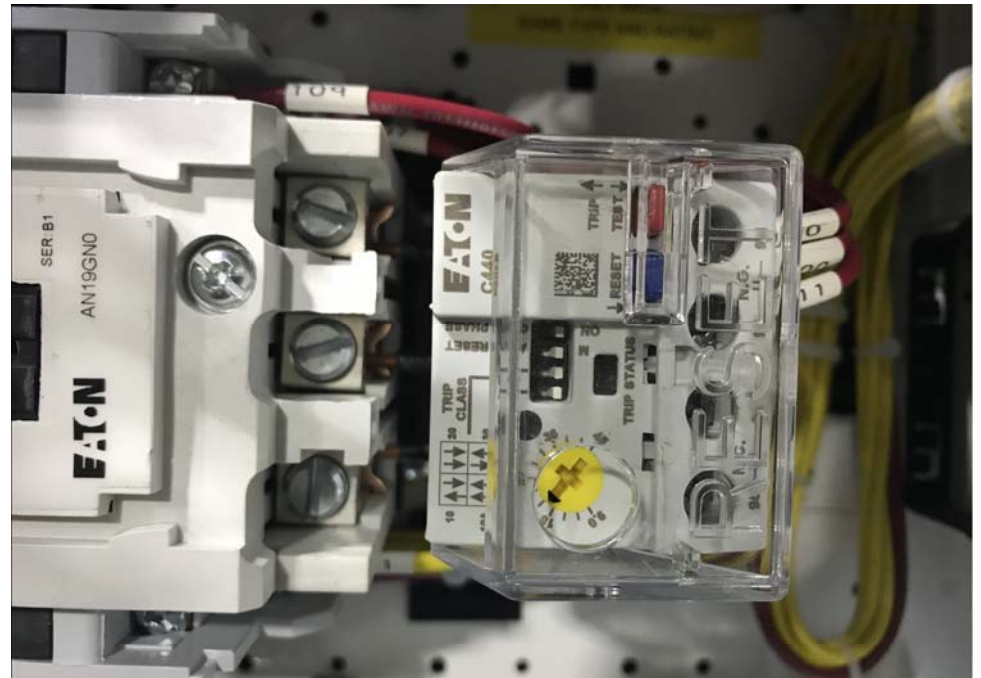


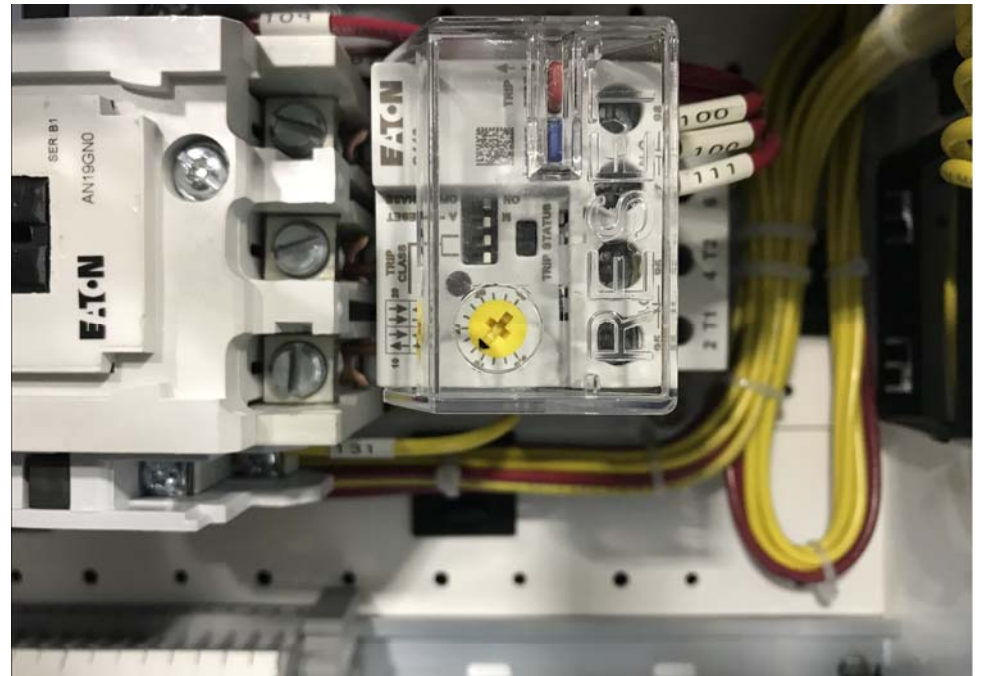










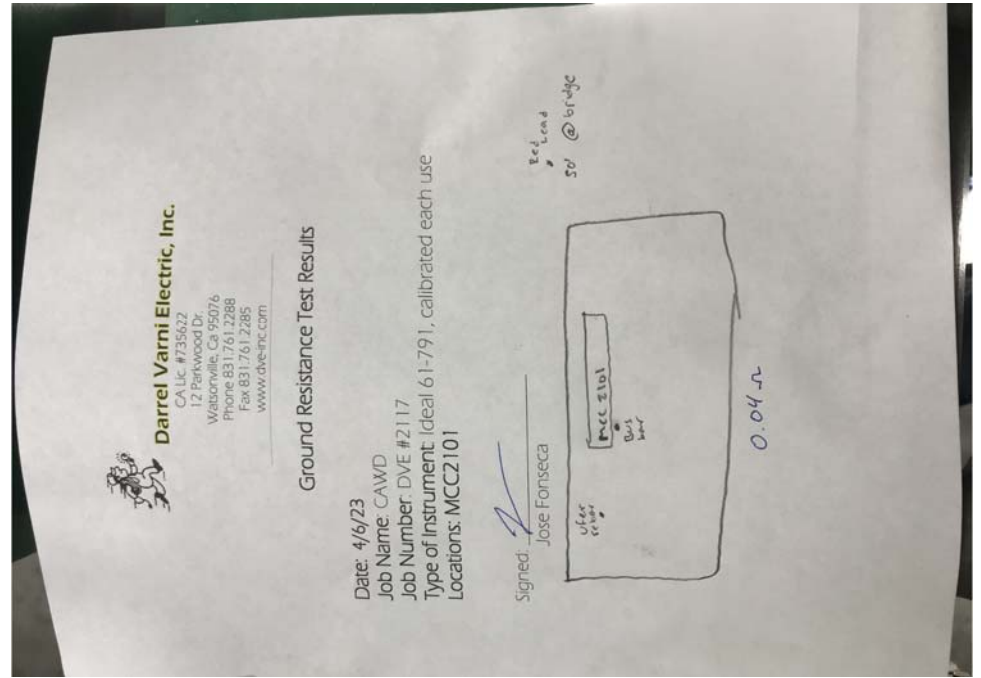












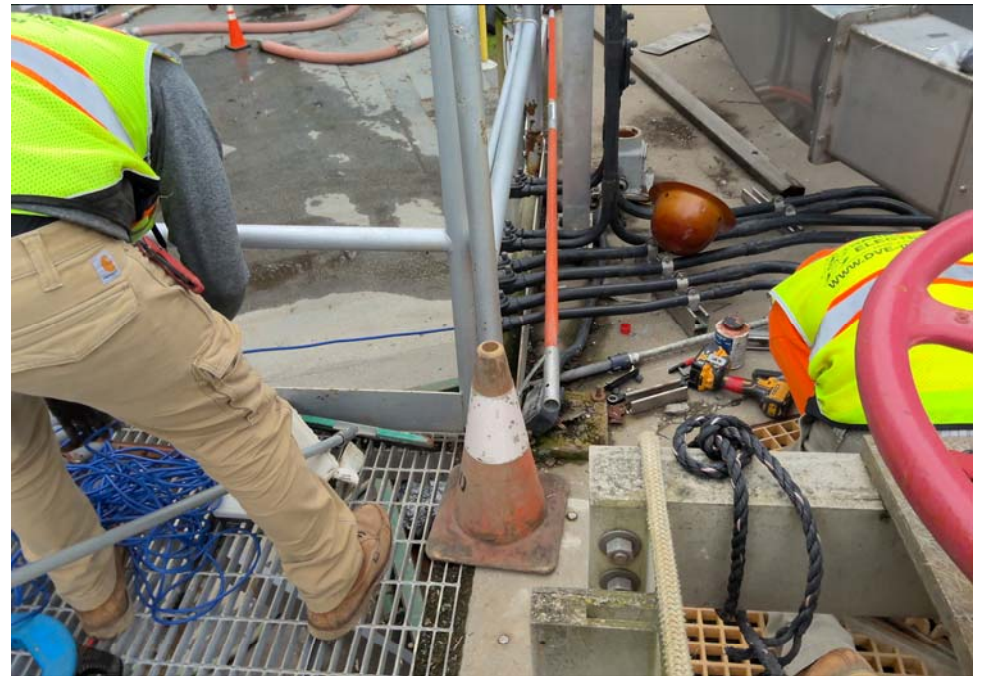
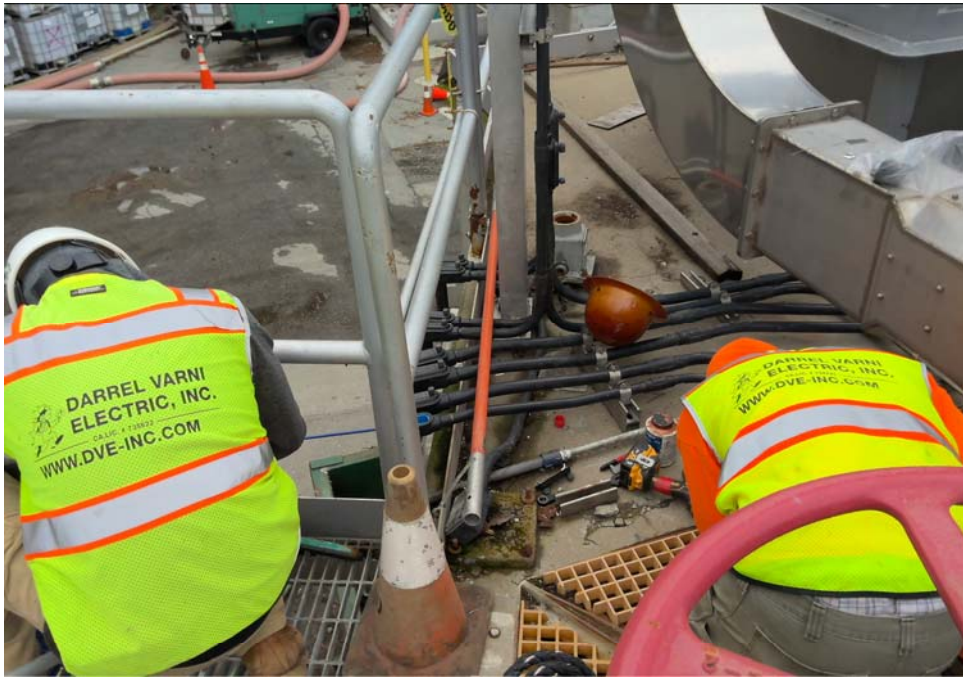








Photos:  
Headworks Rehab



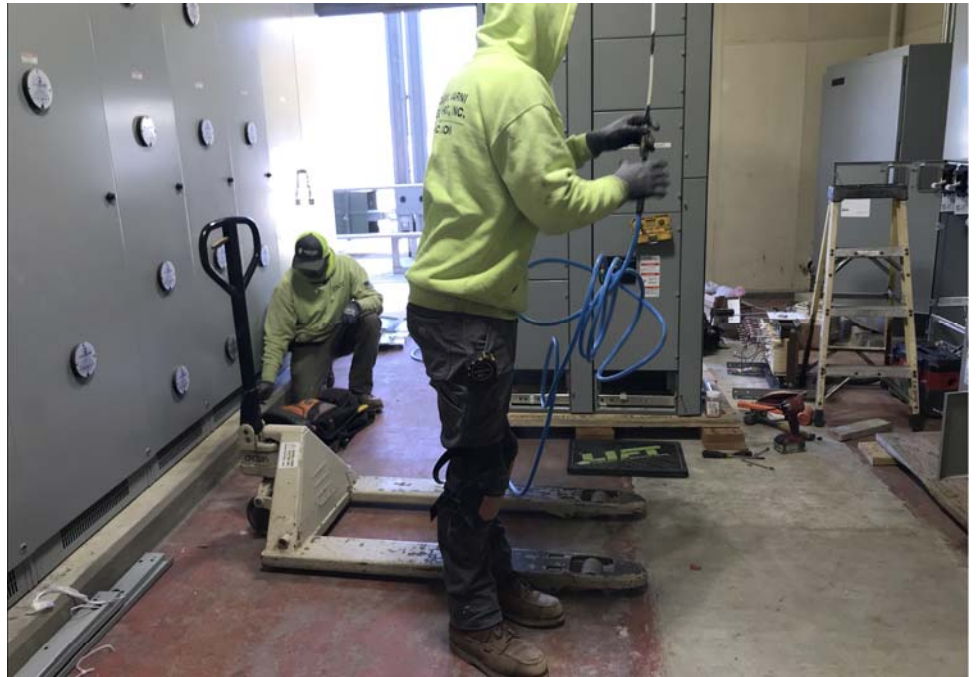


















Photos:  
Sludge Holding Tank  
Replacement





# STAFF REPORT



To: Board of Directors

From: Chris Foley, Maintenance Superintendent

Date: April 27, 2023

Subject: Pebble Beach Community Services District (PBCSD)- Regular Board Meeting on March 31, 2023

## DISCUSSION

Agenda items from March 31, 2023, meeting that are of specific interest to this District:

- Total cash balance at the end of February 2023 was \$30.7M; of that \$5.4M was designated for Capital Acquisition and Outlay Reserves. Property taxes comprise roughly 80% of PBCSD revenues with user fees making up 22% of the total actual cost of wastewater operations.
- Total revenues through February 2023 in the cash-based budget were \$14.9M of the budget. Total expenditures were \$8.0M or 27% of the budget.
- Staff presented the Long-Term Capital Outlay Program to the Board for approval. The anticipated total cost of PBCSD's capital responsibilities amounts to \$73M. The 2023/2024 projected capital costs have increased approximately 9% from the previous year total. Wastewater capital costs have increased by 40% from the previous year, mainly due to the increasing annual allocation for Sewer and Manhole Closed Caption Television Viewing (CCTV) Projects every ten years.
- Approximately 115 million gallons (MG) or 353 Acre Feet (AF) of recycled water is stored in Forest Lake, which represents 100% of permitted capacity. The storage volume is approximately equal to the historic average of 114 MG or 350 AF.
- Average daily wastewater flow of 591,000 gallons per day (GPD) was measured in February at the PBCSD-Carmel gate. This represents 38% of the total flow at the Carmel Area Wastewater District (CAWD) treatment facility. The measured PBCSD flow was 18% above the five-year average of 499,000 GPD for the month of February. The CAWD total flows were 9% above the five-year average of 1,415,000 GPD for February.



- Total irrigation water demand for the 2023 calendar year through February was 6 AF. Total demand for the calendar year is 86% below the 5-year average of 44 AF through February. The month of February reflected a net storage decrease of approximately 1MG.
- PBCSD staff requested a contract change order for \$130K with D'Arcy Harty Construction for additional sewer replacement work on Bird Rock Road and Stevenson Drive, increasing the total contract cost to \$974,725.
- Average daily wastewater flows measured in million gallons per day (MG) show:

<b>MONTH</b>	<b>TOTAL</b>	<b>CAWD FLOW</b>	<b>PBCSD FLOW</b>	<b>PBCSD</b>
Jul – 22	36.043	24.579	11.464	31.806%
Aug -22	35.881	24.412	11.469	31.964%
Sept – 22	33.941	23.173	10.768	31.726%
Oct -22	31.961	22.411	9.55	29.880%
Nov – 22	34.002	22.641	11.361	33.413%
Dec -22	57.963	33.771	24.192	41.737%
Jan -23	81.216	45.825	35.391	43.576%
Feb-23	43.194	26.652	16.542	38.297%
Total	354.201	223.464	130.737	36.910%

## **FUNDING**

Informational item only

# STAFF REPORT



To: Board of Directors

From: Patrick Treanor, Acting General Manager

Date: April 27, 2023

Subject: Special Districts Association of Monterey County Meeting (April 18<sup>th</sup>, 2023)

## RECOMMENDATION

Receive Report - Informational only; no action required.

## DISCUSSION

The meeting was held in person at the Bayonet Blackhorse Golf Course Club House. The following is a summary of speakers and topics presented:

Deputy General Counsel of the California Special Districts Association (CSDA), Mustafa Hessabi

Mr. Hessabi presented on legislative initiatives, the upcoming Legislative Days conference in Sacramento, and a new investment joint powers entity for public agencies called, "California CLASS – Cooperative Liquid Assets Securities System".

- Legislative Initiatives: CSDA is lobbying to eliminate the sunset date on the emergency Brown Act provisions that were established during COVID (AB 2449) that modified the pre-pandemic Brown Act rules (AB 361) such that offsite teleconference locations do not have to be identified on the agenda or accessible to the public during State and local emergencies. The COVID era provisions are set to expire at the end of this year. In any case, the provisions only apply during emergencies.
- Special Districts Legislative Days Conference - May 16<sup>th</sup> and 17<sup>th</sup> in Sacramento: John Laird will be the featured speaker. A chance to exchange ideas with California's top decision-makers.

- California-Cooperative Liquid Assets Securities System (CLASS): A new Joint Powers investment pool set up specifically for California public agencies. The investment pool started in 2022. California CLASS strives to minimize risk by managing its portfolios in a manner that prioritizes principal preservation and only invests in securities that are permitted pursuant to the laws of the state of California.

Executive Officer of the Local Agency Formation Commission (LAFCO) of Monterey County, Kate McKenna.

Ms. McKenna reported on higher profile activities LAFCO is currently involved in. These include:

- Lawsuit brought by Monterey Peninsula Water Management District (MPWMD): MPWMD is challenging the LAFCO decision to deny activation of latent powers to provide potable water production and distribution services.
- Greenfield and Soledad Annexations: LAFCO is reviewing applications from both the cities of Greenfield and Soledad who are each seeking to annex surrounding areas into their respective cities.

Other Items discussed during the meeting included:

- A new Special District Association local chapter is forming in Santa Cruz county.
- Difficulties that small Districts in remote areas have with meeting certain State requirements, and the need for hardship provisions.
- At-large representation in contrast with electoral districts.
- Potential change to rules for public agency websites requiring “.gov” domain names. This may not happen, but it is being discussed at the State level.

**CARMEL AREA WASTEWATER DISTRICT  
SUMMARY OF RETIREMENT PENSION PLAN TRUSTEES  
MEETING HELD – APRIL 10, 2023**

A meeting of the Retirement Pension Plan Trustees was held on Monday, April 10, 2023 at 10:00 a.m.

Those Present Included: Rob Wellington, Legal Counsel, Trustee  
Robert Siegfried, Director, Trustee  
Kevan Urquhart, Director, Trustee  
Barbara Buikema, General Manager, Trustee  
Patrick Treanor, Plant Engineer

Note: This meeting was held via ZOOM software

**Discuss fixed income investment tactics of several example state pension funds.**

The committee reviewed the handouts of various state pension funds fixed income portfolios. Summary point was that trustees are responsible to employees and the rate payers. The District is risking principal by investing in bond funds while individual treasury bonds held to maturity do not risk principal and provide guaranteed rate of return. The CAWD pension plan fund purchased two rounds of short duration (6-month) Treasury Bills in the second half of 2022.

Recommendation:

- Formulate a strategy for fixed income investments moving forward. This strategy will consider divesting from bond funds in favor of notes and bills.
- Allow Mr. Hastie to explain his portfolio position, and historical portfolio annualized returns.
- Consider evaluating investment advisors via RFP process.

There being no further business, the meeting was adjourned at approximately 11:00 a.m.

Respectfully submitted,  
Barbara Buikema, General Manager

# STAFF REPORT

To: Board of Directors  
From: Patrick Treanor, Acting General Manager  
Date: April 27, 2023  
Subject: Six Sigma Source Control Presentation



## RECOMMENDATION

Receive Report- Informational only; no action required

## DISCUSSION

During the meeting CAWD staff will conduct a slide show presentation. The presentation slides are posted under separate cover.

# STAFF REPORT

To: Board of Directors  
From: Chris Foley, Superintendent of Maintenance  
Date: April 27, 2023  
Subject: Cyber Security Presentation



## RECOMMENDATION

Receive Report- Informational only; no action required

## DISCUSSION

During the meeting CAWD staff will conduct a slide show presentation. The presentation slides are posted under separate cover.

# **Announcements on Subjects of Interest to the Board Made by Members of the Board or Staff**

**PBCSD Board Public Meeting Notice & Agenda – The next PBCSD meeting is scheduled for:**

Friday, April 28, 2023, at 9:30 a.m. – Director Siegfried is scheduled to attend.

Friday, May 28, 2023, at 9:30 a.m. – Director Urquhart is scheduled to attend.

**Special Districts Association of Monterey County – The next SDA meeting is scheduled for:**

Tuesday, July 18, 2023, at 6:00 p.m. – President White & Director Rachel are scheduled to attend.

Tuesday, October TBD, 2023, at 6:00 p.m. – President White & Director Rachel are scheduled to attend.

**Reclamation Management Committee (RMC) Meeting – The next RMC meeting is scheduled for:**

Tuesday, May 9, 2023, at 9:30 a.m. President White and Director Rachel are scheduled to attend.

# Adjournment