



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, March 21, 2018

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 [February 21, 2018](#) (**Attachment to follow**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **INFORMATION:** Point Loma Renewable Energy Update (Chisti Dadachanji)
4. **REPORT:** Update from Regional Wastewater Disposal Agreement Flow Commitment Working Group (Yazmin Arellanos)
5. **REPORT:** Update from Pure Water Facilities Working Group (Roberto Yano)
6. **REPORT:** Update from Pure Water Cost Allocation Working Group (Scott Tulloch/Dexter Wilson)
7. **REPORT:** Update from Sample Rejection Protocol Working Group (Edgar Patino)
8. **REPORT:** Update from Pure Water EIR Subcommittee (Dexter Wilson/Roberto Yano)
9. Metro Wastewater Update (Standing Item) (Edgar Patino)
10. Pure Water Program Update (Standing Item) (John Helminski)
11. Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung)
12. Financial Update (Standing Item) (Karyn Keese)
13. IRWMP Update (Standing Item) (Robert Yano)
14. MetroTAC Work Plan (Standing Item) (Greg Humora) (**Attachment**)
15. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**April 5, 2018**)
16. Other Business of Metro TAC
17. Adjournment ([To the next Regular Meeting April 18, 2017](#))

Metro TAC 2018 Meeting Schedule

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

Attachment 1
Action Minutes of
February 21,
2018

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

ACTION MINUTES

DATE OF MEETING: February 21, 2018

TIME: 11:00 AM

LOCATION: MOC II Auditorium

MEETING ATTENDANCE:

Greg Humora, La Mesa
Roberto Yano, Chula Vista
Ed Walton, Coronado
Joe Bride, Del Mar
Yazmin Arellano, El Cajon
Dennis Davies, El Cajon
Eric Minicilli, Imperial Beach
Erin Bullers, La Mesa
Mike James, Lemon Grove
Dexter Wilson, Lemon Grove
Steven Beepler, Otay MWD
Kevin Koepper, Otay MWD
AL Law, Padre Dam MWD
Mark Niemiec, Padre Dam MWD
Rudy Guzman, Poway
Alex Heide, Poway
Dan Brogadir, County of San Diego
Susan Spotts, County of San Diego

John Helminski, City of San Diego
Raina Amen, City of San Diego
Seth Gates, City of San Diego
Juan Guerreiro, City of San Diego
Lee Ann Jones-Santos, City of San Diego
Peggy Merino, City of San Diego
Edgar Patino, City of San Diego
Tung Phung, City of San Diego
Surraya Rashid, City of San Diego

Doug Owen, Stantec

Scott Tulloch, NV5
Carmen Kasner, NV5
Karyn Keese, Keze Group
Lori Anne Peoples, Metro Comm/Metro JPA/MetroTAC

1. Review and Approve MetroTAC Action Minutes for the Meeting November 15, 2017

Chair Humora moved approval of the November 15, 2017 minutes. The motion was seconded by Dan Brogadir, and the minutes were approved unanimously.

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

No recap as there had not been a meeting since November 2017.

3. **REPORT: Update from Regional Wastewater Disposal Agreement Flow Commitment Working Group**

Yazmin Arellano noted that the Working Group will present at the March TAC meeting on updated system flow distribution.

4. **REPORT: Update from Pure Water Facilities Working Group**

Roberto Yano reported that all 4 packages San Diego put out for review had been looked over by Dexter Wilson and the Working Group and returned to the City of San Diego with comments. They are working to make it easier to track costs.

5. **REPORT: Update from Pure Water Cost Allocation Working Group**

Scott Tulloch reported that a lot of leg work had been done between water and wastewater and Dexter Wilson provided a brief overview. He stated that a written report would be provided at the next meeting and that the major deal points were as follows:

- Costs to be split between water and wastewater on N. City plant
- Water to pay for all improvements after Secondary treatment
- Water to pay for failsafe disposal
- Water to pay portions of preliminary treatment, primary and secondary that are oversized for Pure Water
- Water to pay the cost for brine disposal
- Revenue sharing will occur when cost of import water is higher than Pure Water and will be split between water and wastewater (annually).

Water authority raw water costs will be the baseline. There is a similar arrangement with the Carlsbad Desal Plant so they will be reviewing that as well.

Roberto Yano reemphasized that they were working on an efficient way to memorialize the work done and agreements with the City of San Diego and the Attorney and Metro JPA General Counsel.

6. **REPORT: Update from Sample Rejection Protocol Working Group**

Edgar Patino stated that he had sent a memo to the working group and requested feedback information as to accuracy but had not received a response so is pending for responses. There was conclusion previously that there was no need to change billing methodology for strength.

7. **ACTION: Consideration and Possible Action to Recommend Approval to the Metro Comm/Metro JPA of a Contract with Cal Sierra Construction, Inc. (ITB 10088277-18V) for Rehabilitation of Anthracite Media Beds, for Wastewater Treatment and Disposal Division Facilities**

Juan Guerreiro provided a Revised handout (see attachment A to these minutes) verbal overview of the proposed contract. Questions were raised as to why the other 5 applicants were deemed non-responsive.

Consensus was to table the item to the March TAC agenda to allow time to obtain the additional information requested.

8. **ACTION: Consideration and Possible Action to Recommend Approval of to the Metro Comm/Metro JPA of a Contract with U.S. Peroxide, LLC, for the Proprietary Programs for Peroxide Regenerated Iron – Sulfide control Programs for Wastewater Odor Control Values at Various City Facilities**

Juan Guerreiro provided a revised handout (see Attachment B to these minutes) . He provided a brief verbal overview of the attachment. This is a 5-year extension to an existing contract. San Diego staff agreed to email the costs to Dexter Wilson for review.

Motion by Dexter Wilson, seconded by Yazmin Arellano, to recommend approval to the Metro Commission/Metro Wastewater JPA of the Contract with U.S. Peroxide, LLC. Motion carried by unanimous vote.

9. **ACTION: Consideration and Possible Action to Recommend Approval to the Metro Comm/Metro JPA of a PureWater Central Area Alternative Evaluation**

Doug Owen, Pure Water Program Consultant, Stantec, for City of San Diego provided a brief verbal overview of his PowerPoint presentation pertaining to Phase 2 of the Pure Water Program. .

Dexter Wilson added that this was the report to study the optimization of Phase 2. The study started with the TAC committee and morphed into a Joint study with the City of San Diego and will take a 6 to 7 month timeframe. The cost estimate will include a baseline alternative at Point Loma.

Al Lau inquired and John Helminski responded that it would be possible to capture stormwater in Phase 2 for a total of 1-2 mgd. Also that the year 2035 was the Phase 2 target date.

Motion by Al Lau, seconded by Eric Minicilli, to recommend approval to the Metro Commission/Metro Wastewater JPA of the Pure Water Central Area Alternative Evaluation. Motion carried by unanimous vote.

10. **ACTION: Consideration and Possible Action to Recommend Approval to the Metro Comm/Metro JPA of an As-Needed Construction Management Services – Conveyance Projects Agreement with CH2M Hill, Inc.**

John Helminski provided a brief verbal overview of his PowerPoint presentation.

Motion by Roberto Yano, seconded by Eric Minicilli, to recommend approval to the Metro Commission/Metro Wastewater JPA of the As-Needed Construction Management Services – Conveyance Projects Agreement with CH2M Hill, Inc. Motion carried by unanimous vote.

11. Metro Wastewater Update (Standing Item)

Edgar Patino stated he had nothing to report.

12. Pure Water Program Update (Standing Item)

John Helminski provided a handout of his PowerPoint presentation. He then gave a brief verbal overview of the “End of Year Update”. The current waiver expires September 20, 2022 and they are hoping Title 22 is approved August 18th. The EIR/EIS was completed in November of 2017. The goal is to have the Final EIR March 6, 2018. Karyn commended San Diego City Staff Seth Gates for going after and securing low cost grants.

Item 14 was heard prior to Item 13

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

Tung Phung provided a handout (see Attachment C to these minutes) and overview of the FY 2018 Capital Improvement Projects (CIP) Report for the 1st and 2nd Quarter. The report included the project highlights; forecast versus actual expenditures report and projects expenditure updates.

Item 13 was heard after Item 14

14. Financial Update (Standing Item)

- **Metro JPA Treasurer’s Report – 6 Months Ending December 30, 2017**

Karyn noted that a new Treasurer’s Report had been distributed (see Attachment D to these minutes) reflecting 7 months ending January 31, 2018 which she had requested to bring the committee and JPA Board current. She provided a brief overview of the handout.

Ms. Keese then reported that she had a good meeting with Seth Gates and that most likely the July 2016 Audit will be out in April/May. Refunds will be received by most.

15. IRWMP Report (Standing Item)

Roberto Yano provided a brief overview stating that the meeting notes were

attached to the agenda and was also available on the website www.projectcleanwater.org. He stated they were considering putting stormwater in as well.

16. MetroTAC Work Plan (Standing Item)

MetroTAC Chair Humora stated Roberto Yano and the transportation working group would be meeting with the City of San Diego staff soon and asked for additional members to join them. Yazmin Arellano volunteered to join the group.

17. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (March 1, 2018)

All items approved by MetroTAC will move forward.

18. Other Business of Metro TAC

There was none.

19. Adjournment to the next Regular Meeting, March 21, 2018

At 1:25 p.m. the meeting was adjourned.

Attachment A

METRO JPA/TAC
Staff Report
Date: February 21, 2018

Project Title:

Cal Sierra- Anthracite Media Beds

Requested Action: Execute a contract with Cal Sierra Construction, Inc. (ITB 10088277-18V) for rehabilitation of anthracite media beds, for Wastewater Treatment and Disposal Division facilities within the Public Utilities Department, in an amount not to exceed \$6,304,200.

Recommendations: Approve authorization to execute a five (5) year contract.

Metro TAC:	N/A
IROC:	N/A
Prior Actions: (Committee/Commission, Date, Result)	The previous rehabilitation of media beds services contract with the vendor IMC Consulting began March 16, 2012 and ended March 15, 2017. Council approval was not needed based on dollar threshold.

Fiscal Impact:

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	Metro: \$6,304,200 over five years (FY 2018-FY 2022) Muni: (0)
Fiscal impact to the Metro JPA:	\$2,080,386 (33%) over five fiscal years (FY 2018-FY 2022)

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 type="checkbox"/> Upgrade/addition <input type="checkbox"/> Change <input type="checkbox"/>

Previous TAC/JPA Action:

N/A

Additional/Future Action:

Present to the Metro Commission and Environment Committee and then presented for approval by City Council.

City Council Action: To be considered by Council once approved by Metro Joint Power Authority (JPA)/Technical Advisory Committee (TAC), and Environment Committee.

Background: The Public Utilities Department, Wastewater Treatment and Disposal Division utilizes permanently installed filters at both the North City Water Reclamation Plant and the South Bay Water Reclamation Plant to produce Title 22 compliant reclaimed water.

Discussion: These filters are at the core of the tertiary treatment process which utilizes the filter media beds as a physical means of removing additional material within the treatment process. These filter media beds serve as a final barrier in the water reclamation process before the product is either a) disinfected and pumped into the reclaimed water distribution system; or b) sent for advanced water treatment to the Demonstration Pure Water Facility. These filter media beds require periodic rehabilitation, cleaning and replacement of media.

It is recommended by staff to adopt this resolution to approve the five year contract with Cal Sierra Construction, Inc. to provide rehabilitation of media bed services to Wastewater Treatment and Disposal Division Facilities.

Bid Results: An Invitation to Bid (ITB), No. 10088277-18-V for purchase of rehabilitation of media beds was issued by Purchasing & Contracting Department on October 31, 2017. Purchasing & Contracting Department received notice from six (6) potential bidders who downloaded the bid from the City's third party provider. Upon closing, only one (1) bidder submitted a bid and was deemed responsive and evaluated, Cal Sierra Construction, Inc. Carbon Activated, one of the six potential bidders is listed as a subcontractor for Cal Sierra Construction, Inc. The rehabilitation of anthracite media beds is highly specialized work and a possible reason as to why there was only one bid submitted.

Attachment B

METRO JPA/TAC
Staff Report
Date: February 21, 2018

Project Title:

U.S. Peroxide, LLC, Peroxide Regenerated Iron – Sulfide Control Programs (PRI-SCTM/PRI-CEPTM) for wastewater odor control at various City facilities

Requested Action:

The Wastewater Treatment and Disposal Division (WWTD) of the Public Utilities Department recommends approval to amend Contract No. 4600001444, with U.S. Peroxide, LLC, and moving it forward to City Council for approval.

Recommendations:

Approve Contract Amendment

Metro TAC:	Submitted for consideration
IROC:	
Prior Actions: (Committee/Commission, Date, Result)	City Council approved the contract with U.S. Peroxide, LLC, for the proprietary programs for Peroxide Regenerated Iron – Sulfide Control Programs (PRI-SCTM/PRI-CEPTM) under Resolution No. R-308108 on April 16, 2013.

Fiscal Impact:

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	Metro: \$35,916,603.13 over six years (FY 2018-FY 2023) Muni:
Fiscal impact to the Metro JPA:	\$11,852,479.03 over six fiscal years (FY 2018-FY 2023)

Fiscal Impact by Year – USP Technologies, LLC

Fiscal Year	Metro Amount per Fiscal Year * (100%)	Funding Duration	JPA Fiscal Impact (33%)
2018	\$1,625,000.00	April 2018-June 2018 (Three Months)	\$536,250.00
2019	\$6,581,250.00	July 2018 - June 2019 (Twelve Months)	\$2,171,812.50
2020	\$6,910,312.50	July 2019 - June 2020 (Twelve Months)	\$2,280,403.13
2021	\$7,255,828.13	July 2020 - June 2021 (Twelve Months)	\$2,394,423.28
2022	\$7,618,619.53	July 2021 - June 2022 (Twelve Months)	\$2,514,144.45
2023	\$5,925,592.97	July 2022 - June 2023 (Twelve Months)	\$1,955,445.68
Total	\$ 35,916,603.13		\$11,852,479.03

*Metro annual amount reflects an estimated 5% price increase. (Contract Terms indicate a 5-6% price increase annually.)

Capital Improvement Program:

New Project?	Yes <input type="checkbox"/> No <input checked="" 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:

Additional/Future Action:

Pending Metro Joint Power Authority (JPA) approval

City Council Action: To be considered by the Environmental Committee once approved consideration by the full City Council.

Background:

In accordance with SDMC §22.3016, the Public Utilities Department received sole source #3956 approval for procurement and continued services and with U.S. Peroxide, LLC (USP) to utilize the proprietary Peroxide Regenerated Iron – Sulfide Control Programs (PRI-SC™/PRI-CEPT™) for wastewater odor control. The City desires to continue using the patented program for regenerated iron-sulfide control for wastewater treatment which includes program management, equipment systems, chemicals, supplies, and technical services.

The City's existing Memorandum of Agreement (MOA), Outline Agreement #4600002659, has exercised its fourth and final option year (April 14, 2017 – April 15, 2018); the respective Sole Source Certification #2720 will expire that same timeframe. As such, the MOA may only be amended by obtaining sole source procurement certification approval and an instrument in writing duly executed by both parties. In adherence with City guidelines, the Public Utilities Department is seeking authorization to amend the USP contract's term (i.e., one (1) year, for an amount not to exceed \$6,500,000) with the option to renew for up to four (4) additional one-year periods under the terms and conditions set forth in the Contract, contingent upon the adoption of the Appropriation Ordinance for the applicable fiscal year. Total duration of the MOA, including options to renew, shall not exceed five (5) years unless approved by ordinance of the City Council. In adherence with City guidelines, the Department is seeking sole source authorization in order to amend the USP contract.

Per the existing Memorandum of Agreement's scope and term of work, USP shall provide the City with full service PRI-SC™/PRI-CEPT™ program of Supply, Equipment and Services for Peroxide Regenerated Iron-Sulfide Control, which includes Hydrogen Peroxide and Ferrous Chloride, on an as-needed basis and in strict compliance with the approved contract documents. As such, these services are critical to the continued operations at the Public Utilities Department (PUD), Wastewater Treatment and Disposal facilities, such as the Point Loma Wastewater Treatment Plant (PLWTP) and the North City Water Reclamation Plant (NCWRP). In addition, this request is submitted to extend the existing scope of services to include other City facilities.

The total amount payable to USP for the first contract year shall not exceed \$6,500,000. The total amount payable to the USP for subsequent contract years shall not exceed the actual compensation amount of the first contract year plus the maximum percentage increase in prices allowed in the Pricing Proposal.

Discussion:

USP holds a US Patent (US 6,773,604 B2) for the PRI-SCTM/PRI-CEPTM odor control process which utilizes a combination of iron salts and oxidants. Various locations within the Metro Wastewater System rely heavily on the PRI-SCTM/PRI-CEPTM process. They not only provide cost effective odor control, but in addition the PRI-SCTM/PRI-CEPTM process supports chemically enhanced primary treatment of the wastewater to improve Total Suspended Solids and Biochemical Oxygen Demand removals. This supports the PLWTP ability to comply with its National Pollutant Discharge Elimination System (NPDES) permit. Although there are various known chemicals that can provide effective odor control, the City is not aware of any proven competitors to the PRI-SCTM/PRI-CEPTM process that can provide the additional chemically enhanced primary treatment benefit.

However, the City is in the early stages of investigating potential competitors to the PRI-SCTM/PRI-CEPTM process. The currently known competitors are in the early stages of the development of their products and have not had opportunities to prove their ability to ensure the continued pretreatment benefits experienced using the PRI-SCTM/PRI-CEPTM process, thus ensuring the City's continued compliance with the PLWTP's NPDES permit. Pilot projects are being developed to investigate and evaluate the effectiveness of the potential competition. If proven to offer the chemically enhanced preliminary treatment benefits provided by the PRI-SCTM/PRI-CEPTM process, then we can allow the vendors to competitively bid with confidence that we are not compromising our ability to comply with the PLWTP's NPDES permit.

Throughout the 10 years of service, USP's highly effective PRI-SCTM/PRI-CEPTM Program has saved the City between \$8 - \$9 million in wastewater treatment chemicals while improving treatment processes and effluent water quality at the PLWWTP, NCWRP, and other facilities. USP has worked efficiently in partnership with the City of San Diego to maximize value through the enhancement of both economics and performance. As such, these services are critical to the continued operations at the Public Utilities Department, Wastewater Treatment and Disposal facilities, and in the best interest of the City at this time.

Bid Results: Sole Source #3956 was approved as a competitive process at this time would not have produced an advantage as the City desires to continue use of US Patent (US 6,773,604 B2) for the PRISC odor control process. USP pricing is pursuant to pricing adjustment terms and a formal Request for Quote process for USP's chemical suppliers as part of the contract agreement. USP pricing has been found to be comparison to the market therefore the competitive bidding process would not produce an advantage and is undesirable. The unique qualifications of USP Technologies and the need to procure these products and services as quickly as possible, warrant a sole source procurement.

Attachment C



THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: February 20, 2018

TO: Metro Technical Advisory Committee (Metro TAC)

FROM: Surraya Rashid, Deputy Director, Public Utilities Department

SUBJECT: FY2018 Capital Improvements Projects (CIP) Report – 1st and 2nd Quarter

The Public Utilities Department hereby submits the FY2018 CIP updates for the period of July 1, 2017 through December 31, 2017.

The report includes the following:

- Projects highlights
- Forecast versus actual expenditures report
- Projects expenditure updates

Project Highlights

Project	Total Project Cost	Highlight
PS2 Power Reliability & Surge Protection Project	\$72.1 M	Construction

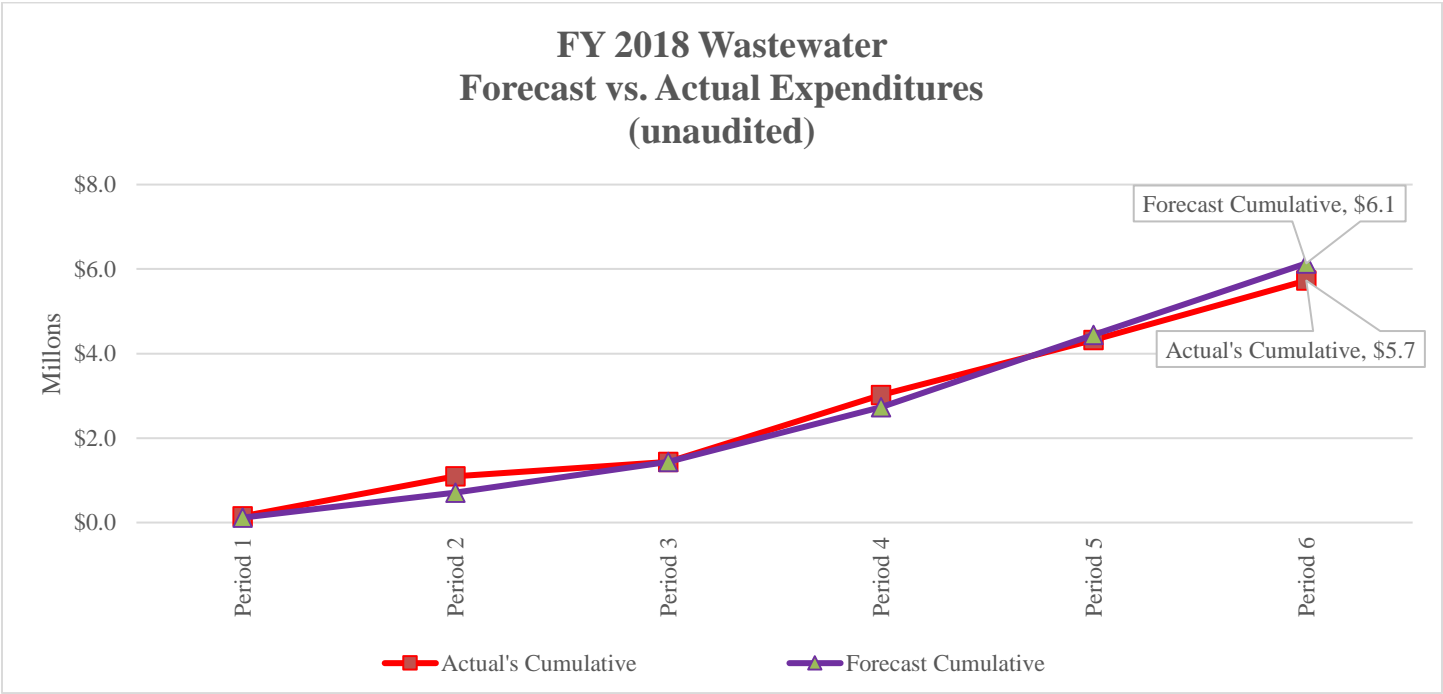


This project will improve the reliability of Sewer Pump Station 2. It will also provide the required surge protection and backup power against an electrical outage in compliance with the Environmental Protection Agency (EPA) recommendation of standby power for essential facilities.

Sewer Pump Station 2 currently has three feeds from San Diego Gas and Electric (SDG&E). Two of the feeds are fed from the same substation. Neither of the two SDG&E substation provide 100% power to Pump Station 2. EPA also requires that force main surge protection be provided at all times during pump station operation in the event of a total power failure.

The notice to proceed for construction was issued summer 2017 and the end of construction is estimated to be summer 2021.

FORECAST VERSUS ACTUAL EXPENDITURES UPDATES



WASTEWATER PROJECTS
COST OF SERVICE STUDY (COSS) vs ACTUALS
FY 2018 – 2nd Quarter (Financial Data run January 8, 2018)

NOTES:
– Projects are listed from highest to lowest revised project cost per asset type
– Original COSS Estimates use July 1, 2015 P6 Data Date
– Wastewater projects are separated into Muni and Metro
– TBD are projects being implemented but have not yet established a baseline
– Does not include IAM, AMI, or Pure Water projects with the exception of Morena (B15141)

Projects with \$1 mil or more in estimated project cost change (increase/decrease)
Projects six or more months behind schedule in design/construction phases
Projects on the radar

COSS – Cost of Service Study
BO/BU – Beneficial Occupancy/Beneficial Use, ie., Substantial Completion
Variance – difference between COSS and current dates

WASTEWATER PROJECTS									Planning/Design/Award Phase			Construction Phase		
WBS	Project Name	Status	Estimated Total Project Cost	Project to Date Expenditures (thru FY18, Pd 6)	Encumbrance at FY18, Pd 6	Project Balance (Revised Proj Cost less Expenditures less Encumbrances)	% Spent (Expenditures /Revised Project Cost)	Start Date	COSS Final Design Approval - End	Final Design Approval - End	Final Design Approval - End Variance	COSS BO/BU	BO/BU	BO/BU Variance
	LARGE SEWER PUMP STATIONS - METRO													
S00312	PS2 Power Reliability & Surge Protection	Construction	\$72,100,800	\$7,017,887	\$14,736,605	\$50,346,308	9.73%	11/1/2010	2/8/2016	8/15/2016	139	8/30/2019	8/30/2021	536
	OTHER - METRO													
S00314	Wet Weather Storage Facility - Live Stream Discharge (D/B)	Planning	\$5,000,000	\$2,366,274	\$14,130	\$2,619,596	47.33%	1/3/2011	3/7/2016	TBD		1/24/2018	7/29/2020	672
S00319	EMT&S Boat Dock & Steam Line Relocation	Design	\$2,304,000	\$78,816	\$16,776	\$2,208,408	3.42%	11/23/2011	11/30/2012	TBD		6/30/2018	10/6/2019	340
	SEWER TREATMENT PLANTS - METRO													
S00339	MBC DEWTRING CNTRFGS RPLMT (SA)JO#141590	Construction	\$12,122,443	\$8,357,455	\$2,979,416	\$785,573	68.94%	7/1/2011	3/21/2012	3/21/2012	0	4/12/2016	6/1/2018	572
S00310	SBWRP DEMINERALIZATION	Construction	\$5,973,695	\$5,187,323	\$91,486	\$694,885	86.84%	8/1/2012	11/30/2012	11/30/2012	0	9/17/2015	3/6/2018	661
B16165	MBC Cooling Water System Chiller Upgrade	Design	\$3,771,000	\$243,434	\$267,128	\$3,260,438	6.46%	8/1/2016	TBD	1/16/2019		TBD	6/12/2020	
B16132	SBWRP Valve Mstr Sta & Loop Control Sys	Construction	\$3,320,800	\$81,994	\$1,760,813	\$1,477,993	2.47%	4/3/2017	TBD	9/11/2017		TBD	10/17/2018	
B18031	Ultraviolet Disinfection System Replace	Planning	\$4,520,000	\$19,723	\$0			10/2/2017	TBD	1/29/2019		TBD	4/22/2020	
	TRUNK SEWERS - METRO													
B11025	ROSE CANYON TS (RCTS) JOINT REPAIR	Construction	\$9,284,394	\$964,090	\$4,069,874	\$4,250,430	10.38%	5/1/2013	1/20/2016	8/5/2016	145	3/30/2017	4/21/2020	820
	OTHER - MUNI/METRO													
S14022	MOC Complex Solar Project	Construction	\$2,615,770	\$143,851	\$661,915	\$1,810,003	5.50%	8/1/2014	9/1/2015	10/29/2015	43	9/2/2016	3/16/2018	411

Attachment D



Metro Wastewater Joint Powers Authority
Treasurer's Report
Seven months ending January 31, 2018

Submitted by:

Karen Jassoy, Treasurer, 2/20/18

Metro Wastewater JPA
Treasurer's Report
Seven months ending January 31, 2018
Unaudited

Beginning Cash Balance at June 30, 2017	\$ 170,971
Operating Results	
Membership Dues & Interest Income	229,361
Expenses	<u>(128,763)</u>
Change in Net Position	100,598
Net change in Receivables & Payables	<u>152,384</u>
Cash provided by Operations	<u>252,983</u>
Ending Cash Balance at Jan 31, 2018	<u><u>\$ 423,954</u></u>

Metro Wastewater JPA

Statement of Net Position

As of June 30, 2017 and Jan 31, 2018

Unaudited

	<u>June 30, 2017</u>	<u>Jan 31, 2018</u>	<u>\$ Change</u>
<u>ASSETS</u>			
Checking/Savings	\$ 170,971	\$ 423,954	\$ 252,983
Accounts Receivable	-	17,587	17,587
Total Assets	<u>\$ 170,971</u>	<u>\$ 441,541</u>	<u>\$ 270,569</u>
 <u>LIABILITIES</u>			
Accounts Payable	\$ 37,408	\$ 43,587	\$ 6,179
Unearned Membership Billings	-	163,792	163,792
Total Liabilities	<u>\$ 37,408</u>	<u>\$ 207,379</u>	<u>\$ 169,971</u>
 <u>NET POSITION</u>			
Total Net Position at Beginning of Period	\$ 250,042	\$ 133,563	\$ (116,479)
Change in Net Position	(116,479)	100,598	217,077
Total Net Position at End of Period	<u>\$ 133,563</u>	<u>\$ 234,162</u>	<u>\$ 100,598</u>
 <u>TOTAL LIABILITIES & NET POSITION</u>	<u>\$ 170,971</u>	<u>\$ 441,541</u>	<u>\$ 270,569</u>

	<u>OP Exp With Contingency</u>	<u>Op Exp w/o Contingency</u>
<i>Net Position at Jan 31, 2018</i>	\$ 234,162	\$ 234,162
<i>FY '18 JPA Required Operating Reserve (based on 4 months of Operating Expenses)</i>	131,033	114,367
<i>Over (under) required reserve</i>	<u>\$ 103,128</u>	<u>\$ 119,795</u>

Metro Wastewater JPA

Statement of Operations

Seven months ending January 31, 2018
Unaudited

	<u>Actual</u>	<u>Budget</u>	<u>Difference</u>	
Income				
Membership Dues	\$ 229,308	\$ 229,308	\$ -	
Interest Income	<u>53</u>	<u>35</u>	<u>18</u>	
Total Income	\$ 229,361	\$ 229,343	\$ 18	
Expenses				
Admin Assistant - L. Peoples	\$ 525	\$ 4,667	\$ (4,142)	<i>Through 9/30/17</i>
Admin & Treasury Services-Padre	7,582	11,083	(3,502)	<i>Through 12/31/17</i>
Bank Charges	-	117	(117)	<i>As of 12/31/17</i>
Dues & Subscriptions	-	350	(350)	<i>As of 12/31/17</i>
JPA/TAC meeting expenses	1,692	2,917	(1,225)	<i>Through 11/30/17</i>
Miscellaneous	-	146	(146)	<i>As of 12/31/17</i>
Professional Services				
Engineering - NV5	11,225	43,750	(32,525)	<i>Through 11/30/17</i>
Engineering - Dexter Wilson	35,363	45,238	(9,875)	<i>Through 12/31/17</i>
Financial - Kese Group	31,840	43,867	(12,027)	<i>Through 1/31/18</i>
Legal - BB&K	31,979	35,000	(3,021)	<i>Through 1/31/18</i>
Per Diems	6,450	10,500	(4,050)	<i>Through 11/30/17</i>
Postage	129	-	129	<i>As of 12/31/17</i>
Printing	238	292	(54)	<i>As of 12/31/17</i>
Telephone	341	817	(476)	<i>As of 12/31/17</i>
Website Maintenance & Hosting	1,400	1,400	-	<i>Through 1/31/17</i>
Contingency	<u> </u>	<u>29,167</u>	<u>(29,167)</u>	<i>As of 12/31/17</i>
Total Expenses	\$ 128,763	\$ 229,308	\$ (100,545)	
Change in Net Position	<u>\$ 100,598</u>	<u>\$ 35</u>	<u>\$ 100,563</u>	

Metro Wastewater JPA
Statement of Cash Flows

Seven months ending January 31, 2018

Unaudited

OPERATING ACTIVITIES

Change in Net Position	\$ 100,598
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**Adjustments to reconcile Change in Net Position
to net cash provided by Operations:**

Accounts Receivable	(17,587)
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Accounts Payable	6,179
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Deferred Revenue	163,792
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Net cash provided by (used in) Operations	<u>252,983</u>
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Net cash increase (decrease) for period	252,983
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Cash at beginning of period	<u>170,971</u>
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Cash at end of period	<u><u>\$ 423,954</u></u>
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Metro Wastewater JPA
Vendor Accrual Summary
As of Jan 31, 2018

Best Best and Kreiger	\$	6,622	⁽¹⁾
Keze Group		7,000	⁽¹⁾
City of Lemon Grove		25,615	⁽¹⁾
Vision Internet		200	⁽¹⁾
Padre Dam MWD		17,733	⁽¹⁾
White Nelson Diehl Evans		4,000	⁽²⁾
Whitney Benzian		150	⁽³⁾
Total	\$	<u>61,320</u>	

(1) Accruals; bills received and paid after 1/31/18

(2) Estimated billing

(3) Void and reissue

Attachment 14

MetroTAC

Work Plan

**Metro TAC Work Plan
Active & Pending Items
March 2018**

Updated Items in Red Italics

Blue Items Suggested to be Moved to Closed

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. <i>3/18: Technical consultants to meet with PUD staff and Carollo on 3/22/18 to review model in detail</i>	Roberto Yano Dan Brogadir Erin Bullers Mark Niemiec Yazmin Arellano Dexter Wilson Karyn Keese Carmen Kasner SD staff
Point Loma Permit Ad Hoc TAC	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. <i>3/18: Group continues to meet at least monthly.</i>	Jerry Jones Jim Peasley Ed Spriggs Bill Baber Steve Padilla Metro TAC staff & JPA consultants
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. <i>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.</i>	Roberto Yano Dexter Wilson Carmen Kasner Lisa Coburn-Boyd Paula de Sousa Mills
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. <i>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.</i>	Yazmin Arellano Dan Brogadir Steve Beppler Al Lau Scott Tulloch Dexter Wilson Roberto Yano SD staff & consultants

**Metro TAC Work Plan
Active & Pending Items
March 2018**

Updated Items in Red Italics

Blue Items Suggested to be Moved to Closed

Active Items	Description	Member(s)
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. <i>March 2018: PUD staff has prepared the draft memo and has distributed it to the working group</i>	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.	Greg Humora Scott Tulloch SD staff & consultants Enviro members
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. <i>3/18: Working group continues to meet monthly; presentation to be made at March Metro TAC meeting</i>	Yazmin Arellano Roberto Yano Eric Minicilli Al Lau SD staff Erin Bullers Karyn Keese
Social Media Working Group	<i>6/16: Upon the request of Metro Com Chair Jim Peasley Chairman Humora created a working group to research and provide input on the creation of policies and procedures for Metro JPA social media. Mike Obermiller will chair this work group. He sent out an email to all Metro TAC members requesting copies of their agency's policies. 9/16: A draft policy has been approved by Metro TAC and will be presented to the Commission in October by Alexander Heide. 1/17: Draft policy and consultants contracts to be reviewed by Finance Committee in April 2017. 5/17: Finance Committee reviewed budget and requested scope/fee from NV5 for monitoring only 6/17: Alex Heide to research monitoring software and bring back report to next Finance Committee Meeting. Language included in NV5 2018 contract to provide social media support services but they will not proceed with task unless approved by JPA</i>	Mike Obermiller Alexander Heide

**Metro TAC Work Plan
Active & Pending Items
March 2018**

Updated Items in Red Italics

Blue Items Suggested to be Moved to Closed

Active Items	Description	Member(s)
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.	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. <i>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.</i>	Greg Humora Scott Tulloch Roberto Yano Karyn Keese SD staff & consultants
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	Greg Humora Scott Tulloch Rick Hopkins Roberto Yano Al Lau Bob Kennedy Karyn Keese
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. <i>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.</i>	Karyn Keese Karen Jassoy

**Metro TAC Work Plan
Active & Pending Items
March 2018**

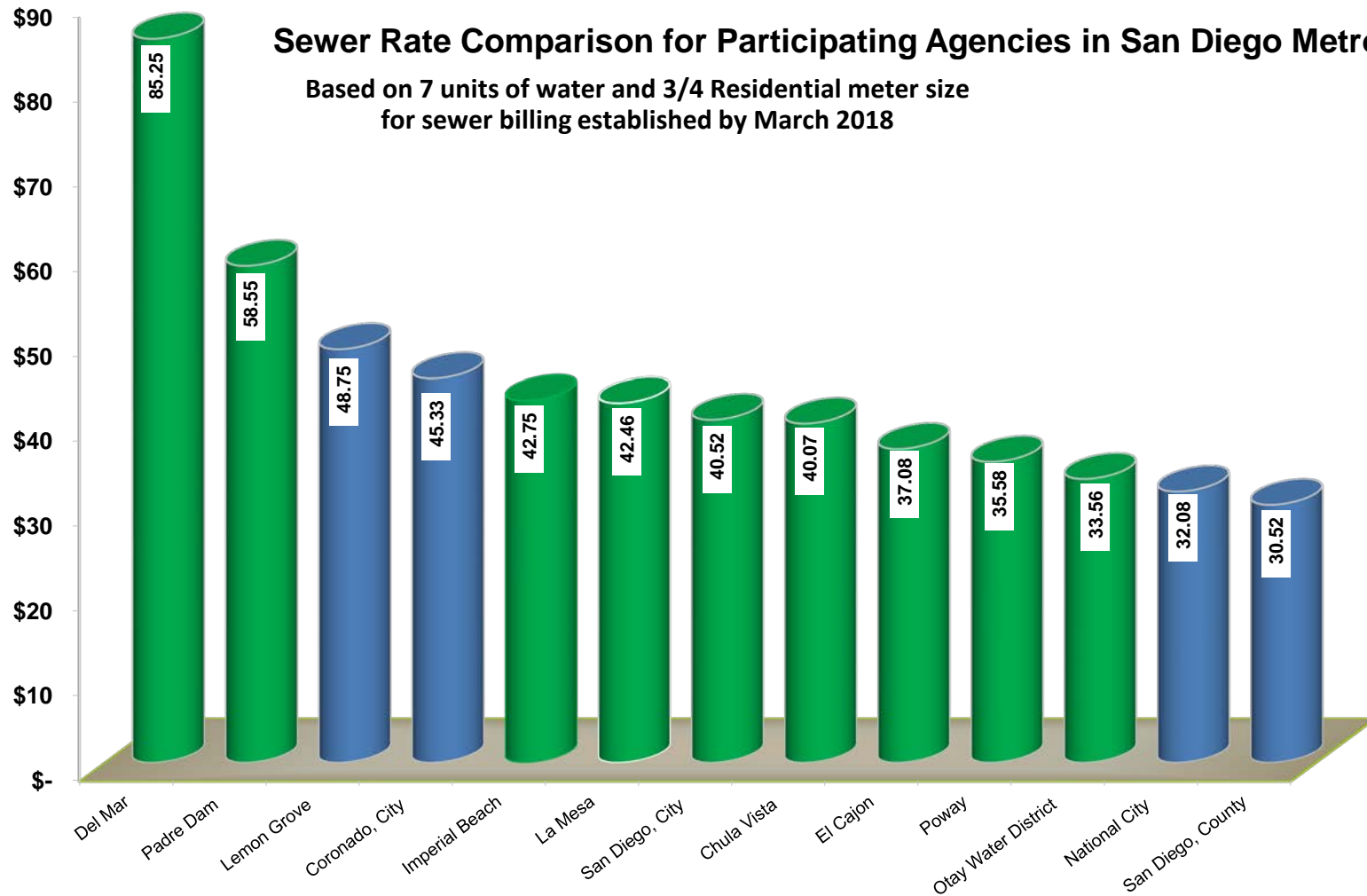
Updated Items in Red Italics

Blue Items Suggested to be Moved to Closed

Active Items	Description	Member(s)
Amend Regional Wastewater Disposal Agreement/ <i>Debt Allocation Working Group</i>	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>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.</i>	<i>Greg Humora Roberto Yano Scott Tulloch Dexter Wilson Karyn Keese Paula de Sousa Mills Nicholas Norvell</i>
Management of Non-Disposables in Wastewater	9/13: Eric Minicilli handed out a position paper prepared by the NEWEA. 6/15 Chairman Humora provided attached from SCAP. 2/16: Chairman Humora distributed Robbins Geller Rudman & Dowd memorandum.	Eric Minicilli
2015/16 Transportation Rate Update	5/14: Metro TAC approved 2014 transportation rate w/caveat that PUD staff hires a consultant to review/revise methodology for 2015. <i>3/18: Replaced by Muni Transportation Rate Study Working Group</i>	Al Lau Dan Brogadir Karyn Keese
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
"No Drugs Down the Drain"	The state has initiated a program to reduce pharmaceuticals entering the wastewater flows. There have been a number of pharmaceutical collection events within the region sponsored by law enforcement.	Greg Humora
Strength Based Billing Evaluation	San Diego will hire a consultant every three years to audit the Metro metered system to insure against billing errors.	Al Lau Dan Brogadir Karyn Keese
Grease Recycling	To reduce fats, oils, and grease (FOG) in the sewer systems, more and more restaurants are being required to collect and dispose of cooking grease. Companies exist that will collect the grease and turn it into energy.	Eric Minicilli
Point Loma Modified NPDES Permit	1/15: Permit was submitted. EPA has begun their review. 11/16 first possible date at the Regional Board for consideration. 12/16: First hearing of Permit Application held at San Diego Regional Board. 4/17: Regional Board hearing on accelerated PWP facilities timeline 4/12/17. 5/17: Coastal Commission hearing 5/10/17. 6/17: Coastal Commission approved modified permit application. EPA to issue permit within the next few months. 10/17: Permit issued	Greg Humora Scott Tulloch Karyn Keese
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	Paula de Sousa Mills
Border Region	Impacts of sewer treatment and disposal along the international border should be monitored and reported to the Board. These issues would directly affect the South Bay plants on both sides of the border.	New Board Members to be Appointed

Sewer Rate Comparison for Participating Agencies in San Diego Metro System

Based on 7 units of water and 3/4 Residential meter size
for sewer billing established by March 2018



- Flat Sewer Rate
- Water consumption based sewer rate

Metro TAC Participating Agencies Selection Panel Rotation

Agency	Representative	Selection Panel	Date Assigned
Padre Dam	Neal Brown	IRWMP – Props 50 & 84 Funds	2006
El Cajon	Dennis Davies	Old Rose Canyon Trunk Sewer Relocation	9/12/2007
La Mesa	Greg Humora	As-Needed Piping and Mechanical	11/2007
National City	Joe Smith	MBC Additional Storage Silos	02/2008
Otay Water District	Rod Posada	As-Needed Biological Services 2009-2011	02/2008
Poway	Tom Howard	Feasibility Study for Bond Offerings	02/2008
County of San Diego	Dan Brogadir	Strategic Business Plan Updates	02/2008
Coronado	Scott Huth	Strategic Business Plan Updates	09/2008
Coronado	Scott Huth	As-needed Financial, HR, Training	09/2008
PBS&J	Karyn Keese	As-needed Financial, Alternate HR, Training	09/2008
Otay Water District	Rod Posada	Interviews for Bulkhead Project at the PLWTP	01/2009
Del Mar	David Scherer	Biosolids Project	2009
Padre Dam	Neal Brown	Regional Advisory Committee	09/2009
County of San Diego	Dan Brogadir	Large Dia. Pipeline Inspection/Assessment	10/2009
Chula Vista	Roberto Yano	Sewer Flow Monitoring Renewal Contract	12/2009
La Mesa	Greg Humora	Sewer Flow Monitoring Renewal Contract	12/2009
Poway	Tom Howard	Fire Alarm Panels Contract	12/2009
El Cajon	Dennis Davies	MBC Water System Improvements D/B	01/2010
Lemon Grove	Patrick Lund	RFP for Inventory Training	07/2010
National City	Joe Smith	Design/Build water replacement project	11/2010
Coronado	Scott Huth	Wastewater Plan update	01/2010
Otay Water District	Bob Kennedy	RFP Design of MBC Odor Control Upgrade/Wastewater Plan Update	02/2011
Del Mar	Eric Minicilli	Declined PS 2 Project	05/2011
Padre Dam	Al Lau	PS 2 Project	05/2011
County of San Diego	Dan Brogadir	RFP for As-Needed Biological Services Co.	05/2011
Chula Vista	Roberto Yano	North City Cogeneration Facility Expansion	07/2011
La Mesa	Greg Humora	confined space RFP selection panel	10/2011
Poway	Tom Howard	COSS's for both Water and WW	10/2011
El Cajon	Dennis Davies	Independent Accountant Financial Review & Analysis – All Funds	01/2012

Lemon Grove	Mike James	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
National City	Joe Smith	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Coronado	Godby, Kim	MBC Dewatering Centrifuges Replacement (Passed)	01/2012
Otay Water District	Bob Kennedy	MBC Dewatering Centrifuges Replacement (Accepted)/Strategic Planning Rep	01/2012
Del Mar	Eric Minicilli	New As Need Engineering Contract	02/2012
Padre Dam	Al Lau	PA Rep. for RFQ for As Needed Design Build Services (Passed)	05/2012
County of San Diego	Dan Brogadir	PA Rep. for RFQ for As Needed Design Build Services (Cancelled project)	05/2012
Chula Vista	Roberto Yano	As-Needed Condition Assessment Contract (Accepted)	06/2012
La Mesa	Greg Humora	New programmatic wastewater facilities condition (Awaiting Response)	11/2012
Poway	Tom Howard	Optimization Review Study	01/2013
El Cajon	Dennis Davies	PUD 2015 Annual Strategic Plan	1/15/14
Lemon Grove	Mike James	As-Needed Engineering Services (Passed)	7/25/14
National City	Kuna Muthusamy	As-Needed Engineering Services	7/25/14
Coronado	Ed Walton	Strategic Planning	01/2014
Otay Water District	Bob Kennedy	Strategic Planning (Volunteered, participated last year)	01/2014
Del Mar	Eric Minicilli	Pure Water Program Manager Services	9/1/14
Padre Dam	Al Lau	Pure Water Program Manager Services	9/1/14
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	Yazmin Arellano	As-Needed Construction Management Services for Pure Water	3/13/17

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