



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, May 15, 2019

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

LOCATION: 9192 Topaz Way, (PUD MOC II Auditorium) – Lunch will be provided

****PLEASE DISTRIBUTE THIS NOTICE TO METRO COMMISSIONERS AND METRO TAC REPRESENTATIVES****

1. Review and Approve MetroTAC Action Minutes for the Meeting of [April 17, 2019](#) (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Caustic Soda Chemical Purchase (Tom Rosales) (**Attachment forthcoming**)
4. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of A Contract for MBC Cooling Systems System Chillers Upgrade (Manny da Rosa) (**Attachment forthcoming**)
5. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of A Contract for SBWRP UV System Replacement (Manny da Rosa) (**Attachment forthcoming**)
6. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of Amendment No. 2 to the Sole Source Agreement between the City of San Diego and Hawkins Delafield and Wood LLP for a Total Not to Exceed amount of \$1,159,000 to be Utilized for Legal Services for North City Renewable Energy Project, Miramar Landfill Gas and Power Generation Facilities and Services (John Helminski) (**Attachment**)
7. **ACTION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of Amendment No. 3 to the As Needed Engineering Technical Services Consultant Agreement with Stantec, Inc. (formally Montgomery Watson Harza America, Inc.), for the Pure Water San Diego Program (John Helminski) (**Attachment**)
8. **INFORMATION:** Presentation of the FY 2020 Proposed City of San Diego Metro Wastewater Utility Budget.(Charles Modica) (**Attachment**)
9. **REPORT:** Update on Five-Year Metro Forecast Detailing Pure Water Costs (John Helminski/Doug Owen) (**Attachment**)
10. **REPORT:** Update from Residuals Management Working Group (Scott Tulloch/Dexter Wilson)
11. **REPORT:** Update from Sample Rejection Protocol Working Group (Edgar Patino)

12. Metro Wastewater Update (Standing Item) (Edgar Patino)
13. Pure Water Program Update (Standing Item) (John Helminski)
 - A. Progress Update: Alternatives Study Phase II Pure Water (**Attachment**)
14. Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung)
15. Financial Update (Standing Item) (Karyn Keese)
16. IRWMP Update (Standing Item) (Yazmin Arellano)
17. MetroTAC Work Plan (Standing Item) (Roberto Yano) (**Attachment**)
18. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**June 6, 2019**)
19. Other Business of Metro TAC
20. Adjournment ([To the next Regular Meeting June 19, 2019](#))

<u>Metro TAC 2019 Meeting Schedule</u>		
January 16	May 15	September 18
February 20	June 19	October 16
March 20	July 17	November 20
April 17	August 21	December 18

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

Attachment 1
Action Minutes
of
April 17, 2019

Metro TAC
(Technical Advisory Committee to Metro Commission/JPA)

ACTION MINUTES

DATE OF MEETING: April 17, 2019
TIME: 11:00 AM
LOCATION: MOC II Auditorium

MEETING ATTENDANCE:

Roberto Yano, National City
Beth Gentry, Chula Vista
Frank Rivera, Chula Vista
Ed Walton, Coronado
Yazmin Arellano, El Cajon
Dennis Davies, El Cajon
Eric Minicilli, Imperial Beach
Hamed Hashemian, La Mesa
Mike James, Lemon Grove
Dexter Wilson, Lemon Grove
Stephanie Boyce, Lemon Grove
Steven Beppler, Otay Water Dist
Kevin Koeppen, Otay Water Dist
Mark Niemiec, Padre Dam MWD
Karen Jassoy, Padre Dam MWD
Rudy Guzman, Poway

John Helminski, City of San Diego
Edgar Patino, City of San Diego
Charles Modica, City of San Diego

Doug Owen, Stantec

Scott Tulloch, NV5

Karyn Keese, The Keze Group

Lori Anne Peoples, MetroTAC

Jerry Jones, Metro JPA

1. Review and Approve MetroTAC Action Minutes for the Meeting March 20, 2019

Motion by Mike James, seconded by Eric Minicilli; the minutes were approved by unanimous vote.

2. Metro Commission/JPA Board Meeting Recap

Chair Yano noted that the items forwarded from the last MetroTAC meeting were approved and that in Closed Session, Procopio was approved for special counsel as needed for Pure Water items.

3. **ACTION: Consideration and Possible Action to Recommend to the Metro JPA Finance Committee and Metro Commission/Metro Wastewater JPA Approval of the Amendment to the Treasurers Contract with Padre Dam Municipal Water District for FY 2020**

Karyn Keese and Eric Minicilli provided a brief verbal overview of the Amendment. This would be the sixth Amendment to the Treasurer's Contract. Every two years the JPA is required to complete an audit of their financial records. This is in progress and will be completed during FY 2020. The Audit requires participation of the Treasurer's staff in addition to regular Treasury duties. The budget for Treasurer services remains unchanged at \$21,000.

ACTION: Motion by Hamed Hashemian, seconded by Eric Minicilli, to approve the Amendment and forward it to the Metro Commission/Metro Wastewater JPA. Motion carried unanimously.

4. **ACTION: Consideration and Possible Action to Recommend to the Metro JPA Finance Committee and Metro Commission/Metro Wastewater JPA Approval of the FY 2020 Contract with The Keze Group, LLC for Financial Management Services**

Eric Minicilli provided a brief verbal overview of the contract. In addition to routine financial services (Exhibit E Audit, Metro Budgets and Forecasts, etc.) the Keze Group will be participating in and auditing the Phase 1 Cost Allocation and Reconciliation once all the construction contracts are bid. In addition, implementation of the financial tasks in the Amended restated Agreement will be completed as well as substantial long range financial planning to incorporate Phase II projected costs in with Phase I during the fiscal year. The budget for the Keze Group remains unchanged at \$77,600.

ACTION: Motion by Mike James, seconded by Hamed Hashemian, to approve moving the Contract forward to the Metro Commission/Metro Wastewater JPA. Motion carried unanimously.

5. **ACTION: Consideration and Possible Action to Recommend to the Metro JPA Finance Committee and Metro Commission/Metro Wastewater JPA Approval of the FY 2020 NV5 Contract for As-Needed Engineering Services**

Karyn Keese and Eric Minicilli provided a brief verbal overview of the contract. NV5, through Scott Tulloch, will continue to provide engineering and technical support to the Participating Agencies in meeting their objectives of the Pure Water

Program. This will continue to include monitoring and facilitation of Secondary Equivalency permanent legislation as well as continued efforts working with the City of San Diego Pure Water Program staff on Phase I and II cost allocations and Phase II facilities planning. In addition, Carmen Kasner will assist in the detailed review of selected contractor's bids for the Moreno Pump Station and Pipeline and North City Expansion projects to insure correct cost allocation between water and wastewater on these shared projects. The budget for NV5 remains unchanged at \$50,000.

ACTION: Motion by Hamed Hashemian, seconded by Beth Gentry, to approve moving the Contract forward to the Metro Commission/Metro Wastewater JPA. Motion carried unanimously.

6. **ACTION: Consideration and Possible Action to Recommend to the Metro JPA Finance Committee and Metro Commission/Metro Wastewater JPA Approval of Amendment to Reimbursement Agreement with the City of Lemon Grove Sanitation District for Engineering Support Services of Dexter Wilson Engineering for FY 2020, including Authorization for the Chair or Designee to Execute Amendment**

Karyn Keese and Eric Minicilli provided a brief verbal overview of the contract. Major tasks to be performed by Dexter Wilson and his staff during FY 2020 include assistance in determination of the Pure Water Phase II facilities and the preparation of an Amendment to incorporate them into the Regional Agreement, technical support for and preparation of a Residuals Agreement, engineering support for Karyn Keese during the Exhibit E audit of Pure Water costs and other financial reviews, and implementation of the Amended Restated Agreement for Phase I. He will also be the lead consultant on the detailed review of selected contractor's bids for wastewater Pure Water facilities to insure correct cost allocations between water and wastewater on shared projects. Committee discussion centered on changing the contract with Lemon Grove Sanitation Agreement to a direct contract with Wilson Engineering. This decision was unanimously approved by the Committee and BBK was asked to prepare the required contractual agreement. The budget for services provided by Wilson Engineering for FY 2020 is \$105,600. This is \$17,550 higher than FY 2019 due to inclusion of two new tasks: the residuals issue/amendment and engineering assistance to Karyn Keese in the audit of Pure Water costs and other cost allocation/financial reviews included in the implementation of the Amended Restated Agreement.

ACTION: Motion by Hamed Hashemian, seconded by Beth Gentry, to approve moving the Contract forward to the Metro Commission/Metro Wastewater JPA. Motion carried unanimously.

7. **REVIEW: FY 2020 Budget for Legal Counsel (Best Best & Krieger LLP)**

Karyn Keese and Eric Minicilli provided a brief verbal overview. A copy of the 2010 Contract was included in the agenda and will be reviewed by the finance committee. The budget for FY 2020 was established at \$60,000 which is the average budget for BBK prior to Pure Water and Pure Water will now be handled by Procopio.

ACTION: No action taken, report only.

8. **ACTION: Consideration and Possible Action to Recommend to the Metro JPA Finance Committee and Metro Commission/Metro Wastewater JPA Approval of the FY 2020 Procopio Letter of Engagement and Budget**

Eric Minicilli provided a brief verbal overview noting that the JPA had approved the hiring of special counsel for negotiations with the City of San Diego regarding participation in the Pure Water Program. The first task will be to prepare and assist in negotiations with the City of San Diego on the residual agreement. The FY 2019 budget estimate of \$70,000 for Pure Water was re-budgeted for FY 2020.

ACTION: Motion by Mike James, seconded by Beth Gentry to approve moving the Letter of Engagement and Budget forward to the Metro Commission/Metro Wastewater JPA. Motion carried unanimously.

9. **ACTION: Consideration and Possible Action to Recommend to the Metro JPA Finance Committee and Metro Commission/Metro Wastewater JPA Discussion and Possible Approval of Hiring a Consultant to Lead a Strategic Plan Development**

Eric Minicilli provided a brief verbal overview. He noted that the Metro TAC had formed a working group to review and update the JPA's website. During the initial website review it was determined that the JPA's most recent strategic plan was created in 2012. The JPA used to update their strategic plan every two years. The Metro TAC working group asked Karyn Keese to contact John Gavares, who was the original creator of the JPA's strategic plan and facilitated most of the planning sessions, to get a budget estimate to be included in the FY 2020 budget should the JPA wish to move forward with updating their strategic plan. A proposal was received with a range of \$8,550 to \$14,050. Committee discussion centered on the fact that past strategic planning sessions had been too long taking up a whole day but that possibly the strategic plan should be updated to include Pure Water.

ACTION: Motion by Eric Minicilli, seconded by Hamed Hashemian, to approve moving the discussion forward to the Metro JPA Finance Committee with a suggestion to have it primarily pertain to the addition of Pure Water. Motion carried unanimously.

10. ACTION: Consideration and Possible Action to Recommend to the Metro JPA Finance Committee and Metro Commission/Metro Wastewater JPA Approval of the FY 2020 Metro Wastewater JPA Budget

Treasurer Karen Jassoy provided a brief verbal overview of the budget. Karyn Keese noted that the budget is \$32,550 higher than FY 2019 due to increases to JPA/TAC meeting expenses (\$1,000) and the Dexter Wilson Engineering contract (\$17,550) as well as the inclusion of \$14,000 for strategic planning. The estimated fund balance at June 30, 2019, should adequately cover the required operations reserve (four months of operating expenses). It was discussed that if there are surplus funds over the required reserve at FY 2019 year-end that they should be retained due to the uncertainty of additional projects that might be required from engineering, financial, and legal consultants during FY 2020.

Additionally, Karyn noted the following:

This will continue to be a very busy year for the JPA's consulting staff. All of the Phase I capital contracts will be bid during FY 2020 and thus a final cost allocation split between water and wastewater will be determined. Once this is complete there will need to be a major reconciliation of all of the "50/50" task orders. These are the task orders from project inception (2014) for shared costs that have been allocated 50% to water and wastewater equally until the final cost allocation can be determined once all construction projects are bid. As of June 30, 2018, there were 84 task orders totaling \$30 million that fall into this category for such things as program management and the project EIR. It is anticipated that this reconciliation will save the PAs \$1 million. In addition the two design contracts (Moreno Pump Station/Pipeline -- \$18.2 million and the North City Expansion -- \$ 15.4 million) will need to be reconciled and adjusted to actual contract costs as both contracts have water components. This effort will require substantial engineering and financial consultant time to insure that no water costs will be charged to Metro as we start construction of the facilities. Once the reconciliation is done it will need to be audited and substantial audit field work time is anticipated as San Diego adjusts their financial records to reflect this cost split.

Work will continue on the implementation of the Amended Restated Agreement by both engineering and financial consultants. The Agreement left many financial and engineering tasks to be completed over the next year. A Financial Implementation Working Group has been formed with City of San Diego staff to complete these tasks. In addition, work will continue by JPA engineering consultants on the residuals issue with the goal of completing a separate agreement to address this concern.

In addition, engineering staff will continue to work with San Diego to determine the Phase II facilities. It is anticipated that during the year work will start by engineering and financial consultants on drafting a Phase II Agreement with the City of San Diego.

ACTION: Motion by Mike James, seconded by Ed Walton, to approve the budget as is, allowing for the Metro JPA Finance Committee to recommend any additional changes to the Metro Comm/Metro Wastewater JPA. Motion carried unanimously

11. ACTION: Consideration and Possible Action to Recommend to the Metro Wastewater JPA Finance Committee and Metro Commission/Metro Wastewater JPA Approval of Amendment to Increase Work in FY 2018-2019 in the Amount of \$19,800 with a Corresponding Revisions to Exhibits A and B for City of Lemon Grove Sanitation District Consultant Dexter Wilson Engineering for Engineering Support Services

Karyn Keese provided a brief verbal overview. A \$19,800 amendment is requested to cover two additional tasks that were not foreseen when the budget was established for FY 2019. They were: the residuals issue/amendment and engineering assistance to Karyn Keese in the audit of Pure Water costs and other cost allocation /financial reviews included in the implementation of the Amended Restated agreement.

12. REPORT: Update from Residuals Management Working Group

Dexter Wilson stated that they were meeting again next week and were working on 2 main items. The first being the appraisal of the Mission Gorge Pump Station the East County group wants to purchase from the City of San Diego. General agreement has been reached on the appraisal and they are hoping to agree on methodology. In 2022 they hope to transfer the facility and next week they are going through line items. The second item is the residuals agreement which is being drafted. It is going to be generalized so other agencies interested can join. Neither the City of San Diego or Padre Dam Municipal Water District will be completely happy but hopefully can agree and approve it and legal counsels will work on the wordsmithing.

13. REPORT: Update from Sample Rejection Protocol Working Group

Edgar Patino stated he had nothing new. He still needs to put together a training program. John Helminski again stated he will work with staff to come up with a timeline.

14. Metro Wastewater Update (Standing Item)

Charles Modica, City of San Diego stated he would provide specifics next month.

15. Pure Water Program Update (Standing Item)

John Helminski Provided a brief update on the Public Utilities Department reorganization along with a handout (Attached as Exhibit A to these Minutes). The primary change is the Executive Assistant Director will focus on the day to day

operations and the Director will focus on the Mayor and Stakeholder. Regarding the Pure Water program, the State is reviewing prior to the groundbreaking so there is a 1 month delay until either the 1st or 2nd week in May. John will advise so members wanting to can attend. The first 8 miles of the Pure Water Pipeline project will have bid openings on April 24th; Pure Water Plant bid openings are currently set for May 16th and the Advanced Marina Pump Station bid opening is set for April 25th. This is only the 1st of the 4 contracts which will be staggered. Phase II will be coming forward to MetroTAC in May along with several new Pure Water Contracts. John then provided a brief Power Point presentation on the contracts (Attached as Exhibit B to these Minutes)

16. Metro Capital Improvement Program and Funding Sources (Standing item)

There was no report.

17. Financial Update (Standing Item)

Karyn Keese stated That the FY 18 Audit fieldwork is scheduled for the 3rd week in June. FY 17 should be ready to go next month (May) and the reconciliation will be completed by the end of the year.

18. IRWMP Report (Standing Item)

Beth Gentry stated that they were unable to announce the awards for grants.

19. MetroTAC Work Plan (Standing Item)

Chair Yano stated that the MetroTAC Work Plan was attached to the agenda for review.

20. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (May 2, 2019)

All items approved by MetroTAC will move forward to the Metro JPA Finance Committee at a Special Meeting being held next Tuesday, and then the Metro Commission/Metro Wastewater JPA.

21. Other Business of Metro TAC

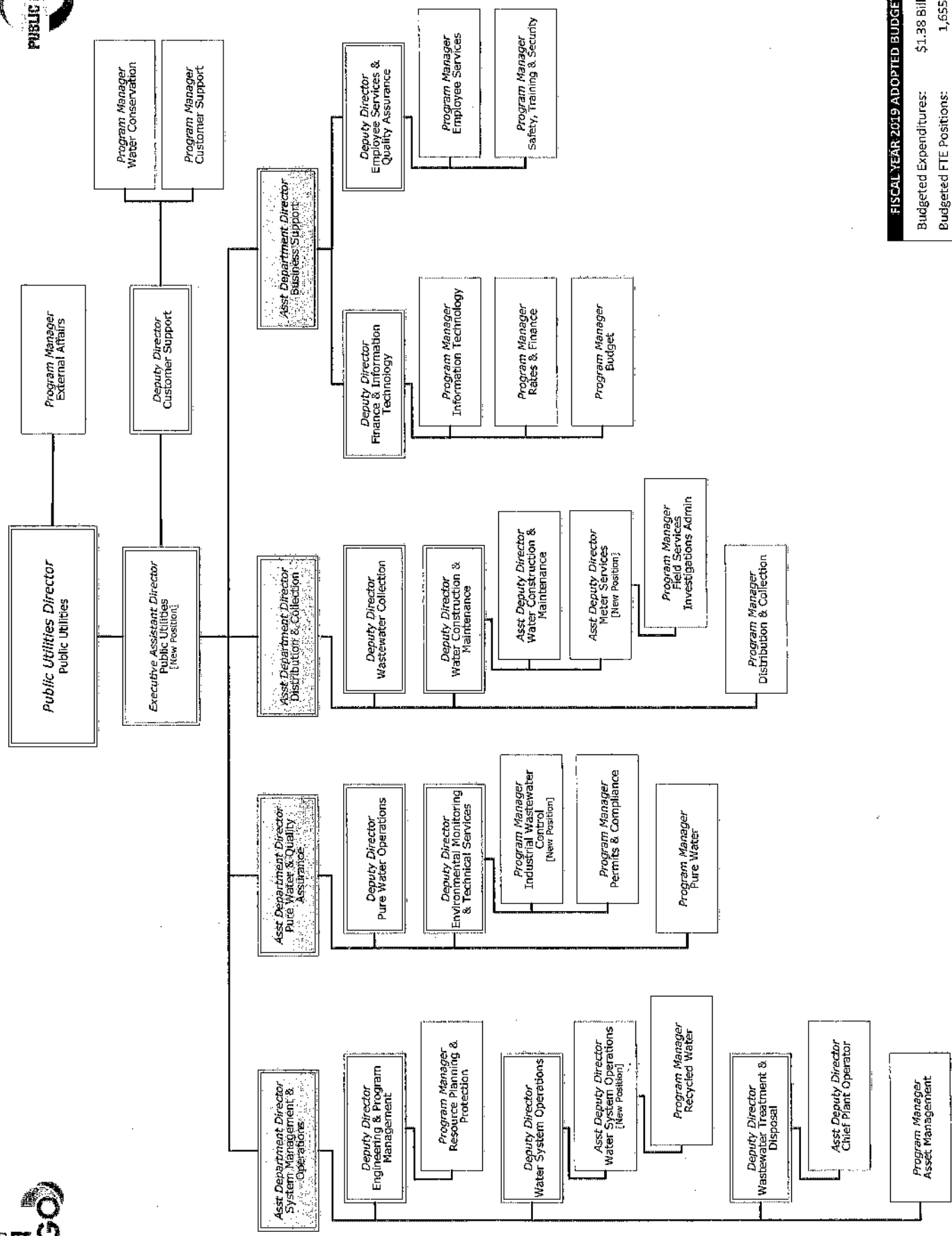
Chair Yano thanked Eric Minicilli and Karyn Keese for doing such a great job in review and handling of the budget.

22. Adjournment to the next Regular Meeting, May 15, 2019

At 12:17 p.m. the meeting was adjourned.

Attachment A

SAN DIEGO PUBLIC UTILITIES DEPARTMENT



FISCAL YEAR 2019 ADOPTED BUDGET		
Budgeted Expenditures:	\$1.38 Billion	
Budgeted FTE Positions:	1,655.92	

Attachment B

Upcoming Pure Water Contracts

Contract	Amount	Metro TAC	Metro JPA	Environment Committee	City Council
Stantec Amendment No. 3	\$37.7 M	May 15, 2019	June 6, 2019	September 12, 2019	October 1, 2019
Hawkins Delafield & Wood NCREP DBO Support	\$1.5M	May 15, 2019	June 6, 2019	September 12, 2019	October 1, 2019

Attachment 3
Caustic Soda
Chemical Purchase
(Forthcoming)

Attachment 4
Contract with
MBC Cooling
Systems System
Chillers Upgrades
(Forthcoming)

Attachment 5
Contract for
SBWRP UV
System
Replacement
(Forthcoming)

Attachment 6
Amdt. 2
Hawkins
Delafield &
Wood LLP (legal
services) North
City Renewable
Energy Project

METRO JPA/TAC**Staff Report**

Date: 5/15/2019

Project Title: North City Renewable Energy Project, Miramar Landfill Gas and Power Generation Facilities and Services.**Requested Action:**

Request to forward Amendment No. 2 to the Sole Source Agreement between the City of San Diego and Hawkins Delafield and Wood LLP to the Metro JPA/ Metro Commission. Amendment No. 2 is for a total not to exceed \$1,159,000 which will be utilized for legal services.

Recommendations:

Approve the contract request

Metro TAC:	Forward the subject item to Metro JPA/ Metro Commission.
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:	It is estimated that the funding will be allocated as follows: Water: 76% (\$880,840), Wastewater: 24% (\$278,160) (Metro: 100%, Muni: 0%). The total contract amount is \$1,159,000.
Fiscal impact to the Metro JPA:	33.5% of Metro cost (approximately \$93,183.60)

Capital Improvement Program:

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

Previous TAC/JPA Action:

None

Additional/Future Action:

Present item to Metro JPA/ Metro Commission on June 6, 2019.

City Council Action:

City Council approval is anticipated on 10/1/2019.

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

The City will be able to produce the power needed for the Pure Water North City (NC) treatment facilities by generating renewable energy captured from landfill gas. The North City Renewable Energy Project will help meet the Climate Action Plan targets for reducing Greenhouse Gas Emissions by capturing landfill methane gas fugitive emissions for energy production, reducing carbon gas emissions, and generating renewable energy.

The City currently has generation facilities at MBC (6.4 Megawatts (MW) for City and 3.2 MW for MCASM) and the NCWRP (3.8 MW NCCF and 1.6 MW NCEP). The 3.8 MW NCCF generating equipment at NCWRP was transferred to the City on January 1, 2019 with the associated committed landfill gas (LFG) rights. The generating equipment privately owned by Fortistar at MBC will remain in operation under the existing agreements through 2026 with the

associated committed LFG rights. Uncommitted landfill gas (LFG) rights reverted to City Environmental Services Department (ESD) on January 1, 2019. Fuel for the existing cogeneration facilities at MBC is supplemented with digester biogas and waste heat is captured for use by plant facilities.

Due to the specialized nature of the project scope, magnitude, complexity of the Public-Private Partnerships; RFQ/RFP development, proposal evaluation, service agreement preparation, contract negotiation and post-contract execution, the City Attorney's Office deemed special counsel necessary for the remaining contract duration.

In accordance with SDMC §22.3016, the sole source award of an agreement for legal services between the City of San Diego (City) and Hawkins Delafield and Wood (HDW) was necessary to provide specialized legal services for the North City Renewable Energy Project, Miramar Landfill Gas and Power Generation Facilities and Services Project. Mayoral Action approved the Original Sole Source Agreement Certification #3539 for Legal Services with Hawkins Delafield and Wood on July 14, 2015 Document No. C-16646 for a duration of five (5) years for a total not to exceed amount of \$250,000. The sole source agreement amendment MOD-3539 executed on August 4, 2016 allowed for two contract amendments not to exceed \$2,501,000. The first contract amendment was executed on December 15, 2016 to increase amount by \$990,000 to develop the RFSQ and draft service agreement. This second contract amendment will include RFP proposal evaluation, contract negotiation, finalization of service agreement and post contract execution not to exceed \$1,159,000 and extend contract for an additional 5-year duration, for an amended total contract value of \$2,399,000. This item was heard at the Environment Committee on September 12, 2019 and forwarded to the full Council with a recommendation to adopt the ordinance.

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

Discussion:

The project will provide considerable reduction in Greenhouse Gas (GHG), by capturing fugitive emissions from the landfill, to meet the City's Climate Action Plan target to reduce carbon gas emissions. The City will be able to produce renewable energy by utilizing landfill gas (LFG) to generate electricity that supports the expansion of the North City Water Reclamation Plant (NCWRP), the North City Pure Water Facility (NCPWF) while providing significant cost savings to the City. In addition, the City and the U.S. Navy and Marine Corps wish to develop further generation capacity from landfill gas. Additionally, the project will include the management and operation of the existing LFG collection system.

The project will be developed using a Design/Build/Finance/Operate/Maintain (DBFOM) delivery method for the management, operation and expansion of the Miramar Landfill Gas Collection System; and construction and operation of a generation facility to generate up to 20MW of power utilizing landfill gas; The work sought by this retainer will yield a privately financed project that will result in avoided capital expenditures of an estimated \$150 million to \$200 million.

The DBFOM delivery method creates one point of responsibility for multiple services; transfers design risks; and assume construction, operation and maintenance responsibilities for the project. This method also provide cost savings with performance guarantees and shorter project schedule. The project is a 20-year Public-Private Partnership (P3) that will allow for private financing. The DBFOM scope of work for the private party will include:

- installation of generators at NCWRP and MBC for power production
- installation of a landfill gas compressor station and pipeline
- operations and maintenance of existing landfill gas collection system
- securing project permitting; including Building Permits and Air Pollution Control District permits

-The Public Utilities Department, in conjunction with the City Attorney's Office and the Environmental Services Department have issued a Request For Statement of Qualification (RFSQ) to solicit qualified DBFOM entities in February 8, 2018 and shortlisted the 3 most highly qualified respondents. PUD is in the process of preparing a Request For Proposal (RFP) to demonstrate the qualified DBFOM entities' design, construction, financial, operational and maintenance capabilities for successful delivery of the project.

Due to the specialized nature of the project scope with multifaceted elements, magnitude, intricate legal and financial complexities of the Public-Private Partnerships; RFSQ/RFP development, proposal evaluation, service agreement preparation, contract negotiation and post-contract execution, the City Attorney's Office deemed special counsel necessary for the remaining contract duration. Hawkins Delafield and Wood (HDW) possesses an in-depth legal and economic understanding necessary for developing terms and conditions associated with complex 20-year services agreement, facilitation of Public-Private Partnerships (P3), which includes DBFOM delivery method for publicly owned facilities with private financing for the purpose of operating and maintaining an existing landfill collection system at Miramar Landfill; and construction and operation of a generation facility to generate up to 20 MW of power utilizing landfill gas at the North City Water Reclamation Plant.

HDW will provide similar services to the City that it had provided in the negotiation and drafting of the original privatization agreement with NEO San Diego LLC (NEO SD), and Minnesota Methane San Diego LLC (MMSD) for the Miramar landfill gas collection system, and for the MBC and North City Cogeneration facilities. The privatization agreement, originally entered into in 1995 yielded the ratepayers savings of over \$60 million in audited costs. Additionally, HDW has assisted the City in negotiating the 2011 agreement amendment with Fortistar for the expansion of the landfill gas collection system to support development of a new 3.2 MW

cogeneration facility for MCAS Miramar (through the Miramar Energy LLC). The term of the cogeneration agreement with Miramar Energy LLC runs through calendar year 2026.

Amendment No.2 is requested to increase the contract by \$1,159,000 for a total not to exceed amount of \$2,399,000. The additional funding will allow the City to continue to access the specialized legal services to support the North City Renewable Energy Project, Miramar Landfill Gas and Power Generation Facilities and Services.

Project Schedule: The table below presents the anticipated schedule.

Activity	Date
Metro JPA/ Metro Commission	6/6/2019

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

Attachment 7

Amdt. 3

Stantec, Inc. for
Pure Water San
Diego Program

METRO JPA/TAC
Staff Report
Date: May 7, 2019

Project Title:

Pure Water – Amendment No. 3 to the As-Needed Engineering Technical Services Consultant agreement with Stantec, Inc. (formerly Montgomery Watson Harza Americas, Inc.), for the Pure Water San Diego Program; H156303

Requested Action:

Approve Amendment No. 3 to the As-Needed Engineering Technical Services Consultant agreement with Stantec, Inc. and forward item to Metro JPA/ Metro Commission for approval. Amendment No. 3 is for a total not to exceed amount of \$37,700,000, which will be utilized to support continuation of Phase 1 technical studies and support, Phase 2 planning technical studies, demonstration of purified water facility construction and operations support and continued program management and outreach support.

Recommendations:

Approve Amendment No. 3 to the agreement

Metro TAC:	Approve the subject item and forward to Metro JPA/ Metro Commission for approval
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	N/A

Fiscal Impact:

Is this projected budgeted?	Yes <u>X</u> No ____
Cost breakdown between Metro & Muni:	It is estimated that the funding will be allocated as follows: Water: 61% (approximately \$22,997,000), Wastewater: 39% (approximately \$14,703,000) (Metro: 100%, Muni: 0%).
Fiscal impact to the Metro JPA:	33.5% of Metro cost (approximately \$4,925,505)

Capital Improvement Program:

New Project?	Yes ____	No <u>X</u>	N/A ____
Existing Project?	Yes <u>X</u>	No ____	Upgrade/addition ____ Change ____

Previous TAC/JPA Action:

None.

Additional/Future Action:

Present item to Metro JPA/ Metro Commission for approval in June 2019.

City Council Action:

City Council approval is anticipated in October 2019.

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

The City entered this agreement for As-Needed Engineering Technical Services with Stantec, Inc., in January 2015. With Stantec's support, the Public Utilities Department has been able to advance Pure Water Phase 1 to the final stages of design and began advertising construction at the end of 2018. Amendment No. 1 increased the contract total not-to-exceed amount to \$46,400,000 and was

instrumental in accelerating the Phase 1 schedule and in obtaining regulatory support of delivering the water to the Miramar Reservoir. Amendment No. 2 increased the contract total not-to-exceed amount to \$56,400,000 and was needed to complete additional engineering and technical studies for Phase 1, develop an owner-controlled insurance program for all of Phase 1 construction, and to initiate master planning of Pure Water Phase 2.

The Public Utilities Department would like to retain Stantec through the completion of Phase 1 construction, commissioning, and initial startup of Phase 1 facilities to ramp-up the purified water release to Miramar Reservoir. Therefore, Amendment No. 3 is proposed to extend Stantec's agreement for 5 years, through January 5, 2025, and to increase the contract by \$37,700,000, bringing the contract total not-to-exceed amount to \$94,100,000. Stantec has provided support in the following aspects of Pure Water: program management, preliminary design, treatment studies, technical studies and support, reservoir modeling, and regulatory tasks.

For Phase 2 of the Pure Water Program, the Program Management services contract (As-Needed Engineering Technical Services) will be competitively bid.

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

The Public Utilities Department utilizes the As-Needed Engineering Technical Services agreement with Stantec, Inc. for specialized technical services to support the Pure Water Program implementation. The services generally relate to planning, design, engineering, regulatory, and program management support. The original agreement was approved by City Council on December 9, 2014, via Resolution No. R-309350. The agreement was issued on January 8, 2015, for an amount not to exceed \$30,000,000, for a term of five (5) years. Amendment No. 1 was approved by City Council on October 25, 2016 and increased the contract amount to \$46,400,000. The amendment supported acceleration of the North City Pure Water Phase 1 Project schedule, proving the technical and regulatory feasibility of delivering the Phase 1 purified water to Miramar Reservoir (versus San Vicente Reservoir), and preliminary design of the North City Renewable Energy Project. Amendment No. 2 was approved by City Council on February 12, 2019 and increased the contract amount to \$56,400,000. The amendment supported services for the development of an owner-controlled insurance program, testing of high-purity oxygen, Pure Water Phase 2 Planning and Demonstration design and continued program management, technical, and outreach services.

Phase 1 construction is scheduled to complete in 2022 and purified water deliveries to Miramar Reservoir will begin in late 2023. The Public Utilities Department is requesting to extend the agreement with Stantec, Inc. by 5 years (through the completion of Phase 1) and increase the contract amount by \$37,700,000, bringing the total contract amount to \$94,100,000.

The proposed Amendment No. 3 is needed for the following:

- Continuation of Phase 1 – North City Technical Studies and Support, including operations optimization support
- Phase 2 Planning Technical Studies including design and implementation support of the Demonstration Purified Water Facility Construction.
- Continued Program Management and Outreach Support

Phase 1 – North City Technical Studies and Support. There are multiple Phase 1 technical studies that need to be completed to help lay the groundwork for the successful construction and operation of Phase 1 – North City. These studies include but are not limited to:

- Local Limits Evaluation
- Additional Miramar Modeling Studies
- Phase 1 Operations and Treatment Optimization Support
- Project Interface Design Analysis

- Pre-commissioning Requirements Coordination
- Drinking Water Treatment Plant (WTP) Residuals
- **Ongoing Phase 1 Support.** There are multiple efforts that are currently ongoing that will extend into the next 5 years of the agreement, such as:
 - Industrial Wastewater Control Program (IWCP) support
 - Owner-Controlled Insurance Program (OCIP) Implementation Support
 - North City Renewable Energy Project Design Build Finance Operate Maintain (DBFOM) Technical Support
 - High Purity Oxygen (HPO) System Support

Phase 2 Planning Technical Studies. Amendment No. 2 of Stantec's contract included the validation of Phase 2 alternatives. Additional Phase 2 Technical Studies are included in Amendment No. 3 and are needed to supplement planning efforts for Phase 2 of the Pure Water Program. It is anticipated that these studies will include evaluating innovative technologies that may be available for Phase 2, assessing the impacts of Phase 2 biosolids handling at the Metro Biosolids Center, assessing impacts of reverse osmosis (RO) brine and biosolids at the Point Loma Wastewater Treatment Plant, options for Phase 2 purified water conveyance, and analyzing appropriate delivery approaches for Phase 2 projects.

Phase 2 as-needed program delivery support will be competitively selected and is not a part of this Amendment No. 3.

Demonstration Purified Water Facility Construction and Operations Support. After design of the Phase 2 Demonstration Facility is complete, Stantec will support the Demonstration Facility construction and operations. Demonstration testing and operation will mirror the work that was done to confirm the Phase 1 North City Project's feasibility for delivering purified water to Miramar Reservoir. Phase 2 efforts must be initiated now to meet the overall goal of full Pure Water implementation by 2035.

Continued Program Management and Outreach Support. Stantec will continue to provide support to the City for critical regulatory milestones, including the development and submittal of the Phase 1 Operations Plan to regulators. Monthly cash flow projections and reporting requirements across all the Phase 1 construction packages for various loan and bond covenants also will be prepared for the duration of construction through the implementation of PMWeb, a construction management information system. Finally, the Stantec team will continue to provide critical working group support and other outreach activities required to maintain program momentum and enhance communications with stakeholders.

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

Public Utilities Department

Pure Water – Stantec Consulting, Contract Amendment

Metro Technical Advisory Committee

May 15, 2019





Stantec Contract: Terms and Scope

Terms

- Initiated January 2015
- Original authorization: \$30M
- Amended in December 2016: \$16.4M
- Amended in February 2019: \$10M
- Proposed Total Contract Amount with Amendment 3: \$94.1M

Scope

- Pure Program Administration and Controls
- Planning and Engineering Support
- Design Support
- Environmental Consultant Coordination
- Permitting and Regulatory Support
- Public Education and Stakeholder Engagement



Stantec Contract: Recent Accomplishments

- Submitted final Title 22 Engineering report
- Submitted 100% design for the High Purity Oxygen (HPO) System for review by DSD
- Completed pilot study to examine the impact of Pure Water on Miramar WTP
- Finished pipe loop testing to determine impacts of Pure Water on the City's water distribution system
- Finalized and bound the Owner Controlled Insurance Program (OCIP) contract
- Performed high-level alternatives assessment for Phase 2 Facilities



Current Stantec Contract: Ongoing Work

- Program management and outreach services
- PMWeb implementation support
- OCIP administration support
- NPDES permitting regulatory support
- Miramar Reservoir modeling
- North City Renewable Energy Project
 - *RFP Support*
 - *Energy Economic Model*
- IWCP support





Current Subconsultant Status

Subconsultant Participation

- Stantec Contract Actual Participation*
 - *Total E/SLBE Participation = 22.8%*
 - *Total Certified Participation = 27.3%*
- Stantec Amendment Projections
 - *E/SLBE Participation = 22.6%*
 - *Certified Participation = 30.6%*

Small Business Outreach

- Supported Creation of 2 New ELBE Firms on our Team
- Held Two Small Business Outreach Events for Pure Water in 2016
 - *City of San Diego Logan Heights Library*
 - *City Metropolitan Operations Center*
- Supported 2018 Contractor Expo

*Data as of 04/24/2019



Photo by MrGALL

Stantec Contract: Proposed Amendment

- Extends contract for 5 years and increases contract value by \$37.7 million
- Supports Phase 1 activities, such as:
 - Ongoing Phase 1 Program Controls and Outreach Support
 - Project Interface Design Analysis
 - Pre-commissioning Requirements Coordination
 - Phase 1 Operations and Treatment Optimization Support
 - Local Limits Evaluation
 - Additional Miramar Modeling Studies
 - Drinking WTP Residuals Study



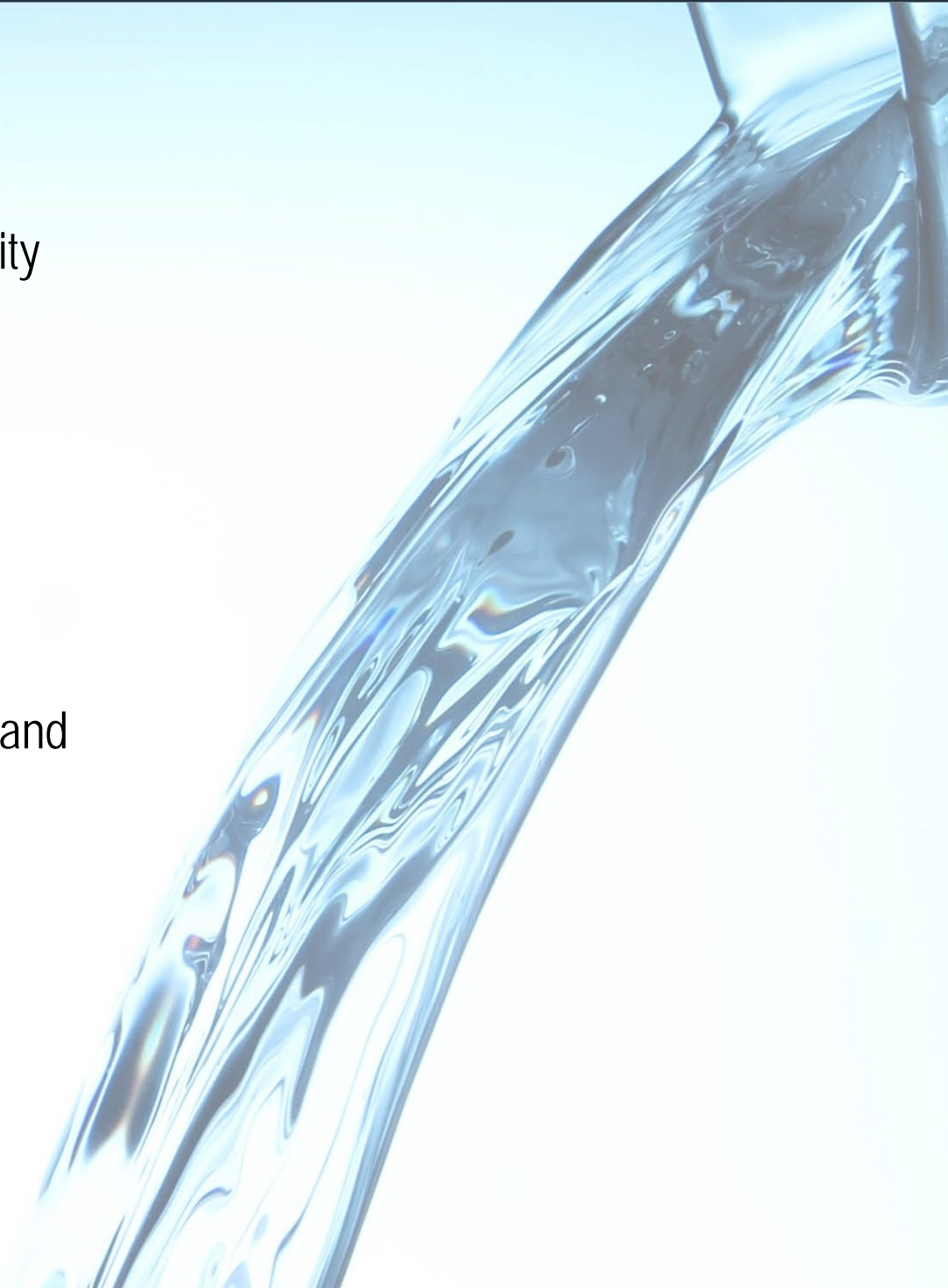
Stantec Contract: Proposed Amendment (Cont.)

- Supports Phase 2 planning activities, such as:
 - Phase 2 Impacts on Biosolids Handling at MBC
 - Phase 2 Impacts of RO brine and Biosolids at PLWTP
 - Purified Water Conveyance Alternatives
 - Innovative Technology Evaluation
- Includes Phase 2 Demonstration Facility construction and operations support



Benefits of Amendment

- Maintains program management continuity through Phase 1 completion, supporting:
 - Program controls and outreach
 - Phase 1 Technical Studies
 - Startup of the North City Pure Water Facility
- Provides Phase 2 concept development and regulatory direction





Amendment Contract Breakdown

Total Amendment:	\$37.7M
Wastewater % of Total Amendment:	~39%
Wastewater Portion of Amendment:	~\$14.7M
JPA portion of the Amendment (33%)	~\$4.9M





Stantec Amendment Approval Schedule

Activity	Date
Metro TAC	May 2019
Metro JPA/Metro Commission	June 2019
Environment Committee	September 2019
City Council Approval	October 2019
Notice to Proceed	December 2019



Authorized Task Orders in Original Contract

Task Order Number	Description	Total Cost	Wastewater Cost	Water Cost
1	Program Initiation	\$ 2,031,032	\$ 1,015,516	\$ 1,015,516
2	Pre-Designs of North City Upgrades	\$ 14,222,146	\$ 4,312,243	\$ 9,909,903
3	San Vicente Reservoir Modeling to Support Concept Approval Application	\$ 226,544	\$ -	\$ 226,544
4	Impact of Pure Water on Water Treatment Plant Operations	\$ 333,922	\$ -	\$ 333,922
5	PMO/Program Management Services (FY16: July 2015 - June 2016)	\$ 2,904,837	\$ 1,452,419	\$ 1,452,419
6	Stress Testing and In-Operation Capacity of NCWRP	\$ 150,250	\$ 150,250	\$ -
7	Cogeneration Evaluation for NCWRP and APWF	\$ 420,489	\$ 210,245	\$ 210,245
8	Options for Conveyance Termination at San Vicente Reservoir Pipeline	\$ 146,381	\$ -	\$ 146,381
9	Test Plan and Analysis for Prequalification and Preselection for NCAWPF	\$ 1,579,367	\$ -	\$ 1,579,367
10	Technical Advisory Committee Review of North City Predesigns	\$ 49,656	\$ 24,828	\$ 24,828
11	Impact of RO Brine on Wastewater Treatment Plant Operations	\$ 228,340	\$ -	\$ 228,340
12	Regulatory Support for Proposed North City Area Projects	\$ 1,538,205	\$ 769,103	\$ 769,103
13	Strategic Oversight of Environmental Issues for Pure Water Program	\$ -	\$ -	\$ -
14	Phase I Environmental Site Assessment	\$ 19,404	\$ -	\$ 19,404
15	Small Business Outreach	\$ 69,122	\$ 34,561	\$ 34,561
16	Centrate Management Options Study	\$ 44,446	\$ 44,446	\$ -
17	Establish Pure Water Automation (COMNET) Requirements	\$ 172,903	\$ 86,452	\$ 86,452
18	Evaluate Impacts of NCWRP Expansion on MBC	\$ 351,704	\$ 351,704	\$ -
19	Public Outreach and Education Services (April 1, 2016 - June 30, 2018)	\$ 1,396,674	\$ 698,337	\$ 698,337
20	Operator Training for Future AWPF	\$ 250,971	\$ -	\$ 250,971
21	Develop Enterprise Level Control Strategy	\$ 52,365	\$ 26,183	\$ 26,183



Authorized Task Orders Including Amendments

Task Order Number	Description	Total Cost	Wastewater Cost	Water Cost
22	Miramar Reservoir Modeling	\$ 818,842	\$ -	\$ 818,842
23	PMO Staffing	\$ 7,397,587	\$ 3,698,794	\$ 3,698,794
24	Update 2009 Biosolids Processing Evaluation	\$ 354,439	\$ 354,439	\$ -
25	Value Engineering	\$ 313,684	\$ 128,389	\$ 185,295
26	Centrate Disposal Evaluation	\$ 138,727	\$ 138,727	\$ -
27	Update Spec Sections 13300, 13400	\$ 87,937	\$ 43,969	\$ 43,969
28	Design Reviews and Tech Support	\$ 1,391,274	\$ 717,910	\$ 673,364
29	RFQ Tech Support of DBFOM	\$ 546,333	\$ 273,167	\$ 273,167
30	NCWRP White Paper	\$ 146,160	\$ 146,160	\$ -
31	NCPW OM Readiness Master Plan	\$ 202,418	\$ 101,209	\$ 101,209
32	Construction Management (CM) Planning	\$ 94,172	\$ 47,086	\$ 47,086
33	Study of Alternatives to 30% EDR	\$ 14,386	\$ -	\$ 14,386
34	Pipe Loop Study	\$ 347,710	\$ -	\$ 347,710
35	Miramar WTP Study	\$ 410,300	\$ -	\$ 410,300
36	DSD & Env Review Technical Support	\$ 10,215	\$ 5,108	\$ 5,108
37	NCREP 10 Percent Pre-Design	\$ 1,122,442	\$ 561,221	\$ 561,221
38	CA Alternatives Analysis	\$ 231,106	\$ 115,553	\$ 115,553
39	OCIP Support Services	\$ 323,926	\$ 161,963	\$ 161,963
40	Black & Veatch Financial Support	\$ 266,805	\$ 133,403	\$ 133,403
41	COMNET Support Services	\$ 50,000	\$ 25,000	\$ 25,000
42	IWCP Support Services	\$ 204,075	\$ 102,038	\$ 102,038
43	Miramar DWTP Residuals Study	\$ 65,069	\$ -	\$ 65,069
44	HPO Testing and Design	\$ 369,736	\$ -	\$ 369,736
45	Public Outreach and Education Services (July 1, 2018 - March 31, 2019)	\$ 1,088,511	\$ 544,256	\$ 544,256
46	Pure Water On-Site Program Management Services	\$ 3,862,192	\$ 1,931,096	\$ 1,931,096
47	Energy Economics Support Services	\$ 69,008	\$ 34,504	\$ 34,504
Total Authorized Amount to Date		\$ 46,115,812	\$ 18,440,272	\$ 27,675,540

Data as of 04/24/19

Bold = Ongoing Task Order

Future Task Orders

Task Order	Description
A	PMO Core Team Staffing (Jan 2020 - Dec 2024)
B	Public Outreach Staffing (Jan 2020 - Dec 2024)
C	Water Treatment Plant Residuals Management Study
D	Phase 1 - North City Technical Studies and Support (multiple Task Orders): <ul style="list-style-type: none"> - Local Limits Evaluation - Additional Miramar Modeling Studies - Phase 1 Operations and Treatment Optimization Support - Project Interface Design Analysis
E	Phase 2 Regulatory Support
F	Phase 2 Technical Planning and Studies (multiple Task Orders): <ul style="list-style-type: none"> - Impacts of Phase 2 Biosolids Handling at MBC - Impacts of Phase 2 RO Brine and Biosolids Handling at PLWWTP - Validation Assessment and Analysis of Appropriate Delivery Methodology - Technical Assessment of Phase 2 Alternatives - Options for Conveyance System Termination - Innovative Technology Review
G	Phase 2 Demonstration Facility Planning and Design, and Construction/Operations Support



Questions?



Attachment 8

FY 2020

Proposed City
of San Diego

Metro

Wastewater
Utility Budget

Public Utilities Department

Fiscal Year 2020 Proposed Budget – Metropolitan Sewer Fund

May 15, 2019

Metro Wastewater JPA Technical Advisory Committee



Public Utilities Department

The Public Utilities Department provides water for City of San Diego customers and wastewater treatment and disposal services for City customers and regional partners.

Mission Statement:

To provide reliable water utility services that protect the health of our communities and the environment

Vision:

A world-class water utility for a world-class city





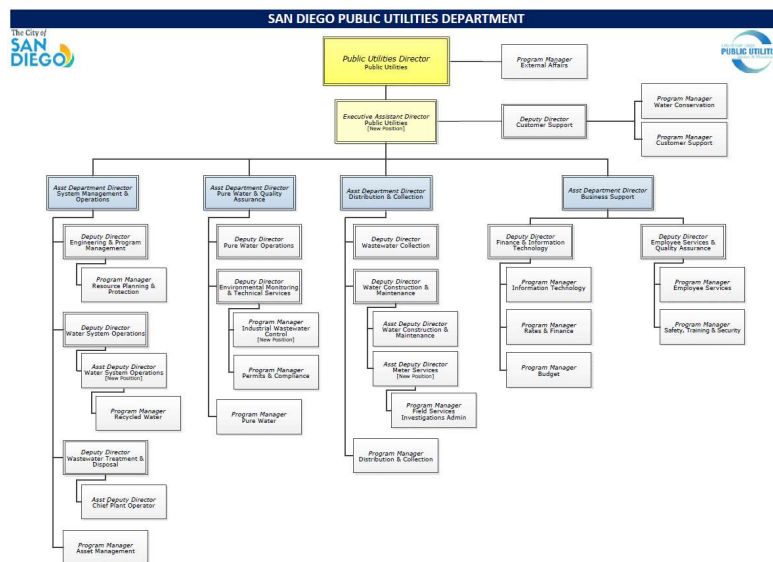
Public Utilities Department

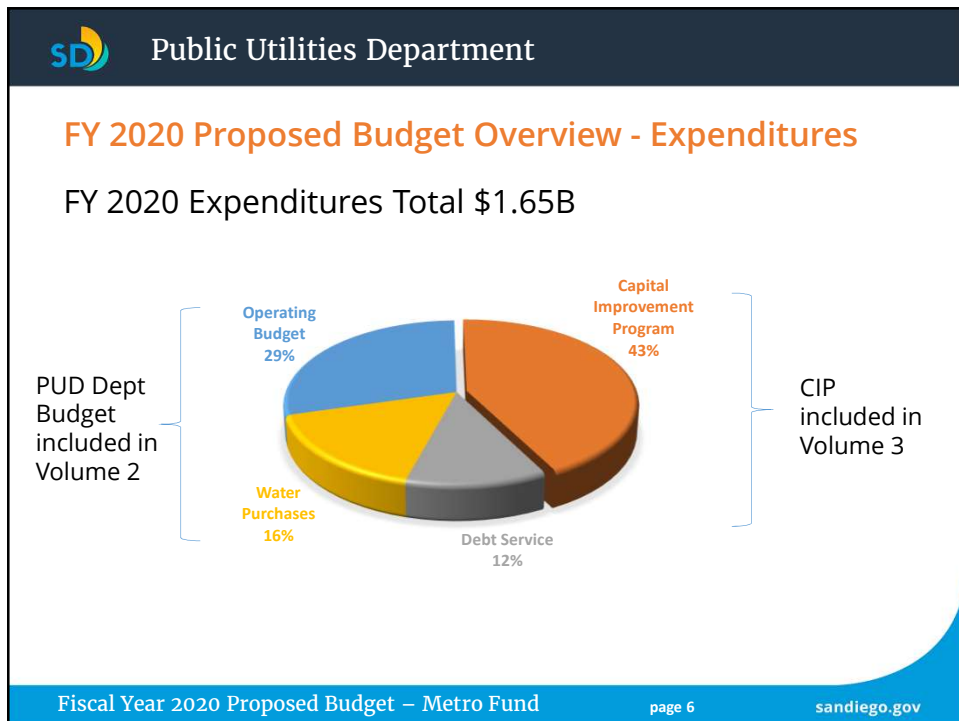
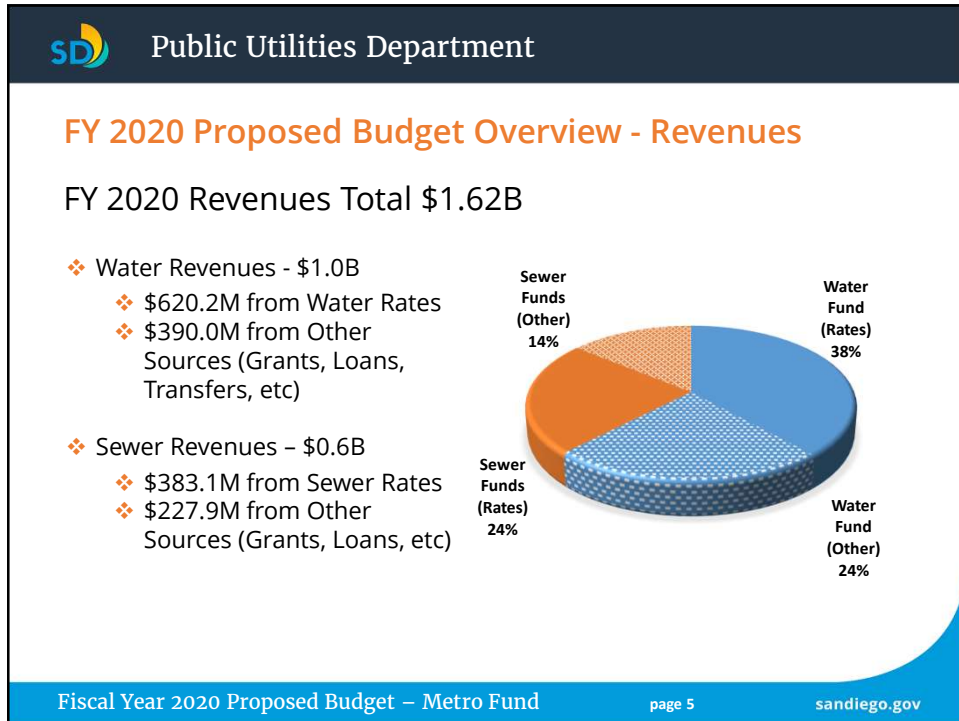
Department Highlights

- ❖ FY 2020 Budget emphasizes customer-focused, mission-driven utility, and initial implementation of the Department's reorganization
- ❖ Substantial investments in water and wastewater infrastructure
- ❖ Resources in the Proposed Budget include increased staffing and funds to begin addressing needed operations and deferred maintenance
- ❖ Budget consistent with organizational changes being rolled out at PUD to improve Department operations.
 - ❖ New Executive Assistant Director position to oversee day-to-day operations and Customer Support Division
 - ❖ Recycled Water Program reporting to Water System Operations Division
 - ❖ New Pure Water Operations Division
 - ❖ Field Services & Investigation Section reporting to Water Construction & Maintenance Division
 - ❖ Long Range Planning and Water Resources Division functions dispersed to other divisions
 - ❖ Employee Services & Quality Assurance Division, Records Management, Council Docketing Support, and Strategic Support Services reporting to Business Support Branch



Public Utilities Department







Public Utilities Department

FY 2020 Proposed Budget Overview - Expenditures

General Fund Expenditures

Department	FY 2019 Adopted		FY 2020 Proposed		Change from FY 2019 Adopted to FY 2020 Proposed	
	FTE	Budget	FTE	Budget	FTE	Budget
Public Utilities Department	0.00	\$2,606,490	0.00	\$2,712,536	0.00	\$106,046
TOTAL	0.00	\$2,606,490	0.00	\$2,712,236	0.00	\$106,046

Non-General Fund Expenditures

Fund Name	FY 2019 Adopted		FY 2020 Proposed		Change from FY 2019 Adopted to FY 2020 Proposed	
	FTE	Budget	FTE	Budget	FTE	Budget
Metropolitan Sewer Utility Fund	473.24	\$231,562,068	484.36	\$239,416,909	11.12	\$7,854,841
Municipal Sewer Revenue Fund	398.50	131,035,630	419.93	134,368,279	21.43	3,332,649
Water Utility Operating Fund	784.18	542,646,439	804.03	569,775,574	19.85	27,129,135
TOTAL	1,655.92	\$905,244,137	1,708.32	\$943,560,762	52.40	\$38,316,625

Fiscal Year 2020 Proposed Budget – Metro Fund

page 7

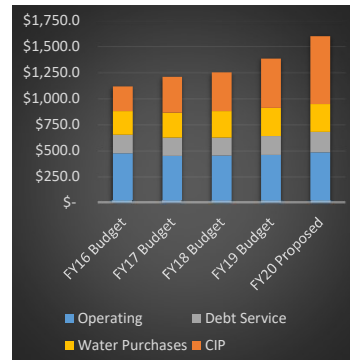
sandiego.gov



Public Utilities Department

FY 2020 Proposed Budget Overview – Expenditures
(in millions)

	FY 2019 Adopted Budget	FY 2020 Proposed Budget	Variance	Percentage Change
Operating				
- Water	\$ 198.6	\$ 212.6	\$ 14.0	7%
- Metro	155.6	165.5	9.9	6%
- Muni	97.1	100.7	3.6	4%
- General Fund	2.6	2.8	0.2	7%
Total Operating	\$ 454.0	\$ 481.6	\$ 27.7	6%
Capital Improvement Program (CIP)				
- Water	\$ 262.6	\$ 392.9	\$ 130.4	50%
- Metro	106.0	228.0	122.0	115%
- Muni	107.8	82.3	(25.5)	-24%
Total CIP	\$ 476.3	\$ 703.2	\$ 226.9	48%
Debt Service				
- Water	\$ 70.6	\$ 88.9	\$ 18.3	26%
- Metro	76.0	73.7	(2.3)	-3%
- Muni	33.9	33.2	(0.8)	-2%
Total Debt Service	\$ 180.5	\$ 195.8	\$ 15.2	8%
Water Purchases	\$ 273.1	\$ 268.8	\$ (4.3)	-2%
Grand Total	\$ 1,383.9	\$ 1,649.4	\$ 265.5	19%



Fiscal Year 2020 Proposed Budget – Metro Fund

page 8

sandiego.gov



Public Utilities Department

FY 2020 Proposed Budget Overview - Expenditures

Operating Expenditures* increase of \$27.7M or 6%:

- Overall increase of 52.40 FTEs or 3%:

- Water Construction Maintenance- 34.00 FTEs
- Water System Operations- 25.00 FTEs
- Reorganization of Long Range Planning & Water Resources Division

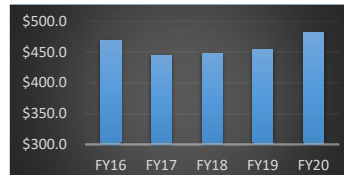
- Contractual Support \$10.1M

- Biosolids Removal- \$6M
- Facilities and Security services- \$3.4M

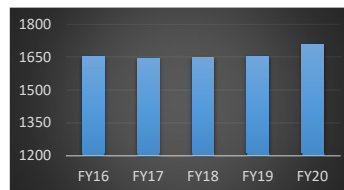
- Capital Purchases of \$4.7M

- Digester Cleanings- \$2.6M,
- Excavators- \$955k, Vector Trucks- \$500k

*Operating expenditures excludes debt service and water purchases.



Historical PUD Operating Budgets



Historical PUD Positions



Public Utilities Department

FY 2020 Proposed Budget Overview – FTEs by Division

Division	FY 2019 Adopted FTE	FY 2020 Proposed FTE	Change From FY 2019 Adopted Budget
Customer Support	142.56	160.44	17.88
Department Management	65.68	63.24	(2.44)
Employee Services & Quality Assurance	72.80	73.80	1.00
Engineering & Program Management	69.00	80.48	11.48
Environmental Monitoring & Technical Services	186.00	194.00	8.00
Finance & Information Technology	77.75	79.75	2.00
Long Range Planning & Water Resources	59.44	-	(59.44)
Pure Water	24.96	40.44	15.48
Recycled Water	27.11	24.00	(3.11)
Wastewater Collection	218.00	218.00	-
Wastewater Treatment & Disposal	259.20	261.75	2.55
Water Construction Maintenance	254.52	288.52	34.00
Water System Operations	198.90	223.90	25.00
Total	1,655.92	1,708.32	52.40



Public Utilities Department

FY 2020 Proposed Budget Overview – Operating Budget by Division (in millions)

Division	FY 2019 Adopted Budget	FY 2020 Proposed Budget	Variance	Percentage Change
Customer Support	\$ 21.4	\$ 24.0	\$ 2.5	12%
Department Management	45.3	49.0	3.6	8%
Employee Services & Quality Assurance	14.4	17.0	2.6	18%
Engineering & Program Management	26.7	27.8	1.1	4%
Environmental Monitoring & Technical Serv	29.4	32.6	3.2	11%
Finance & Information Technology	40.6	38.7	(1.9)	-5%
Long Range Planning & Water Resources*	11.0	0.9	(10.1)	-92%
Pure Water	20.9	20.4	(0.5)	-2%
Recycled Water	5.1	6.0	0.9	18%
Wastewater Collection	43.1	44.1	1.0	2%
Wastewater Treatment & Disposal	94.8	104.3	9.5	10%
Water Construction Maintenance	45.9	51.6	5.6	12%
Water System Operations	52.6	62.6	10.0	19%
Lakes & Recreation	2.6	2.8	0.2	7%
Grand Total	\$ 454.0	\$ 481.6	\$ 27.7	6%

*Reflects PUD Reorganization; corrections still needed



Public Utilities Department

Significant Budget Adjustments – Department-Wide

Significant Budget Adjustments	FTE	Expenditures	Revenue
Revised Revenue – Metro Fund Adjustment to reflect revised revenue projections related to charges to Participating Agencies and reimbursements from the State Revolving Fund loan program for the Pure Water Program.	0.00	\$ -	\$ 164,449,800
Revised Revenue – Metro Fund Adjustment to reflect revised revenue projections related to service charges, reclaimed water rates charged to wholesale customers, potable water rates, State Revolving Fund loan reimbursements, bond proceeds and additional funding mechanisms for CIP baseline projects and Pure Water Program projects.	0.00	-	(2,041,500)
Reduction of Non-Personnel Expenditures Reduction of non-personnel expenditures based on historical budgetary savings in contractual services and capital expenditures.	0.00	(5,784,682)	-
Non-Discretionary, Personnel/Salary, and IT Adjustments Adjustment to expenditure allocations that are determined outside of the department's direct control. These allocations are generally based on prior year expenditure trends and examples of these include utilities, insurance, and rent	0.52	(1,560,565)	-



Public Utilities Department

Significant Budget Adjustments – Department-Wide (continued)

Significant Budget Adjustments	FTE	Expenditures	Revenue
Public Utilities Reorganization Personnel Additions Addition of 7.84 FTE positions to support the reorganization of water and wastewater operations within the department.	7.84	\$ 650,114	\$ -
Public Utilities Reorganization Personnel Reductions Reduction of 5.25 FTE positions to support the reorganization of water and wastewater operations within the department.	(5.25)	(519,649)	-
Public Utilities Reorganization Reallocation among funds associated with moving Long Range Planning Division functions to other divisions to increase efficiency and support the reorganization of water and wastewater operations within the department.	2.63	363,318	-



Public Utilities Department

Significant Budget Adjustments – Department Management

Significant Budget Adjustments	FTE	Expenditures	Revenue
Facilities Maintenance Support Addition of non-personnel expenditures to support building maintenance staff services.	0.00	\$ 134,923	\$ -
Facilities Maintenance Consolidation Transfer of 2.51 FTE positions and associated non-personnel expenditures from the Public Utilities Department to the Public Works – Facilities Services Department for centralization of facilities maintenance functions.	(2.51)	(248,394)	-
Enterprise Asset Management System Support Addition of 0.30 Plant Process Control Supervisor and 0.90 Program Coordinators to support the Enterprise Asset Management system.	1.20	135,424	-
Supply Chain Warehouse Facilities Addition of both one-time and on-going non-personnel expenditures to support supply chain warehouse facilities.	0.00	227,250	-
Supply Chain and Inventory Expansion Support Addition of 0.60 Storekeeper 2's and associated personnel expenditures to support inventory expansion and improve procurement processes across the department.	0.60	53,384	-



Public Utilities Department

Significant Budget Adjustments – Employee Services & Quality Assurance

Significant Budget Adjustments	FTE	Expenditures	Revenue
Associate Department Human Resources Analyst Addition of 0.90 Associate Department Human Resources Analysts in support of hiring, performance management, and Occupational Health Services (OHS).	0.90	\$ 83,400	\$ -
Facility Upgrades and Security Services Addition of non-personnel expenditures for facility upgrades and enhanced security services at various Public Utilities Department facilities.	0.00	2,123,600	-



Public Utilities Department

Significant Budget Adjustments – Environmental Monitoring & Technical Services

Significant Budget Adjustments	FTE	Expenditures	Revenue
Laboratory Supplies and Certification Fees Addition of non-personnel expenditures for needed laboratory supplies, equipment, facility improvements and to maintain industry required certifications to continue performing scientific and technical analyses.	0.00	\$ 468,346	\$ -
Industrial Wastewater Control Program Positions Addition of 1.15 FTE positions to maintain industry required certifications to continue performing scientific and technical analyses.	1.15	109,567	-
Assistant Chemist Addition of 1.04 Assistant Chemists and associated non-personnel expenditures to provide analytical lab support for the Pure Water Program.	1.04	178,980	-
Joint Powers Authority Agency Contribution Addition of non-personnel expenditures for the annual Joint Powers Authority Agency contribution.	0.00	54,807	-



Public Utilities Department

Significant Budget Adjustments – Finance & Information Technology

Significant Budget Adjustments	FTE	Expenditures	Revenue
Rate Consultant Services Addition of non-personnel expenditures for consultant services necessary to review cost of service studies and to evaluate water and wastewater rates.	0.00	\$ 144,367	\$ -



Public Utilities Department

Significant Budget Adjustments – Recycled Water

Significant Budget Adjustments	FTE	Expenditures	Revenue
Recycled Water Division Support Addition of both non-personnel expenditures and associated personnel expenditures to support the Recycled Water Division.	0.00	\$ 400,000	\$ -
Black Mountain and Meanley Tank Facilities Addition of one-time non-personnel expenditures to repair and restart automated chlorination facilities at the Black Mountain and Meanley Tanks.	0.00	300,000	-



Public Utilities Department

Significant Budget Adjustments – Wastewater Treatment & Disposal

Significant Budget Adjustments	FTE	Expenditures	Revenue
Waste Removal and Disposal Service Addition of non-personnel expenditures for mandatory removal of bio solid material and hazardous waste.	0.00	\$ 6,000,000	\$ -
Digester Cleaning Addition of one-time non-personnel expenditures for digester cleaning maintenance.	0.00	2,550,000	-
Water Systems Pipe Replacements and Electrical Substation Repairs Addition of non-personnel expenditures for the replacement of Corroded Heated Water System/Cooling Water System and Electrical Substation repairs.	0.00	750,000	-
Point Loma Wastewater Treatment Plant Condition Assessment Addition of one-time non-personnel expenditures for a condition assessment at the Point Loma Wastewater Treatment Plant.	0.00	500,000	-
Pump Stations Maintenance and Support Addition of non-personnel expenditures for maintenance and support at Pump Station 2, South Bay Water Reclamation Plant and Grove Avenue Pump Station.	0.00	400,000	-



Public Utilities Department

Significant Budget Adjustments – Wastewater Treatment & Disposal (continued)

Significant Budget Adjustments	FTE	Expenditures	Revenue
Wastewater Treatment and Disposal Division Support Addition of 1.00 Plant Technician 2, 1.00 Plant Technician 3 and 1.00 Instrumentation and Control Technician to support the Wastewater Treatment and Disposal Division.	3.00	\$ 240,652	\$ -
Geosyntec Consultant Services Addition of one-time non-personnel expenditures related to Geosyntec consultant services necessary to maintain the Consent Decree with San Diego Coast Keepers.	0.00	100,000	-

Attachment 9

Update on
Five-Year
Metro
Forecast
Detailing
Pure Water
Costs

Public Utilities Department

Five-Year Financial Outlook – Wastewater System

May 15, 2019

Metro Wastewater JPA Technical Advisory Committee



Public Utilities Department

Outlook Overview

- ❖ First time PUD has prepared and presented a 5-Year Outlook
 - ❖ Best practice that allows for improved financial planning
 - ❖ Provides medium to long-term view of utility finances
 - ❖ Increases transparency and accountability
- ❖ The Outlook is a planning tool, not a budget
 - ❖ Includes high-level overview of Department revenues, expenses, and needs
 - ❖ Provides information on Department finances and plans in advance of the Budget process
- ❖ Going forward, PUD will prepare a 5-Year Outlook on an annual basis



Outlook Overview

- ❖ Modeled after City's Five-Year Financial Outlook for the General Fund
 - ❖ Includes Summaries of Revenues, Operating Expenses, Capital Expenses, and Debt Service Expenses
 - ❖ Provides a General Overview of Water and Wastewater Systems
 - ❖ Includes details and narrative for each System, and revenues and expenses by category.
 - ❖ Breaks out new positions/expenditures ("Critical Operating Expenditures" from Baseline Expenditures)
 - ❖ Highlights the importance and current status of the Pure Water Program



Outlook Overview – Pure Water

- ❖ Pure Water Program drives a large portion of expenditures over the Outlook period
 - ❖ \$128.6 million (71%) of Critical Operating Expenditures over 5-Year Outlook are associated with the Pure Water Program across both Water and Wastewater systems
 - ❖ \$1.41 billion (48%) of Capital Improvement Program expenses over 5-Year Outlook are associated with the Pure Water Program across both Water and Wastewater systems
- ❖ Phase 1 of Pure Water scheduled to come online in FY 2024, and will provide 33,600 acre feet of water each year
 - ❖ Reduces the City's costs to purchase water from CWA by \$45 million annually
- ❖ Pure Water Program allows Department to avoid over \$1.8 billion in capital expenses that would otherwise be needed for upgrades at the Point Loma Treatment Plant



Wastewater System O&M Summary

Table 1.3 - Wastewater System Fiscal Year 2020-2024 Financial Outlook Summary of Operating & Maintenance Key Financial Data (\$ in Millions)					
	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022	Fiscal Year 2023	Fiscal Year 2024
Sewer Service Charges	\$271.4	\$280.2	\$295.0	\$310.5	\$328.4
Capacity Charges	\$16.3	\$17.5	\$17.5	\$17.5	\$17.5
Other Revenue	\$103.7	\$107.6	\$109.8	\$113.3	\$118.6
TOTAL SYSTEM REVENUES	\$391.4	\$405.3	\$422.3	\$441.3	\$464.5
Salaries & Wages	\$58.3	\$58.9	\$58.9	\$58.9	\$58.8
Fringe Benefits	\$42.2	\$43.1	\$43.3	\$43.4	\$43.6
Other Non-Personnel Expenditures	\$134.8	\$140.2	\$145.0	\$149.8	\$155.1
BASELINE EXPENDITURES	\$235.3	\$242.2	\$247.2	\$252.1	\$257.5
CRITICAL OPERATING EXPENDITURES	\$6.3	\$7.0	\$21.3	\$23.1	\$29.8
Contributions to Capital Improvement Program (CIP)	\$66.8	\$97.1	\$96.4	\$34.3	\$20.0
Debt Service	\$106.1	\$105.3	\$113.6	\$124.0	\$118.9
(Use of) / Contributions to Reserves ⁽¹⁾	(\$5.0)	(\$5.0)	(\$11.7)	(\$13.7)	\$2.3
NON-OPERATING EXPENDITURES	\$168.0	\$197.4	\$198.2	\$144.6	\$141.1
TOTAL EXPENDITURES	\$409.5	\$446.6	\$466.7	\$419.8	\$428.4
Impact to Fund Balance	(\$18.2)	(\$41.3)	(\$44.5)	\$21.5	\$36.1

⁽¹⁾ Reflects use of Rate Stabilization Reserve to mitigate potential fluctuations in rates and contributions to the Operating Reserve.



Wastewater System Revenues – Sewer Service Charges

Table 5.2 - Sewer Service Charge Five-Year Forecast (\$ in Millions)							
	FY 2018 Actuals	FY 2019 Projection	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Growth Rate	N/A	-1.4%	0.25%	3.26%	5.26%	5.25%	5.78%
Projection	\$274.6	\$270.7	\$271.4	\$280.2	\$295.0	\$310.5	\$328.4

- ❖ Sewer Service Charges constitute the majority of Wastewater System Revenues
- ❖ Sewer Service Charge Revenues grow from \$270 million in FY 2019 to \$328 million in FY 2024
 - ❖ Growth is largely due to preliminary wastewater rate increases of 3% in FY 2021, 5% in FY 2022 and 2023, and 5.5% in FY 2024
 - ❖ Actual rate increase will be determined through a cost of service study
 - ❖ Rates have not increased since 2010; Pure Water CIP and Operating needs are drivers in projected rate increases



Wastewater System Revenues – Other Revenues

Table 5.4 - Other Revenue Five-Year Forecast (\$ in Millions)							
	FY 2018 Actuals	FY 2019 Projection	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Participating Agencies							
Growth Rate	N/A	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Projection	\$70.1	\$75.0	\$80.0	\$85.0	\$90.0	\$95.0	\$100.0
Other Revenue							
Growth Rate	N/A	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Projection	\$28.7	\$17.5	\$23.7	\$22.6	\$19.8	\$18.3	\$18.6

- ❖ PA increases based on estimated PA share of Pure Water expenditures
- ❖ Modest growth in Capacity Fees to align with average of past years
- ❖ Projected increases to pooled investments also included



Wastewater System Expenditures – Personnel

Table 5.5 - Personnel Expenditures - Baseline Expenditures (\$ in Millions)							
	FY 2018 Actuals	FY 2019 Budget	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Salary & Wages Projection	\$49.8	\$55.3	\$58.3	\$58.9	\$58.9	\$58.9	\$58.8
Fringe Benefits Projection	\$39.0	\$40.2	\$42.2	\$43.1	\$43.3	\$43.4	\$43.6

Table 5.6 - Critical Strategic Expenditures - Personnel							
Request	FTE/Exp	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
Customer Services Office Program	FTE	4.00	4.00	4.00	4.00	4.00	4.00
Support	Expense	\$311,918	\$311,918	\$311,918	\$311,918	\$311,918	\$311,918
Facilities Maintenance Consolidation	FTE	(4.50)	(4.50)	(4.50)	(4.50)	(4.50)	(4.50)
	Expense	(347,676)	(347,676)	(347,676)	(347,676)	(347,676)	(347,676)
EAM Support	FTE	0.53	0.53	0.53	0.53	0.53	0.53
	Expense	53,588	53,588	53,588	53,588	53,588	53,588
Supply Chain Warehouse Staffing	FTE	2.12	2.12	2.12	2.12	2.12	2.12
	Expense	248,271	248,271	248,271	248,271	248,271	248,271
Pure Water Program Expansion	FTE	-	-	13.00	13.00	13.00	13.00
	Expense	-	-	1,636,751	1,636,751	1,636,751	1,636,751
Total FTE		2.15	2.15	15.15	15.15	15.15	15.15
Total Expense		\$266,101	\$266,101	\$1,902,851	\$1,902,851	\$1,902,851	\$1,902,851

- ❖ Baseline expenditures show modest increases based on City's personnel expenditure trends, and include 871.74 FTE positions
- ❖ Critical Strategic Expenditures are largely driven by Pure Water Program
 - ❖ Again, Pure Water positions still need to have classifications created



Wastewater System Expenditures – Supplies

Table 5.7 - Supplies - Baseline Expenditures (\$ in Millions)						
	FY 2018 Actuals	FY 2019 Projection	FY 2020	FY 2021	FY 2022	FY 2023
Growth Rate	N/A	5.1%	3.7%	3.7%	3.7%	3.7%
Projection	\$23.6	\$24.8	\$25.7	\$26.6	\$27.6	\$28.6

Table 5.8 - Critical Strategic Expenditures - Supplies					
Request	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Pure Water Program Expansion	10,000	\$5,000	\$3,027,235	\$4,327,993	\$6,049,470
Total Expense	10,000	\$5,000	\$3,027,235	\$4,327,993	\$6,049,470

- ❖ Supplies category baseline expenditures includes various growth rates, and each component uses a different growth rate
 - ❖ Average growth rate of each category is displayed
- ❖ Critical Strategic Expenditures are driven by Pure Water Program



Wastewater System Expenditures – Contracts

Table 5.9 - Contracts - Baseline Expenditures (\$ in Millions)						
	FY 2018 Actuals	FY 2019 Projection	FY 2020	FY 2021	FY 2022	FY 2023
Growth Rate	N/A	3.5%	3.5%	3.5%	3.6%	3.6%
Projection	\$75.7	\$74.4	\$77.1	\$79.8	\$82.7	\$85.6

Table 5.10 - Critical Strategic Expenditures - Contracts					
Request	FTE/Exp	FY 2020	FY 2021	FY 2022	FY 2023
Pure Water Program Expansion	Expense	\$ -	\$ -	\$3,060,560	\$5,549,460
Digester Cleanings	Expense	2,550,000	-	3,300,000	-
Participating Agencies - True-Up Payments	Expense	-	3,600,000	4,000,000	3,000,000
Cost of Service Study Consulting Services	Expense	-	-	-	300,000
Hale Avenue Resource Recovery Facility Payment	Expense	(600,000.00)	(600,000.00)	(600,000.00)	(600,000.00)
Total Expense		\$1,950,000	\$3,000,000	\$9,760,560	\$8,249,460

- ❖ Contracts baseline expenditures includes various growth rates, and each component uses a different growth rate
 - ❖ Average growth rate of each category is displayed
- ❖ Critical Strategic Expenditures include Pure Water Program and anticipated True-Up Payments to Participating Agencies
- ❖ Hale Avenue item shows decreases due to completion of project



Wastewater System Expenditures – IT

Table 5.11 - Information Technology - Baseline Expenditures (\$ in Millions)							
	FY 2018 Actuals	FY 2019 Projection	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Growth Rate	N/A	11.3%	7.7%	11.1%	2.2%	1.0%	2.7%
Projection	\$7.3	\$8.1	\$8.7	\$9.7	\$9.9	\$10.0	\$10.3

Table 5.12 - Critical Strategic Expenditures - Information Technology						
Request	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
LIMS Implementation	\$182,900	\$108,125	\$108,125	\$108,125	\$108,125	
EAM Tracking Software	159,000	159,000	265,000	265,000	265,000	
IT Infrastructure Network and Cloud Services	147,950	147,950	37,950	37,950	37,950	
IT Roadmap - Modernization of Legacy Systems	220,000	220,000	220,000	220,000	220,000	
PC Refresh	-	-	-	825,000	-	
COMNET System Support	2,920,437	2,716,333	2,716,333	2,716,333	2,716,333	
IT Run the Business & Enhancements	359,890	359,890	359,890	359,890	359,890	
Total Expense	\$3,990,177	\$3,711,298	\$3,707,298	\$4,532,298	\$3,707,298	

- ❖ IT Baseline uses estimates of IT costs and California CPI
 - ❖ Average growth rate of each category is displayed
- ❖ Variety of Critical Strategic Expenditures, including COMNET, LIMS, EAM, and Modernization



Wastewater System Expenditures – Energy/Utilities

Table 5.13 - Energy & Utilities - Baseline Expenditures (\$ in Millions)							
	FY 2018 Actuals	FY 2019 Projection	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
Growth Rate	N/A	2.0%	2.8%	3.5%	3.5%	3.3%	3.7%
Projection	\$19.9	\$20.3	\$20.9	\$21.6	\$22.4	\$23.1	\$24.0

Table 5.14 - Critical Strategic Expenditures - Energy & Utilities						
Request	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	
Pure Water Program Expansion	-	-	\$2,897,397	\$4,093,075	\$5,794,794	
Total Expense	-	-	\$2,897,397	\$4,093,075	\$5,794,794	

- ❖ Energy and Utilities Baseline includes various components
 - ❖ Energy Growth Rates are based on US Energy Information Administration's Annual Energy Outlook
- ❖ Pure Water Program requires significant energy costs as it comes online in FY 2022-2024, which are included in Critical Strategic Expenditures



Wastewater System Reserves

Table 5.15 - Reserve Target Levels (\$ in Millions)						
	FY 2019 Projection	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022	Fiscal Year 2023	Fiscal Year 2024
Operating Reserve Target (\$)	\$47.8	\$46.4	\$47.9	\$51.6	\$52.9	\$55.2
Operating Reserve Level (\$)	\$48.3	\$48.3	\$48.3	\$51.6	\$52.9	\$55.2
Rate Stabilization Fund Target (\$)	\$18.0	\$17.3	\$17.6	\$18.3	\$19.3	\$20.3
Rate Stabilization Fund Level (\$)	\$75.3	\$70.3	\$65.3	\$50.3	\$35.3	\$35.3
Capital Reserve Target (\$)	\$10.0	\$10.0	\$10.0	\$10.0	\$10.0	\$10.0
Capital Reserve Level (\$)	\$10.0	\$10.0	\$10.0	\$10.0	\$10.0	\$10.0

- ❖ Reserves are fully funded at targeted levels throughout Outlook period
- ❖ Assumes use of Rate Stabilization Reserve
 - ❖ \$5 million in FY 2020 and 2021; \$15 million in FY 2022 and 2023



Wastewater System CIP Expenditures by Category

Table 5.18 - Summary of Projected CIP Projects ⁽¹⁾⁽²⁾ FY 2020 through FY 2024 (\$ in Millions)						
Wastewater CIP Projects	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	Total
Pure Water Program ⁽³⁾	\$190.0	\$220.2	\$124.5	\$38.4	\$5.9	\$579.0
Trunk Sewers	\$14.3	\$32.4	\$48.7	\$37.9	\$24.6	\$157.9
Muni Pump Station	\$0.3	\$0.6	\$7.6	\$12.5	\$29.9	\$50.9
Sewer Pipelines	\$57.8	\$45.5	\$63.1	\$57.1	\$54.7	\$278.2
Miscellaneous Projects	\$8.5	\$3.2	\$0.5	\$4.1	\$1.2	\$17.5
SDG&E Relocation	\$33.6	\$0.0	\$0.0	\$0.0	\$0.0	\$33.6
Sewer Treatment Plants	\$28.3	\$32.5	\$19.0	\$8.3	\$1.5	\$89.7
Large Sewer Pump Station	\$24.8	\$11.3	\$3.8	\$8.4	\$8.2	\$56.6
Total⁽⁴⁾	\$357.7	\$345.7	\$267.2	\$166.8	\$126.0	\$1,263.4

⁽¹⁾ Projections as of March 2018 for the Wastewater System Baseline CIP and October 2018 for the Pure Water Program.

⁽²⁾ The projected amounts in Fiscal Years 2019 and onward reflect an annual inflation rate of 3.1% due to anticipated increases in construction costs over time and the expected execution of the CIP.

⁽³⁾ Projections are based on expected completion of the Pure Water Project by the end of February 2024 and include only the portion of the Pure Water Program attributable to the Wastewater System.

⁽⁴⁾ Figures may not add to total due to independent rounding.



Wastewater System CIP Funding Sources

Table 1.4 - Wastewater System Fiscal Year 2020-2024 Financial Outlook Summary of Capital Improvement Program Key Financial Data (\$ in Millions)					
	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022	Fiscal Year 2023	Fiscal Year 2024
Baseline CIP	\$167.7	\$125.5	\$142.8	\$128.4	\$120.1
Pure Water CIP	\$190.0	\$220.2	\$124.5	\$38.4	\$5.9
TOTAL CIP EXPENDITURES	\$357.7	\$345.7	\$267.2	\$166.8	\$126.0
SOURCES OF FUNDS					
Revenue Bonds	\$0.0	\$0.0	\$145.0	\$116.0	\$90.0
State Revolving Funds	\$262.2	\$232.6	\$9.9	\$0.6	\$0.0
Capacity Fees	\$16.0	\$16.0	\$16.0	\$16.0	\$16.0
Grants	\$12.7	\$0.0	\$0.0	\$0.0	\$0.0
Cash	\$66.8	\$97.1	\$96.4	\$34.3	\$20.0
FINANCING SOURCES	\$357.7	\$345.7	\$267.2	\$166.8	\$126.0

- ❖ Funding consists of various loans/debt, grants, and cash
- ❖ SRF Loans are assumed to fund Pure Water Projects
 - ❖ If SRF Funds are not awarded, the Department will have to pursue higher cost debt to support Wastewater Pure Water CIP Expenditures

Attachment 13A
Progress Update
Alternatives Study
Phase II Pure
Water

Pure Water Phase 2 Planning Update

Metro TAC

May 15, 2019

Doug Owen, Stantec
Consultant Team Manager
Pure Water Program



Acknowledgements

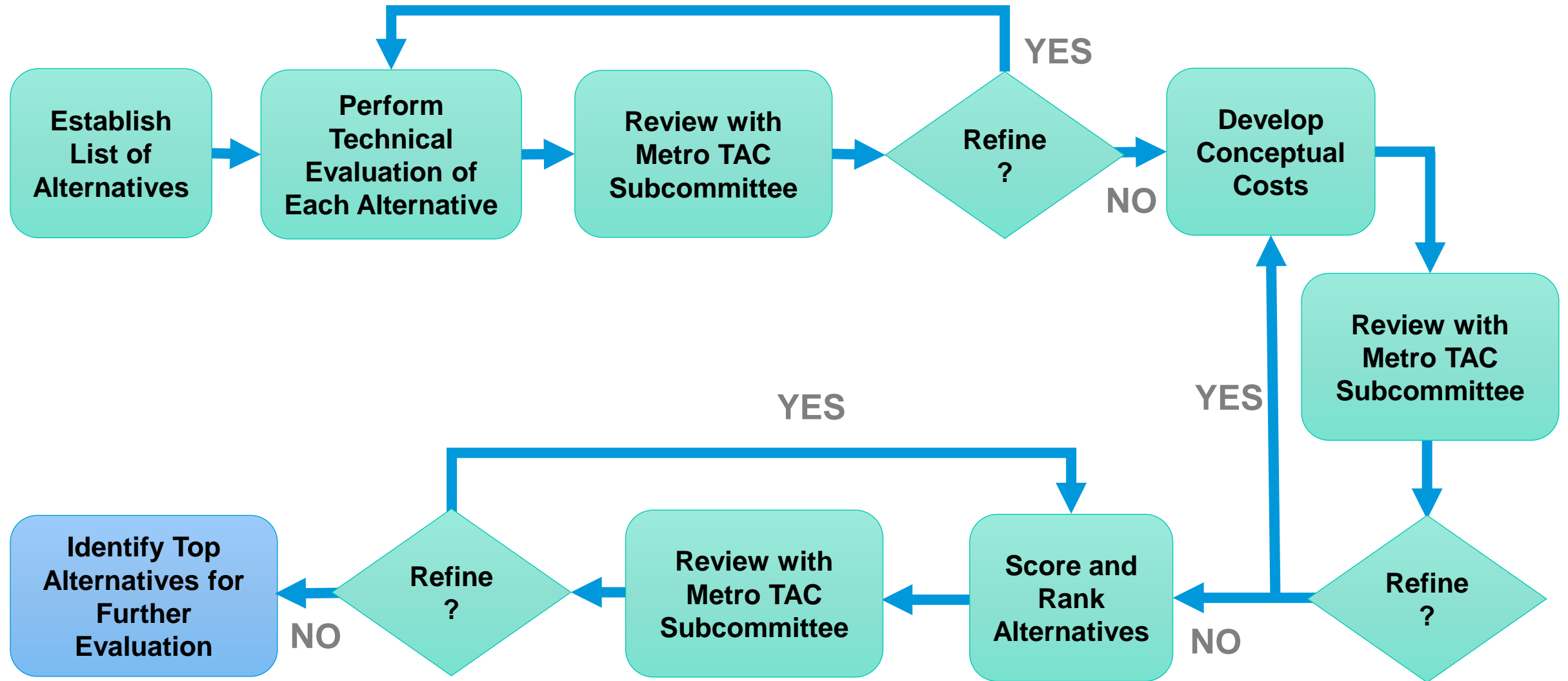
Roberto Yano, City of Chula Vista
Dexter Wilson, Dexter Wilson Engineering
Scott Tulloch, Consultant (NV5)
Seval Sen, Padre Dam MWD

John Helminski, City of San Diego
Amer Barhoumi , City of San Diego
Alan Langworthy , City of San Diego
Victor Occiano, Brown and Caldwell

- Work Flow Diagram
- Review of Phase 2 Alternatives
- Scoring and Ranking
- Alternatives to Further Evaluate



Phase 2 Alternative Analysis – Work Flow



Alternative Development includes combinations of:

- Water Reclamation Plant
 - Point Loma
 - Harbor Drive
 - South Bay
- Purified Water Facility
 - Harbor Drive
 - Mission Valley
 - South Bay
- With and Without Waiver/Secondary Equivalency
- Brine/Centrates bypass of PLWTP directly to ocean outfall
- Padre Dam 10.5 mgd ECAWP facility a part of a "regional" 83 mgd solution



Phase 2 Alternative Description

Alternative	Description
1 – Baseline	WRP at Harbor Drive PWF at Mission Valley for 53 mgd
2 – Baseline with Brine/Centrates Bypass PLWTP	Alt 1 with treated centrate and brine to Pt. Loma outfall Full secondary at the PLWTP
3 – WRP at PLWTP	WRP at PLWTP PWF at Harbor Drive for 53 mgd Treated centrate/brine to outfall
4 – 53 mgd at South Bay	WRP and PWF at South Bay
5 – South Bay Hybrid	WRF/PWF at South Bay for 15 mgd WRF/PWF at Harbor Drive for 28 mgd Padre Dam 10 mgd part of 83 mgd Treated centrate/brine to outfall for full secondary
6 – Central Area Hybrid	WRP at Harbor Drive PWF at Mission Valley for 43 mgd Padre Dam 10 mgd part of 83 mgd Treated centrate/brine to outfall for full secondary



Determination of Flows to PLWTP

AADF – Normal

AADF Metro Flows
- Flow to NCWRP
- Flow to RSWRF
- Flow to CAWRP
- Flow to SBWRP
+Waste Streams**

PLWTP Influent

AADF – Failure

AADF Metro Flows
- Flow to NCWRP
- Flow to RSWRF
- Flow to CAWRP
- Flow to SBWRP
+ Off-Spec from CAWRP
+Waste Streams**

PLWTP Influent

PWWF

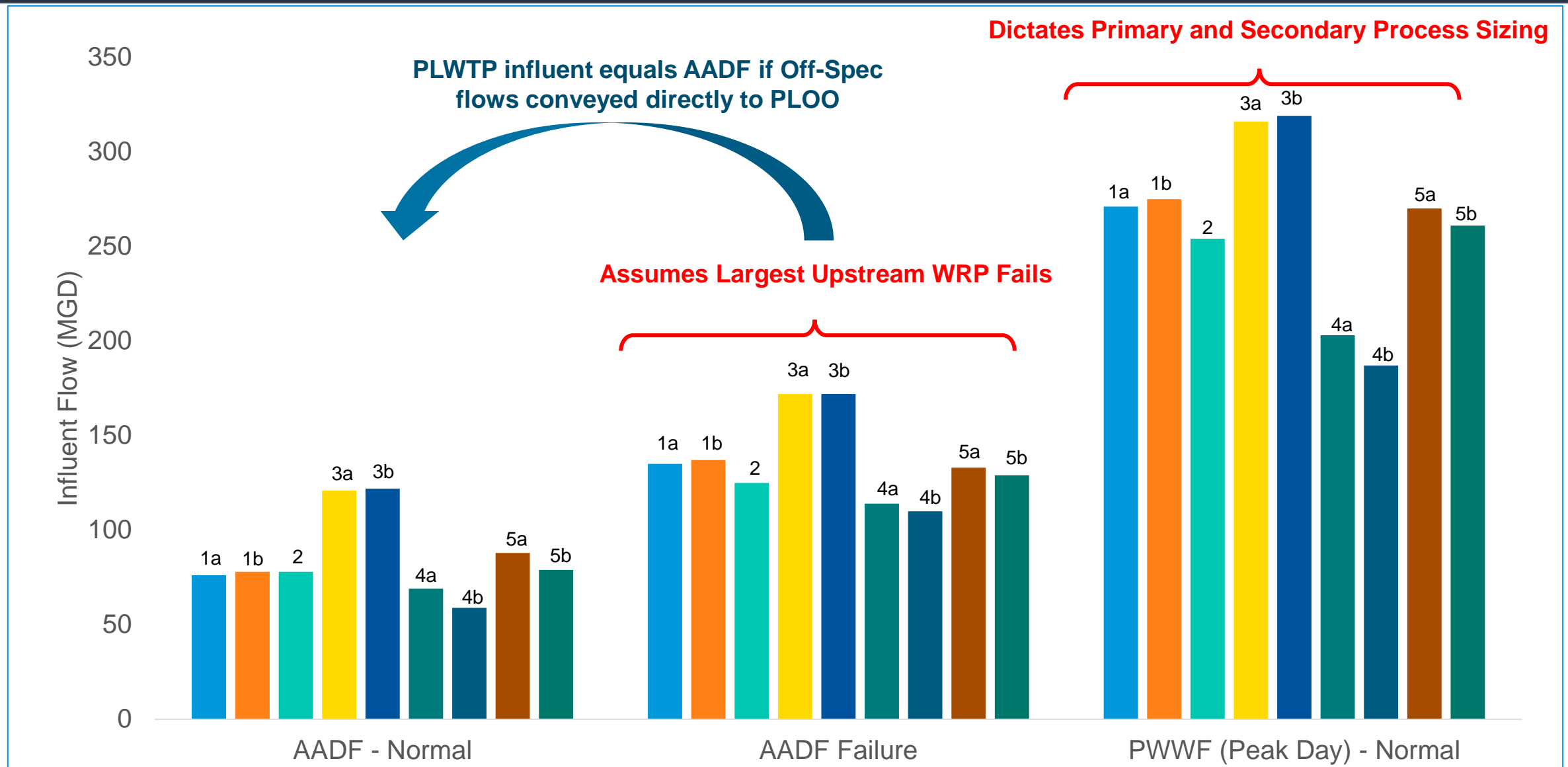
(AADF x 2) Metro Flows
- **Flow to NCWRP***
- Flow to RSWRF
- Flow to CAWRP
- 2 x AADF Flow to SBWRP
+ Waste Streams**

PLWTP Influent

* Reduced influent to produce 1.4 mgd NPR and 34 mgd Purified Water

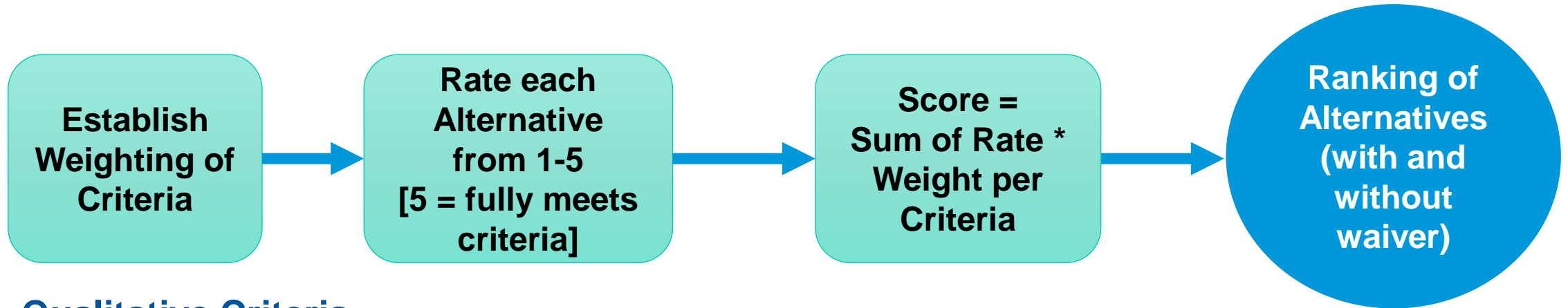
** No waste streams from upstream plants if bypass pipeline to PLOO exists. Internal recycle included when sizing process facilities.

SD Influent Flows to PLWTP





Scoring and Ranking of Alternatives



Qualitative Criteria

- Health and Safety
- Social Value
- Environmental Value
- Property and Easement Acquisition
- System Complexity
- System Efficiency
- Operational Reliability and Flexibility
- Ability to Implement
- [Cost*]

* Ranking performed with and without cost to compare

Number	Criteria	Objective	Assigned Weight (Total = 100)	Alternatives Score (with Waiver)				Alternatives Score (without Waiver)				
				1A	3A	5A	6A	1B	2	3B	5B	6B
				Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating	Rating
1	Health and Safety	To protect human health and safety through proper treatment of wastewater prior to discharge and reduced exposure to untreated or partially treated wastewater	5	2	3	1	2	2	2	3	1	2
2	Social Value	To provide balanced distribution of purified water	5	4	4	5	4	4	4	4	5	4
3	Environmental Value	To comply with the City's Climate Action Plan, minimize greenhouse gas emissions, and enhance, create or improve local habitat or ecosystems	5	4	4	3	4	3	3	3	2	3
4	Property and Easement Acquisition	To minimize the need for property and easement acquisition	5	5	4	3	5	5	4	4	2	4
5	System Complexity	To provide an operator friendly system	15	4	2	4	4	3	2	2	2	2
6	System Efficiency	To maximize the use of constructed facilities and minimize stranded assets	10	4	4	1	4	4	4	4	1	4
7	Operational Reliability and Flexibility	To maximize ability of facilities to perform and comply with regulatory standards under a range of future conditions	20	3	3	4	3	4	4	4	5	4
8	Cost	To minimize total Capital Cost to the community (EXCLUDES Capital Cost of East County Project)	20	4	2	4	5	3	2	2	2	2
9	Ability to Implement	To optimize political and public acceptability, minimize disruption to the community	15	4	3	3	4	4	3	3	2	3
TOTAL			100	381	296	327	395	346	303	309	259	304
			RANKING	2	4	3	1	1	4	2	5	3

Note: Rating: 1 – Minimally Meets Objective; 5 – Completely Meets Objective
Total Score = Σ (Rating x Criteria)



Alternative Ranking

Alternative	Description	With Waiver	Full Secondary
1 – Baseline	WRP at Harbor Drive PWF at Mission Valley for 53 mgd	2 / 1*	1 / 1
2 – Baseline with Brine/ Centrate Bypass PLWTP	Alt 1 with treated centrate and brine to Pt. Loma outfall Full secondary at the PLWTP	N/A	4 / 4
3 – WRP at PLWTP	WRP at PLWTP PWF at Harbor Drive for 53 mgd Treated centrate/brine to outfall	4 / 4	2 / 2
4 – 53 mgd at South Bay	WRP and PWF at South Bay	N/A	N/A
5 – South Bay Hybrid	WRF/PWF at South Bay for 15 mgd WRF/PWF at Harbor Drive for 28 mgd Padre Dam 10 mgd part of 83 mgd Treated centrate/brine to outfall for full secondary (B)	3 / 3	5 / 5
6 – Central Area Hybrid	WRP at Harbor Drive PWF at Mission Valley for 43 mgd Padre Dam 10 mgd part of 83 mgd Treated centrate/brine to outfall for full secondary (B)	1 / 1	3 / 4
* First score includes cost in ranking, second score excludes cost in ranking			



Alternative Ranking

Alternative	Description	With Waiver	Full Secondary
1 – Baseline	WRP at Harbor Drive PWF at Mission Valley for 53 mgd	2 / 1	1 / 1
2 – Baseline with Brine/ Centrate Bypass PLWTP	Alt 1 with treated centrate and brine to Pt. Loma outfall Full secondary at the PLWTP	5 / 5	3 / 4
3 – WRP at PLWTP	WRP at PLWTP PWF at Harbor Drive for 53 mgd Treated centrate/brine to outfall	4 / 4	2 / 2
4 – 53 mgd at South Bay	WRP and PWF at South Bay	N/A	N/A
5 – South Bay Hybrid	WRF/PWF at South Bay for 15 mgd WRF/PWF at Harbor Drive for 28 mgd Padre Dam 10 mgd part of 83 mgd Treated centrate/brine to outfall for full secondary (B)	3 / 3	5 / 5
6 – Central Area Hybrid	WRP at Harbor Drive PWF at Mission Valley for 43 mgd Padre Dam 10 mgd part of 83 mgd Treated centrate/brine to outfall for full secondary (B)	1 / 1	3 / 4



Options for Each Alternative for Further Study

- With Secondary Equivalency (permanent waiver) or without
- Bypassing brine/centrate in a dedicated pipeline directly to the outfall
- Including or excluding the Padre Dam EAWP facility as a part of a “regional” 83 mgd purified water program



Alternatives for Further Evaluation

Alternative	Designation	Waiver / Secondary Equivalency		Brine / Treated Centrate Bypass to PLOO		Phase 2 Purified Water Production (mgd)	
		Yes	No	Yes	No	53	43
1	A (1)	X			X	X	
	B (2)		X		X	X	
	C	X		X		X	
	D		X	X		X	
	E	X			X		X
	F		X		X		X
	G (3)	X		X			X
	H (4)		X	X			X
3	A (5)	X		X		X	
	B (6)		X	X		X	
	C	X		X			X
	D		X	X			X

Notes:

1. Alternative 1A in this study
2. Alternative 1B in this study
3. Alternative 6A in this study
4. Alternative 6B in this study
5. Alternative 3A in this study
6. Alternative 3B in this study



Conceptual Phase 2 Milestones ⁽¹⁾

Milestone	Phase 2
Phase 2 validation of preferred alternatives	June 2019 – February 2020
Demonstration testing	October 2019 (design/construction) - 2026
10% Design	July 2023 – July 2024
Environmental Permitting	July 2024 – July 2029
30% Design	January 2025 – January 2026
Final Design	2027-2029
Construction	2029 – 2033 ⁽²⁾

1. To be updated during the alternative validation
2. 2035 deadline for Pure Water production

Questions?

Attachment 17

MetroTAC Update

**Metro TAC Work Plan
Active & Pending Items
January 2019**
Updated Items in Red Italics

Active Items	Description	Member(s)
Muni Transportation Rate Study Working Group	San Diego has hired Carollo Engineers to review the existing transportation rate structure. A work group has been formed to review and give input. First meeting will be in December 2017. Although this is a muni issue it is included on the work plan due to its significance and potential effect on all Metro TAC members. 3/18: Technical consultants to meet with PUD staff and Carollo on 3/22/18 to review model in detail 6/18: JPA technical consultants continue to work with PUD staff on understanding rate calculations <i>1/19: Working group still meeting with PUD staff & consultants.</i>	Roberto Yano Yazmin Arellano Dan Brogadir Carmen Kasner Mark Niemiec Dexter Wilson SD staff
Point Loma Permit Ad Hoc	Metro Commission/JPA Ad Hoc established 9/17. GOAL: Create regional water reuse plan so that both a new, local, diversified water supply is created AND maximum offload at Point Loma is achieved to support legislation for permanent acceptance of Point Loma as a smaller advanced primary plant. Minimize ultimate Point Loma treatment costs and most effectively spend ratepayer dollars through successful coordination between water and wastewater agencies. 10/17: Group has met several times. Discussions are ongoing. 3/18: Group continues to meet at least monthly. 6/18: Group continues to meet monthly. Outreach subgroup formed. <i>1/19: This group continues to meet as needed.</i>	Jerry Jones Jim Peasley Ed Spriggs Bill Baber Steve Padilla Metro TAC staff & JPA consultants
Phase II Pure Water Facilities Working Group	Created to work with SD staff & consultants on determining Phase II facilities. <i>1/19: Work group has eliminated two alternatives and continues to review updated facilities and their costs. Presentation to Metro TAC by Stantec re: Phase 2 Flows and Loads. Copy attached to Metro TAC minutes.</i>	Roberto Yano Seval Sen Scott Tulloch Dexter Wilson SD staff & consultants
Residuals Management Working Group	This working group was formed to continue work on Sections 2.9.2 and 2.9.3 of the Amended and Restated Agreement regarding the potential transfer of the East Mission Gorge Pumps Station and the disposal, treatment, or transfer of residuals. <i>1/19: Group continues to meet.</i>	Eric Minicilli Yazmin Arellano Dan Brogadir Seval Sen Scott Tulloch Dexter Wilson SD staff & consultants
Phase I Financial Implementation Work Group	This working group was formed to continue to work on Section 2.9.1 and other financial implementations issues associated with the Amended Restated Agreement. <i>1/19: Working group had formation meeting 12/18. Has prepared draft task list and task assignments for group members and SD staff. Will meet at least monthly until tasks are complete. Ownership of EMGPS determined. Appraisal in progress.</i>	Karyn Keese Dexter Wilson SD staff & consultants
Phase II Disposal Agreement Working Group	This group replaces the Debt Allocation Working Group with the approval of the Amended and Restated Agreement for Phase 1. <i>1/19: Group will start meeting in February</i>	Roberto Yano Karyn Keese Scott Tulloch Dexter Wilson SD staff & consultants

**Metro TAC Work Plan
Active & Pending Items
January 2019**
Updated Items in Red Italics

Active Items	Description	Member(s)
Pretreatment Working Group	Formed to work with San Diego on new standards for industrial waste discharge. <i>1/19: SD has received draft report from consultant but has sent back for revisions. Second draft will be reviewed by working group.</i>	Yazmin Arellano Mark Niemiec Ed Walton Beth Gentry Dexter Wilson SD Staff & Consultants
JPA Website Update Working Group	The JPA Website, especially the New Director Manual, has not been updated for several years. As we have several new Directors, the manual needs to be updated. <i>1/19: Working group formed. First meeting 2/20/19.</i>	Roberto Yano Karyn Keese Lori Peoples Susan Spotts
Exhibit E Audit	<i>1/19: FYE 2017 fieldwork complete. FYE 2018 entrance conference complete. Sample selection under way.</i>	Karen Jassoy Karyn Keese Dexter Wilson
IRWMP	Members should monitor funding opportunities at: http://www.sdirwmp.org <i>1/19: PA representatives continue to report monthly at Metro TAC</i>	Yazmin Arellano Beth Gentry
Strength Based Billing Evaluation	San Diego will hire a consultant every three years to audit the Metro metered system to insure against billing errors. <i>1/19: 2019 is the year for the billing review. Scope to be discussed at Financial Implementation Work Group and then brought to TAC. This group combined w/ Sample Rejection Protocol Working Group. SBB workshop by SD staff still outstanding.</i>	Dan Brogadir Dennis Davies? Karyn Keese Mark Niemiec Dexter Wilson SD Staff
Changes in water legislation	Metro TAC and the Board should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues	Inactive; Members added as needed

Metro TAC Work Plan

Annual 2018 Work

Completed

Closed January 2019

Updated Items in Red Italics

Active Items	Description	Member(s)
Pure Water Facilities Working Group	This subcommittee was formed by Metro TAC and is a technical group of engineers and supporting financial staff to work with San Diego staff and consultants on cost allocations for proposed Pure Water facilities. This group meets at least monthly. Current projects include North City and MBC expansions. First meeting was 3/24/17. Roberto Yano is the chair. 5/17: Group continues to meet monthly with PUD and PWP consultants. Reviewed and accepted cost allocation for MBC. 7/17: Facilities WG has submitted their comments to the City of SD on the 30% design of the North City Expansion Project. They are working cooperatively with PUD staff and consultants in the review of the design and their comments. 9/17: Positive progress, reviewed Construction package 1 and 3 and provided comments 10/17: Continued work w/SD on cost allocation of major PWP facilities. Projected draft cost allocation document in November/December 2017. 3/18: Working group have reviewed all four construction design packages and has turned in comments & questions to PUD staff. Work on cost allocation continues. 6/18: Continued review of designs & questions. <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Yazmin Arellano Dan Brogadir Steve Beppler Al Lau Scott Tulloch Dexter Wilson Roberto Yano SD staff & consultants
Sample Rejection Protocol Working Group	7/16: The sample rejection protocol from the B&C 2013 report has been under discussion between PUD staff and Metro TAC. A working group was formed to deal with this highly technical issue and prepare draft recommendations on any changes to current sampling procedures. The existing protocol is to be used through FY17. If changes are approved to the protocol they will be implemented in FY18. 1/17: Work group continues to meet monthly. 6/17: Working Group has complete their review. Three work items to be brought forward at June Metro TAC and during the next fiscal year quarter: 1) Edgar Patino will write memo to support decisions of working group. 2) PUD financial staff to provide workshop for PAs during next fiscal year quarter to go over strength based billing and how to understand sampling data and quarterly billings. Training session to be videotaped and uploaded to the JPA website 3) Dexter Wilson to provide draft protocol on how to read and validate quarterly billings. March 2018: PUD staff has prepared the draft memo and has distributed it to the working group 6/18: Memo presented to TAC and accepted as Protocol #3. Only remaining task is SBB training session.	Dennis Davies Dan Brogadir Al Lau Dexter Wilson Erin Bullers SD staff
PLWTP Permit Ad Hoc Working Group	1/17: Greg Humora and Scott Tulloch continue to meet with stakeholders. . Milestones are included in each month Metro TAC and Commission agenda packet. <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Greg Humora Scott Tulloch SD staff & consultants Enviro members

Metro TAC Work Plan

Annual 2018 Work

Completed

Closed January 2019

Updated Items in Red Italics

Active Items	Description	Member(s)
Flow Commitment Working Group	6/16: Upon the request of Metro Com Chair Jim Peasley Chairman Humora created a working group to review the Flow Commitment section of the Regional Agreement and make recommendations on the fiscal responsibilities of members who might withdraw their flow from the Metro System. The Work Group held their first meeting June 24, 2016. Yazmin Arellano chairs the work group. 1/17: Work group continues to meet monthly. 4/17: Group has prepared draft RFP to hire engineering consultant to update Pt. Loma capacities. 7/17: Working Group is waiting for additional data from PUD staff and is finalizing the scope and selection of a consultant for the Pt. Loma Cost Capacity Study 10/17: Metro System Sewage Generated Flow projections worksheet handed out. Copy attached. 3/18: Working group continues to meet monthly; presentation made at March Metro TAC meeting. Agencies to review draft capacity numbers and provide comments by April Metro TAC meeting. 6/18: New capacity numbers developed and incorporated into draft Amendment. <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Yazmin Arellano Roberto Yano Erin Bullers Eric Minicilli Al Lau Dexter Wilson Karyn Keese SD staff
Secondary Equivalency	5/14: Definition of secondary equivalency for Point Loma agreed to be enviros 12/14: Cooperative agreement signed between San Diego and enviros to work together to pass legislation for secondary equivalency (until 8/1/19) San Diego indicated that passage of Federal legislation is not possible under the current political environment. San Diego is exploring options for State legislation 9/15: Letter received from EPA endorsing modified permit for Point Loma 6/16: Pursuit of Federal Legislation will be held off until after the November 2016 election. City of San Diego to consult with DC lobbyists on 2/4/17 6/17: Mayor Faulconer to meet with EPA Washington re: proceeding with Admin Fix. JPA to send letter stating that they do not support Admin Fix and request pursuit of permanent legislation instead. 10/17: SD is pursuing both Admin Fix and Secondary Equivalency legislation in Washington; Ad Hoc to monitor efforts. Updates to be provided by SD staff/consultants at each Metro Commission meeting. <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Greg Humora Scott Tulloch
Pure Water Program Cost Allocation Working Group	A working group was formed to discuss Pure Water program cost allocation policies. 9/16: Concepts to be refined by Metro TAC and San Diego staff for presentation to Commission 1/17. 4/17: This group is currently being supported on a technical level by the Pure Water Facilities Subcommittee. 7/17: Working group is reviewing full PWP components list with PUD staff. 3/18: Cost allocation continues. Phase I cost allocation to be set based on outcome of bids for 13 PWP construction packages due to be bid in the fall of 2018. 6/18: Award of blanket contract approval by San Diego City Council moved to 10/2/18. <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Greg Humora Scott Tulloch Roberto Yano Karyn Keese SD staff & consultants

Metro TAC Work Plan

Annual 2018 Work

Completed

Closed January 2019

Updated Items in Red Italics

Active Items	Description	Member(s)
Pure Water Program Cost Allocation Metro TAC Working Group	5/14: Draft facility plan and cost allocation table provided to Metro TAC working group 3/15: Draft cost allocation presentation provided to Metro TAC <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Greg Humora Scott Tulloch Rick Hopkins Roberto Yano Al Lau Bob Kennedy Karyn Keese
Amend Regional Wastewater Disposal Agreement	The addition of Pure Water facilities and costs will likely require the amendment of the 1998 Regional Wastewater Disposal Agreement. The Padre Dam billing errors have led to a need to either amend the Agreement and/or develop administrative protocols to help resolve potential future billing errors. After Pure Water cost allocation had been agreed to this effort will begin. <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Greg Humora Roberto Yano Dan Brogadir Karyn Keese Paula de Sousa Mills
Debt Allocation Working Group	3/18: Working group has been preparing an MOU and draft Amendment to the Regional Disposal Agreement to incorporate cost allocation "deal points" into a formal document. Draft MOU and Agreement has been reviewed by Ad Hoc and will go to Metro TAC at their March meeting. 6/18: Draft amendment is still under negotiation with San Diego staff. 5/14/18 version presented to Metro TAC and JPA/Commission. <i>1/19: With the approval of the San Diego City Council of the Amended Restated Agreement in December 2018 this working group has been closed and replaced.</i>	Greg Humora Roberto Yano Scott Tulloch Dexter Wilson Karyn Keese Paula de Sousa Mills Nicholas Norvell
Exhibit E Audit	6/16: FY 2013 audit accepted by Metro Commission; 9/16: FYE 2014 audit accepted by Metro Commission. FYE 2015 audit report to be issued by end of 2016 and then all audits will be caught up. 1/17: FYE 2015 to be issued in February 2017. FYE 2016 fieldwork is underway with anticipated draft 7/17. 3/17: FYE 2015 audit report issued. Acceptance pending resolution of PWP cost allocation for cost incurred in that fiscal year. 5/17: FYE 2015 audit to move forward as requested costs have been received. FYE 2016 audit field work complete. 6/17: FYE 2015 audit accepted by JPA with assurances that once the PWP cost allocation is complete and approved by all parties that incurred costs will be adjusted as necessary to approved split of shared costs between water and wastewater. FYE 2016 audit field work complete. Completion anticipated in October 2017. 10/17: FYE 2017 Exhibit E Audit has begun. 3/18: FYE 2016 audit completion date moved to 4/18. FYE 2017 preliminary draft number prior to fieldwork is showing an increase from \$65 million PA share to \$70 million. 6/18: Exhibit E 2016 audit completion projected to be 7/18. <i>1/19: FYE Exhibit E audit completed 7/18.</i>	Karyn Keese Karen Jassoy Dexter Wilson SD staff

Metro TAC Work Plan

Annual 2018 Work

Completed

Closed January 2019

Updated Items in Red Italics

Active Items	Description	Member(s)
IRWMP	8/15 RAC minutes included in August Metro TAC agenda. Padre Dam received a \$6 million grant for their project. 9/16: June 2, 2016 and August 3, 2016 minutes presented to Metro TAC. 12/16: Roberto Yano and Yazmin Arellano appointed to IRWMP. 5/17: Roberto Yano providing monthly updates as well as grant funding opportunities 6/17: Robert Yano urged Metro TAC members to visit the IRWMP website to keep on top of funding opportunities: http://www.sdirwmp.org ; Yazmin to attend June meeting. 10/17: Roberto Yano requested comments from TAC on storm water presentation to be provided to IRWMP 10/17: Yazmin gave update on Prop 1 and other funding sources. Members should monitor funding opportunities at: http://www.sdirwmp.org	Roberto Yano Yazmin Arellano
Pure Water EIR Comment Ad Hoc Sub Committee	Created at September 2017 Metro TAC meeting. Purpose to provide technical review of the Pure Water Program EIR and provide draft comments for Metro TAC/JPA review. 10/17: Dexter Wilson & Carmen Kasner reviewed their comments w/Metro TAC. They will forward comments to Chair Humora & he will forward to San Diego. 3/18: Comments submitted to EIR staff. Response from San Diego does not address all issues. Technical consultants and Ad Hoc working with City staff on issues. 6/18: One lawsuit filed by La Jolla Planning Group against the EIR. San Diego extends JPA tolling agreement for 60 days. <i>1/19: EIR certified. Group closed</i>	Roberto Yano Dexter Wilson Carmen Kasner Lisa Coburn-Boyd Paula de Sousa Mills
Sample Rejection Protocol Working Group	7/16: The sample rejection protocol from the B&C 2013 report has been under discussion between PUD staff and Metro TAC. A working group was formed to deal with this highly technical issue and prepare draft recommendations on any changes to current sampling procedures. The existing protocol is to be used through FY17. If changes are approved to the protocol they will be implemented in FY18. 1/17: Work group continues to meet monthly. 6/17: Working Group has complete their review. Three work items to be brought forward at June Metro TAC and during the next fiscal year quarter: 1) Edgar Patino will write memo to support decisions of working group. 2) PUD financial staff to provide workshop for PAs during next fiscal year quarter to go over strength based billing and how to understand sampling data and quarterly billings. Training session to be videotaped and uploaded to the JPA website 3) Dexter Wilson to provide draft protocol on how to read and validate quarterly billings. March 2018: PUD staff has prepared the draft memo and has distributed it to the working group 6/18: Memo presented to TAC and accepted as Protocol #3. Only remaining task is SBB training session. <i>1/19: SBB training still outstanding.</i>	Dennis Davies Dan Brogadir Al Lau Dexter Wilson SD staff

Metro TAC

Participating Agencies

Selection Panel Rotation

Agency	Representative	Selection Panel	Date Assigned
County of San Diego	Dan Brogadir	As-Needed Condition Assessment Contract	3/24/2015
Chula Vista	Roberto Yano	Out on Leave	6/10/15
La Mesa	Greg Humora	North City to San Vicente Advanced Water Purification Conveyance System	6/10/15
Poway	Mike Obermiller	Real Property Appraisal, Acquisition, and Relocation Assistance for the Public Utilities Department	11/30/15
El Cajon	Dennis Davies	PURE WATER RFP for Engineering Design Services	12/22/15
Lemon Grove	Mike James	PURE WATER RFP Engineering services to design the North City Water reclamation Plant and Influence conveyance project	03/16/15
National City	Kuna Muthusamy	Passes	04/04/2016
Coronado	Ed Walton	As-Needed Environmental Services - 2 Contracts	04/04/2016
Otay Water District	Bob Kennedy	As Needed Engineering Services Contract 1 & 2	04/11/2016
Del Mar	Eric Minicilli	Pure Water North City Public Art Project	08/05/2016
Padre Dam	Al Lau	Biosolids/Cogeneration Facility solicitation for Pure Water	08/24/2016
County of San Diego	Dan Brogadir	Pure Water North City Public Art Project	08/10/2016
Chula Vista	Roberto Yano	Design Metropolitan Biosolids Center (MBC) Improvements Pure Water Program	9/10/2016
La Mesa	Greg Humora	Design of Metropolitan Biosolids Center (MBC) Improvements	9/22/16
Poway	Mike Obermiller	Electrodialysis Reversal (EDR) System Maintenance	12/7/16
El Cajon	Dennis Davies	As-Needed Construction Management Services for Pure Water	3/13/17
Lemon Grove	Mike James	Morena Pipeline, Morena Pump Station, Pure Water Pipeline and Dechlorination Facility, and the Subaqueous Pipeline	8/7/17
National City	Vacant	North City and Miramar Energy Project Landfill Gas and Generation- Pass	1/31/2018
Coronado	Ed Walton	North City and Miramar Energy Project Landfill Gas and Generation	1/31/2018
Otay Water District	Bob Kennedy	As Needed Engineering Services - Contracts 3 and 4 (H187008 & H187009)	2/16/2018
Del Mar	Joe Bride	Request for Proposal Owner Controlled Insurance Program (OCIP) Pure Water – 1 st email sent on 5/23/18 & 2 nd email sent on 5/29/18	5/23/18
Padre Dam	Al Lau	Request for Proposal Owner Controlled Insurance Program (OCIP) Pure Water (Mark Niemiec will participate)	5/31/18
County of San Diego	Dan Brogadir		

Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
La Mesa	Greg Humora		
Poway	Mike Obermiller		
El Cajon	Dennis Davies		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Joe Bride		
Padre Dam	Al Lau		
County of San Diego	Dan Brogadir		
Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
La Mesa	Greg Humora		
Poway	Mike Obermiller		
El Cajon	Dennis Davies		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Joe Bride		
Padre Dam	Al Lau		
County of San Diego	Dan Brogadir		
Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
La Mesa	Greg Humora		
Poway	Mike Obermiller		
El Cajon	Dennis Davies		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		

Sewer Rate Comparison for Metro Participating Agencies
Single Family Monthly Rates Based on 7 HCF of Water Usage
Effective January 1, 2019 for FY 2019

