



**METRO TAC AGENDA**  
**(Technical Advisory Committee to Metro JPA/Commission)**

**TO:** MetroTAC Representatives

**CC:** Metro JPA Directors (for information only)

**DATE:** October 16, 2024

**TIME:** 11:00 a.m. to 1:30 p.m.

**LOCATION:** Metro TAC is holding its October meeting via Zoom. An e-mail containing information on how to participate in the meeting will be distributed to the Metro TAC members e-mail list consisting of the appointed Primary and Alternate for the Participating Agency and approved San Diego City Staff. Please remember, MetroTAC is NOT a public meeting so please do not distribute the meeting link.

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1. **ACTION:** Review and Approve MetroTAC Action Minutes for the Meeting of September 18, 2024 (**Attachment**)
  2. **PRESENTATION:** SARA: Pretreatment and Administrative Agreements (Adriana Ochoa)
  3. **ACTION:** Consideration and Possible Action to Recommend to the Metro Wastewater JPA Approval of the First Amendment to the Agreement with CDM Smith Inc. for Preparation of the Public Utilities Department Integrated Master Plan (Anh Nguyen) (**Attachment**)
  4. **INFORMATION:** Fourth Quarter CIP Update (Melissa Faber) (**Attachment**)
  5. **UPDATE:** Metro Wastewater (General) (Standing Item) (Lisa Celeya)
  6. **UPDATE:** Pure Water Program Update (Standing Item) (Amy Dorman/Doug Owen)
  7. **UPDATE:** Metro Wastewater Financial (Standing Item) (Adam Jones)
  8. **UPDATE:** JPA Executive Director (Standing Item) (Karyn Keze) (**Attachment**)

9. **UPDATE:** Metro Commission/JPA Board Meeting Recap (Standing Item) (Blake Behringer)
10. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**November 7, 2024**)
11. Other Business of Metro TAC
12. Adjournment ([To the next Regular Meeting](#) **November 20, 2024**)

**Metro TAC 2024 Meeting Schedule**

January 17	May 15	September 18
February 21	June 19	October 16
March 20	July 17	November 20
April 17	August 21	December 18



## **MetroTAC**

(Technical Advisory Committee to Metro JPA/Commission)

### **ACTION MINUTES**

**DATE OF MEETING:** September 18, 2024

**TIME:** 11:00 AM

**LOCATION:** ZOOM Electronic Meeting

#### **MEETING ATTENDANCE:**

##### **Members Present**

Michael Benozza, Chula Vista  
Leon Firsht, Coronado (absent)  
Joe Bride, Del Mar (absent)  
Blake Behringer, El Cajon  
Eric Minicilli, Imperial Beach  
Joe Kuhn, La Mesa  
Izzy Murguia, Lemon Grove  
Carmen Kasner, National City  
Beth Gentry, Otay WD  
Peejay Tubongbanua, Padre Dam MWD  
Alisa Nichols, Poway  
Sumedh Bahl, County of San Diego  
Anthony Hooper, County of San Diego

##### **San Diego City Staff/Consultants**

Lisa Celaya, City of San Diego  
Edger Patino, City of San Diego  
Amy Dorman, City of San Diego  
Tracy Mangum, City of San Diego  
Eric Rubalcava, City of San Diego  
Shadi Sami, City of San Diego  
Catherine Duncan, City of San Diego  
Nicole Roesler, City of San Diego  
Akram Bassyouni, City of San Diego  
Reyhaneh Martin, City of San Diego  
Jeff Soriano, City of San Diego  
N. Fathullah, City of San Diego  
E. Lotfi, City of San Diego

##### **JPA Staff/Consultants Present**

Karyn Keze, Executive Director, Keze Group  
Scott Tulloch, NV5  
Dexter Wilson, Dexter Wilson Engineering  
Kathleen Noel, Dexter Wilson Engineering  
Lee Ann Jones-Santos, Metro JPA Treasurer  
Lori Anne Peoples, Metro JPA Board Secretary

##### **San Diego Consultants**

Doug Owen, Stantec  
Ben Stewart, Stantec

#### **1. ACTION: Review and Approve MetroTAC Action Minutes for the Meeting of August 21, 2024**

**ACTION:** Motion by Sumedh Bahl, seconded by Eric Minicilli the minutes be approved.  
Motion carried unanimously.

2. **ACTION: Consideration and Possible Action to Recommend to the Metro JPA/Commission Approval of a Contract for Pump Station 1 Improvements and Modernization with J.R. Filanc Construction Company, Inc.**

Ms. Shadi Sami, City of San Diego, introduced the item. Eric Rubalcava, City of San Diego provided a brief verbal overview of his presentation, included in the agenda package. Dexter Wilson, Dexter Wilson Engineering, Metro JPA Consultant, provided a brief verbal overview of his presentation provided in the agenda package.

Eric Rubalcava stated he would provide a specific list of improvements to Peejay Tubongbauna of Padre Dam as requested.

Lisa Celaya, City of San Diego stated that any future Metro CIP will include a representative appointed by the Metro JPA such as Dexter Wilson, on the selection panel for the item.

**ACTION:** Motion by Carmen Kasner, seconded by Eric Minicilli, to recommend approval to the Metro JPA/Commission with the addition of the inclusion of a Metro Representative to be included in any value engineering team for City Projects. Motion carried unanimously.

3. **ACTION: Consideration and Possible Action to Recommend to the Metro Wastewater JPA Approval of FY 2024 Year-End Financial Statements**

Lee Ann Jones-Santos, Metro JPA Treasurer, provided a brief verbal overview of her presentation included in the agenda package. She noted that this was an unaudited Treasurers Report ending June 30, 2024. A potential correction was noted that the ending balance of \$340,837 appeared incorrect in the Statement of Cash Flows ending June 30, 2024.

**ACTION:** Motion by Izzy Murguia, second by Peejay Tubongbauna, to recommend approval with a correction to the ending balance, to the Metro Wastewater JPA.

Treasurer Jones-Santos requested this item be trailed to allow for her review of the figures.

**Item 4 was heard at this time.**

After reviewing the Treasurer's Report, Treasurer Jones-Santos stated that no changes were necessary. She clarified that the discrepancy between total assets and liabilities versus cash on hand is simply due to differences in accounting format and what composes the two numbers.

**ACTION:** Izzy Murguia and Peejay Tubongbauna retracted their original motion and moved to recommend approval to the Metro Wastewater JPA as submitted. Motion carried unanimously.

4. **ACTION: Consideration and Possible Action to recommend to the Metro Wastewater JPA Approval of Phase 2 Planning Alternatives**

Dexter Wilson provided a brief verbal overview of his presentation included in the agenda package, which included an overview of the letter to be sent to the City of San Diego for finalization. Input was received and Dexter will amend the final letter for presentation to the JPA.

**ACTION:** Motion by Beth Gentry, seconded by Peejay Tubongbauna, to approve the letter as amended. Motion carried unanimously.

**Executive Director Keze requested a return to Item 3 at this time.**

5. **ACTION: Pure Water Program Semi-Annual Update**

Amy Dorman, City of San Diego, assisted by Akram Bassyouni, provided a brief overview of their presentation included in the agenda package.

Akram Bassyouni, City of San Diego, provided an overview of his presentation provided in the agenda package.

- a. **ACTION:** Consideration and Possible Action to Recommend to the Metro Wastewater JPA Approval of Pure Water Program – Construction Change Order No. 12 with Kiewit Infrastructure West Co. for North City Water Reclamation Plant Expansion (K-21-1861-DBB-3)

**ACTION:** Motion by Sumedh Bahl, seconded by Michael Benozza, to approve the letter as amended. Motion carried unanimously.

Akram Bassyouni, City of San Diego, provided an overview of his presentation provided in the agenda package.

- b. **ACTION:** Consideration and Possible Action to Recommend to the Metro Wastewater JPA Approval of Pure Water Program – Amendment No. 3 the Agreement with CH2M Hill Engineers, Inc. for Design Engineering Services for the North City Water Reclamation Plant Expansion, and Influent Conveyance Project.

**ACTION:** Motion by Sumedh Bahl, seconded by Michael Benozza, to approve the letter as amended. Motion carried unanimously.

Amy Dorman, City of San Diego, provided an overview of her presentation provided in the agenda package.

- c. **ACTION:** Consideration and Possible Action to Recommend to the Metro Wastewater JPA Approval of Pure Water Phase 1 CIP Budget – Increase Pooled Contingency

**ACTION:** Motion by Michael Benozza, seconded by Sumedh Bahl, to approve the letter as amended. Motion carried unanimously.

**6. UPDATE: Metro Wastewater (General) (Standing Item)**

Lisa Celaya, City of San Diego stated that the City had won in the Appeals Court and Appellate Court against SDG&E. It is anticipated they will file with the Supreme Court; however, SDG&E has written a check for \$35.7 Million but the City will have to wait until determination of the Supreme Court.

**7. UPDATE: Pure Water Program Update (Standing Item)**

a. Quarterly Contractors Report

Doug Owen of Stantec provided a brief verbal update of his presentation included in the agenda package. He noted that they were over 60% complete with construction and close to 2/3 of the way through.

**8. Metro Wastewater Financial (Standing Item)**

Adam Jones, City of San Diego was not present, so his item was continued to the next meeting.

**9. JPA Executive Director (Standing Item)**

Executive Director Keze noted that her written report was included in the agenda package. She provided a couple of highlights, the Strategic Planning Ad Hoc had their 1<sup>st</sup> meeting and the technical group of Directors was extremely impressed with the progress. The 2<sup>nd</sup> meeting will be next week. There are a total of 4 meetings scheduled and the goal is to have a DRAFT available in November. She thanked everyone who responded to the questionnaire that had been sent out.

**10. Metro Commission/JPA Board Meeting Recap (Standing Item)**

MetroTAC Chair Alisa Nichols stated that there had not been a September Metro JPA meeting. Further, she stated that neither she nor Peejay had been able to attend the Regional Wastewater meeting.

**11. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (October 3, 2024)**

JPA Executive Director Keze stated that Items 2,3, 4 & 5 would move forward to a Metro JPA/Com meeting. She noted that there was an overabundance of items since the JPA/Com had not met in September and that a determination will be made with the Chair as to what will need to be continued to the November JPA/Com meeting.

**12. Other Business of Metro TAC**

There was none.

14. **Adjournment** (To the next Regular MetroTAC Meeting October 16, 2024)

MetroTAC Chair Alisa Nichols adjourned the meeting at 1:37 p.m.

## Public Utilities Department

### Item #3: First Amendment to the Agreement with CDM Smith Inc. for Preparation of the Public Utilities Department Integrated Master Plan

Metro TAC  
October 16, 2024



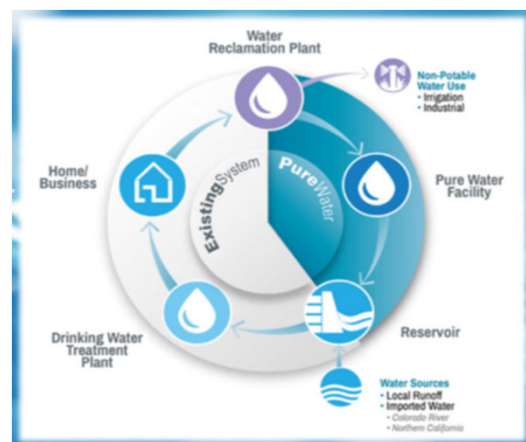
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## SD Public Utilities Department

### PUD Integrated Master Plan Scope

Comprehensive, long-term planning document that outlines strategies and prioritizes projects across all utility areas

- Changes in water needs, system modifications, and the transition to a complete water cycle through the Pure Water Program.
- Roadmap to ensure system can meet current and future demands, maintain regulatory compliance, maintain resilient infrastructure, and support sustainable growth.
- Focus on the repair and rehabilitation of utilities to maximize the useful life of major assets and existing infrastructure.
- Authorized CDM Smith Inc. to prepare a combined master plan that looks at the department's needs holistically, across all utilities.



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## Data Gap - Proposed Contract Amendment

- Some assets missing from SAP/EAM (dams/reservoirs, groundwater, misc. across most vertical facilities)
- Assets in SAP/EAM missing key information and critical attributes required to assess risk
- Functional Asset Hierarchy needs correcting and updating
- Complete Master Asset List needed to enable preparation of the PUD priority list of projects



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## Amendment

- Extend the duration of the agreement to perform a visual inventory of all assets necessary to complete the remaining tasks in the contract
- Scope:
  - Update Functional Location hierarchy
  - Remove records of non-existing assets
  - Create new assets in SAP
  - Complete a visual assessment and rating of assets
  - Populate all available attributes for assets
  - Assemble all data for bulk uploading by City staff

### Contract:

- Additional twenty-eight (28) months and an amount of \$1,472,934
- Metro JPA Share - \$145,820 (33% of \$441,880)
- Total sixty (60) months and an amount of \$5,254,501



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## Proposed Actions

1. Authorize the Mayor, or designee, to execute the First Amendment with CDM Smith Inc., to increase the not to exceed amount by \$1,472,934 from \$3,781,567 to \$5,254,501 and to extend the contract expiration date from July 2025 to December 2027; and
1. Authorize the Chief Financial Officer to expend an amount not to exceed \$1,472,934 in total, of which \$338,774.82 is from Fund 700000, Muni Sewer Revenue, \$441,880.20 from Fund 700001, Metro Sewer Utility, and \$692,278.98 from Fund 700011, Water Utility Operating, for the purpose of funding the First Amendment to the engineering services agreement with CDM Smith, Inc.

Question?



**METRO JPA/TAC**  
**Staff Report**  
**Date: 10/16/2024**

**Project Title:**

First Amendment to the Agreement with CDM Smith Inc. for Preparation of the Public Utilities Department Integrated Master Plan

**Presenter(s) Name:** Anh Nguyen

**Presenter(s) Title:** Senior Civil Engineer (City of San Diego Public Utilities Department)

**Requested Action:**

Consideration and Possible Action to Recommend to the Metro Wastewater JPA  
 Approval of the First Amendment to the Agreement with CDM Smith Inc. for Preparation of the Public Utilities Department Integrated Master Plan

**Recommendations:**

Approve the Metro expenditure request and forward to the Metro Commission.

Metro TAC:	To be submitted for consideration
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	N/A

**Fiscal Impact:**

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	Total: \$1,472,934 Muni: \$338,774.82 Metro: \$441,880.20 Water: \$692,278.98

Fiscal impact to the Metro JPA:	33% of Metro costs is \$145,820.40
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**Capital Improvement Program:**

New Project?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Existing Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Upgrade/addition <input type="checkbox"/> Change <input type="checkbox"/> N/A <input type="checkbox"/>

**Previous TAC/JPA Action:**

N/A

**Additional/Future Action:**

**City Council Action:**

Environmental Committee for October 2024.  
City Council for November 2024.

**Background:** *Provide background information on the need for the project*

An Integrated Master Plan is a comprehensive, long-term planning document that outlines strategies for managing and developing water and wastewater infrastructure. It provides a roadmap to ensure systems can meet current and future demands, maintain regulatory compliance, and support sustainable growth. Historically, the Public Utilities Department (PUD) prepared separate planning documents for each major water and wastewater asset. While this approach has worked in the past, significant changes in water needs, system modifications, and the transition to a complete water cycle through the Pure Water 2 Program require a more integrated and holistic approach to utility master planning. Additionally, with our aging infrastructure, there is an increased focus on the repair and rehabilitation of utilities to maximize the useful life of major assets and existing infrastructure.

A contract amendment is necessary to support the subtasks underway and requires additional time and funding for completion. The amendment will provide funding and time to complete a necessary inventory of all PUD assets identified within the Integrated Master Plan, with a focus on vertical assets, such as pump stations and plants. This work is essential to develop a complete asset inventory and perform visual assessments. Through the consultant's work since contract initiation, it has been discovered that key information required to assess risks for many vertical assets and the components therein, were incomplete, for water treatment plants, wastewater treatment plants, pump stations, reservoirs, and storage tanks. PUD also has thousands of horizontal assets of which sufficient information is known on condition to inform planning efforts. The additional information for vertical assets is necessary to complete tasks within the Integrated Master Plan. An accurate inventory, including photos, identification tags and visual inspection notes will be compiled and entered into the City's asset management database allowing for replacement of components based on current condition and risk scoring, to extend the asset's useful life. This information is needed not just for the integrated planning effort but also to be integrated into existing asset management schedules and maintenance work.

**Discussion:** *Provide information on decisions made to advance the project*

On December 6, 2022, the City of San Diego issued the Notice to Proceed memo for the initial agreement with CDM Smith Inc. Under the amendment with CDM Smith Inc., the following task will be modified for the additional time and funding:

Task 14 – Visual Asset Inventory and Inspection for PUD Facilities. This task requires an additional twenty-eight (28) months and an amount of \$1,472,934 to complete. The amendment includes performing a field inventory of all missing vertical assets at PUD facilities. Within each facility there are multiple assets that are unaccounted for or require additional information to accurately inventory assets and assess risk. It is estimated that over 15,000 components will need verification to complete the master planning tasks in the original contract.

**Bid Results:** *If bidding was done provide bidding format and results*

The Request for Proposal (RFP) was advertised on May 13, 2021. Two firms (HDR & CDM Smith, Inc.) submitted their proposal. The two firms were then interviewed. After the review of the proposal and interview, CDM Smith, Inc. was selected to provide the service.

The scope of the Integrated Master Plan is to prepare a comprehensive master plan that will identify areas where current planning efforts for one utility area impact other utility areas in addition to presenting a detailed focus on needed repair, rehabilitation, and renovation projects for existing infrastructure.

The total original contract amount is \$3,781,567.



THE CITY OF SAN DIEGO

**M E M O R A N D U M**

DATE: October 16, 2024

TO: Metro Technical Advisory Committee (Metro TAC)

FROM: Keli Balo, Deputy Director, Public Utilities Department

SUBJECT: FY2024 Capital Improvements Projects (CIP) Report – 4th Quarter

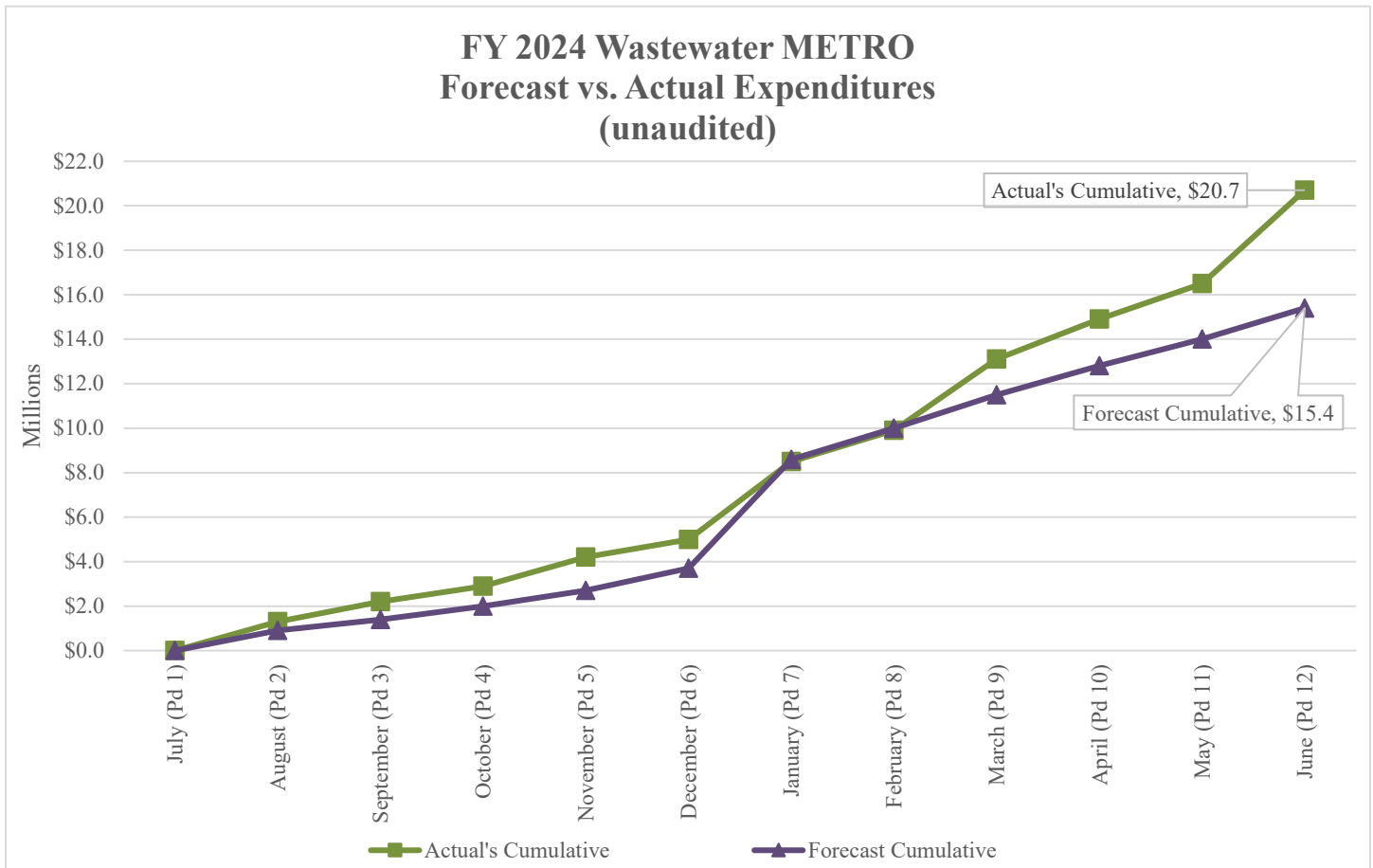
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The Public Utilities Department hereby submits the FY2024 CIP updates for the period of April 1, 2024 through June 30, 2024.

The report includes the following:

- Forecast Versus Actual Expenditures Figure
- Wastewater Projects Expenditure Table

## FORECAST VERSUS ACTUAL EXPENDITURES UPDATE



The forecasted vs actual expenditure graph above shows an over-expenditure of about \$5.3M due to the ongoing construction of the Stormwater Diversion at the MBC and the Stormwater Diversion at the SBWRP. These projects are making good progress (no delays). Therefore, the actual expenditures (\$4.7M and \$2.6M, respectively) exceeded the projected expenditures (\$136K and \$1.4M, respectively).

**WASTEWATER PROJECTS**

FY 2024 - 4th Quarter (April 1, 2024 to June 30, 2024)

NOTE: Wastewater projects are separated into Metro and Muni/Metro

WASTEWATER PROJECTS										Design Phase		Construction Phase		
WBS	Project Name	Status	Estimated Total Project Cost	Project to Date Expenditures FY24, Pd 12	Encumbrance at FY24, Pd 12	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Project Cost)	Actuals (FY 24 Pd 1-Pd 12)	Projected Expenditures (FY 24 Pd 1-Pd 12)	Design Start	Design Finish	Baseline BO/BU	Current BO/BU	BO/BU Variance
<b>METRO</b>														
<b>LARGE SEWER PUMP STATIONS</b>														
B24150	<b>Pump Station 2 Emergency Repair</b> Emergency repair of several critical components for the proper operation of Pump Station 2. Scope of work includes but is not limited to replace traveling mechanical screen, remove and overhaul 2 traveling mechanical screens, replace bypass channel screen and replace liquid rheostat cooling water circulation lines.	Design	\$4,800,000	\$23,341	\$0	\$4,776,659	0.49%	\$23,341	\$0	5/2/2024	5/2/2024	11/6/2024	11/6/2024	0
B22032	<b>PQPS VFD Replacement Project</b> Existing four (4) Toshiba VFD's need to be removed and replaced with updated Schneider Altivar Active Front end 500hp VFD's to match the 2 new existing VFD's. This includes demolishing the old system, repulling new wires as necessary, installing the new VFD's, integrating the new VFD's into the DCS system and starting the new system up.	Design	\$1,352,744	\$212,926	\$11,930	\$1,127,888	15.74%	\$49,041	\$275,894	12/22/2021	7/31/2024	2/23/2024	7/29/2024	157
B22035	<b>PQPS Gas Sensor Replacement</b> Two (2) existing gas sensors need to be removed and replaced with updated gas sensors and controllers. This includes demolishing the old system, re-pulling new wires, installing the new sensors and controllers, integrating the new sensors into the DCS system and starting the new system up.	Design	\$594,679	\$321,967	\$12,521	\$260,191	54.14%	\$139,871	\$360,000	12/22/2021	7/31/2024	11/29/2023	7/30/2024	244
B23140	<b>Pump Station 2 Sluice Gate 2 Emergency</b> Scope of work includes the repair of failed sluice gate 2 at pump station 2.	Construction	\$1,200,000	\$630,342	\$347,464	\$222,194	52.53%	\$627,819	\$0	3/15/2023	3/15/2023	4/30/2024	7/1/2024	62
S00312	<b>Pump Station 2 Power Reliability &amp; Surge Protection</b> Improve power reliability and provide standby power at the pump station, thus protecting against surges during outages and ultimately preventing sewage spills.	Construction	\$76,100,800	\$70,122,564	\$3,643,971	\$2,334,264	92.14%	\$2,081,396	\$2,893,800	2/1/2011	9/20/2016	10/20/2021	12/31/2024	1168
L24000.1	<b>Pump Station 1 Improvement and Modernization</b> Upgrade mechanical screens, rehab wet well #1 and #2, replacement of pumps, rotating assembly, and motors. Replacement of existing motors starters and Liquid Rheostats with Variable Frequency Drives (VFD), replacement of suction pipes, replacement of (6) 48-inch suction gate valves, replacement of (6) 36-inch discharge gate valves, replacement of 30-inch pump cone valve actuators, replacement of venturi flow meters with new modern flow meter and design and installation of new pump bypass system.	Design	\$111,000,000	\$783,955	\$103,510	\$110,112,536	0.71%	\$783,955	\$0	2/24/2022	8/2/2024	4/17/2026	7/21/2026	95



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WBS	Project Name	Status	Estimated Total Project Cost	Project to Date Expenditures FY24, Pd 12	Encumbrance at FY24, Pd 12	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Project Cost)	Actuals (FY 24 Pd 1-Pd 12)	Projected Expenditures (FY 24 Pd 1-Pd 12)	Design Start	Design Finish	Baseline BO/BU	Current BO/BU	BO/BU Variance
L24000.2	<b>Pump Station 2 Improvement and Modernization</b> Repair liner and concrete in influent channel, replace corroded top supports for mechanical screens 1 through 4, rehab wet well #1 and #2, repair cooling tower pads, pipes, and pipe supports. Rehab 7 of 8 pumps except #4 and upgrade pump packed seal to mechanical seal, replacement of liquid rheostat with variable frequency drives (VFD), refurbishment/replacement of all suction valves, refurbishment/replacement of all discharge valve, replacement of suction pipes for pump #2.	Design	\$13,736,000	\$137,808	\$0	\$13,598,192	1.00%	\$137,808	\$0	2/24/2022	12/30/2025	6/26/2026	11/1/2027	493
<b>SEWER TREATMENT PLANTS</b>														
B20137	<b>PLWTP Scum Injection Concentrators Improvements</b> Remove existing scum concentrators and replace with scum screens, a decanter and associated piping so that the scum can be injected into the digesters.	Design	\$3,357,302	\$381,898	\$469,126	\$2,506,279	11.38%	\$77,780	\$32,837	8/13/2020	1/13/2027	4/19/2024	2/9/2026	661
B20121	<b>MBC Gas Detection System Replacement</b> Replace the existing gas sensors with the most up-to-date gas sensors and ensure compatibility with the existing system.	Construction	\$5,691,771	\$3,827,622	\$1,736,022	\$128,128	67.25%	\$2,778,736	\$137,486	8/13/2020	3/28/2023	12/29/2023	8/9/2024	224
B19066	<b>SBWRP Variable Frequency Drive Repl</b> Remove and replace two 600 HP Variable Frequency Drive and one 200 HP Variable Frequency Drive at the South Bay Wastewater Treatment Plant.	Post Construction	\$1,359,792	\$988,992	\$76,596	\$294,204	72.73%	\$72,618	\$283,655	1/29/2020	4/2/2020	8/31/2020	4/12/2023	954
B20122	<b>SBWRP Reverse Osmosis System</b> Remove two existing trailer mounted Electrodialysis Reversal (EDR) units and replace the entire EDR system with a two new slab mounted Reverse Osmosis Units.	Design	\$10,700,000	\$1,700,257	\$291,087	\$8,708,656	15.89%	\$760,242	\$240,000	9/18/2020	11/4/2024	12/17/2024	6/30/2026	560
B20148	<b>NCWRP - Chiller Replacement</b> Replace three (3) chillers and two (2) cooling towers, including the integration into the Distributed Controls System (DCS) at North City Water Reclamation Plant. This project also includes the installation of 65 Linear Feet (LF) of 12-inch Ductile Iron (DI) pipe and 35 LF of 16-inch DI pipe.	Design	\$3,705,121	\$513,616	\$38,803	\$3,152,702	13.86%	\$132,551	\$27,919	9/1/2020	8/28/2024	9/30/2022	4/10/2025	923
B24113	<b>PLWTP Sludge Pump Replacement</b> Remove and replace four (4) existing sludge pumps at the Point Loma Wastewater Treatment Plant. In addition, the existing pump foundation will be reinforced to support the new pumps within the basement of the sludge pump station building.	Pre-Design	\$6,400,000	\$56,829	\$0.00	\$6,343,171	0.89%	\$56,829	\$0	7/1/2024	2/20/2026	TBD	TBD	TBD
B21148	<b>MBC Gallery Pipeline Replacement</b> Replace approximately 2,705 LF (0.51 mi) of existing recycled and process waterlines with epoxy-lined pipes and metallicly similar fittings. Install new intake pressure-reducing manifolds and increase the number of isolation valves. No ADA curb ramps on this project.	Design	\$2,075,000	\$742,191	\$16,225	\$1,316,584	35.77%	\$336,774	\$0	9/23/2021	1/10/2025	9/30/2024	9/16/2026	716

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FY 2024 - 4th Quarter (April 1, 2024 to June 30, 2024)

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B23003	<b>MBC 76 Transformer Replacement Emergency</b> Scope of work includes but is not limited to the repair/replacement of electrical equipment identified as 76 USSA-B and 76 USSA-A. Scope of work includes the replacement of Busing and insulators, transformers, ground fault relays and associated current transformers.	Construction	\$2,832,313	\$1,281,034	\$220,090	\$1,331,189	45.23%	\$1,027,166	\$2,169,818	8/13/2021	8/13/2021	12/13/2023	7/1/2024	201
B23021	<b>MBC Operations Blding Roof Repl</b> This project is located approximately 20 miles north of downtown San Diego, off Convoy St via Fwy 52 west Miramar Kearny Mesa Community. MBC Operations Building is part of Council District 6 constructed in the mid 1990's under the Clean Water Program. The roof both 2 levels are leaking during rain events. Some of the leaks are in the maintenance side of the operations Building and roof above electrical boxes and conduits. The roof is about 24 years old, and some areas are in poor condition.	Design	\$2,852,804	\$507,308	\$1,589,976	\$755,520	17.78%	\$442,923	\$3,854,955	12/1/2022	10/9/2023	2/15/2024	12/4/2024	293
<b>TRUNK SEWERS</b>														
B24090	<b>North/South Metro Interceptor Manhole Rehab</b> Repair and rehabilitation of 9 existing access structures of the North and South Metropolitan Interceptors. This includes wall restoration, concrete collar repair, break-in lateral spot repair, securing manhole bolt hole tap, manhole slab repair, manhole cover replacement at grade, trimming, repairing, and patching liner inside the manhole.	Design	\$1,160,000	\$58,306	\$0.00	\$1,101,694	5.03%	\$58,306	\$0	3/28/2024	4/9/2027	7/20/2028	7/20/2028	0
S22001	<b>North/South Metro Interceptors Rehab</b> Rehabilitation of the interceptor crown from 11 o'clock to 1 o'clock of 13 segments, approx. 12,154 LF (2.30 miles) of existing RCP and PLRCP, and liner repairs on 7 segments of existing RCP and PLRCP approx. 14,132 LF (2.68 miles) of the North and South Metro Interceptors. Rehab 9 existing access structures, spot repair 56 existing access structures including existing Diversion Structure II, rehab and spot repair existing Diversion Structure I, and assess 1 existing access structure.	Design	\$31,960,000	\$374,308	\$0.00	\$31,585,692	1.17%	\$182,131	\$1,289,045	6/23/2023	8/7/2025	8/2/2027	8/2/2027	0
<b>OTHER</b>														
S21003	<b>EMTS Lab Remodel at NTC</b> This project will renovate the current NTC facilities to comply with new requirements. The NTC lab facility will upgrade their structural systems to meet current seismic code. The lab will be modernized to meet future needs. The laboratory operations will be optimized.	Design	\$54,125,500	\$1,936,308	\$1,126,201	\$51,062,991	3.58%	\$826,509	\$421,890	3/1/2021	4/30/2025	12/29/2026	10/31/2028	672
B21070	<b>Solar Implementation @ EMTS Lab Bldg</b> Install approximately 430 kW AC carport solar photovoltaic system to provide energy for Environmental Monitoring and Technical Services Division's NTC Laboratory.	Design	\$4,125,740	\$220,173	\$120,864	\$3,784,703	5.34%	\$101,140	\$30,000	3/1/2021	4/30/2025	12/29/2026	10/31/2028	672
B20001	<b>Stormwater Diversion at the PLWTP</b> Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the Point Loma Wastewater Treatment Plant.	Design	\$12,922,725	\$2,275,945	\$212,851	\$10,433,929	17.61%	\$670,864	\$325,389	11/7/2019	1/30/2025	12/30/2022	6/18/2026	1266

**WASTEWATER PROJECTS**

FY 2024 - 4th Quarter (April 1, 2024 to June 30, 2024)

NOTE: Wastewater projects are separated into Metro and Muni/Metro

WASTEWATER PROJECTS										Design Phase		Construction Phase		
WBS	Project Name	Status	Estimated Total Project Cost	Project to Date Expenditures FY24, Pd 12	Encumbrance at FY24, Pd 12	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Project Cost)	Actuals (FY 24 Pd 1-Pd 12)	Projected Expenditures (FY 24 Pd 1-Pd 12)	Design Start	Design Finish	Baseline BO/BU	Current BO/BU	BO/BU Variance
B20002	<b>Stormwater Diversion at the SBWRP</b> Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the stormwater discharges at the South Bay Water Reclamation Plant.	Construction	\$6,167,146	\$4,107,098	\$890,485	\$1,169,563	66.60%	\$2,603,948	\$1,409,789	11/1/2019	4/15/2022	9/30/2022	11/1/2024	763
B19197	<b>Storm Drain Diversion at the MBC</b> Divert storm water discharge to comply with the Consent Decree to reduce pollutants in the storm water discharges at the Metro Biosolids Center.	Construction	\$9,664,552	\$6,628,448	\$2,336,218	\$699,885	68.59%	\$4,688,167	\$136,166	10/1/2019	5/25/2022	12/23/2024	12/16/2024	-7
S00319	<b>EMT&amp;S Boat Dock Esplanade</b> Construct one (1) acre esplanade between the existing EMTS building and channel.	Construction	\$3,400,851	\$1,373,170	\$1,295,681	\$732,000	40.38%	\$493,447	\$1,453,801	10/1/2018	11/3/2023	3/25/2022	12/24/2024	1005
<b>MUNI/METRO</b>														
	<b>OTHER</b>													
L22000.1	<b>Alvarado Lab Improvements</b> Retrofit/reconstruction of existing lab building; New Construction of 15,000 sq. ft. 2-story, additional space to include a new lobby, adjacent to existing lab bldg. New Construction of 6,000 sq. ft. stand-alone office building adjacent to the existing Electrical Building for non-lab staff. The project proposes to remodel the existing Lab building, including additional new buildings with the following scope to meet Code Compliance, the LEED Silver Certification and the new Sustainability Policy 90.	Design	\$120,223,000	\$1,596,890	\$650,799	\$117,975,310	1.33%	\$982,282	\$0	9/12/2022	7/25/2025	10/23/2030	12/19/2030	57
L22000.3	<b>Alvarado Lab Improvements Trailers</b> Installation of new office trailers at the Alvarado Laboratory.	Design	\$2,102,000	\$335,755	\$31,386	\$1,734,858	15.97%	\$174,349	\$0	3/14/2023	8/28/2024	12/9/2024	8/15/2025	249
B21069	<b>Solar Implementation @ ETDC Building</b> Install approximately 190 kW AC rack/canopy solar photovoltaic (PV) system to provide energy to the ETDC building.	Construction	\$2,184,000	\$554,840	\$1,168,504	\$460,656	25.40%	\$396,192	\$0	6/29/2021	10/4/2022	6/27/2025	6/27/2025	0
								<b>TOTAL</b>	<b>\$20,706,185</b>	<b>\$15,342,443</b>				



## Monthly Executive Director's Report September 2024

September was a month where Executive Team consultants were primarily working on major Metro CIP projects and Pure Water Change Orders as well as facilitating the Strategic Planning Initiatives. The following is a summary of key tasks currently being addressed by the Executive Team members:

### Key Tasks and Updates:

#### 1. Website Reminder:

- The JPA maintains a website where valuable information about the Metro System, the Pure Water Program and the JPA can be easily accessed at <https://www.metrojpa.org/home>.
- Please note that you can efficiently add Metro TAC and Metro JPA/Com meetings to your calendar by selecting the meeting listed on the homepage once the agenda has been posted and downloading the calendar event available on the left side of the subsequent page. We will start sending links to this in the meeting notices.

#### 2. Strategic Planning:

- The Strategic Planning Ad Hoc Committee held its kickoff workshop on September 5, focusing on reviewing survey responses collected between August 1 and August 16. The committee developed a shared understanding of the responses, which sparked discussions on key focus areas for the Metro JPA.
- The top opportunities and challenges identified in the survey included:
  - Cost Control
  - Pure Water
  - Reducing Inflow
  - Inflow and Infiltration (I&I)
  - SARA – New Agreement & FAB Billing Model
  - Repair and Maintenance of Metro's Infrastructure – Reducing Spills
  - Miscellaneous issues like capital replacement planning, audit completion, and PFAS.
- The second workshop took place on September 26, where the committee followed up on discussions from the September 5 meeting, including ways to monitor and influence regulations on emerging concerns like PFAS. They also reviewed a draft list of 2025 Strategic Goals (SGs) and Strategic Objectives (SOs).

- Upcoming meetings and deliverables are scheduled on the following dates:

Oct. 17	Review of a draft Strategic Plan (SP) (SGs and SOs)
Oct. 31	Finalize draft SP (SGs and SOs) Develop Action Plan for Nov. 20 TAC Presentation
Nov. 20	Present proposed SP to Metro TAC ( <i>For Information Only</i> )
Dec. 5	Present SP to Metro JPA

### 3. **FY 2021 – FY 2023 Metro Contract Compliance Audit and Reconciliation**

- **Fieldwork Completion on CIP and Revenue Sections:** Initial fieldwork was completed for the CIP and Revenue sections of the multi-year audit and questions have been submitted for review and discussion with San Diego Audit Team.
- **Audit Process: Next Steps:** In October, the City Audit and JPA Executive Teams will meet to address and resolve audit questions arising from the O&M, CIP, and Revenue sample reviews.
- **Audit Scope:** The Annual Metro Exhibit E Audit purpose is to review Metro O&M and CIP costs to ensure that Participating Agencies (PAs) are not allocated costs from other City of San Diego departments such as water or municipal sewer and only pay their fair share of allowable Metro costs. Once the total allowable costs are determined, the allocation to each PA is reviewed to ensure correct cost allocations based on each agency’s actual sewage flows and strengths for the audited year. These costs and allocations are then reconciled with that year’s budgeted amounts that had been billed to each PA.

### 4. **Final Draft Second Amended and Restated Agreement (SARA) Language Review:**

- The City of San Diego’s (City) Attorney’s office has completed an initial review of SARA. In September, City Attorneys met with Public Utilities Department (PUD) staff to discuss these results and continue revisions. Once their review is finalized, FIG will meet to address questions and changes, and the City Attorney will follow up with the JPA’s attorney. The aim is to finalize the integration of these revisions in November, after which the draft SARA will be released to Metro TAC and Metro JPA Directors for their review.

### 5. **FAB Implementation:**

- JPA Executive Team members continue to meet with JPA members and PUD staff to refine and finalize the capacities contained in the draft of Exhibit B that will become the basis for FAB cost allocations. All PAs are reminded that we are trying to finalize Exhibit B by the end of October for release with SARA and draft FAB cost allocations. TAC members are reminded to set meetings with the Executive Team to review, discuss and finalize their individual Exhibit B capacities if they are still needed.

## 6. Pump Station 1 Upgrade and Rehabilitation Contract Review

- The design build contract for PS1 is supposed to go to the San Diego City Council on October 8<sup>th</sup> for final approval.

## 7. Inflow and Infiltration (I&I) Study:

- The TAC Committee including 3 representatives for the City of San Diego had a second meeting on August 29<sup>th</sup>.
- Metro staff are currently working with PUD staff to determine how much information is available from the existing metering system and ADS contractor.
- The next meeting will be to discuss the scope of the first phase of the I&I study.

## 8. Review of Pure Water Phase 2 Alternatives:

- Stantec, the City of San Diego program manager, is conducting a validation study of the proposed Phase 2 Pure Water Program. The City of San Diego is taking a critical look at sizing and costs for Phase 2 Pure Water.
- A letter from the JPA summarizing main scope from the JPAs perspective was approved by the JPA Board of Directors and is being sent to the City. A copy of this letter is attached.

## 9. JPA Executive Team Updates:

- At the Special Meeting of the Metro JPA/Com on September 19, 2024, the Board approved the transfer of JPA Attorney **Adriana Ochoa** from her current firm, Procopio, to Snell & Wilmer. All terms of the existing legal services contract, including hourly rates, were carried over to the new agreement with Snell & Wilmer.
- Executive Team engineering consultant **Scott Tulloch** of NV5 announced his retirement after 30 years of service to the San Diego region. Following a distinguished career as a Colonel in the U.S. Army Corps of Engineers, Scott spent 12 years with the City of San Diego, first as Deputy Director of Engineering for the \$1.8 billion Clean Water Program and later as Director of the Metropolitan Wastewater Department. He then served as Director of Engineering and Assistant City Manager for the City of Chula Vista. In 2013, Scott joined the Metro Wastewater JPA Executive Team as an on-call engineering advisor. After 11 years with the JPA, he will continue in a limited capacity through the final SARA review process, marking the conclusion of his exemplary service to the San Diego region's wastewater community.

## Upcoming Meetings:

- **Metro TAC Meeting:**
  - **Date:** October 16, 2024
  - **Format:** Zoom
  - **Main Topics:** SARA: Pretreatment and Administrative Agreements; FY 2024 4th Quarter Metro Capital Improvements and Funding Sources
- **Metro JPA/Commission Meeting:**
  - **Date:** November 7, 2024
  - **Format:** In-Person, MOC Auditorium
  - **Main Topics:** SCCWRP Presentation on San Diego River Investigative Order Study Findings (Ken Schiff); Amendment No. 2 to the Agreement with CH2M Hill Engineers, Inc. for Engineering Services for the Design of the North City Metropolitan Biosolids Center (MBC) Improvements Project; Metro Wastewater JPA FY 2024 Year-End Financial Statements



October 3, 2024

City of San Diego Public Utilities Department  
9192 Topaz Way  
San Diego, CA 92123

Attention: Juan Guerreiro, Director of Public Utilities

As the City of San Diego (City) begins Stantec's review and verification of the implementation plan for the Pure Water Phase 2 Program, we would like to present to the City several alternatives and ideas we would like to be included in the review. We recognize that the City will implement the program that it deems best, but we would like to ensure a comprehensive range of alternatives are considered. Additionally, we acknowledge that there are agreements and NPDES conditions that currently require the Metro region to produce 83 MGD of potable reuse.

We agree with the City that Stantec should review and verify the current and future sewer flow and water demand for implementation of the Phase 2 Pure Water program. Some major changes related to water supply and cost have happened over the last 10 years and these may impact the best approach to implement Phase 2 Pure Water. These changes include:

- Change in variability of water supply and demand in Southern California
- An extremely successful water conservation program that has resulted in (1) Reduced water sales in San Diego County despite continued population growth and (2) Reduced sewage flows and the likelihood of even greater reductions in sewage flows
- San Diego County Water Authority's fixed water revenue requirement due to the cost of ensuring water supply and maintaining infrastructure, which, due to reduced water sales, is putting an upward pressure on water retail rates.
- Increases in expenditures to maintain existing water and sewer infrastructure
- The possibility of reduced sewage flows below needs to feed some Pure Water Phase 2 alternatives
- Finalization of Direct Potable Reuse regulations

With these concerns in mind, we feel alternatives for Phase 2 Pure Water that reduce capital and operations costs to the maximum extent possible should be considered. These alternatives should include maximizing water

## The Joint Powers Authority Proactively Addressing Regional Wastewater Issues



production beyond 32 mgd at the North City Pure Water Facility (NCPWF), utilizing East County Advanced Water Purification (ECAWP) production of potable water to meet the 83 mgd regional goal, reducing the proposed sizing of the Central Area Pure Water Facility (CAPWF) to 37 mgd or below, eliminating the pipeline to San Vicente, and retaining the flexibility to expand the Pure Water production in the future beyond 83 mgd, if warranted.

The following provides a description of alternatives we would like Stantec to review:

1. Optimize NCPWF and reduce CAPWF.
  - 1a. Optimize and expand production of Pure Water at NCPWF. Production goal 35 mgd. To do this the following could be done:
    - i. Dedicate more sewage from purple pipe recycling to Pure Water. (This would allow NCPWF to run at 32 mgd of its design capacity year around)
    - ii. Increase production stream from RO to capture more water. (Goal 92.5% product stream)
    - iii. Re-permit as Direct Potable Reuse to deliver greater flows to Miramar Reservoir
  - 1b. Decrease CAPWF production goal to 36.5 mgd and deliver to Murray Reservoir (83 MGD – 35 MGD NCPWF – 11.5 ECWPF = 36.5 mgd)
  - 1c. Do not build pipe to San Vicente Reservoir
2. Evaluate costs for full secondary treatment at Point Loma Wastewater Treatment Plant (PLWWTP) under the following scenarios:
  - 2a. Post-Pure Water Phase 1 flows.
  - 2b. Post-Pure Water Phase 2 flows.
  - 2c. Assuming 50 mgd of I&I reduction for 2a and 2b.
  - 2d. Assuming 100 mgd of I&I reduction for 2a and 2b.

We thank you for your consideration of these alternatives.

Sincerely,

Jerry Jones, Chair

Attachment(s)

**The Joint Powers Authority Proactively Addressing Regional Wastewater Issues**

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**ATTACHMENT A**

**LETTER TO THE CITY OF SAN DIEGO  
FOR SCOPE OF WORK ON STANTEC STUDY  
ON PHASE 2 PURE WATER POWERPOINT**

# LETTER TO THE CITY OF SAN DIEGO FOR SCOPE OF WORK ON STANTEC STUDY ON PHASE 2 PURE WATER

1

## PURE WATER AND ECAWP GRAPHIC



2

2

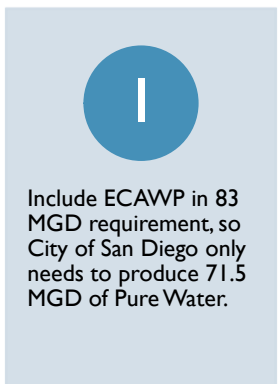
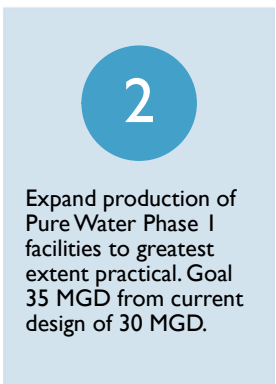
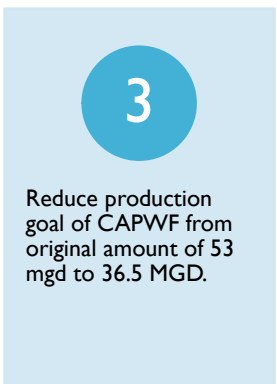
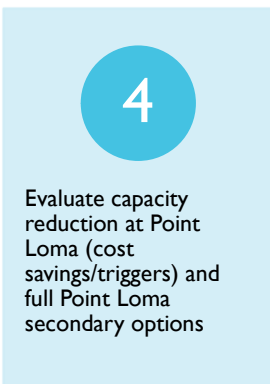
# STANTEC IS CURRENTLY DOING A PHASE 2 VALIDATION STUDY WHICH SHOULD BE COMPLETE BY THE END OF 2025

## Why is Study Needed

- Conservation has decreased
  - Water demand on SDCWA
  - Sewage flow and further decreases are expected
- Currently, available water supplies exceed demand and may continue to do so in the future.
- Water agencies are faced with large rate increases to fund existing costs especially with reduced revenue associated with reduced demand, so a cost sensitive approach to Phase 2 Pure Water is needed.
- ECAWP is under construction and should be considered as a part of 83 mgd requirement.
- It is the appropriate time to validate Pure Water Phase 2 program
- Direct Potable Regulations are completed

3

## JPA STUDY ITEMS

 <p><b>1</b></p> <p>Include ECAWP in 83 MGD requirement, so City of San Diego only needs to produce 71.5 MGD of Pure Water.</p>	 <p><b>2</b></p> <p>Expand production of Pure Water Phase I facilities to greatest extent practical. Goal 35 MGD from current design of 30 MGD.</p>	 <p><b>3</b></p> <p>Reduce production goal of CAPWF from original amount of 53 mgd to 36.5 MGD.</p>	 <p><b>4</b></p> <p>Evaluate capacity reduction at Point Loma (cost savings/triggers) and full Point Loma secondary options</p>
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4

## ADVANTAGE OF 36.5 MGD PURE WATER PHASE 2

Reduced capital costs

Proposed treatment plant sites will not be spaced constrained

Murray Reservoir will be easier to manage

Pipe to San Vicente should not be needed

5

5

## POINT LOMA

- Develop cost saving for I&I reductions of 50 mgd and 100 mgd
- Develop cost estimates for conversion to full secondary dry weather with provisions for advanced primary treatment for wet weather:
  - After Phase 1 Pure Water
  - After Phase 2 Pure Water

6

6



QUESTIONS?