



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

**TO:** Metro TAC Representatives and Metro Commissioners

**DATE:** Wednesday, June 19, 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\****

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1. Review and Approve MetroTAC Action Minutes for the Meeting of [May 15, 2019](#) (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. **PRESENTATION:** IWCP (Doug Owen) (**Attachment**)
4. **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**)
5. **REPORT:** Update from Residuals Management Working Group (Scott Tulloch/Dexter Wilson)
6. **REPORT:** Update from Sample Rejection Protocol Working Group (Edgar Patino)
7. Metro Wastewater Update (Standing Item) (Edgar Patino)
8. Pure Water Program Update (Standing Item) (John Helminski)
9. Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung)
10. Financial Update (Standing Item) (Karyn Keese)
11. IRWMP Update (Standing Item) (Yazmin Arellano)
12. MetroTAC Work Plan (Standing Item) (Roberto Yano) (**Attachment**)
13. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting (**August 1, 2019**)
14. Other Business of Metro TAC
15. Adjournment ([To the next Regular Meeting July 17, 2019](#))

**Metro TAC 2019 Meeting Schedule**

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  
May 15, 2019

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

**ACTION MINUTES**

**DATE OF MEETING:** May 15, 2019  
**TIME:** 11:00 AM  
**LOCATION:** MOC II Auditorium

**MEETING ATTENDANCE:**

Roberto Yano, National City  
Beth Gentry, Chula Vista  
Ed Walton, Coronado  
Yazmin Arellano, El Cajon  
Dennis Davies, El Cajon  
Eric Minicilli, Imperial Beach  
Hamed Hashemian, La Mesa  
Dexter Wilson, Lemon Grove  
Stephanie Boyce, Lemon Grove  
Steven Beppler, Otay Water Dist  
Kevin Koeppen, Otay Water Dist  
Mark Niemiec, Padre Dam MWD  
Allen Carlisle, Padre Dam MWD  
Jessica Parks, Poway  
Dan Brogadir, County of San Diego  
Susan Spotts, County of San Diego

John Helminski, City of San Diego  
Edgar Patino, City of San Diego  
Charles Modica, City of San Diego  
Tung Phung, City of San Diego  
Charlette Strong Williams, City of San Diego  
Surraya Rashid, City of San Diego  
Brian Vitelle, City of San Diego  
Manuel Da Rosa, City of San Diego  
Margaret Quach, City of San Diego

Doug Owen, Stantec

Jeremy Cook, Anaergia

Carmen Kasner, NV5  
Scott Tulloch, NV5

Karyn Keese, The Keze Group

Lori Anne Peoples, MetroTAC

**1. Review and Approve MetroTAC Action Minutes for the Meeting April 17, 2019**

It was noted that Item 11 had the action missing which Lori stated would be corrected prior to finalizing.

Motion by Hamed Hashemian, seconded by Dan Brogadir; the minutes were approved as amended by unanimous vote.

## **2. Metro Commission/JPA Board Meeting Recap**

Chair Yano noted that the items forwarded from the last MetroTAC meeting were approved by the JPA. Additionally, a Specific Plan Update Ad Hoc Committee had been formed; Coronado, Imperial Beach, Lemon Grove, Del Mar and El Cajon will take the lead on the form and contents of the SP Update session; Dexter's change order and budget items were passed including the Procopio Special Counsel on Pure Water. General Counsel spoke of SB 332 which changes ocean discharge and is still in the development phase but the JPA asked TAC to keep an eye on it. He requested a new TAC workgroup be formed to do this and Chula Vista, La Mesa and El Cajon TAC members volunteered. Roberto then gave Kudos to Eric and Karyn for their performance on the budget review which sailed through!

### **Item 3 was removed from consideration on the agenda.**

- 3. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Caustic Soda Chemical Purchase**
- 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 provided a brief verbal overview of the staff report.

**ACTION:** Motion by Kevin Koeppen, seconded by Dan Brogadir, 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 Commission/Metro Wastewater JPA Approval of a Contract for SBWRP UV System Replacement**

Manny da Rosa provided a verbal overview of the staff report. This item pertains to the South Bay Water Reclamation Plant. It has been in service since 2004 and provides disinfection prior to the water being put into use as recycled water. Margaret Quach also responded to questions of the members regarding the item.

**ACTION:** Motion by Hamed Hashemian, seconded by Yazmin Arellano, to approve moving the item forward to the Metro Commission/Metro Wastewater JPA. Motion not voted on.

Substitute Motion by Kevin Koeppen, seconded by Mark Niemiec to have the item reviewed and additional information provided prior to forwarding to the Metro Commission/Metro Wastewater JPA. Motion failed.

Motion by Hamed Hashemian, seconded by Dan Brogadir, to approve moving the

Contract forward to the Metro Commission/Metro Wastewater JPA with the caveat that if the bidder is rejected for labor compliance and additional information is provided regarding assessing the project and regulations on the item to the JPA, it be brought back for review by MetroTAC. Motion carried with Steve Beppler opposed and Beth Gentry abstaining.

Chair Yano stated he would set up a meeting with Otay, Chula Vista, San Diego and any others concerned to reach agreement prior to the Metro Commission/Metro Wastewater JPA meeting. The agreed upon date was Thursday May 23<sup>rd</sup> from 9:30 am to 12:00 p.m. at the PUD. John Helminski stated a response to the questions of Otay will be provided to the MetroTAC members and placed as an attachment to the agenda item for the Metro Commission/Metro Wastewater JPA.

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 LKP 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 provided a brief verbal overview of his Power Point presentation.

**ACTION:** Motion by Eric Minicilli, seconded by Mark Niemiec, to approve moving the Contract forward to the Metro Commission/Metro Wastewater JPA. Motion carried unanimously.

**Item 14 was heard at this time**

7. **ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of Amendment No 2 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 provided a brief verbal overview of the Power Point presentation.

**ACTION:** Motion by Eric Minicilli, seconded by Roberto Yano, to approve moving the Contract forward to the Metro Commission/Metro Wastewater JPA. Motion carried unanimously.

8. **INFORMATION: Presentation of the FY 2020 Proposed City of San Diego Metro Wastewater Utility Budget**

Charles Modica provided a verbal overview of the FY 2020 proposed budget.

Dexter Wilson requested careful review in Phase II to make sure flow reductions

are taken into consideration when replacing items. John Helminski stated he was seeing an increase in costs in the bids coming in.

**9. REPORT: Update on Five-Year Metro Forecast Detailing Pure Water Costs**

Charles Modica stated that this report was prepared during November/December of last year and did not break out the Metro/Muni costs but will do so in the future. The State has released \$636 million in loans and the City of San Diego should be able to cover the entire wastewater side of Pure Water. John Helminski stated that letters of support from the JPA would be appreciated and that he would send out a sample template.

Karyn Keese stated she was working with Charles to put together a 5 Year Forecast based on the report and will provide information under her report. She then provided a brief overview of the handout (Attached as Exhibit A to these Minutes) she had prepared which attempted to take the Muni out of the San Diego report. No new debt service is included in the five-year forecast as the State Revolving Fund Loans repayment do not start until 2025. Charles will review and revise Karyn's five-year forecast after further reviewing the report.

**10. REPORT: Update from Residuals Management Working Group**

Dexter stated the agreement had been drafted but it had not yet been approved by Procopio to send out. It is written for Padre, El Cajon, Coronado and Otay.

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

No report.

**12. Metro Wastewater Update**

No report.

**13. Pure Water Program Update (Standing Item)**

**A. Progress Update: Alternative study Phase II Pure Water**

Doug Owen provided a brief verbal overview of the Power Point presentation covering the alternatives with the waiver and full secondary. The conclusion agreed upon was to have the 2 alternatives to go forward for additional review. The next steps will be to review and refine the decisions looking at peak and average flow and size the facilities based on the results. It is expected to have final answers by February 2020.

**Item 14 was heard after Item 6**

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

Tung Phung provided a brief overview of his report.

**15. Financial Update (Standing Item)**

Karyn Keese stated that the FY 2017 Audit would be completed this month hopefully in time for next month's Metro TAC meeting. Additionally she and Dexter will be starting and completing the FY 2018 fieldwork in June.

**16. IRWMP Report (Standing Item)**

Yazmin Arellano stated that the projects for Prop 1 Round 1 were due by May 22, 2019.

**17. MetroTAC Work Plan (Standing Item)**

Chair Yano stated that the MetroTAC Work Plan was attached to the agenda for review and that they would be adding the SB 332 work group to it.

**18. 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 Comm/Metro Wastewater JPA (Items 4, 5, 6, 7, 8 & 13)

**19. Other Business of Metro TAC**

There was none.

**20. Adjournment to the next Regular Meeting, May 15, 2019**

At 1:40 p.m. the meeting was adjourned.

# Exhibit A



**Draft Pure Water Program Cash Flow -- Phase I**

**Version 17-- 10/26/18 Exhibit G for PWP costs/debt; Flow & Strength Based for O&M; 2020 budget projections included**

**Costs Adjusted for City's Five Year Financial Outlook Report -- January 2019**

**Projected Total Budget by Year**

		<b>FY 2019 (2)</b>	<b>FY 2020 (2)</b>	<b>FY 2021 (3)</b>	<b>FY 2022 (3)</b>	<b>FY 2023</b>	<b>FY 2024</b>
Existing O&M (1)		113,792,883	\$113,752,294	\$ 117,961,129	\$ 122,325,691	\$ 126,851,741	\$ 131,545,256
Pure Water Program O&M (4)		\$5,745,626		\$ 5,000	\$ 10,621,943	\$ 15,624,279	\$ 21,923,584
Metro Pay-Go CIP (5)		\$10,000,000	\$10,657,396	\$ 43,800,000	\$ 22,800,000	\$ 16,700,000	\$ 9,700,000
Pure Water Pay-Go Program CIP		\$19,323,574	\$44,544,390	\$ 29,143,024	\$ 30,000,000	\$ 15,000,000	\$ 2,083,263
Less Revenue Offsets				\$ (10,000,000)	\$ (10,000,000)	\$ (10,000,000)	\$ (10,000,000)
Existing Debt Service (6)		\$70,434,479	\$66,620,000	\$ 77,147,934	\$ 73,191,606	\$ 68,701,256	\$ 55,310,153
PWP Debt Service (7)							
<b>Total Estimated Metro Costs</b>		<b>\$ 219,296,562</b>	<b>\$ 235,574,080</b>	<b>\$ 258,057,087</b>	<b>\$ 248,939,240</b>	<b>\$ 232,877,276</b>	<b>\$ 210,562,255</b>
<b>Model Total O&amp;M &amp; Existing Debt</b>		<b>\$ 199,972,988</b>	<b>\$ 191,029,690</b>	<b>\$ 228,914,063</b>	<b>\$ 218,939,240</b>	<b>\$ 217,877,276</b>	<b>\$ 208,478,992</b>
<b>Model Total PWP CIP &amp; Debt Service (9)</b>		<b>\$ 19,323,574</b>	<b>\$ 44,544,390</b>	<b>\$ 29,143,024</b>	<b>\$ 30,000,000</b>	<b>\$ 15,000,000</b>	<b>\$ 2,083,263</b>
<b>Check Total</b>		<b>\$ 219,296,562</b>	<b>\$ 235,574,080</b>	<b>\$ 258,057,087</b>	<b>\$ 248,939,240</b>	<b>\$ 232,877,276</b>	<b>\$ 210,562,255</b>

**Allocation Percentages By Agency:**

	Adjusted Unaudited 2017 Flows & Strengths (Feb. Estimate)	FY 2019 Budget Projections: Flows & Strengths	FYE 2020 Budget Projections: Flows & Strengths	Estimated Flow & Strengths After 2025 (9)	Exhibit G (10/26/18) PWP Debt Allocation (10)
Chula Vista	10.118%	10.172%	10.207%	11.241%	11.699%
Coronado	0.891%	1.474%	1.188%	0.893%	1.152%
Del Mar	0.331%	0.019%	0.019%	0.022%	0.020%
East Otay Mesa	0.034%	0.124%	0.156%	1.276%	1.096%
El Cajon	4.965%	4.918%	4.968%	0.599%	0.497%
Imperial Beach	1.206%	1.221%	1.250%	1.351%	1.411%
La Mesa	2.792%	2.641%	2.590%	2.764%	2.823%
Lakeside/Alpine	1.852%	1.857%	2.097%	0.244%	0.153%
Lemon Grove	0.968%	1.332%	1.179%	1.064%	1.395%
National City	2.420%	2.440%	2.383%	2.694%	2.852%
Otay	0.427%	0.283%	0.310%	0.252%	0.457%
Padre Dam	2.370%	2.476%	2.268%	0.171%	0.444%
Poway	1.649%	1.617%	1.715%	1.715%	1.869%
Spring Valley	2.469%	3.001%	2.876%	2.783%	3.765%
Wintergardens	0.641%	0.645%	0.615%	0.052%	0.044%
San Diego	66.865%	65.780%	66.18%	72.879%	70.323%
Total	100.000%	100.000%	100.000%	100.000%	100.000%
<b>County of San Diego</b>					
East Otay Mesa	0.034%	0.124%	0.156%	1.276%	1.096%
Lakeside/Alpine	1.852%	1.857%	2.097%	0.244%	0.153%
Spring Valley	2.469%	3.001%	2.876%	2.783%	3.765%
Wintergardens	0.641%	0.645%	0.615%	0.052%	0.044%
Total County	4.996%	5.627%	5.744%	4.355%	5.058%

**Version 17-- 10/26/18 Exhibit G for PWP costs/debt; Flow & Strength Based for O&M; 2020 budget projections included**

**Projected Annual Costs by Agency:**

Exhibit G Starts

	FY2019	FY2020	FY2021 (8)	FY2022 (8)	FY2023 (8)	FY2024 (8)
Chula Vista	\$ 22,307,279	\$ 24,045,289	\$ 26,774,840	\$ 25,856,954	\$ 23,993,758	\$ 21,523,380
Coronado	\$ 3,231,556	\$ 2,798,100	\$ 3,054,844	\$ 2,946,241	\$ 2,760,764	\$ 2,500,278
Del Mar	\$ 42,646	\$ 45,772	\$ 50,269	\$ 48,501	\$ 45,314	\$ 40,921
East Otay Mesa	\$ 271,861	\$ 368,057	\$ 677,094	\$ 670,903	\$ 504,826	\$ 348,559
El Cajon	\$ 10,785,775	\$ 11,702,995	\$ 11,516,930	\$ 11,025,652	\$ 10,898,369	\$ 10,367,299
Imperial Beach	\$ 2,676,715	\$ 2,944,232	\$ 3,272,202	\$ 3,159,627	\$ 2,934,705	\$ 2,634,990
La Mesa	\$ 5,791,652	\$ 6,100,367	\$ 6,750,590	\$ 6,516,476	\$ 6,065,535	\$ 5,457,528
Lakeside/Alpine	\$ 4,072,534	\$ 4,939,844	\$ 4,844,755	\$ 4,636,900	\$ 4,591,692	\$ 4,374,863
Lemon Grove	\$ 2,921,883	\$ 2,777,757	\$ 3,105,832	\$ 3,000,171	\$ 2,778,367	\$ 2,487,333
National City	\$ 5,351,432	\$ 5,612,861	\$ 6,285,300	\$ 6,072,076	\$ 5,618,993	\$ 5,026,697
Otay	\$ 620,938	\$ 730,530	\$ 843,146	\$ 816,133	\$ 744,245	\$ 656,033
Padre Dam	\$ 5,428,801	\$ 5,343,223	\$ 5,321,614	\$ 5,099,175	\$ 5,008,459	\$ 4,737,914
Poway	\$ 3,545,706	\$ 4,040,920	\$ 4,471,216	\$ 4,316,125	\$ 4,017,633	\$ 3,615,070
Spring Valley	\$ 6,580,440	\$ 6,774,402	\$ 7,680,121	\$ 7,425,541	\$ 6,830,248	\$ 6,073,664
Wintergardens	\$ 1,413,996	\$ 1,448,084	\$ 1,420,011	\$ 1,359,073	\$ 1,345,923	\$ 1,282,449
San Diego	\$ 144,253,346	\$ 155,901,646	\$ 171,988,324	\$ 165,989,691	\$ 154,738,444	\$ 139,435,277
<b>Total</b>	<b>\$ 219,296,562</b>	<b>\$ 235,574,080</b>	<b>\$ 258,057,087</b>	<b>\$ 248,939,240</b>	<b>\$ 232,877,276</b>	<b>\$ 210,562,255</b>
<b>Check Total</b>	<b>\$ 219,296,562</b>	<b>\$ 235,574,080</b>	<b>\$ 258,057,087</b>	<b>\$ 248,939,240</b>	<b>\$ 232,877,276</b>	<b>\$ 210,562,255</b>
County of San Diego						
East Otay Mesa	\$ 271,861	\$ 368,057	\$ 677,094	\$ 670,903	\$ 504,826	\$ 348,559
Lakeside/Alpine	\$ 4,072,534	\$ 4,939,844	\$ 4,844,755	\$ 4,636,900	\$ 4,591,692	\$ 4,374,863
Spring Valley	\$ 6,580,440	\$ 6,774,402	\$ 7,680,121	\$ 7,425,541	\$ 6,830,248	\$ 6,073,664
Wintergardens	\$ 1,413,996	\$ 1,448,084	\$ 1,420,011	\$ 1,359,073	\$ 1,345,923	\$ 1,282,449
<b>Total County</b>	<b>\$ 12,338,831</b>	<b>\$ 13,530,387</b>	<b>\$ 14,621,981</b>	<b>\$ 14,092,417</b>	<b>\$ 13,272,690</b>	<b>\$ 12,079,535</b>

Footnotes:

(1) Existing O&M increased by 3.7% per year per January five-year forecast

(2) From January 2018 PUD budget projections for FY 2019 and April 2019 for 2020. Allocated on projected budget percentages as contained in these forecast.

(3) From PUD October 2018 Updated Pure Water Program projections and January five-year report

(4) Pure water O&M estimate from PUD staff ramping up starting 2023 from January report.

(5) Metro annual CIP set based on projections in January report as summarized below.

Total Non-Pure Water CIP in report:	FY2020	FY2021	FY2022	FY2023	FY2024
	\$ 86.7	\$ 43.8	\$ 22.8	\$ 16.7	\$ 9.7

(6) From PUD debt service projections workbook after 2022

(7) Report says 100% SRF financed thus debt would not start until 2025

(8) FY 2020 Metro Budget flows & strengths used for non-PWP; PWP based on Exhibit G

(9) Audited 2016 SBB Model flows changed for Lakeside/Alpine, Padre Dam, El Cajon & Wintergardens based on EC projections; strengths maintained for all agencies based on audited 2016 numbers adjusted for Del Mar offload. For information only & not used in projections.

(10) PWP debt allocated based on 10/26/18 Exhibit G2050 flows and five-year average strengths . This is a fixed cost allocation for duration of debt.

# Attachment 3

## IWCP

## Presentation

# Metro TAC IWCP Presentation

June 19, 2019



- IWCP's Role in Regulatory Compliance
- Program Attributes
- Scope of Work
- Program Findings
- Initial Priorities

- General pretreatment regulations promulgated on June 26, 1978
  - *EPA approved San Diego's program on June 29, 1982*
- To comply with the ocean discharge waiver, San Diego proposed an Urban Area Pretreatment Program
  - *Approved by the RWQCB in August 1997 and by EPA in December 1998*
- Drinking water constituents will be evaluated as Pure Program is implemented
  - *Updated local limits need to be implemented by the fall of 2022*





*“Prior to the start of the diversion of flow via Morena Pump Station, an Enhanced Local Limits Study must be completed for the expanded NCWSP watershed, which includes the current sewerage plus the area tributary to the Morena Pump Station. The study include appropriate pollutants with drinking water criteria based upon MCLs and Notification Levels, and unregulated CECs from the EPA Drinking Water Contaminant Candidate List to be determined in consultation with DDW. The study will be updated annually.”*



North City Pure Water Title 22 Engineering Report Conditional Acceptance Letter  
Division of Drinking Water



- IWCP's Role in Regulatory Compliance
- Program Attributes
- Scope of Work
- Program Findings
- Initial Priorities



# San Diego's IWCP is a Large, Multi-Faceted Program

78 Significant Industrial Users (SIUs)

319 Non-SIUs in the Enhanced Source Control Program

149 Trucked Waste permits

+ 766 Best Management Practice authorizations

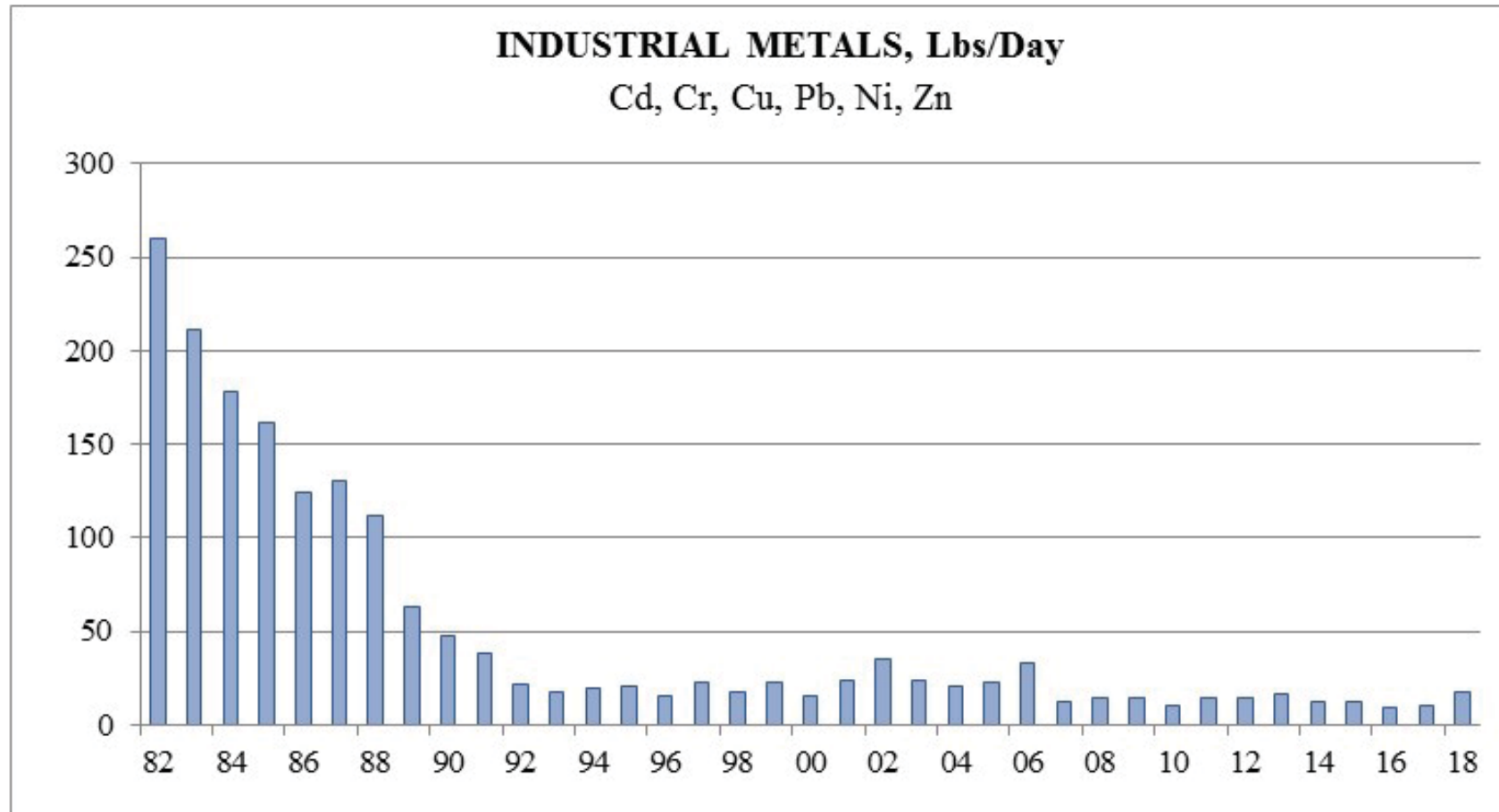
1,312 permits and authorizations

- plus -



2,480 active facilities that have flows less than permitting thresholds

## Average Daily Industrial Discharge of Heavy Metals into the Collection System Since Program Approval in 1982





- IWCP's Role in Regulatory Compliance
- Program Attributes
- Scope of Work
- Program Findings
- Initial Priorities

- Led by two experts who ran large IWCPs
  - *John Watson (Wen Environmental)*
  - *Mike Golden (G2inspections LLC)*
- Document and IWCP Program Review
  - *Pretreatment Annual Reports*
  - *Pretreatment Compliance Inspections and Audits*
  - *Source Control Programs*
  - *SOPs*
  - *Organizational Structure*
- Survey of programs of similar size in the Southwestern US
- Preparation of recommendations



- IWCP's Role in Regulatory Compliance
- Program Attributes
- Scope of Work
- Program Findings
- Initial Priorities

# SD Program Recommendation Categories

- Permit Processing
- Inspection
- Enforcement
- Industrial Discharge Monitoring
- Records Management
- Organization





- Begin the process 6 months prior to expiration
- Discontinue the automatic 180-day extension for permit renewal

Activity	Date	Days to Expiration
Permit Effective	01/04/2016	4 years
Review IU History	07/18/2019	180
Annual Inspection	08/07/2019	150
Receive Application	09/06/2019	120
Draft Inspection Report	09/06/2019	120
Finalize Inspection Report	10/06/2019	90
Draft Permit to Supervisor	10/21/2019	75
Supervisor Completes Review	11/05/2019	60
Issue Permit	11/20/2019	45
New Permit Effective	01/04/2020	0

## Recommendations

Implement a streamlined permit renewal process for SIUs in 100% compliance.

Issue General Permits for non-SIU facilities (e.g., bio-research facilities).

## Recommendations

Inspections to occur semi-annually (announced and un-announced).

Add photographs and narratives to the existing checklist process.

Add a requirement for the site representative to sign and date the inspection form.

Conduct a Job Hazardous Analysis.

IWCP inspectors and laboratory personnel should attend inspection training courses.

## Recommendations

Inspector should initiate enforcement actions for Informal Notices and Notices of Violation.

Offer enforcement training opportunities to inspectors and laboratory personnel by the Western States Project.

## Recommendations

Revise wastewater discharge permits to require the collection of flow-proportional samples

Create a tiered approach for IU compliance with flow-proportional requirements

Discontinue calculated adjustments to usage and deductions to flow whenever possible

Develop a more robust trunk line sampling program for non-SIU facility types (e.g., bio-research) in the same geographic location

Install a monitoring facility as close to the facility ROW as possible

Involve laboratory technicians in the sampling site selection



# Records Management Recommendations

## Recommendations

Establish an effective file management system for hardcopy files.

Develop a tracking system for inspections, NOV responses, and permit expirations.

Verify PIMS will communicate with LabWorks and test that data can be transferred electronically from one to the other.

Evaluate alternative PIMS software.

## Recommendations

Create a new Support Services Group.

Create SIU and non-SIU workgroups focused on segments of the IU population.

Create two Source Control sections with new field representatives assigned by geographical location.

Fill staff vacancies.



- IWCP's Role in Regulatory Compliance
- Program Attributes
- Scope of Work
- Program Findings
- Initial Priorities



## Priority

Create a Support Services Group to prepare SOPs which are critical to Program success.

Include vacant and leadership positions in the FY20 budget.

Schedule annual inspections for permits expiring in CY19.

Revise the permit renewal/processing schedule to provide inspections 6 mos. prior to expirations.

Create general permits for certain classes of non-SIUs.

## Priority

Develop criteria for streamlined permit application process for IUs demonstrating compliance.

Prepare mission-critical SOPs for permits, inspections and enforcement

Identify flow monitoring equipment required for flow-proportional sampling

Verify all current IUs in the Program system.



Attachment 4  
SBWRP UV  
System  
Replacement

**METRO JPA/TAC**  
**Staff Report**  
**Date: May 15, 2019**

**Project Title:**

SBWRP Ultraviolet Disinfection (UV) System Replacement

**Requested Action:**

Recommendation to the Metro Commission to award for construction contract

**Recommendations:**

Approve the construction award contract and forward the recommendation to the Metro Commission

Metro TAC:

To be submitted for consideration

IROC:

N/A- This project is included in the approved Metro CIP budget and does not require IROC review.

Prior Actions:  
(Committee/Commission,  
Date, Result)

None

**Fiscal Impact:**

Is this projected budgeted? Yes x No     

Cost breakdown between  
Metro & Muni: 100% Metro

Fiscal impact to the Metro  
JPA: 33.5% of \$4,800,000.00 = \$1,608,000.00

**Capital Improvement Program:**

New Project? Yes X No      N/A     

Existing Project? Yes      No X Upgrade/addition      Change     

**Previous TAC/JPA Action:**

None

**Additional/Future Action:**

Pending approval of this Technical Advisory Committee present it to the Metropolitan Wastewater Joint Powers Authority (JPA) Commission. Route Mayoral action with the City of San Diego

**City Council Action:**

Not required

**Background:**

The South Bay Water Reclamation Plant (SBWRP) is located on Dairy Mart Road and Monument Road in the eastern portion of the Tijuana River Valley. The plant is designed to treat up to 15 MGD of raw wastewater to secondary and/or tertiary reclaimed water standards. The existing UV System, which has been in service since 2004, provides disinfection before reclaimed water is put into distribution. It has been determined by the City the existing system has exceeded its useful life and does not meet current energy standards.

**Discussion:**

This project proposes to replace the existing UV disinfection system with a more technologically advanced system. The concrete channel will be modified to accommodate the new UV system. Trenching will be performed for new electrical and controls conduits serving the UV system. The treatment plant's control system will be programmed to interface with the new UV system. Validation tests will be performed for state permits. The new system will reduce maintenance and operational costs by meeting current energy efficiency standards.

**Bid Results: (7)**

J.R. Filanc Construction Company \$3,391,636.00, HPS Mechanical \$3,413,135.55, Tharsos Inc. \$3,430,000.00, SCW Contracting Company \$3,614,000.00, Wier Construction Company \$ 4,144,998.00, Houalla Enterprise Ltd.\$4,148,488.00, and Ahrens Mechanical \$4,396, 000.00

## **SBWRP Ultraviolet Disinfection (UV) System Replacement**

### **Budget**

#### **Actual Costs (5/9/19)**

Planning and Administration	\$ 181,512.15
Consultant (LEE & RO, Inc.)	<u>\$ 268,905.87</u>
<b>Total Actual Projected Costs</b>	<b>\$450,418.02</b>

#### **Projected Costs**

Construction	\$3,391,636.00
Consultant Support and Closeout	\$ 107,822.13
Construction Administration & Contingency	<u>\$ 650,000.00</u>
<b>Total Projected Costs</b>	<b>\$4,149,458.13</b>

**Total Actual and Projected Costs                      \$4.6 M (35% Soft Cost)**

### **Schedule**

#### **Construction**

NTP for Construction	June 2019
NOC	July 2020

#### **Project Closeout**

Closeout	February 2021
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## **Public Works**

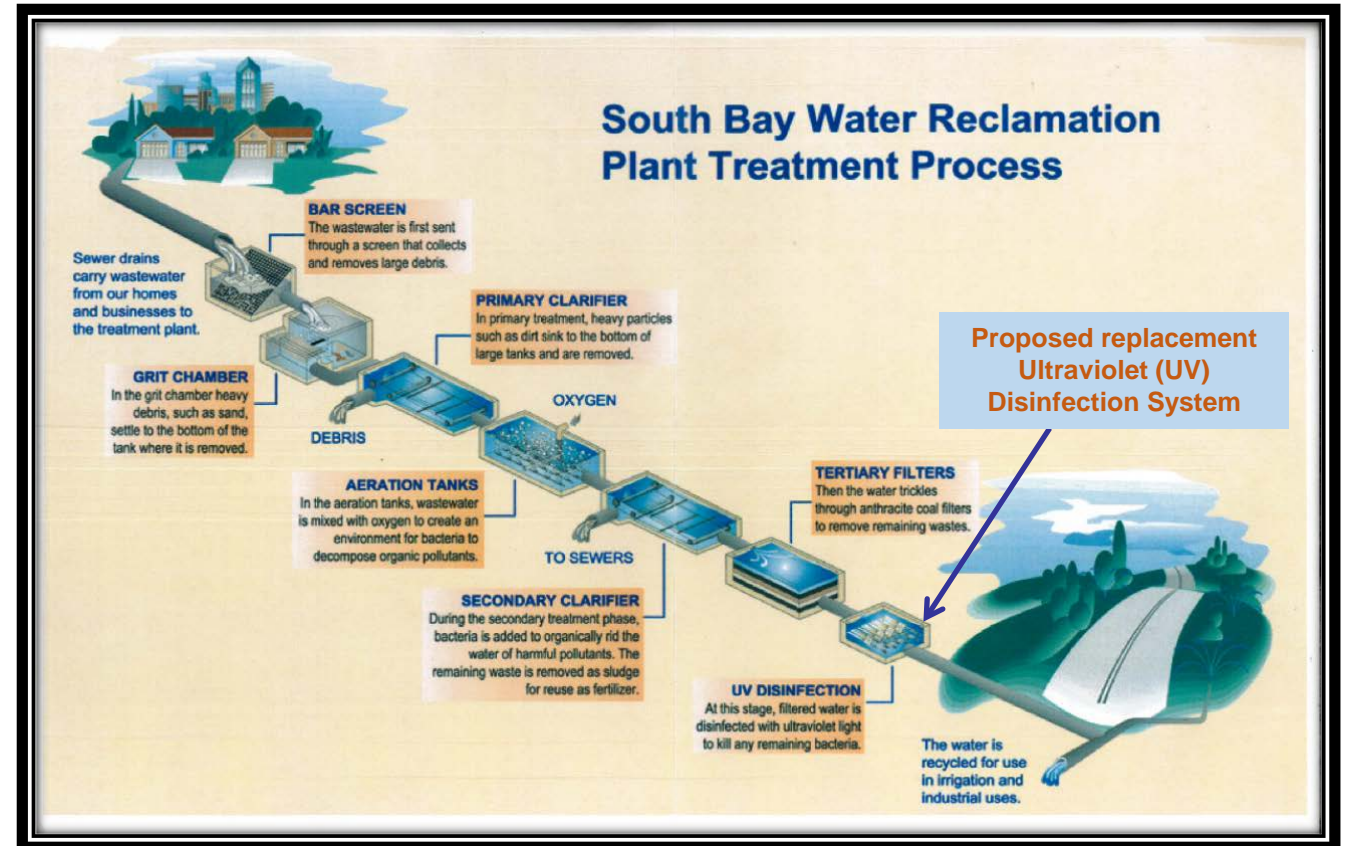
# Construction Contract for South Bay Water Reclamation Plant Ultraviolet Disinfection (UV) System Replacement

**Metro Commission/Metro Wastewater JPA**  
**June 6, 2019**



# Background

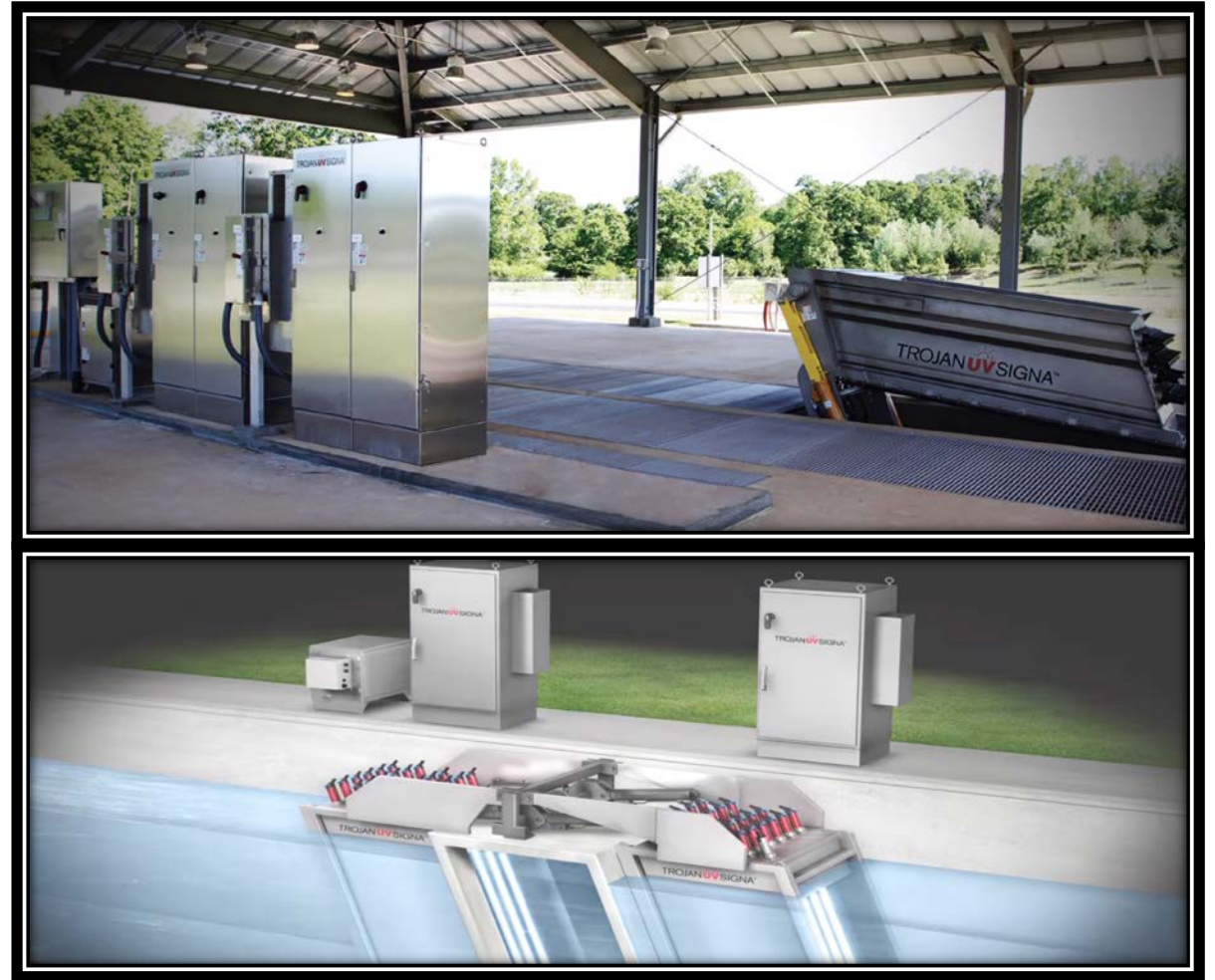
- ✦ SBWRP is designed to treat up to 15 MGD of raw wastewater to reclaimed water standards.
- ✦ Existing UV System was installed in 2004 and has exceeded its useful life.
- ✦ Current modified NPDES permit requires 45 MGD of reclaimed water:
  - ✦ 30 MGD at North City WRP
  - ✦ 15 MGD at SBWRP





# Scope of Work

- ✦ Replace the existing UV system with a more technologically advanced system
- ✦ Modify the concrete channel to accommodate the new UV system
- ✦ Install new electrical and control systems
- ✦ Equipment validation tests and update of required permits



# Estimated Project Cost

✦ Expenditures as of May 9, 2019 (Planning, Admin, and Design Engineering):	\$ 450,418.02
✦ Projected Expenditures:	
✦ Construction (Filanc Const.):	\$ 3,391,636.00
✦ Construction Support (Lee & RO Inc.)	\$ 107,822.13
✦ Construction Management & Contingency	<u>\$ 650,123.85</u>
✦ Estimated Total Project Cost:	\$ 4,600,000.00



# Estimated Project Schedule

- ✦ Notice To Proceed – Summer 2019
- ✦ Construction Completion – Summer 2020



# Questions?



# New System Energy Consumption per Flow

Average Daily Flow (MGD)	Daily Power Consumed by Proposed UV System (KWH)
1	871.2
2	871.2
3	871.2
4	1024.8
5	1245.6
6	1524
7	1742.4
8	2011.2
9	2277.6
10	2486.4
11	2769.6
12	2983.2
13	3264
14	3542.4
15	3734.4

**From:** Helminski, John

**Sent:** Wednesday, May 22, 2019 4:48 PM

**To:** Roberto Yano; Dexter Wilson ([Dexter@dwilsoneng.com](mailto:Dexter@dwilsoneng.com)); Walter Tulloch ([wstulloch@gmail.com](mailto:wstulloch@gmail.com))

**Cc:** Phung, Tung; Rashid, Surraya; Cetin, Elif

**Subject:** Response to UV system questions at Metro TAC

Roberto, Dexter and Scott,

Here are the responses to MetroTAC questions for the SBWRP UV Replacement project.

- Mr. Hashemian from La Mesa inquired about the EOCP determination on the lowest responsive bidder selection. [EOCP has completed their review and determined the lowest bidder \(J.R. Filanc Construction\) as responsive. The construction contract will be awarded to J.R. Filanc in the amount of \\$3,391,636, which is below the engineer's estimate of \\$3,660,000.](#)
- Mr. Beppler from Otay Water District inquired as to the regulatory requirements for South Bay Water Reclamation Plant? [To meet the modified permit requirement of 45 mgd reclaimed capacity; 30 mgd at North City WRP and 15 mgd at South Bay WRP. The City of San Diego is required to maintain a system capacity of 45 MGD as required by the Clean Water Program Consent Decree.](#)
- Mr. Beppler from Otay Water District inquired as to whether a smaller UV system can be installed at the South Bay Water Reclamation plant? [Failure to maintain 45 mgd could jeopardize current and future waivers.](#)

[Please let me know if you need any additional information and whether or not the item will move forward to the Metro JPA.](#)

**John J. Helminski**

Assistant Director

City of San Diego

Public Utilities Department

T: 858-292-6402

[sandiego.gov](http://sandiego.gov)



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# Attachment 12

## MetroTAC

## Work Plan



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

Active Items	Description	Member(s)
<i>Strategic Plan Ad HOC</i>	<i>The JPA last updated their strategic plan in 2015. The Ad Hoc was formed to determine should there be a 2019 strategic plan update and if so what format it should follow. First meeting to be June 2019.</i>	<i>Whitney Benzian Jerry Jones Gary Kendrick John Mullin Ed Spriggs JPA staff</i>
<i>SB 332 Working Group</i>	<i>SB 332 (Hertzberg/Weiner) relates to wastewater treatment for recycled water and agencies with ocean outfalls. It requires the entity that owns the wastewater treatment facility that discharges through an ocean outfall and affiliated water suppliers (it defines water not wastewater suppliers) to reduce the facilities annual flow as compared to the average annual dry weather wastewater discharge baseline volume as prescribed by at least 50% on or before January 1, 2030 and by at least 95% on or before January 1, 2040. The working group was formed to track the process of this legislation.</i>	<i>Yazmin Arellano Beth Gentry Hamed Hashemian</i>
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 1/19: Working group still meeting with PUD staff & consultants. <i>6/19: Working Group has presented an alternative plan in November 2018 which the City and their consultants are reviewing.</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. 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>6/19: Phase II alternative presented to Metro TAC in May and JPA in June 2019. Copy of presentation can be found in minutes to those meetings.</i>	Roberto Yano Seval Sen Scott Tulloch Dexter Wilson SD staff & consultants



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

Active Items	Description	Member(s)
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. 1/19: Group continues to meet. 3/19: Working Group has been meeting w/Padre Dam, Coronado, & Otay. <i>6/19: Draft agreement has been prepared and is being reviewed/refined.</i>	Eric Minicilli Yazmin Arellano Dan Brogadir Seval Sen Scott Tulloch Dexter Wilson SD staff & consultants
Phase I Financial Implementation Working 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. 1/19: Working group had formation meeting. 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 complete. <i>6/19: Group will start meeting in June 2019 on a regular basis.</i>	Roberto Yano 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. 1/19: Group will start meeting in February.	Roberto Yano Karyn Keese Scott Tulloch Dexter Wilson SD staff & consultants
Pretreatment Working Group	Formed to work with San Diego on new standards for industrial waste discharge. 1/19: SD has received draft report from consultant but has sent back for revisions. Second draft will be reviewed by working group.	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. 1/19: Working group formed. First meeting 2/20/19. <i>6/19: Group continues to meet and work on updating website.</i>	Roberto Yano Karyn Keese Lori Peoples Susan Spotts
Exhibit E Audit	<i>1/19: FYE 2017 fieldwork complete. 3/19: FYE 2018 entrance conference complete. Sample selection complete. 6/19: FY 2018 fieldwork to be completed week of June 17, 2019.</i>	Karen Jassoy Karyn Keese Dexter Wilson
IRWMP	Members should monitor funding opportunities at: <a href="http://www.sdirwmp.org">http://www.sdirwmp.org</a> 1/19: PA representatives continue to report monthly at Metro TAC 3/19: Minutes from 3/20/19 Meeting attached to work plan. <i>6/19: Metro TAC given monthly updates. See Metro TAC minutes for updates.</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. 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. 3/20: JH will provide training schedule for SBB at April TAC meeting.	Dan Brogadir <b>Dennis Davies?</b> 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 & JPA Work Plan**  
**Active & Pending Items**  
**June 2019**  
***Updated Items in Red Italics***

# 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 <sup>st</sup> email sent on 5/23/18 & 2 <sup>nd</sup> email sent on 5/29/18	5/23/18
Padre Dam	Al Lau	Request for Proposal Owner Controlled Insurance Program (OCIP) Pure	5/31/18

		Water (Mark Niemiec will participate)	
County of San Diego	Dan Brogadir	Request for Owner Controlled Insurance Program Interview (Pure Water)	2/25/19
Chula Vista	Frank Rivera Beth Gentry	Request for Owner Controlled Insurance Program Interview (Pure Water)	2/26/19
Imperial Beach	Eric Minicilli		
La Mesa	Hamed Hashemian		
Poway	Mike Obermiller Rudy Guzman		
El Cajon	Dennis Davies Yazmin Arellano		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Joe Bride		
Padre Dam	Mark Niemiec Sen Seval		
County of San Diego	Dan Brogadir		
Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
La Mesa	Hamed Hashemian		
Poway	Mike Obermiller Rudy Guzman		
El Cajon	Dennis Davies Yazmin Arellano		
Lemon Grove	Mike James		
National City	Roberto Yano		
Coronado	Ed Walton		
Otay Water District	Bob Kennedy		
Del Mar	Joe Bride		
Padre Dam	Mark Niemiec Sen Seval		
County of San Diego	Dan Brogadir		
Chula Vista	Frank Rivera		
Imperial Beach	Eric Minicilli		
La Mesa	Hamed Hashemian		

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

