



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, October 19, 2022

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

LOCATION: The health and well-being of the MetroTAC members/alternates and participating staff during the COVID-19 outbreak remains our top priority. The MetroTAC is taking steps to ensure the safety of all involved by holding its June meeting electronically via Zoom.

E-mail containing information on how to participate in the meeting will be distributed to the MetroTAC members e-mail list and approved San Diego City Staff by Monday, October 17, 2022 by 5:00 p.m. If you do not receive the e-mail, please contact Lori Peoples at lpeoples@chulavistaca.gov PRIOR to the meeting date

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1. Review and Approve MetroTAC Action Minutes for the Meeting of September 21, 2022 (**Attachment**)
 2. Metro Commission/JPA Board Meeting Recap (Standing Item)
 3. **DISCUSSION:** Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the MBC Storm Water Diversion Project (Brian Vitelle/Gabriel Torres – San Diego) (**Attachment**)
 4. **DISCUSSION:** New Metro Billing Ownership vs. Use (Dexter Wilson) (**Attachment**)
 5. **DISCUSSION:** Agency Calculations of New Exhibit B Capacity (Dexter Wilson) (**Attachment**)
 6. **DISCUSSION:** Peak Flow Billing Formulas (Dexter Wilson) (**Attachment**)
 7. **UPDATE:** Committee on Proposed Mutual Aid Agreement with Wastewater Agencies (Standing Item) (Peejay Tubongbanua)
 8. **UPDATE:** Industrial Wastewater Control Committee (Standing Item) (Beth Gentry)
 9. **UPDATE:** Metro Wastewater (Financial) (Standing Item) (Adam Jones)
 10. **UPDATE:** Metro Wastewater (General) (Standing Item) (Tom Rosales)
 - A. Pt. Loma Wastewater Treatment Plant Road
 - B. April 10, 2020 Spill Update
 - C. Capital Program Master Planning Process Overview and Status
 11. **UPDATE:** Quarterly Metro Capital Improvement Program and Funding Sources (Standing Item) (Tung Phung) (Future Agenda)

12. **UPDATE:** Pure Water Program (Standing Item) (Amy Dorman & Tom Rosales)
 - A. Pure Water Construction Contracts Update
 - B. Secondary Equivalency (Tom Rosales)
13. **UPDATE:** East County Advanced Water Purification Program (Standing Item) (Mark Niemiec)
(To be presented at a future meeting)
14. **UPDATE:** Financial (Standing Item) (Karyn Keze)
15. **UPDATE:** Residuals Agreements (Beth Gentry)
16. **UPDATE:** IRWMP Update (Standing Item) (Beth Gentry)
17. **ACTION:** New Members to IRWM Committee
18. **REPORT:** MetroTAC Work Plan (Standing Item) (Beth Gentry) (**Attachment**)
19. Review of Items to be Brought Forward to the Regular Metro Commission/Metro JPA Meeting
(November 3, 2022)
20. Other Business of Metro TAC
21. Adjournment (To the next Regular Meeting November 16, 2022)

Metro TAC 2022 Meeting Schedule

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

ATTACHMENT 1

ACTION MINUTES OF SEPTEMBER 21, 2022



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

ACTION MINUTES

DATE OF MEETING: September 21, 2022
TIME: 11:00 AM
LOCATION: Zoom Meeting held Online

MEETING ATTENDANCE:

Members Present

Beth Gentry, Chula Vista
Leon Firsht, Coronado
Joe Bride, Del Mar (ABSENT)
Yazmin Arellano, El Cajon
Blake Berringer, El Cajon
Mike James, El Cajon
Hamed Hashemian, La Mesa
Juan Larios, Imperial Beach
Open Position, Lemon Grove (ABSENT)
Carmen Kasner, National City
Robert Kennedy, Otay WD
Steven Beppler, Otay WD
Paul Clarke, Padre Dam MWD
Eliza Marrone, Poway
Peejay Tubongbanua, County of San Diego

San Diego City Staff/Consultants

Adam Jones, City of San Diego
Amy Dorman, City of San Diego
Tung Phung, City of San Diego
Mike Rosenberg, City of San Diego
Margaret Llagas, City of San Diego

Others Present

Doug Owen, Stantec

Sanjay Gaur, EC AWP JPA

Staff/Consultants Present

Karyn Keze, the Keze Group
Scott Tulloch, NV5
Dexter Wilson, Wilson Engineering
Lee Ann Jones-Santos, Treasurer
Adriana Ochoa, General Counsel
Lori Anne Peoples, MetroTAC

1. Review and Approve MetroTAC Action Minutes for the Meeting of July 20, 2022

ACTION: Motion by Bob Kennedy seconded by Hamed Hashemian the Minutes be approved.
Motion carried with Leon Firsht and Juan Larios abstaining.

MetroTAC Chair Gentry introduced our new General Counsel, Adriana Ochoa from Procopio.

2. Metro Commission/JPA Board Meeting Recap

MetroTAC Chair Gentry reported that at the September meeting of the Metro JPA had been cancelled.

3. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the Proposed Change to the Metro Wastewater JPA Agreement

General Counsel Ochoa provided an overview of the documents included in the agenda package. She summarized that the action is to remove the one sentence that states "Such legal advisor shall be legal counsel to one of the Participating Agencies and the JPA will need to approve the removal if this item moves forward to them. If they approved by the JPA, each PA will have to take the amendment to their Board for approval and signature and return it to us for processing. TAC members should take the item to their legal counsel to determine if a resolution or ordinance or simple majority vote is needed from their agency.

Karyn Keze added that this was an item that the JPA members requested for clarification as we will be losing half of our board after the November 2022 election. The original sentence was in the agreement and was the same for the Treasurer position due to the thinking that the PAs' would volunteer a person from their agency at no cost to the JPA. This is not the case.

ACTION: Motion by Steve Beppler seconded by Leon Firsht, to recommend approval by the JPA. Motion carried unanimously.

4. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the FY 2022 Year-End Financial Statements

Treasurer Jones-Santos stated that the Finance Committee had thoroughly reviewed and approved this item at their last meeting. She then provided a verbal overview of the attachments included in the agenda package.

ACTION: Motion by Leon Firsht, seconded by Hamed Hashemian to recommend approval of the item to the JPA. Motion carried unanimously.

5. ACTION: Consideration and Possible Action to Recommend to the Metro Commission/Metro Wastewater JPA Approval of the FY 2023 Metro Wastewater JPA Budget Billings

Karyn Keze provided a quick overview of the attachments included in the agenda package. Due to unforeseen expenses in the last quarter of FY22 the JPA will not have the reserves as anticipated, therefore they are proposing instead of having the PAs billings reduced by reserves as planned, to amend that action to include the budget being billed in its entirety.

ACTION: Motion by Beth Gentry, seconded by Bob Kennedy to recommend approval of the item to the JPA. Motion carried unanimously.

6. DISCUSSION: Review of Current PA Metro Billing Formulas

Dexter Wilson provided a brief verbal overview of the attachments included in the agenda package. They have currently revised the existing billing formulas and the next review will be by Agency. He also provided peak formulas so to provide how each PAs' peak would be established.

Karyn Keze added that the billing formulas had been the same since around 1991. They used to be reviewed yearly and signed off by each PA. This has unfortunately not been continued.

7. DISCUSSION: Sanitary Sewer Management Performance Risk and System Optimization – Part 2

Mike Rosenberg, City of San Diego Deputy Director of Wastewater Collection introduced Senior Civil Engineer Margaret Llagas provided a verbal overview of their presentation included in the agenda package.

8. DISCUSSION: Review of San Diego PUD Emergency Change Orders

Craig Boyd, City of San Diego Deputy Director of Public Utilities Department stated that these items had come up at the last JPA meeting due to articles that had surfaced and a presentation was requested.

A. \$80M Change Order for Chemical Contracts

Craig provided a brief overview of the presentation included in the agenda package.

B. \$20M Construction Change Orders (CCO) for Morena Pump Station

Amy Dorman provided a brief overview of the presentation included in the agenda package.

MetroTAC Chair Gentry requested they include in the presentations to go to the JPA, a not to exceed “metro specific” amount.

9. DISCUSSION: Review of Draft Language for the Conveyance and Treatment of Wastewater Generated at Military Bases to Address the Amended and Restated Agreement Section 2.9.1.6

Dexter Wilson provided an overview of the draft language. The city of Coronado requested to be added to the 2nd ARA to allow for consistency on military bases for the Metro System. This language affects 3 PAs and allows to transfer from cities to San Diego. National City ha completed their 32nd Street transfer to San Diego. The goal is to provide uniform billing of the bases.

Consensus of the PAs was that the language looked okay to move forward.

Leon Firsht of Coronado stated he believed San Diego is billing and charges transportation. He believes Coronado is handling one and forwarding for reimbursement to San Diego.

Karyn Keze requested Leon contact Adam Jones at the City of San Diego to confirm the language that allow Coronado to request the City of San Diego take over the billings for consistence at Naval Bases.

10. UPDATE: East County Advanced Water Purification Program

Mark Niemiec of Padre Dam was unable to attend today’s meeting and requested Yasmin Arellano provide the following update:

1. As a reminder, Padre Dam is the ECAWP Project Administrator on behalf of the JPA members: Padre, County of SD, and the City of EC.

2. Construction is moving forward on Package 1. Package 1 includes the Construction of the treatment plant and visitor center – the contractor is performing mass grading activities with soil import beginning this week – to give you an idea of the massive earth-moving operation, it'll take approximately 25 trucks per hour for at least two months. Mark will bring some pictures of the ongoing activities at our next TAC meeting he can attend.

3. Package 2 includes the pipeline installation connecting the treatment plant with Lake Jennings – they've completed 100% plans and specs and routing for final stakeholder comments.

4. Package 3 includes the pump station work and de-chlorination facility; the design is complete, coordinating final details on addressing utility conflicts with stakeholders.

11. UPDATE: Metro Wastewater (General) (Attachment Covers 11 A,B, and D)

Craig Boyd, City of San Diego presented for Tom Rosales who was absent and provided a verbal update of the presentation included in the agenda package.

A. Pt. Loma Wastewater Treatment Plant Road

B. April 10, 2020, Spill Update – Supplemental Environmental Project Review, Duckbill Valve

Sealing Details and Public Hearing Update

C. Capital Program Master Planning Process Overview and Status (no update)

D. Update on Tentative Order No. R9-2022-0078 Hearing and associated cost increases

12. UPDATE: 4TH Quarterly Metro Capital Improvement Program and Funding Sources

Tung Phung provided a verbal update of his presentation provided in the agenda package which covered the last quarter of FY 2022.

13. UPDATE: Pure Water Program

A. Pure Water Construction Contracts Update

Amy Dorman, City of San Diego provided a brief verbal overview of her attachment included in the agenda package that reflected all contracts had been awarded and also reflected the estimate vs. the award amounts and if the project was closed.

B. Secondary Equivalency

Tom Rosales was not present so no update was heard.

14. UPDATE: Committee on Proposed Mutual Aid Agreement with Wastewater Agencies

Peejay Tubongbanua, San Diego County and Chair of the Committee Stated they he had no update.

15. UPDATE: Industrial Wastewater Control Committee

MetroTAC Chair Gentry stated there had not and will not be a meeting until October so she had no update.

16. UPDATE: Metro Wastewater (Financial)

Adam Jones, City of San Diego stated that he had no update.

17. UPDATE: Metro Wastewater (Financial)

Karyn Keze stated she had no additional report.

18. IRWMP Update

Chair Gentry noted that they had a meeting on August 3rd and the attachments will be forwarded to the PAs via Secretary Peoples. (copy attached as Exhibit A to these minutes):

19. ACTION: New Member IRWM Regional Advisory Committee

MetroTAC Chair Gentry stated they were still looking for members to this committee so we don't lose our place at the table.

20. REPORT: MetroTAC Work Plan

Chair Gentry noted that the MetroTAC Work Plan was attached to the agenda, and no updates were made since the last meeting.

21. Review of items to be Brought Forward to the Regular Metro Commission/Metro Wastewater JPA Meeting on October 6, 2022

3, 4, 5, 6, 7, 8, 11, 12

22. Other Business of MetroTAC

Chair Gentry inquired as to whether the PAs would like to continue virtual meetings and stated if not, to contact her.

23. Adjournment to the Next Regular Meeting October 19, 2022

There being no further business the meeting was adjourned at 1:52 p.m.

ATTACHMENT A

Items sent out after the
meeting for MetroTAC
Chair Gentry
Regarding Item 18
IRWMP Update



Regional Advisory Committee (RAC) Meeting #98

August 3, 2022

9:00 am – 10:30 am

Zoom Meeting

NOTES

Attendance

RAC Members

Anne Bamford, American Water Works Association
Anne Middleton, ECOLIFE Conservation
Ann Van Leer, The Escondido Creek Conservancy
Beth Gentry, City of Chula Vista
Brook Sarson, San Diego Sustainable Living Institute
Charlie de la Rosa and Kelly Craig, San Diego Zoo Global
David Walker, San Diego Audubon Society
Marisa Soriano, City of Chula Vista
Marissa Potter, Santa Fe Irrigation District
Mark Seits, Floodplain Management Association
Michelle Berens, Helix Water District
Mike Thorton and Chris Trees, San Elijo JPA
Elizabeth Lovsted for Kelley Gage, San Diego County Water Authority
Jennifer Hazard, RCAC
Joey Randall for Kim Thorner, Olivenhain Municipal Water District
Julia Chunn-Heer, Surf rider
Justin Gamble and Tim Murphy, City of Oceanside
Kimberly O'Connell and Amanda Loeper, UCSD Clean Water Utility
Leslie Cleveland for Jack Simes, U.S. Bureau of Reclamation
Mark Seits, Floodplain Management Association
Michelle Berens, Helix Water District
Oscar Romo, Alter Terra
Patrick McDonough, San Diego Coastkeeper
Phil Pryde, San Diego River Park Foundation
Richard Whipple, County of San Diego
Sandra Jacobson, California Trout

RWMG Staff and Consultants

Andrea Araujo, County of San Diego
Arthella Vallarta, Woodard & Curran
Chelsea McGimpsey, County of San Diego
Jacob Pickett, City of San Diego
Jane-Marie Fajardo, City of San Diego
Julie MarLett, City of San Diego

Lesley Dobalian, San Diego County Water Authority
Loisa Burton, San Diego County Water Authority
Mark Stephens, City of San Diego
Rosalyn Prickett, Woodard & Curran
Sally Johnson, Woodard & Curran
Vanessa De Anda, Woodard & Curran

Interested Parties to the RAC

Alexi Schnell, San Diego County Water Authority
Anne Turcotte, La Posta Band of Mission Indians
Brian Hojnacki, City of San Diego
Candance Comer, City of San Diego
Carlos Quintero, Sweetwater Authority
Cristina Torres, Viejas Band of Kumeyaay Indians
Efren Lopez, San Diego County Water Authority
Eleanor Carrano, La Posta Band of Mission Indians
Erica Wolski, Ramona MWD
Gail Patton, San Diego County Water Authority
Heidi Brow, Pala Band of Mission Indians
Inken Mello, Woodard & Curran
Jessica Cleaver, San Diego County Water Authority
Joel San Juan, Public
Kumiko Hayazaki, City of San Diego
Leslie Payne, Sweetwater Authority
Mariah Mills, City of San Diego
Mina Ziaei, Department of Water Resources
Paul Watson, Global Action Research Center
Ryan Krantz, Viejas Tribal Government
Soleil Develle, Fallbrook Public Utility District
Wenda Alvarez, WSA Marketing

Welcome, Introductions, & Land Acknowledgement

Ms. Elizabeth Lovsted, San Diego County Water Authority, welcomed everyone to the virtual RAC meeting. Ms. Sally Johnson, Woodard & Curran, reviewed the virtual meeting process including how to use the virtual controls and chat feature. Meeting participants were encouraged to enter their name and organization into the chat for roll call and to update their name on Zoom.

Ms. Lovsted read the Tribal Land Acknowledgment to the group, which was written to be delivered in a virtual setting:

We acknowledge that this virtual meeting of the San Diego IRWM Program Regional Advisory Committee is taking place in the traditional lands of the Kumeyaay and Luiseño people. As we begin this meeting, we acknowledge and honor the original inhabitants of our region. A land acknowledgment is a critical step toward working with native communities to secure meaningful partnership and inclusion in the stewardship and protection of their cultural resources and homelands. We respect these ancestral grounds where we are collectively gathered and support the resilience and strength that Indigenous people have shown worldwide.

San Diego Regional Drought and Colorado River Updates

Mr. Efren Lopez, San Diego County Water Authority (SDCWA), updated the group on water supply conditions in the San Diego Region and on recent drought-related actions in the state. There have been key state actions in response to the current drought. In November 2020, Governor Newsom directed state agencies to prepare for possible dry conditions in 2021. From April 2021 to October 2021, Governor Newsom issued multiple drought emergency proclamations, which included declaring a statewide emergency, authorizing the State Board to prepare emergency regulations to prohibit wasteful water practices, and directing water suppliers to activate Water Shortage Contingency Plans (WSCPs). In July 2021, the Governor issued Executive Order N-10-21 calling for a voluntary 15% reduction in water use from 2020 levels.

On March 28, 2022, Governor Newsom signed Executive Order N-7-22 directing the California State Water Resources Control Board (State Water Board) to consider adopting emergency regulations that require water suppliers to submit preliminary Annual Water Supply and Demand Assessment (AWSDA) by June 1st and a final version by July 1st, to implement Level 2 actions in the WSCP, and to ban irrigation of “non-functional” turf in commercial and industrial sectors. Additionally, by June 10th, water suppliers must implement all demand reduction actions identified in the supplier’s WSCP for a shortage level of 10 to 20 percent. Exemptions are allowed if the AWSDA shows no shortage through September 30, 2023, the supplier does not rely on water from the State Water Project, Colorado River, or the Central Valley Project, and no more than 10% of supply comes from critically over-drafted groundwater basins, and the residential gallons per capita day (GPCD) is below 55 gallons.

The key takeaways of the state actions are that regulation does not require formal activation of Level 2 nor an actual reduction of 20% and enforcement is left to the discretion of the water suppliers. The SDCWA can remain in Level 1 but implement Level 2 demand reduction actions. Level 1 and 2 actions are identical, which include ongoing water use efficiency and a communication plan. Supply augmentation actions are not needed.

The SDCWA has made progress toward the Governor’s 15% water savings goal compared to the year 2020. The cumulative savings from July 2021 to May 2022 are 2%. In 2020, the San Diego Region experienced additional rainfall that resulted in lower regional water demands; however, recent dry weather conditions in April 2022 increased regional water use. As a result, using the year 2020 as a baseline has made water conservation more difficult in the San Diego Region. Nonetheless, per capita water use in the Region has declined 43% since 1990 and the Region is well-prepared for dry years.

Water Conservation is hard-wired in San Diego County. The high-priority rights on the Colorado River are secure, and drought-resilient supplies include seawater salination. The Region’s water supplies are reliable even in multiple dry years. The SDCWA has also regularly engaged with the media to circulate key drought messaging. Recently, the SDCWA launched an inclusive outreach campaign to reach wider audiences and new promotional items for events.

Ms. Alexi Schnell, SDCWA, presented updates on the Colorado River. Approximately 69% of the Region’s water supply originates from the Colorado River. Calendar year (CY) 2022 experienced the driest conditions in 1,200 years, resulting in the first Lower Basin shortage declaration. Arizona, Nevada, and Mexico have received 613,000 acre-feet (AF) water supply reductions. California is not subject to reductions due to the state’s high-priority water rights.

As of August 1, 2022, the Colorado River Basin’s precipitation is 99% of normal, but the forecasted unregulated inflow for water year (WY) 2022 is only 61% of normal. Lake Mead and Lake Powell are at 27% capacity. The historic drought and low runoff have led to historically low storage in key Colorado River reservoirs. Additionally, there are hydropower concerns with the potential for reservoirs to drop below minimum power pool elevations. To protect critical elevations, the U.S. Bureau of Reclamation has taken actions, such as reducing Lake Powell releases by 480,000 AF, releasing 500,000 AF from Flaming Gorge to Lake Powell, and

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developing the Lower Colorado River Basin 500+ Plan. Despite these actions, Lake Powell and Lake Mead elevations continue to decline.

The official determination for CY 2023 operations will be made later in the month. The potential Tier 2 shortage will affect Arizona, Nevada, and Mexico and there is also potential for additional drought contingency plan contributions. Furthermore, the U.S. Department of Interior has called on the Basin States to develop a plan for 2 to 4 million AF of additional conservation by mid-August. Colorado River basin stakeholders are working collaboratively on a proposal, and the SDCWA is engaged.

Questions/Comments:

- The Colorado River updates should have been presented prior to the San Diego Regional Drought updates. The first presentation felt like a commercial for the SDCWA because there was no sense of urgency on the current drought conditions in California and the Colorado River. We need to do more meaningful drought messaging and actions to make a difference. The San Diego Coastkeeper is not interested in seeing communication plans, it is interested in seeing actual water savings in the Region.
 - Thank you for your comment. Conservation has always been a main focus for the SDCWA, which has a history of promoting and supporting conservation actions and projects.
 - I agree with these comments. The situation continues to get more dire.
- The wastewater industry has been working endlessly for decades for the Region to be water-wise and conscientious of how we use water. I agree that the first part of the presentation felt like a commercial, but I appreciate Mr. Lopez's passion for the SDCWA. We need to work on bringing communities together and continue with drought messaging. Additionally, we have to be mindful of the consequences of how indoor water conservation is impacting water recycling. The collection systems we have built depend on gravity and water flow to move water and solids to the treatment plants.
- The remedy to the discussion earlier from our perspective is in the water resource planning documents and adding appropriate local multi-benefit sources of water which is where the Integrated Regional Water Management (IRWM) Program can help.

Retail Agency Drought Perspectives

Ms. Leslie Payne, Sweetwater Authority, presented Sweetwater Authority's perspectives and actions on the current drought. Sweetwater Authority has been delivering safe, reliable water since 1977 and serves predominately large, disadvantaged communities. Sweetwater Authority has a diverse water supply portfolio, which includes service water treatment, groundwater desalination, freshwater wells, and imported water. The agency also owns and operates two dams and reservoirs, 20 storage tanks, and 17 pump stations.

Despite investments in water sources, their water supply is very weather dependent. In wet years, Sweetwater Authority can meet 100% of their customer's water needs with local water, the majority of which comes from surface water collected in two reservoirs and supplemented by groundwater treated at the Groundwater Desalination Facility. In dry years, about 30% of water can be supplied through the Groundwater Desalination Facility with another 10% coming from freshwater wells and the majority coming from purchased supplies of imported water.

The current drought is one of the challenges Sweet Water Authority is currently facing. California is facing a third year of the driest drought on record. In March, Governor Newsom called upon water agencies to activate their Drought Response Plans to higher levels of water restrictions to mitigate concerns of the long-term drought impacting the state. On May 24, the State Water Board adopted a new regulation to guide the state in reducing water demand and to improve conservation. In June, Sweetwater Authority's board voted to remain in Level 1

of their Drought Response Plan but implement additional drought measures to encourage additional water conservation.

Sweetwater Authority's customers are some of the lowest water users in San Diego County and Region and water efficiency is a way of life. The agency has invested in local drought-proof water sources to help mitigate concerns. Sweetwater Authority wants to assist businesses in their service area to save water and money on their water bill. They offer numerous rebates for plumbing fixtures, water efficiency irrigation equipment, and turf replacement. Sweetwater Authority also offers water efficiency grants and free water use audits for homes and businesses.

Sweetwater Authority will continue to monitor the drought and work with their Board to modify drought measures as needed and work with local community partnerships to circulate drought messaging to school programs and community groups. The agency will also advocate through legislative channels at the state and the federal level.

Mr. Brian Hojnacki, City of San Diego, presented the City of San Diego's (the City) water conservation drought response. The City offers many conservation and rebate programs that lead to substantial water savings, including residential and commercial, industrial, and institutional (CII) surveys, rain harvesting programs, grey water rebates, turf removal rebates, landscape make-over classes, and device rebates. The City has also implemented year-round restrictions, which include no irrigation between 10:00 am – 6:00 pm, no runoff irrigation, no non-recirculating fountains, etc. The City also had a retrofit upon resell or alterations of homes, which means that any home that is sold in California must certify that they have retrofitted all their water use efficient devices. The City has a program that requires every home seller to obtain a water conservation certificate that shows they removed or upgraded the devices or indicates that the buyer will remove or upgrade the devices.

The City's outreach and education efforts include news releases and social media postings, dedicated field staff who assess people's homes, a public information clerk, a water conservation hotline, a conservation website, and the promotion of regional education programs. An important part of the City's water conservation is the Pure Water San Diego, a multi-year program that will provide nearly half of the City's water supply locally by the end of 2035. Once the program comes online, it will use proven water purification technology to clean recycled water to produce safe, high-quality drinking water.

Questions/Comments:

- Can there be something done about the trees in San Diego? Every few years, I have to dig out roots. We need to look at what kind of trees we want in San Diego.
 - Thank you for your comment and we will consider your suggestion.

Proposition 1, Round 2

Ms. Lesley Dobalian, SDCWA, presented updates on Proposition 1, Round 2. The San Diego IRWM Program is on track and the grant team will submit the grant application to the Department of Water Resources (DWR) by August 19. DWR offered optional workshops with each IRWM region to review projects and vet for potential concerns. The mandatory workshop for Proposition 1, Round 1 resulted in multiple project changes to San Diego IRWM's application in 2019. The project list was presented to DWR on July 18. The feedback was positive with minimal questions and no eligibility concerns arose during the workshop. The anticipated award date is the end of 2022.

The San Diego IRWM application process is on Step 4, which is preparing the DWR application and acquiring additional project details from the local project sponsors (LPSs). The Project Selection Workgroup (PSW) was authorized by the RAC to select a suite of projects to submit to DWR at the April RAC meeting. There were

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four all-day meetings in May and June and PSW members spent time outside meetings to review materials. The process involved PSW members evaluating projects and conducting project interviews. A quorum was achieved at every meeting and the final package was passed by a unanimous vote. Ms. Dobalian would like to thank each PSW member for the time and care they put into the San Diego IRWM process.

Ms. Amanda Loeper, University of California, San Diego, and Chair of the PSW, presented summaries of the projects selected for funding. A total of six projects were selected, totaling \$15,119,616 in grant funding. All underrepresented community projects were awarded 100% of grant requests.

Project 1: The Acres Water Consolidation Project – Phase 1, Part 2 will be implemented by the Ramona Municipal Water District (Ramona MWD) and will install approximately 2,850 feet of 8-inch water main and appurtenances for 11 service connections to provide safe, reliable drinking water supply to a disadvantaged community, along with six fire hydrant assemblies. The project will result in 36 acre-feet per year (AFY) of water supply reliability and reduce 44 tons per year of salt loading.

Project 2: The Federal Blvd. De-channelization and Trail Construction Project will be implemented by Groundwater San Diego – Chollas Creek. The project will de-channelize and restore over 1,000 linear feet of the Chollas Creek waterway, and construct a recreational trail and climate-resilient mini park with stormwater features. The project will restore the ecosystem and habitat and remove 580 metric tons of carbon dioxide equivalent (MT CO₂e) by planting 298 native trees.

Project 3: Ramona/Barona Tribe Recycled Water Pipeline Project will be implemented by Ramona MWD. The project will construct a new 2,760-foot, 8-inch PVC pipeline from Ramona MWD's existing San Vicente Water Reclamation Plant to an existing non-potable pipeline on the Barona Tribe Reservation, providing critical water resources and diversifying the water supply portfolio. This project will increase water supply reliability by providing up to 250 AFY of recycled water supply and reduced groundwater pumping by up to 250 AFY.

Project 4: North San Diego Water Reuse Coalition – Regional Recycled Water Program will be implemented by Olivenhain Municipal Water District (OMWD). The project will complete the next phase of the Regional Recycled Water Program, which includes expanding the recycled water distribution system, installing pumps and valves, constructing a 1.5-million-gallon steel tank, and increasing treatment capacity. The project will result in 180 AFY of recycled water and improve water supply reliability by 2,353 AFY.

Project 5: Integrated Multi-Benefits Solutions for Climate Resiliency in the San Diego Region will be implemented by the SDCWA. The project will support water use reductions, stormwater management, community engagement and customer education in all sectors by expanding regional conservation programs, and direct installing turf conversions. The project will reduce water demand by 245 AFY and remove 184 MT CO₂e through the offset of imported water.

Project 6: Oceanside Mesa Garrison Force Main River Crossing will be implemented by the City of Oceanside. The project will construct 1,000 linear feet of sewer force main at the San Luis Rey River undercrossing, which is a critical component enabling the transport of wastewater to the Water Reclamation Facility to produce new potable reuse and recycled water. The project will result in 3,267 AFY in new local water supply and reduce ocean outfall discharges by 3,276 AFY.

To conclude, the projects are diverse and met an array of San Diego IRWM purpose and responds to DWR's Proposition 1 IRWM purpose of water reliability and climate resiliency.

Questions/Comments

- I like to thank the PSW members for their hard work and commitment to the San Diego IRWM Program.
- Ramona MWD is thrilled that both the Acres project and the Barona project got selected. Thanks everyone for your review and time on the PSW! Also, thanks to the Grant Team for preparing the application.

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- Huge thanks to the PSW! These are good projects!
- It was a pleasure serving on the PSW again. These are all very important projects for water supply resilience, watershed protection, and climate adaptation in our region.
- Is there a list of all submitted projects and how the projects were scored?
 - We distributed a list of all submitted projects along with the scores at the May 24th Scoring Workshop.

Grant Administration

Ms. Loisa Burton, SDCWA, presented updates on grant administration. The addition of \$5 million from the Urban and Multibenefit Drought Relief Program increased the San Diego IRWM grant funding to \$116.8 million. In total, the San Diego IRWM Region has billed DWR \$85.4 million for ten grant programs, equating to 73% billed. 53 projects are now complete out of the 78 projects funded, which equates to a 68% completion. The total reimbursements received by LPSs to date is \$82 million, accounting for retention. Proposition 84, Round 3 is almost complete (6 out of 7 projects complete). The remaining project under Proposition 84, Round 3 is Project 6: Rincon Customer Driven Demand Management Program (98% complete). Proposition 84, Round 2 is still ongoing. Two projects are complete, and the remaining projects are performing implementation/construction activities. A recent funding agreement amendment with the state has been approved to further extend the current project completion dates and rescope a few project work plans. Most active projects in Proposition 84, Round 4 are extending past their original dates of completion due to permitting, COVID-related impacts, and other projects. This program is still scheduled to end by March 2024. There are only two remaining projects for Proposition 1, Disadvantaged Community Involvement (DACI) Grant Program. Both remaining projects are on schedule to complete before the program ending date of August 2023. Proposition 1, Round 1 is ongoing and two projects are about 80% complete. This program is scheduled to end on March 31, 2026. The Urban and Multibenefit Drought Relief grant funded four implementation projects within underrepresented communities in the San Diego Funding Area. Ongoing and anticipated activities included the final review and execution of a \$5 million funding agreement with DWR in August 2022 and approval of the sub-agreements with the LPSs. Additionally, a program kickoff is being planned by the end of the month and invoicing in September 2022.

Questions/Comments

None.

Public Comments

- We are in the RAC to have discussions and we are not going to have the same perspectives. We are in a critical situation given the State's current drought and conditions of the Colorado River. It deserves more time and discussion.
 - I appreciate your comments and we will take this back to the San Diego RWMG.
 - It's a core issue, let's get it on the agenda!
 - I support your comments. It is a difficult discussion to have, but this discussion will be useful.
 - I appreciate your second set of comments. This is a great forum where environmental and NGO groups and utilities can learn each other's perspectives.

Summary and Next Steps

Ms. Johnson presented a list of upcoming funding opportunities. They have been included in the table below. Additionally, there are additional funds in the Governor’s budget which has been proposed to be distributed via grant programs. The details are still being discussed at the State. There may be another drought round of funding in the fall. Ms. Johnson stated that it may be similar to last year’s drought round.

Project Types	Deadline	Website
CDFW: Environmental Enhancement Fund	Expected in September	https://wildlife.ca.gov/OSPR/Science/Environmental-Enhancement-Fund/About
EPA: Water Infrastructure Finance and Innovation (WIFIA)	LOI due September 6	https://www.epa.gov/wifia
SWRCB: Prop 1 Technical Assistance Funding Program	Open: rolling	https://www.waterboards.ca.gov/water_issues/programs/grants_loans/proposition1/tech_asst_funding.html
DWR: Water Desalination Grant Program	Open: rolling	https://water.ca.gov/News/Public-Notices/2020/Sept-2020/Water-Desal-Grant-CAP

Next RAC Meeting:

- October 5, 2022 – 9:00-11:00 a.m. via virtual platform.

The meeting schedule for 2022 is included below. Please add them to your calendar:

- December 7, 2022

ATTACHMENT 3

MBC STORMWATER DIVERSION PROJECT

METRO JPA/TAC
Staff Report
Date: October 19, 2022

Project Title:

Metropolitan Biosolids Center (MBC) Storm Water Diversion Project

Requested Action:

Approval to award a construction contract to Ahrens Mechanical for the installation of new pumping facility and underground storage to capture and divert stormwater runoff at MBC.

Recommendations:

Metro TAC:	To be submitted for consideration
IROC:	This project is included in the Quarterly Report Update.
Prior Actions: (Committee/Commission, Date, Result)	None

Fiscal Impact:

Is this projected budgeted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Cost breakdown between Metro & Muni:	100% Metro
Fiscal impact to the Metro JPA:	33.5% of \$9,130,062 = \$3,058,570

Capital Improvement Program:

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

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 to award the construction contract.

City Council Action:

Not required

Background:

The City of San Diego Public Utilities Department (PUD) operates the Metropolitan Biosolids Center (MBC), a regional biosolids processing facility located adjacent to the City's Miramar Landfill in Kearny Mesa. In November 2018, as a result of U.S. District Court Southern District of California ruling, the City of San Diego entered into a Consent Decree with San Diego Coastkeeper and Coastal Environmental Rights Foundation for several City-owned facilities, including MBC which is regulated under the Statewide General Permit for Storm Water Discharges Associated with Industrial Activities (Industrial General Permit). This court ordered settlement outlines Best Management Practices (BMPs) obligations to reduce pollutant concentrations and it also provides details for Early Termination of Consent Decree. The MBC Storm Drain Diversion Project will capture industrial stormwater runoff and divert this runoff to the sanitary sewer system to meet requirements of the Industrial General Permit (IGP) and the Consent Decree Early Termination.

This action is to award the construction contract to Ahrens Mechanical, which has been selected through the City's competitive bidding process. The total estimated cost for this project is \$9,130,061.61 which includes \$6,399,933 for construction and \$2,730,128.81 for project contingency, administration as well as construction management and inspection.

Discussion:

At MBC, the existing storm water drainage has two systems discharging to vegetated areas. One system discharges the stormwater to the west and another system discharges to the east. This project proposes to eliminate the west outfall and redirect the flow to the east, to a new stormwater diversion facility. Stormwater that is diverted will be pumped to the centrate pipeline, which will convey the stormwater to the Point Loma Wastewater Treatment Plant (PLWTP) for treatment. The stormwater diversion facility includes the installation of a new pumping facility, underground stormwater storage structure, diversion structure, and force main. The project will be replacing existing storm drains to redirect stormwater to the new pumping facility and underground stormwater storage. The project scope also includes ADA improvements and revegetation.

Bid Results:

The construction contract was initiated through a competitive bidding process. Seven (7) bids were received, see below.

- 1) Ahrens Mechanical: \$6,399,933
- 2) TC Construction Company, Inc.: \$6,715,107
- 3) Palm Engineering Construction Co., Inc.: \$7,099,001
- 4) Orion Construction Corporation: \$8,886,667
- 5) Blue Pacific Engineering & Construction: \$9,064,305
- 6) Caliagua, Inc.: \$9,710,010
- 7) Ortiz Corporation: \$9,956,677

Ahrens Mechanical was determined as the responsive bidder and was selected for this project at a cost of \$6,399.933.

MBC Storm Water Diversion (B-19197)

Project Budget

Actual Costs (8/31/2022)

Planning and Administration	\$ 760,685.20
Consultant (Brown & Caldwell)	<u>\$ 563,689.30</u>
Total Actual Projected Costs	\$ 1,324,374.50

Projected Costs

Construction	\$6,399,932.80
Consultant Support and Closeout	\$ 199,979.67
Construction Administration & Contingency	<u>\$1,230,284.44</u>
Total Projected Costs	\$7,830,196.91

Total Actual and Projected Costs **\$9,130,061.61 (35% Soft Cost)**

Schedule

Construction

NTP for Construction	November 2022
Acceptance	November 2023
Notice of Completion	Summer 2024

Project Closeout

Closeout (Ready To Close)	Spring 2025
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ATTACHMENT 4

NEW METRO BILLING OWNERSHIP VS. USE

AUGUST 2022

UPDATED CONTRACT CAPACITY AND USE BY AGENCY FOR NEW BILLING SYSTEM AND SECOND ARA

EXHIBIT B

EXHIBIT B CONTRACT CAPACITIES

Annual Average Daily Flow in Millions of Gallons Per Day

Metro Agency	Original Contract Capacity	Additional Contract Capacity	New Contract Capacity	Transferred Contract Capacity	Total Contract Capacity	Percent of Total
Chula Vista	19.843	1.021	0.000	0.000	20.864	8.182%
Coronado	3.078	0.172	0.000	0.000	3.250	1.275%
Del Mar	0.821	0.055	0.000	0.000	0.876	0.344%
East Otay Mesa*	0.000	0.000	0.000	1.000	1.000	0.392%
El Cajon	10.260	0.655	0.000	0.000	10.915	4.280%
Imperial Beach	3.591	0.164	0.000	0.000	3.755	1.473%
La Mesa	6.464	0.359	0.000	0.170	6.993	2.742%
Lakeside-Alpine*	4.586	0.255	0.000	0.000	4.841	1.898%
Lemon Grove	2.873	0.154	0.000	0.000	3.027	1.187%
National City	7.141	0.346	0.000	0.000	7.487	2.936%
Otay	1.231	0.056	0.000	0.000	1.287	0.505%
Padre Dam	6.382	0.343	0.000	(0.500)	6.225	2.441%
Poway	5.130	0.264	0.000	0.500	5.894	2.312%
Spring Valley/ Otay Ranch*	10.978	0.545	0.000	(1.170)	10.353	4.060%
Wintergardens*	1.241	0.068	0.000	0.000	1.309	0.513%
Subtotal	83.619	4.459	0.000	0.000	88.078	34.540%
San Diego	156.381	10.541	0.000	0.000	166.922	65.460%
Total	240.000	15.000	0.000	0.000	255.000	100.00%

DEFINITION OF CONTRACT CAPACITY (EXISTING ARA)

Contract Capacity is the contractual right possessed by each Participating Agency to discharge wastewater into the Metro System pursuant to this Agreement up to the limit set forth in Exhibit B attached hereto. Contract Capacity is stated in terms of annual Average Daily Flow.

DEFINITION OF ANNUAL AVERAGE DAILY FLOW (EXISTING ARA)

Annual Average Daily Flow is the number, in millions of gallons of wastewater per day (“MGD”), calculated by dividing total Flow on a fiscal year basis by 365 days.

LIMITATION OF PEAK FLOW (EXISTING ARA)

- 2.6.2** Each Participating Agency will minimize to the maximum extent practicable, the infiltration and inflow of surface, ground or stormwaters into its respective wastewater systems.

EXHIBIT G (EXISTING ARA)

EXHIBIT G
PURE WATER CAPITAL BILLING TABLE

1 Agency	2 Estimated Average Daily Flow (MGD)	3 Net Offload For Padre Dam Project (MGD)	4 Projected Metro Flow 2050 (MGD)		6 COD Applied to 2050 Flows (mg/l)	7 COD Applied to 2050 Flows (lb/day)	8 Percent COD Contributed	9 SS Applied to 2050 Flows (mg/l)	10 SS Applied to 2050 Flows (lb/day)	11 Percent SS Contributed	12 Pure Water Capital Merged Percentage ³
			Flow	%							
Chula Vista	18.33	0	18.33	11.601%	701.947	107377.684	11.889%	250.011	38244.530	11.701%	11.699%
Coronado	1.9	0	1.9	1.202%	587.457	9314.884	1.031%	241.493	3829.176	1.172%	1.152%
Del Mar	0.031	0	0.031	0.020%	542.195	140.270	0.016%	305.112	78.935	0.024%	0.020%
East Otay Mesa (County) ¹	1.788	0	1.788	1.132%	621.049	9267.041	1.026%	240.016	3581.421	1.096%	1.096%
El Cajon	7.8	7.0	0.805	0.510%	650.914	4373.460	0.484%	236.265	1587.450	0.486%	0.497%
Imperial Beach	2.473	0	2.473	1.565%	540.757	11160.249	1.236%	205.193	4234.820	1.296%	1.411%
La Mesa	5.03	0	5.03	3.183%	523.099	21958.348	2.431%	197.537	8292.107	2.537%	2.823%
Lakeside/Alpine (County) ¹	4.619	4.4	0.260	0.165%	638.686	1387.995	0.154%	197.667	429.570	0.131%	0.153%
Lemon Grove	2.4	0	2.4	1.519%	593.836	11893.920	1.317%	203.567	4077.236	1.247%	1.395%
National City	4.65	0	4.65	2.943%	685.192	26589.642	2.944%	219.881	8532.740	2.611%	2.852%
Otay Water District	0.38	0	0.38	0.240%	1442.632	4574.952	0.507%	818.053	2594.253	0.794%	0.457%
Padre Dam	2.486	1.8	0.696	0.441%	696.892	4049.236	0.448%	251.288	1460.088	0.447%	0.444%
Poway	3.101	0	3.101	1.963%	563.551	14584.185	1.615%	243.460	6300.522	1.928%	1.869%
Spring Valley (County) ²	6.231	0	6.231	3.944%	597.292	31059.332	3.439%	235.079	12224.151	3.740%	3.765%
Wintergardens (County) ¹	0.979	0.9	0.074	0.047%	633.136	392.817	0.043%	208.768	129.526	0.040%	0.044%
San Diego	109.855	0	109.855	69.526%	703.556	645009.168	71.419%	252.229	231239.253	70.751%	70.323%
Total	172.053	14.048	158.005	100%	10722.190	903133.183	100%	4305.618	326835.778	100%	100%

¹ Subareas of the San Diego County Sanitation District

² Includes Otay Ranch (0.87 mgd) and Spring Valley (5.361 mgd). Flow from Otay Ranch that would flow to Metro through Chula Vista pipelines.

³ These fractions used to calculate the merged percentage: (Based on 5 year average and not subject to change except by agreement of the parties.)

FLOW	SS	COD
0.482	0.275	0.243

FY19 AUDIT

TABLE C

CITY OF SAN DIEGO - PUBLIC UTILITIES DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2019
SYSTEM STRENGTH LOADINGS INCLUDED

AGENCY	WASTEWATER CHARACTERISTICS			UNADJUSTED ANNUAL USE			ADJUSTED ANNUAL USE				
	AVERAGE FLOW - mgd (a)	SS mg/l (b)	COD mg/l (b)	2019 FLOWS million gallons	SS thousand pounds	COD thousand pounds	2019 FLOWS million gallons	Flow Difference (c)	FY 2019 Billing Flows	SS thousand pounds	COD thousand pounds
CHULA VISTA	16.324	311	767	5,958.400	15,480	38,148	6,377.591	(189.058)	6,188.533	21,049	36,622
CORONADO	1.284	284	643	468.698	1,111	2,513	501.672	(14.872)	486.801	1,511	2,413
DEL MAR	0.046	297	488	16.663	41	68	17.835	(0.529)	17.306	56	65
EAST OTAY MESA	0.263	277	683	96.149	222	548	102.913	(3.051)	99.862	302	526
EL CAJON	6.865	405	813	2,505.574	8,459	16,993	2,681.848	(79.501)	2,602.347	11,503	16,313
IMPERIAL BEACH	2.180	214	569	795.626	1,419	3,778	851.601	(25.245)	826.356	1,929	3,627
LA MESA	4.704	228	667	1,716.832	3,270	9,559	1,837.617	(54.475)	1,783.142	4,446	9,177
LAKESIDE/ALPINE	3.134	286	709	1,144.067	2,735	6,767	1,224.556	(36.301)	1,188.255	3,718	6,497
LEMON GROVE	1.735	246	669	633.344	1,302	3,536	677.902	(20.096)	657.806	1,771	3,395
NATIONAL CITY	3.910	254	721	1,427.182	3,020	8,588	1,527.589	(45.284)	1,482.304	4,106	8,245
OTAY	0.400	669	804	146.161	816	981	156.444	(4.638)	151.806	1,110	942
PADRE DAM	2.084	889	1,486	760.788	5,645	9,433	814.312	(24.140)	790.172	7,676	9,056
POWAY	2.409	259	599	879.414	1,904	4,395	941.284	(27.904)	913.380	2,589	4,219
SPRING VALLEY	4.216	272	675	1,538.935	3,490	8,673	1,647.204	(48.830)	1,598.374	4,745	8,326
WINTERGARDENS	0.963	324	676	351.441	951	1,983	378.166	(11.151)	365.015	1,293	1,904
SUBTOTAL PARTICIPATING AGENCIES	50.519	324	754	18,439.276	49,866	115,964	19,736.533	(585.073)	19,151.460	67,805	111,327
SAN DIEGO	110.379	271	746	40,288.277	91,075	250,810	43,122.675	(1,278.336)	41,844.340	123,840	240,779
REGIONAL SLUDGE RETURNS	11.320	285	173	4,131.656	9,822	5,951					
FLOW DIFFERENCE	(5.105)			(1,863.409)	40,882	(20,620)					
TOTAL	167.112	377	692	60,995.800	191,644	352,105	62,859.209	(1,863.409)	60,995.800	191,644	352,105

PROPOSED EXHIBIT B

FULL CONTRACT CAPACITY AND USE TABLE

DISTRIBUTION OF WASTEWATER SYSTEM CONTRACT CAPACITY AND USE ADDITIONAL DETAIL																					
AGENCY	CONTRACT CAPACITY										USE										
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.		
Chula Vista	18.33	10.6%	35.72	9.7%	54.05	10.0%	0	0.0%	22,082	12.0%	38,419	11.0%	17.47	10.9%	0	0.0%	21,049	12.3%	36,622	11.3%	
Coronado	1.90	1.1%	3.70	1.0%	5.60	1.0%	0	0.0%	2,089	1.1%	3,336	1.0%	1.37	0.9%	0	0.0%	1,511	0.9%	2,413	0.7%	
Del Mar	0.05	0.0%	0.10	0.0%	0.15	0.0%	0	0.0%	59	0.0%	68	0.0%	0.05	0.0%	0	0.0%	56	0.0%	65	0.0%	
East Otay Mesa	1.79	1.0%	3.48	1.0%	5.27	1.0%	0	0.0%	1,915	1.0%	3,336	1.0%	0.28	0.2%	0	0.0%	302	0.2%	526	0.2%	
El Cajon	1.29	0.7%	15.39	4.2%	16.68	3.1%	0.6	3.8%	2,196	1.2%	3,052	0.9%	0.84	0.5%	0.27	4.0%	1,488	0.9%	2,047	0.6%	
Imperial Beach	2.47	1.4%	4.82	1.3%	7.29	1.4%	0	0.0%	2,045	1.1%	3,844	1.1%	2.33	1.5%	0	0.0%	1,929	1.1%	3,627	1.1%	
La Mesa	5.29	3.1%	10.30	2.8%	15.59	2.9%	0	0.0%	4,668	2.5%	9,636	2.8%	5.03	3.1%	0	0.0%	4,446	2.6%	9,177	2.8%	
Lakeside/Alpine	0.09	0.1%	11.67	3.2%	11.76	2.2%	0.6	3.8%	288.58	0.2%	354.52	0.1%	0.08	0.1%	0.27	4.0%	284	0.2%	346	0.1%	
Lemon Grove	2.40	1.4%	4.68	1.3%	7.08	1.3%	0	0.0%	2,289	1.2%	4,387	1.3%	1.86	1.2%	0	0.0%	1,771	1.0%	3,395	1.1%	
National City	4.65	2.7%	9.06	2.5%	13.71	2.5%	0	0.0%	4,562	2.5%	9,161	2.6%	4.19	2.6%	0	0.0%	4,106	2.4%	8,245	2.6%	
Otay	0.45	0.3%	0.88	0.2%	1.33	0.2%	0	0.0%	1,166	0.6%	989	0.3%	0.43	0.3%	0	0.0%	1,110	0.7%	942	0.3%	
Padre Dam	0.04	0.0%	4.92	1.3%	4.96	0.9%	0.3	1.9%	125.74	0.1%	153.15	0.0%	0.04	0.0%	0.14	2.1%	119.62	0.1%	145.93	0.0%	
Poway	3.10	1.8%	6.04	1.6%	9.14	1.7%	0	0.0%	3,113	1.7%	5,073	1.5%	2.58	1.6%	0	0.0%	2,589	1.5%	4,219	1.3%	
Spring Valley	6.23	3.6%	12.14	3.3%	18.37	3.4%	0	0.0%	6,551	3.6%	11,496	3.3%	4.51	2.8%	0	0.0%	4,745	2.8%	8,326	2.6%	
Wintergardens	1.08	0.6%	2.11	0.6%	3.19	0.6%	0	0.0%	1,358	0.7%	1,999	0.6%	1.03	0.6%	0	0.0%	1,293	0.8%	1,904	0.6%	
SUBTOTAL	49.2	28.4%	125	34.1%	174	32.3%	1.5	9.5%	54,506	29.5%	95,303	27.4%	42.1	26.3%	0.7	10.2%	46,798	27.4%	82,000	25.4%	
San Diego																					
Wastewater	124.05	71.6%	241.76	65.9%	365.82	67.7%	0	0.0%	130,032	70.5%	252,818	72.6%	118.14	73.7%	0	0.0%	123,840	72.6%	240,779	74.6%	
Water	0.00	0.0%	0.00	0.0%	0.00	0.0%	14.3	90.5%	0	0.0%	0	0.0%	0.00	0.0%	6	89.8%	0	0.0%	0	0.0%	
SUBTOTAL	124.1	71.6%	242	65.9%	366	67.7%	14.3	90.5%	130,032	70.5%	252,818	72.6%	118.1	73.7%	6.0	89.8%	123,840	72.6%	240,779	74.6%	
	173.2	100.0%	367	100.0%	540	100.0%	15.8	100.0%	184,538	100.0%	348,121	100.0%	160.2	100.0%	6.7	100.0%	170,638	100.0%	322,779	100.0%	

Exhibit G Flow
2019 Audit Plus 5%
East County Derived Numbers

Based on Peak Hour Flow
Brine Use Projections 2050 (Does not match Residuals Agreement)

Average Flow + Incremental Peak Flow
Derived numbers from flow column and 2019 audit data for strength

Directly from 2019 Audit
East County Derived Projections 2050

Brine Use Projections 2026

CHULA VISTA EXAMPLE

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Chula Vista	18.33	10.6%	35.72	9.7%	54.05	10.0%	0	0.0%	22,082	12.0%	38,419	11.0%	17.47	10.9%	0	0.0%	21,049	12.3%	36,622	11.3%

5. Average Flow = Exhibit G = 18.33 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (18.33 MGD * ~2.95) - 18.33 MGD
 = 35.72 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 18.33 MGD + 35.72 MGD
 = 54.05 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (18.33 MGD/17.47 MGD) * 21,049 1,000 lbs.
 = 22,082 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 6,378 MG/365 days
 = 17.47 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 21,049 1,000 lbs

4. COD = 2019 Audit Strength = 36,622 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (18.33 MGD/17.47 MGD) * 36,622 1,000 lbs.
 = 38,419 1,000 lbs

EL CAJON EXAMPLE

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
El Cajon	1.29	0.7%	15.39	4.2%	16.68	3.1%	0.6	3.8%	2,196	1.2%	3,052	0.9%	0.84	0.5%	0.27	4.0%	1,488	0.9%	2,047	0.6%

$$5. \text{ Average Flow} = \text{Exhibit G} - \text{Diversion} + \text{Centrate Flow} \\ = 7.8 \text{ MGD} - 6.6 \text{ MGD} + 0.094 \text{ MGD} = 1.29 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Exhibit G} * \text{Peak Hour Demand Factor}) - \text{Diversion} - \text{Average Flow} \\ = (7.8 \text{ MGD} * \sim 2.95) - 6.6 \text{ MGD} - 1.29 \text{ MGD} = 15.39 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow} \\ = 1.29 \text{ MGD} + 15.39 \text{ MGD} = 16.68 \text{ MGD}$$

$$8. \text{ Brine} = 0.6 \text{ MGD}$$

$$9. \text{ TSS} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Average Flow}/2019 \text{ Audit Flow}) \\ + \text{Centrate Strength} * \text{Centrate flow} \\ = 11,503 \text{ 1,000 lbs} * (1.2 \text{ MGD}/7.348 \text{ MGD}) + 1,104.35 \text{ mg/L} * 0.094 \text{ MGD} \\ = 1,879 \text{ 1,000 lbs} + 318 \text{ 1,000 lbs} = 2,196 \text{ 1,000 lbs}$$

$$10. \text{ COD} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Average Flow}/2019 \text{ Audit Flow}) \\ + \text{Centrate Strength} * \text{Centrate flow} \\ = 16,313 \text{ 1,000 lbs} * (1.2 \text{ MGD}/7.348 \text{ MGD}) + 1,347.25 \text{ mg/L} * 0.094 \text{ MGD} \\ = 2,664 \text{ 1,000 lbs} + 387 \text{ 1,000 lbs} = 3,052 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = (2019 \text{ Audit Flow}/365 \text{ days} - \text{Diversion}) + \text{Centrate Flow} * \text{Percentage of Total Diversion} \\ = 2,681.8 \text{ MG}/365 \text{ days} - 6.6 \text{ MGD} + 0.215 \text{ MGD} * (6.6 \text{ MGD}/15 \text{ MGD}) \\ = 7.348 \text{ MGD} - 6.6 \text{ MGD} + 0.215 \text{ MGD} * 44\% \\ = 0.748 \text{ MGD} + 0.094 \text{ MGD} = 0.84 \text{ MGD}$$

$$2. \text{ Brine} = 0.27 \text{ MGD}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Metered Flow}/2019 \text{ Audit Flow}) + \text{Centrate Strength} * \text{Centrate flow} \\ = 11,503 \text{ 1,000 lbs} * (0.748 \text{ MGD}/7.348 \text{ MGD}) + 1,104.35 \text{ mg/L} * 0.094 \text{ MGD} \\ = 1,170 \text{ 1,000 lbs} + 318 \text{ 1,000 lbs} = 1,488 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Metered Flow}/2019 \text{ Audit Flow}) + \text{Centrate Strength} * \text{Centrate flow} \\ = 16,313 \text{ 1,000 lbs} * (0.748 \text{ MGD}/7.348 \text{ MGD}) + 1,347.25 \text{ mg/L} * 0.094 \text{ MGD} \\ = 1,680 \text{ 1,000 lbs} + 387 \text{ 1,000 lbs} = 2,047 \text{ 1,000 lbs}$$

ATTACHMENT 5

AGENCY CALACULATIONS OF NEW EXHIBIT B CAPACITY

OCTOBER 2022

EXAMPLE NEW BILLING SYSTEM CONTRACT CAPACITY CALCULATIONS BY AGENCY

PROPOSED EXHIBIT B

FULL CONTRACT CAPACITY AND USE TABLE

DISTRIBUTION OF WASTEWATER SYSTEM CONTRACT CAPACITY AND USE ADDITIONAL DETAIL																				
AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Chula Vista	18.33	10.6%	35.72	9.7%	54.05	10.0%	0	0.0%	22,082	12.0%	38,419	11.0%	17.47	10.9%	0	0.0%	21,049	12.3%	36,622	11.3%
Coronado	1.90	1.1%	3.70	1.0%	5.60	1.0%	0	0.0%	2,089	1.1%	3,336	1.0%	1.37	0.9%	0	0.0%	1,511	0.9%	2,413	0.7%
Del Mar	0.05	0.0%	0.10	0.0%	0.15	0.0%	0	0.0%	59	0.0%	68	0.0%	0.05	0.0%	0	0.0%	56	0.0%	65	0.0%
East Otay Mesa	1.79	1.0%	3.48	1.0%	5.27	1.0%	0	0.0%	1,915	1.0%	3,336	1.0%	0.28	0.2%	0	0.0%	302	0.2%	526	0.2%
El Cajon	1.29	0.7%	15.39	4.2%	16.68	3.1%	0.6	3.8%	2,196	1.2%	3,052	0.9%	0.84	0.5%	0.27	4.0%	1,488	0.9%	2,047	0.6%
Imperial Beach	2.47	1.4%	4.82	1.3%	7.29	1.4%	0	0.0%	2,045	1.1%	3,844	1.1%	2.33	1.5%	0	0.0%	1,929	1.1%	3,627	1.1%
La Mesa	5.29	3.1%	10.30	2.8%	15.59	2.9%	0	0.0%	4,668	2.5%	9,636	2.8%	5.03	3.1%	0	0.0%	4,446	2.6%	9,177	2.8%
Lakeside/Alpine	0.09	0.1%	11.67	3.2%	11.76	2.2%	0.6	3.8%	288.58	0.2%	354.52	0.1%	0.08	0.1%	0.27	4.0%	284	0.2%	346	0.1%
Lemon Grove	2.40	1.4%	4.68	1.3%	7.08	1.3%	0	0.0%	2,289	1.2%	4,387	1.3%	1.86	1.2%	0	0.0%	1,771	1.0%	3,395	1.1%
National City	4.65	2.7%	9.06	2.5%	13.71	2.5%	0	0.0%	4,562	2.5%	9,161	2.6%	4.19	2.6%	0	0.0%	4,106	2.4%	8,245	2.6%
Otay	0.45	0.3%	0.88	0.2%	1.33	0.2%	0	0.0%	1,166	0.6%	989	0.3%	0.43	0.3%	0	0.0%	1,110	0.7%	942	0.3%
Padre Dam	0.04	0.0%	4.92	1.3%	4.96	0.9%	0.3	1.9%	125.74	0.1%	153.15	0.0%	0.04	0.0%	0.14	2.1%	119.62	0.1%	145.93	0.0%
Poway	3.10	1.8%	6.04	1.6%	9.14	1.7%	0	0.0%	3,113	1.7%	5,073	1.5%	2.58	1.6%	0	0.0%	2,589	1.5%	4,219	1.3%
Spring Valley	6.23	3.6%	12.14	3.3%	18.37	3.4%	0	0.0%	6,551	3.6%	11,496	3.3%	4.51	2.8%	0	0.0%	4,745	2.8%	8,326	2.6%
Wintergardens	1.08	0.6%	2.11	0.6%	3.19	0.6%	0	0.0%	1,358	0.7%	1,999	0.6%	1.03	0.6%	0	0.0%	1,293	0.8%	1,904	0.6%
SUBTOTAL	49.2	28.4%	125	34.1%	174	32.3%	1.5	9.5%	54,506	29.5%	95,303	27.4%	42.1	26.3%	0.7	10.2%	46,798	27.4%	82,000	25.4%
San Diego																				
Wastewater	124.05	71.6%	241.76	65.9%	365.82	67.7%	0	0.0%	130,032	70.5%	252,818	72.6%	118.14	73.7%	0	0.0%	123,840	72.6%	240,779	74.6%
Water	0.00	0.0%	0.00	0.0%	0.00	0.0%	14.3	90.5%	0	0.0%	0	0.0%	0.00	0.0%	6	89.8%	0	0.0%	0	0.0%
SUBTOTAL	124.1	71.6%	242	65.9%	366	67.7%	14.3	90.5%	130,032	70.5%	252,818	72.6%	118.1	73.7%	6.0	89.8%	123,840	72.6%	240,779	74.6%
	173.2	100.0%	367	100.0%	540	100.0%	15.8	100.0%	184,538	100.0%	348,121	100.0%	160.2	100.0%	6.7	100.0%	170,638	100.0%	322,779	100.0%

Exhibit G Flow
2019 Audit Plus 5%
East County Derived Numbers

Based on Peak Hour Flow
Brine Use Projections 2050 (Does not match Residuals Agreement)

Average Flow + Incremental Peak Flow
Derived numbers from flow column and 2019 audit data for strength

Directly from 2019 Audit
East County Derived Projections 2050

Brine Use Projections 2026

CHULA VISTA

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Chula Vista	18.33	10.6%	35.72	9.7%	54.05	10.0%	0	0.0%	22,082	12.0%	38,419	11.0%	17.47	10.9%	0	0.0%	21,049	12.3%	36,622	11.3%

5. Average Flow = Exhibit G = 18.33 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (18.33 MGD * ~2.95) - 18.33 MGD
 = 35.72 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 18.33 MGD + 35.72 MGD
 = 54.05 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (18.33 MGD/17.47 MGD) * 21,049 1,000 lbs.
 = 22,082 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 6,378 MG/365 days
 = 17.47 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 21,049 1,000 lbs

4. COD = 2019 Audit Strength = 36,622 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (18.33 MGD/17.47 MGD) * 36,622 1,000 lbs.
 = 38,419 1,000 lbs

CORONADO

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Coronado	1.90	1.1%	3.70	1.0%	5.60	1.0%	0	0.0%	2,089	1.1%	3,336	1.0%	1.37	0.9%	0	0.0%	1,511	0.9%	2,413	0.7%

5. Average Flow = Exhibit G = 1.9 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (1.9 MGD * ~2.95) - 1.9 MGD
 = 3.70 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 1.9 MGD + 3.7 MGD
 = 5.6 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (1.9 MGD/1.37 MGD) * 1,511 1,000 lbs.
 = 2,089 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 502 MG/365 days
 = 1.37 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 1,511 1,000 lbs

4. COD = 2019 Audit Strength = 2,413 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (1.9 MGD/1.37 MGD) * 2,413 1,000 lbs.
 = 3,336 1,000 lbs

DEL MAR

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Del Mar	0.05	0.0%	0.10	0.0%	0.15	0.0%	0	0.0%	59	0.0%	68	0.0%	0.05	0.0%	0	0.0%	56	0.0%	65	0.0%

$$5. \text{ Average Flow} = 2019 \text{ Audit Flow} + 5\% = 0.05 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Average Flow} * \text{Peak Hour Demand Factor}) - \text{Average Flow}$$

$$= (0.05 \text{ MGD} * \sim 2.95) - 0.051 \text{ MGD}$$

$$= 0.1 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow}$$

$$= 0.051 \text{ MGD} + 0.1 \text{ MGD}$$

$$= 0.15 \text{ MGD}$$

$$8. \text{ Brine} = 0 \text{ MGD}$$

$$9. \text{ TSS} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use TSS}$$

$$= (0.01 \text{ MGD} / 0.05 \text{ MGD}) * 56 \text{ 1,000 lbs.}$$

$$= 59 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = 2019 \text{ Audit Flow} / 365 \text{ days}$$

$$= 18 \text{ MG} / 365 \text{ days}$$

$$= 0.05 \text{ MGD}$$

$$2. \text{ Brine} = 0 \text{ MGD}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} = 56 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} = 65 \text{ 1,000 lbs}$$

$$10. \text{ COD} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use COD}$$

$$= (0.05 \text{ MGD} / 0.05 \text{ MGD}) * 65 \text{ 1,000 lbs.}$$

$$= 68 \text{ 1,000 lbs}$$

EAST OTAY MESA

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
East Otay Mesa	1.79	1.0%	3.48	1.0%	5.27	1.0%	0	0.0%	1,915	1.0%	3,336	1.0%	0.28	0.2%	0	0.0%	302	0.2%	526	0.2%

5. Average Flow = Exhibit G = 1.79 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (1.79 MGD * ~2.95) - 1.79 MGD
 = 3.48 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 1.79 MGD + 3.48 MGD
 = 5.27 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (1.79 MGD/0.28 MGD) * 302 1,000 lbs.
 = 1,915 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 103 MG/365 days
 = 0.28 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 302 1,000 lbs

4. COD = 2019 Audit Strength = 526 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (1.79 MGD/0.28 MGD) * 526 1,000 lbs.
 = 3,336 1,000 lbs

EL CAJON

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
El Cajon	1.29	0.7%	15.39	4.2%	16.68	3.1%	0.6	3.8%	2,196	1.2%	3,052	0.9%	0.84	0.5%	0.27	4.0%	1,488	0.9%	2,047	0.6%

$$5. \text{ Average Flow} = \text{Exhibit G} - \text{Diversion} + \text{Centrate Flow} \\ = 7.8 \text{ MGD} - 6.6 \text{ MGD} + 0.094 \text{ MGD} = 1.29 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Exhibit G} * \text{Peak Hour Demand Factor}) - \text{Diversion} - \text{Average Flow} \\ = (7.8 \text{ MGD} * \sim 2.95) - 6.6 \text{ MGD} - 1.29 \text{ MGD} = 15.39 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow} \\ = 1.29 \text{ MGD} + 15.39 \text{ MGD} = 16.68 \text{ MGD}$$

$$8. \text{ Brine} = 0.6 \text{ MGD}$$

$$9. \text{ TSS} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Average Flow}/2019 \text{ Audit Flow}) \\ + \text{Centrate Strength} * \text{Centrate flow} \\ = 11,503 \text{ 1,000 lbs} * (1.2 \text{ MGD}/7.348 \text{ MGD}) + 1,104.35 \text{ mg/L} * 0.094 \text{ MGD} \\ = 1,879 \text{ 1,000 lbs} + 318 \text{ 1,000 lbs} = 2,196 \text{ 1,000 lbs}$$

$$10. \text{ COD} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Average Flow}/2019 \text{ Audit Flow}) \\ + \text{Centrate Strength} * \text{Centrate flow} \\ = 16,313 \text{ 1,000 lbs} * (1.2 \text{ MGD}/7.348 \text{ MGD}) + 1,347.25 \text{ mg/L} * 0.094 \text{ MGD} \\ = 2,664 \text{ 1,000 lbs} + 387 \text{ 1,000 lbs} = 3,052 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = (2019 \text{ Audit Flow}/365 \text{ days} - \text{Diversion}) + \text{Centrate Flow} * \text{Percentage of Total Diversion} \\ = 2,681.8 \text{ MG}/365 \text{ days} - 6.6 \text{ MGD} + 0.215 \text{ MGD} * (6.6 \text{ MGD}/15 \text{ MGD}) \\ = 7.348 \text{ MGD} - 6.6 \text{ MGD} + 0.215 \text{ MGD} * 44\% \\ = 0.748 \text{ MGD} + 0.094 \text{ MGD} = 0.84 \text{ MGD}$$

$$2. \text{ Brine} = 0.27 \text{ MGD}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Metered Flow}/2019 \text{ Audit Flow}) + \text{Centrate Strength} * \text{Centrate flow} \\ = 11,503 \text{ 1,000 lbs} * (0.748 \text{ MGD}/7.348 \text{ MGD}) + 1,104.35 \text{ mg/L} * 0.094 \text{ MGD} \\ = 1,170 \text{ 1,000 lbs} + 318 \text{ 1,000 lbs} = 1,488 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Metered Flow}/2019 \text{ Audit Flow}) + \text{Centrate Strength} * \text{Centrate flow} \\ = 16,313 \text{ 1,000 lbs} * (0.748 \text{ MGD}/7.348 \text{ MGD}) + 1,347.25 \text{ mg/L} * 0.094 \text{ MGD} \\ = 1,680 \text{ 1,000 lbs} + 387 \text{ 1,000 lbs} = 2,047 \text{ 1,000 lbs}$$

IMPERIAL BEACH

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Imperial Beach	2.47	1.4%	4.82	1.3%	7.29	1.4%	0	0.0%	2,045	1.1%	3,844	1.1%	2.33	1.5%	0	0.0%	1,929	1.1%	3,627	1.1%

5. Average Flow = Exhibit G = 2.47 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (2.47 MGD * ~2.95) - 2.47 MGD
 = 4.82 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 2.47 MGD + 4.82 MGD
 = 7.29 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (2.47 MGD/2.33 MGD) * 1,929 1,000 lbs.
 = 2,045 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 852 MG/365 days
 = 2.33 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 1,929 1,000 lbs

4. COD = 2019 Audit Strength = 3,627 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (2.47 MGD/2.33 MGD) * 3,627 1,000 lbs.
 = 3,844 1,000 lbs

LA MESA

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
La Mesa	5.29	3.1%	10.30	2.8%	15.59	2.9%	0	0.0%	4,668	2.5%	9,636	2.8%	5.03	3.1%	0	0.0%	4,446	2.6%	9,177	2.8%

$$5. \text{ Average Flow} = 2019 \text{ Audit Flow} + 5\% = 5.29 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Average Flow} * \text{Peak Hour Demand Factor}) - \text{Average Flow}$$

$$= (5.29 \text{ MGD} * \sim 2.95) - 5.29 \text{ MGD}$$

$$= 10.3 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow}$$

$$= 5.29 \text{ MGD} + 10.3 \text{ MGD}$$

$$= 15.59 \text{ MGD}$$

$$8. \text{ Brine} = 0 \text{ MGD}$$

$$9. \text{ TSS} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use TSS}$$

$$= (5.29 \text{ MGD} / 5.03 \text{ MGD}) * 4,446 \text{ 1,000 lbs.}$$

$$= 4,668 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = 2019 \text{ Audit Flow} / 365 \text{ days}$$

$$= 1,838 \text{ MG} / 365 \text{ days}$$

$$= 5.03 \text{ MGD}$$

$$2. \text{ Brine} = 0 \text{ MGD}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} = 4,446 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} = 9,177 \text{ 1,000 lbs}$$

$$10. \text{ COD} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use COD}$$

$$= (5.29 \text{ MGD} / 5.03 \text{ MGD}) * 9,177 \text{ 1,000 lbs.}$$

$$= 9,636 \text{ 1,000 lbs}$$

LAKESIDE/ALPINE

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.	COD, 1,000 lbs.	Metered Flow, MGD	Brine, MGD	TSS, 1,000 lbs.	COD, 1,000 lbs.						
Lakeside/Alpine	0.09	0.1%	11.67	3.2%	11.76	2.2%	0.6	3.8%	288.58	0.2%	354.52	0.1%	0.08	0.1%	0.27	4.0%	284	0.2%	346	0.1%

5. Average Flow = Exhibit G – Diversion + Centrate Flow
 = (0.08 + 5% - 0.084) + 0.084 MGD = 0.09 MGD

6. Incremental Peak Flow = (Exhibit G * Peak Hour Demand Factor) – Diversion – Average Flow
 = ((0.09 MGD + 5.9) * ~2.95) – 5.9 MGD – 0.09 MGD = 11.67 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 0.09 MGD + 11.67 MGD = 11.76 MGD

8. Brine = 0.6 MGD

9. TSS = 2019 Audit Strength * (Non-Centrated Average Flow/2019 Audit Flow)
 + Centrate Strength * Centrate flow
 = 3,718 1,000 lbs * (0.004 MGD/3.355 MGD) + 1,104.35 mg/L * 0.084 MGD
 = 4.7 1,000 lbs + 284 1,000 lbs = 289 1,000 lbs

10. COD = 2019 Audit Strength * (Non-Centrated Average Flow/2019 Audit Flow)
 + Centrate Strength * Centrate flow
 = 6,497 1,000 lbs * (0.004 MGD/3.355 MGD) + 1,347.25 mg/L * 0.084 MGD
 = 8.2 1,000 lbs + 346 1,000 lbs = 355 1,000 lbs

1. Metered Flow = (2019 Audit Flow/365 days – Diversion) + Centrate Flow * Percentage of Total Diversion
 = 1,225 MG/365 days – 5.9 MGD + 0.215 MGD * (5.9 MGD/15 MGD)
 = 3.355 MGD – 5.9 MGD + 0.215 MGD * 39.4%
 = 0 MGD + 0.084 MGD = 0.08 MGD

2. Brine = 0.27 MGD

3. TSS = 2019 Audit Strength * (Non-Centrated Metered Flow/2019 Audit Flow) + Centrate Strength * Centrate flow
 = 3,718 1,000 lbs * (0 MGD/3.355 MGD) + 1,104.35 mg/L * 0.084 MGD
 = 0 1,000 lbs + 284 1,000 lbs = 284 1,000 lbs

4. COD = 2019 Audit Strength * (Non-Centrated Metered Flow/2019 Audit Flow) + Centrate Strength * Centrate flow
 = 6,497 1,000 lbs * (0 MGD/3.355 MGD) + 1,347.25 mg/L * 0.084 MGD
 = 0 1,000 lbs + 346 1,000 lbs = 346 1,000 lbs

LEMON GROVE

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Lemon Grove	2.40	1.4%	4.68	1.3%	7.08	1.3%	0	0.0%	2,289	1.2%	4,387	1.3%	1.86	1.2%	0	0.0%	1,771	1.0%	3,395	1.1%

5. Average Flow = Exhibit G = 2.40 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (2.47 MGD * ~2.95) - 2.47 MGD
 = 4.68 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 2.40 MGD + 4.68 MGD
 = 7.08 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (2.40 MGD/1.86 MGD) * 1,929 1,000 lbs.
 = 2,289 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 678 MG/365 days
 = 1.86 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 1,771 1,000 lbs

4. COD = 2019 Audit Strength = 3,395 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (2.40 MGD/1.86 MGD) * 3,395 1,000 lbs.
 = 4,387 1,000 lbs

NATIONAL CITY

AGENCY	CONTRACT CAPACITY											USE								
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
National City	4.65	2.7%	9.06	2.5%	13.71	2.5%	0	0.0%	4,562	2.5%	9,161	2.6%	4.19	2.6%	0	0.0%	4,106	2.4%	8,245	2.6%

5. Average Flow = Exhibit G = 4.65 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (4.65 MGD * ~2.95) - 4.65 MGD
 = 9.06 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 4.65 MGD + 9.06 MGD
 = 13.71 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (4.65 MGD/4.19 MGD) * 4,106 1,000 lbs.
 = 4,562 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 1,528 MG/365 days
 = 4.19 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 4,106 1,000 lbs

4. COD = 2019 Audit Strength = 8,245 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (4.65 MGD/4.19 MGD) * 8,245 1,000 lbs.
 = 9,161 1,000 lbs

OTAY

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Otay	0.45	0.3%	0.88	0.2%	1.33	0.2%	0	0.0%	1,166	0.6%	989	0.3%	0.43	0.3%	0	0.0%	1,110	0.7%	942	0.3%

$$5. \text{ Average Flow} = 2019 \text{ Audit Flow} + 5\% = 0.45 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Average Flow} * \text{Peak Hour Demand Factor}) - \text{Average Flow} \\ = (0.45 \text{ MGD} * \sim 2.95) - 0.45 \text{ MGD} \\ = 0.88 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow} \\ = 0.45 \text{ MGD} + 0.88 \text{ MGD} \\ = 1.33 \text{ MGD}$$

$$8. \text{ Brine} = 0 \text{ MGD}$$

$$9. \text{ TSS} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use TSS} \\ = (0.45 \text{ MGD} / 0.43 \text{ MGD}) * 1,110 \text{ 1,000 lbs.} \\ = 1,166 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = 2019 \text{ Audit Flow} / 365 \text{ days} \\ = 156 \text{ MG} / 365 \text{ days} \\ = 0.43 \text{ MGD}$$

$$2. \text{ Brine} = 0 \text{ MGD}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} = 1,110 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} = 942 \text{ 1,000 lbs}$$

$$10. \text{ COD} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use COD} \\ = (0.45 \text{ MGD} / 0.43 \text{ MGD}) * 942 \text{ 1,000 lbs.} \\ = 989 \text{ 1,000 lbs}$$

PADRE DAM

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.	COD, 1,000 lbs.	Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.	COD, 1,000 lbs.				
Padre Dam	0.04	0.0%	4.92	1.3%	4.96	0.9%	0.3	1.9%	125.74	0.1%	153.15	0.0%	0.04	0.0%	0.14	2.1%	119.62	0.1%	145.93	0.0%

$$5. \text{ Average Flow} = \text{Exhibit G} - \text{Diversion} + \text{Centrate Flow} \\ = (0.04 + 5\% - 0.036) + 0.036 \text{ MGD} = 0.04 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Exhibit G} * \text{Peak Hour Demand Factor}) - \text{Diversion} - \text{Average Flow} \\ = ((0.04 \text{ MGD} + 2.486) * \sim 2.95) - 2.486 \text{ MGD} - 0.04 \text{ MGD} = 4.92 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow} \\ = 0.04 \text{ MGD} + 4.92 \text{ MGD} = 4.96 \text{ MGD}$$

$$8. \text{ Brine} = 0.3 \text{ MGD}$$

$$9. \text{ TSS} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Average Flow}/2019 \text{ Audit Flow}) \\ + \text{Centrate Strength} * \text{Centrate flow} \\ = 7,676 \text{ 1,000 lbs} * (0.002 \text{ MGD}/2.231 \text{ MGD}) + 1,104.35 \text{ mg/L} * 0.036 \text{ MGD} \\ = 6.1 \text{ 1,000 lbs} + 119.62 \text{ 1,000 lbs} = 125.74 \text{ 1,000 lbs}$$

$$10. \text{ COD} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Average Flow}/2019 \text{ Audit Flow}) \\ + \text{Centrate Strength} * \text{Centrate flow} \\ = 9,056 \text{ 1,000 lbs} * (0.002 \text{ MGD}/2.231 \text{ MGD}) + 1,347.25 \text{ mg/L} * 0.036 \text{ MGD} \\ = 7.2 \text{ 1,000 lbs} + 145.93 \text{ 1,000 lbs} = 153.15 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = (2019 \text{ Audit Flow}/365 \text{ days} - \text{Diversion}) + \text{Centrate Flow} * \text{Percentage of Total Diversion} \\ = 814 \text{ MG}/365 \text{ days} - 2.486 \text{ MGD} + 0.215 \text{ MGD} * (2.486 \text{ MGD}/15 \text{ MGD}) \\ = 2.231 \text{ MGD} - 2.486 \text{ MGD} + 0.215 \text{ MGD} * 16.6\% \\ = 0 \text{ MGD} + 0.036 \text{ MGD} = 0.04 \text{ MGD}$$

$$2. \text{ Brine} = 0.14 \text{ MGD}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Metered Flow}/2019 \text{ Audit Flow}) + \text{Centrate Strength} * \text{Centrate flow} \\ = 7,676 \text{ 1,000 lbs} * (0 \text{ MGD}/2.231 \text{ MGD}) + 1,104.35 \text{ mg/L} * 0.036 \text{ MGD} \\ = 0 \text{ 1,000 lbs} + 119.62 \text{ 1,000 lbs} = 119.62 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} * (\text{Non-Centrates Metered Flow}/2019 \text{ Audit Flow}) + \text{Centrate Strength} * \text{Centrate flow} \\ = 9,056 \text{ 1,000 lbs} * (0 \text{ MGD}/2.231 \text{ MGD}) + 1,347.25 \text{ mg/L} * 0.036 \text{ MGD} \\ = 0 \text{ 1,000 lbs} + 145.93 \text{ 1,000 lbs} = 145.93 \text{ 1,000 lbs}$$

POWAY

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Poway	3.10	1.8%	6.04	1.6%	9.14	1.7%	0	0.0%	3,113	1.7%	5,073	1.5%	2.58	1.6%	0	0.0%	2,589	1.5%	4,219	1.3%

5. Average Flow = Exhibit G = 3.10 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (3.10 MGD * ~2.95) - 3.10 MGD
 = 6.04 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 3.10 MGD + 6.04 MGD
 = 9.14 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (3.1 MGD/2.58 MGD) * 2,589 1,000 lbs.
 = 3,113 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 941 MG/365 days
 = 2.58 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 2,589 1,000 lbs

4. COD = 2019 Audit Strength = 4,219 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (3.1 MGD/2.58 MGD) * 4,219 1,000 lbs.
 = 5,073 1,000 lbs

SPRING VALLEY

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
Spring Valley	6.23	3.6%	12.14	3.3%	18.37	3.4%	0	0.0%	6,551	3.6%	11,496	3.3%	4.51	2.8%	0	0.0%	4,745	2.8%	8,326	2.6%

5. Average Flow = Exhibit G = 6.23 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (6.23 MGD * ~2.95) - 6.23 MGD
 = 12.14 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 6.23 MGD + 12.14 MGD
 = 18.37 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (6.23 MGD/4.51 MGD) * 4,745 1,000 lbs.
 = 6,551 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 1,647 MG/365 days
 = 4.51 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 4,745 1,000 lbs

4. COD = 2019 Audit Strength = 8,326 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (6.23 MGD/4.51 MGD) * 8,326 1,000 lbs.
 = 11,496 1,000 lbs

WINTERGARDENS

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.	COD, 1,000 lbs.	Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.	COD, 1,000 lbs.				
Wintergardens	1.08	0.6%	2.11	0.6%	3.19	0.6%	0	0.0%	1,358	0.7%	1,999	0.6%	1.03	0.6%	0	0.0%	1,293	0.8%	1,904	0.6%

$$5. \text{ Average Flow} = 2019 \text{ Audit Flow} + 5\% = 1.08 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Average Flow} * \text{Peak Hour Demand Factor}) - \text{Average Flow}$$

$$= (1.08 \text{ MGD} * \sim 2.95) - 1.08 \text{ MGD}$$

$$= 2.11 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow}$$

$$= 1.08 \text{ MGD} + 2.11 \text{ MGD}$$

$$= 3.19 \text{ MGD}$$

$$8. \text{ Brine} = 0 \text{ MGD}$$

$$9. \text{ TSS} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use TSS}$$

$$= (1.08 \text{ MGD} / 1.03 \text{ MGD}) * 1,293 \text{ 1,000 lbs.}$$

$$= 1,358 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = 2019 \text{ Audit Flow} / 365 \text{ days}$$

$$= 376 \text{ MG} / 365 \text{ days}$$

$$= 1.03 \text{ MGD}$$

$$2. \text{ Brine} = 0 \text{ MGD}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} = 1,293 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} = 1,904 \text{ 1,000 lbs}$$

$$10. \text{ COD} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use COD}$$

$$= (1.08 \text{ MGD} / 1.03 \text{ MGD}) * 1,904 \text{ 1,000 lbs.}$$

$$= 1,999 \text{ 1,000 lbs}$$

CITY OF SAN DIEGO

AGENCY	CONTRACT CAPACITY										USE									
	Average Flow, MGD		Incremental Peak Flow, MGD		Total Allowable Flow, MGD		Brine		TSS, 1,000 lbs.		COD, 1,000 lbs.		Metered Flow, MGD		Brine, MGD		TSS, 1,000 lbs.		COD, 1,000 lbs.	
San Diego	124.05	71.6%	241.76	65.9%	365.82	67.7%	0	0.0%	130,032	70.5%	252,818	72.6%	118.14	73.7%	0	0.0%	123,840	72.6%	240,779	74.6%

$$5. \text{ Average Flow} = 2019 \text{ Audit Flow} + 5\% = 124.05 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Average Flow} * \text{Peak Hour Demand Factor}) - \text{Average Flow} \\ = (124.05 \text{ MGD} * \sim 2.95) - 124.05 \text{ MGD} \\ = 241.76 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow} \\ = 124.05 \text{ MGD} + 241.76 \text{ MGD} \\ = 365.82 \text{ MGD}$$

$$8. \text{ Brine} = 0 \text{ MGD}$$

$$9. \text{ TSS} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use TSS} \\ = (124.05 \text{ MGD} / 118.14 \text{ MGD}) * 123,840 \text{ 1,000 lbs.} \\ = 130,032 \text{ 1,000 lbs}$$

$$1. \text{ Metered Flow} = 2019 \text{ Audit Flow} / 365 \text{ days} \\ = 43,123 \text{ MG} / 365 \text{ days} \\ = 118.14 \text{ MGD}$$

$$2. \text{ Brine} = 0 \text{ MGD (Put in separate Water category)}$$

$$3. \text{ TSS} = 2019 \text{ Audit Strength} = 123,840 \text{ 1,000 lbs}$$

$$4. \text{ COD} = 2019 \text{ Audit Strength} = 240,779 \text{ 1,000 lbs}$$

$$10. \text{ COD} = (\text{Average Flow} / \text{Meter Flow}) * \text{Use COD} \\ = (124.05 \text{ MGD} / 118.14 \text{ MGD}) * 240,779 \text{ 1,000 lbs.} \\ = 252,818 \text{ 1,000 lbs}$$

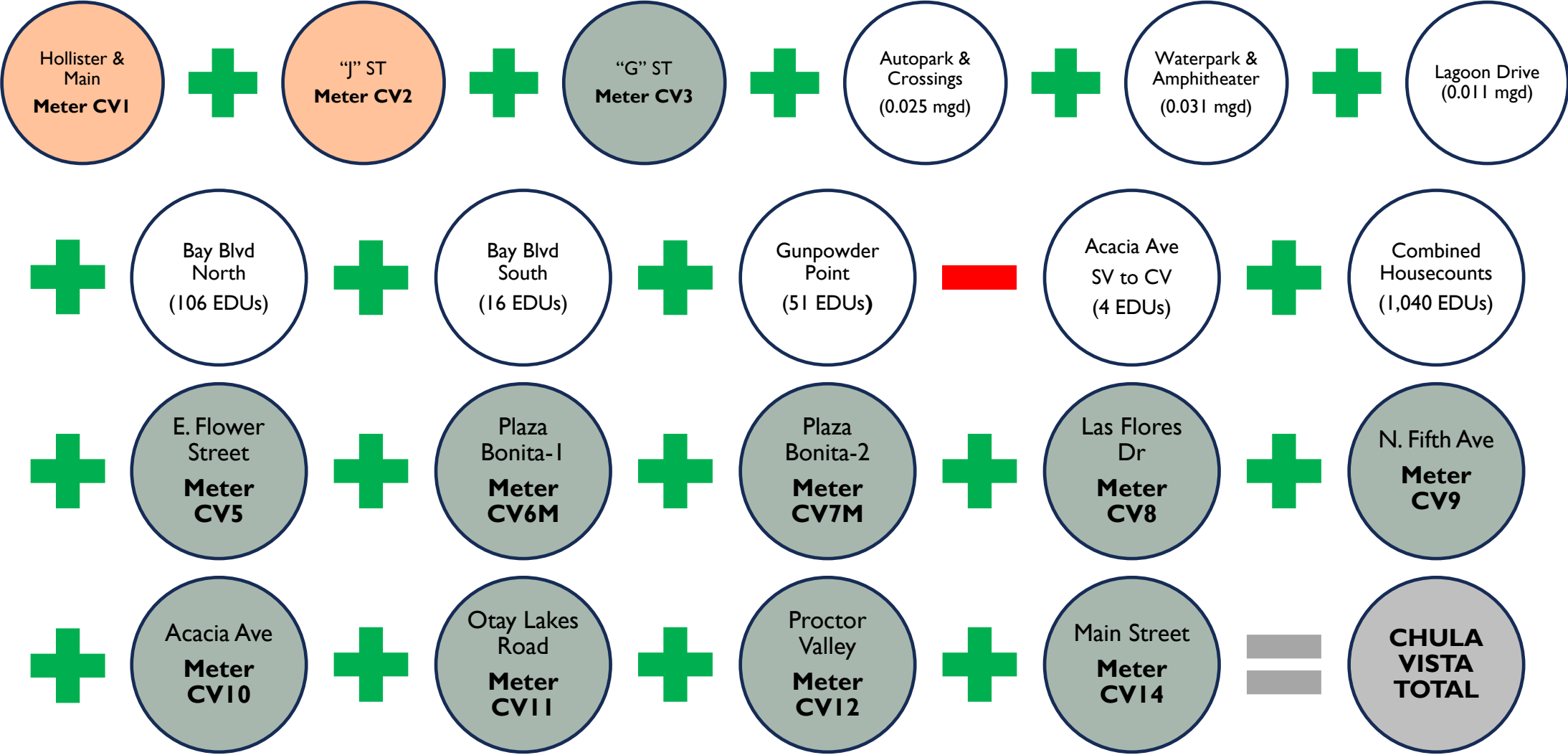
ATTACHMENT 6

PEAK FLOW BILLING FORMULAS

OCTOBER 2022

EXAMPLE PEAK FLOW CALCULATIONS FROM EXISTING METERING SYSTEM

CHULA VISTA



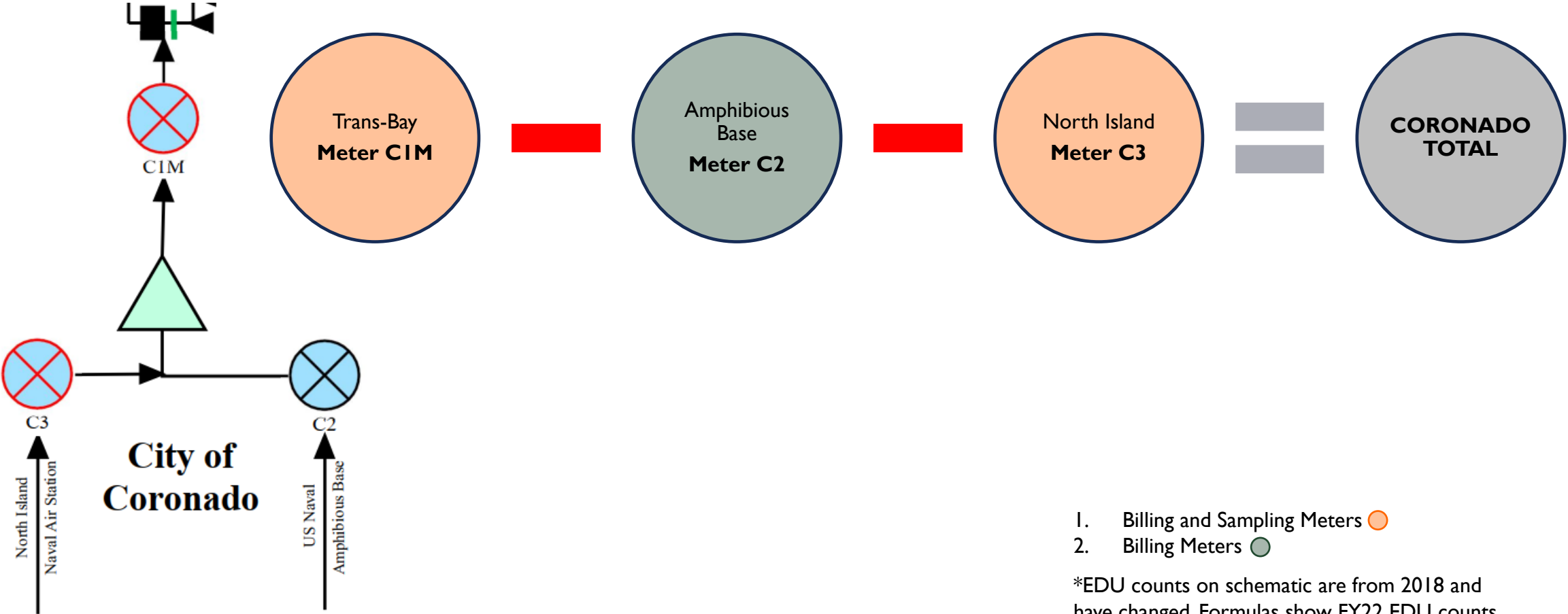
PROPOSED CHULA VISTA PEAK BILLING FORMULA

(USING 4/10/2020 FLOWS OR A PEAKING FACTOR OF 3)(DAY OF SPILL)

+									+										+	Total
Hollister & Main	"J" Street	"G" Street	Autopark & Crossings	Waterpark & Amphitheater	Lagoon Drive	Bay Blvd North	Bay Blvd South	Gunpowder Point	Chula Vista to Spring Valley										Main Street	-
									-	+	+	+	+	+	+	+	+	+		
CV1	CV2	CV3	0.025 mgd	0.031 mgd	0.011 mgd	106 EDUs	16 EDUs	51 EDUS	Acacia Ave (SV to CV)	Combined Housecou nts	E. Flower Street	Plaza Bonita-1	Plaza Bonita-2	Las Flores Dr	N. Fifth Ave	Acacia Ave	Otay Lakes Road	Proctor Valley	CV14	-
5.40 mgd	11.1 mgd	6.60 mgd	0.08 mgd	0.09 mgd	0.03 mgd	0.08 mgd	0.01 mgd	0.04 mgd	0.003 mgd	0.75 mgd	0.10 mgd	0.44 mgd	1.94 mgd	0.22 mgd	1.04 mgd	1.32 mgd	0.88 mgd	1.75 mgd	16.3 mgd	48.2 mgd

48.2 mgd * 0.85 (Attenuation Factor) = 40.97 mgd
 Peak Flow – Average Flow = 40.97 mgd – 16.95 mgd = 24.02 mgd

CORONADO



- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

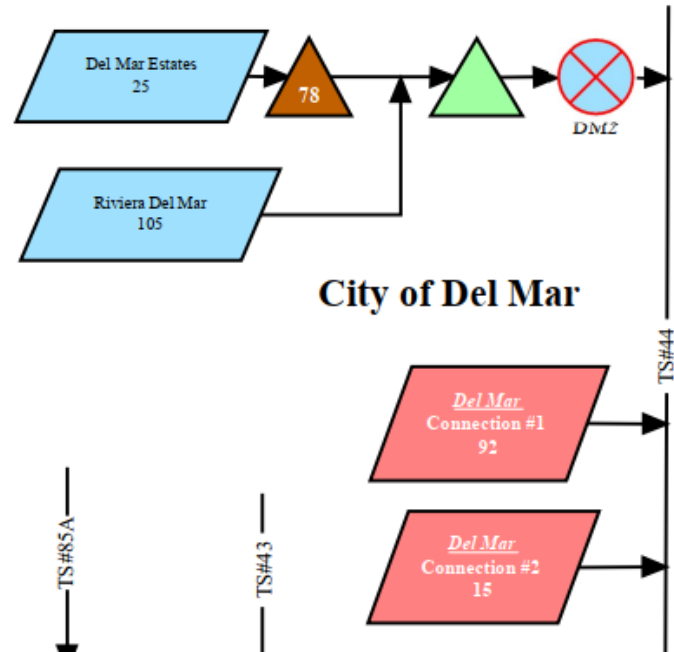
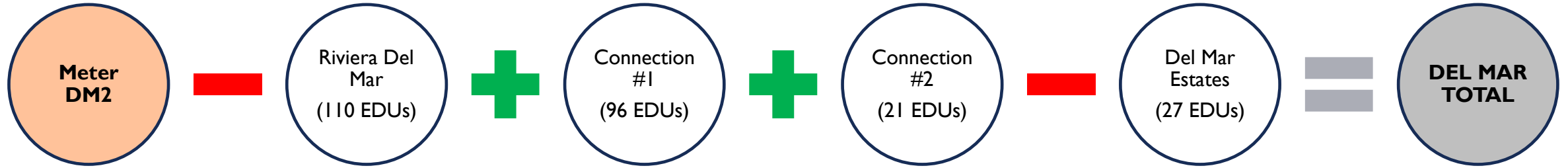
PROPOSED CORONADO PEAK BILLING FORMULA

+	-	-	Total
Trans-Bay	Amphibious Base	North Island	-
CIM	C2	C3	-

$(CIM - C2 - C3) * 0.85$ (Attenuation Factor) = Peak Flow

Peak Flow – Average Flow = Incremental Peak Flow

DEL MAR



1. Billing and Sampling Meters ○
2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

PROPOSED DEL MAR PEAK BILLING FORMULA

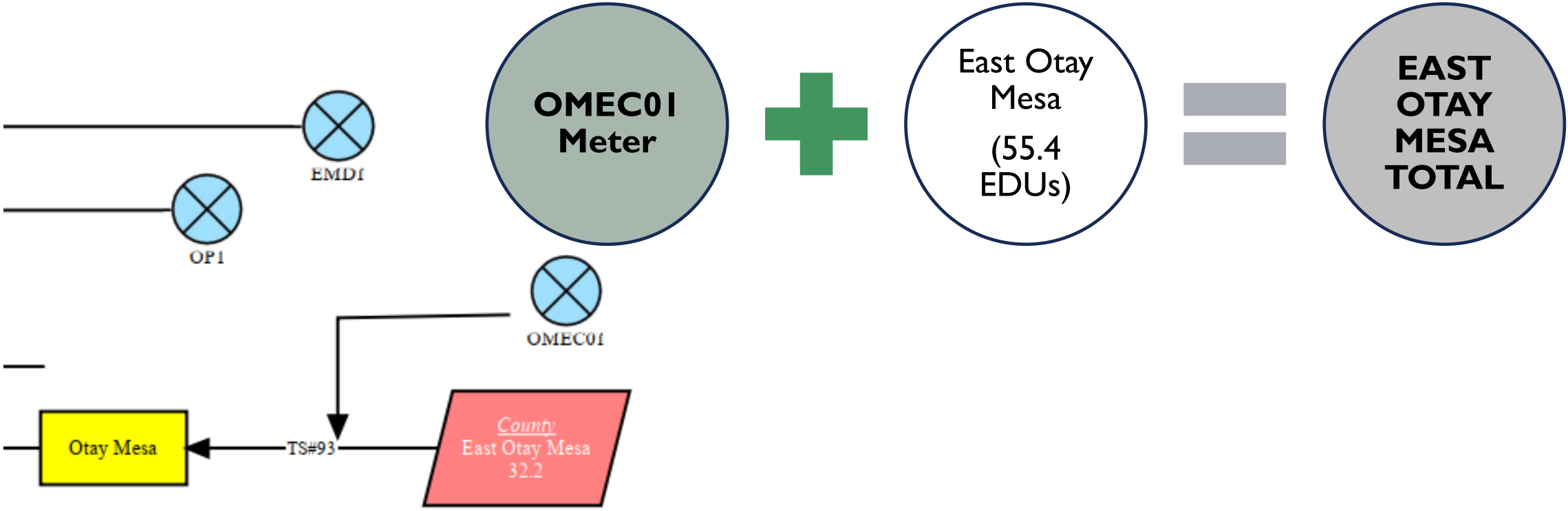
(USING A PEAKING FACTOR OF 3)

	+	-	+	+	-	Total
Meter		Riviera Del Mar	Connection #1	Connection #2	Del Mar Estates	-
DM2		110 EDUs	96 EDUs	21 EDUs	27 EDUs	-
		0.08 mgd	0.07 mgd	0.02 mgd	0.02 mgd	

$$(DM2 - 0.08 + 0.07 + 0.02 - 0.02) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

EAST OTAY MESA



East Otay Mesa

- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

PROPOSED EAST OTAY MESA PEAK BILLING FORMULA

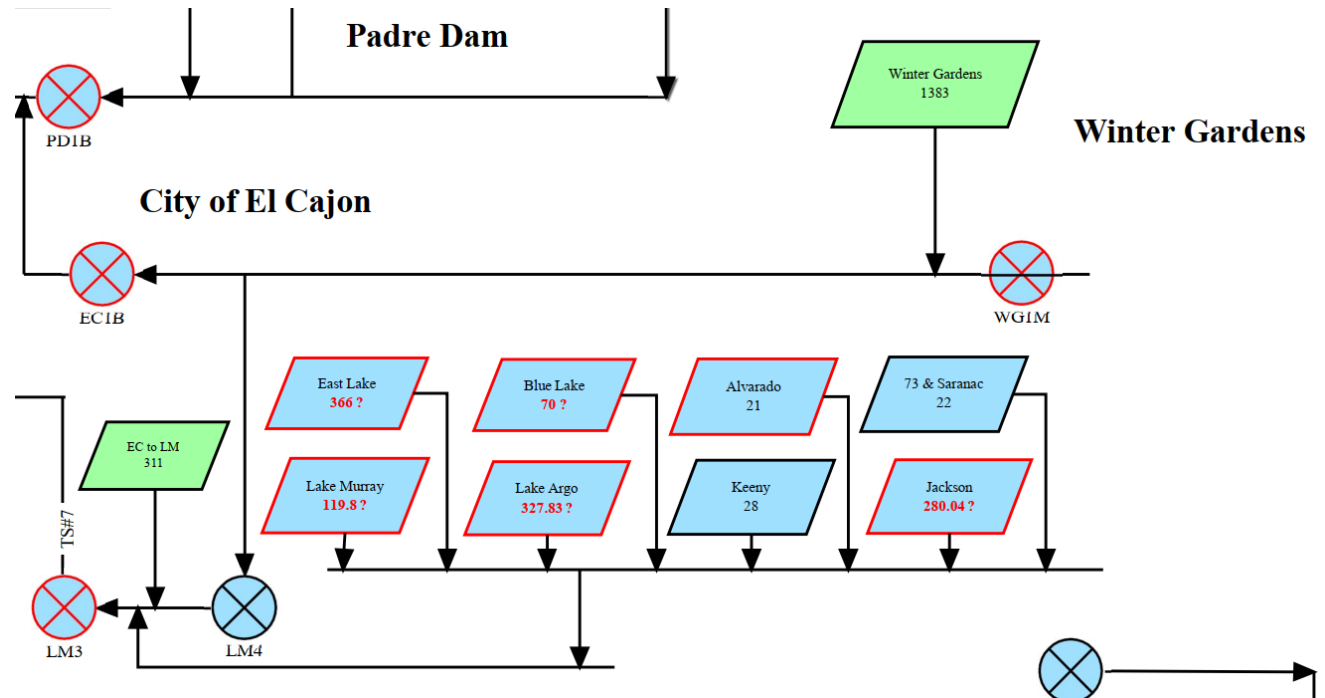
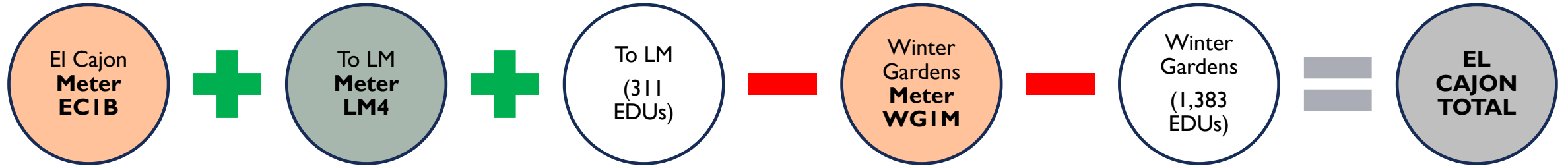
(USING A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	+	Total
Meter	East Otay Mesa	-
OMEC01	55.4 EDUs	-
	0.04 mgd	

$(OMEC01 + 0.04) * 0.85$ (Attenuation Factor) = Peak Flow

Peak Flow – Average Flow = Incremental Peak Flow

EL CAJON



- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

PROPOSED EL CAJON PEAK BILLING FORMULA

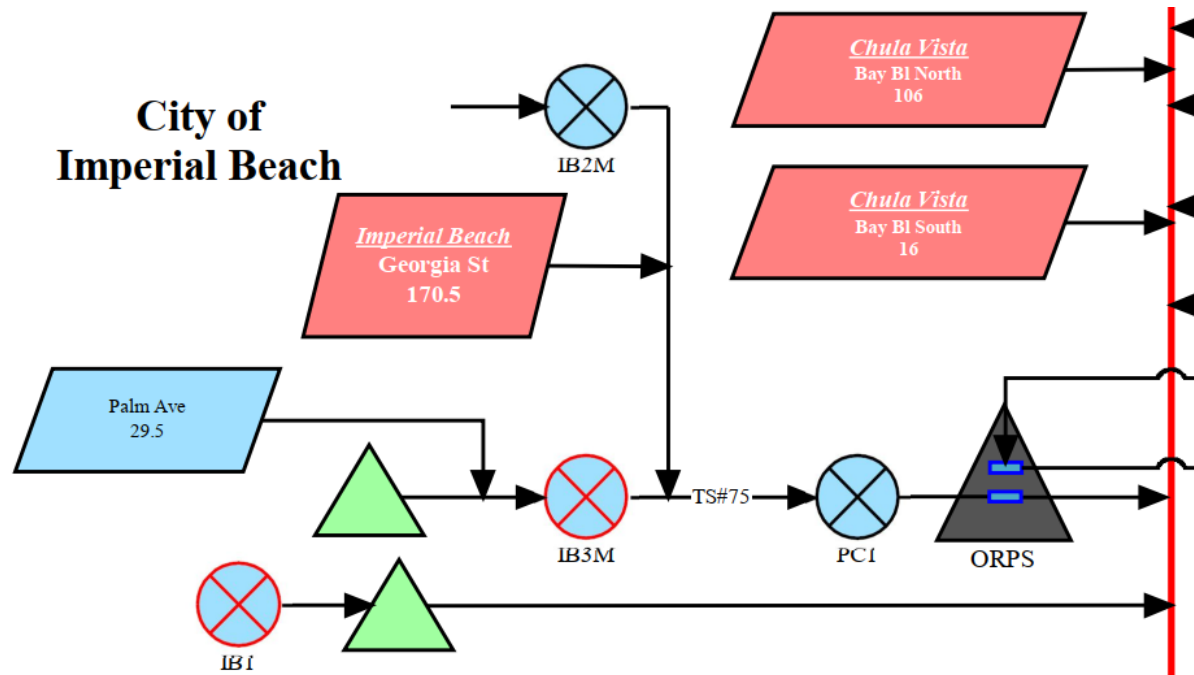
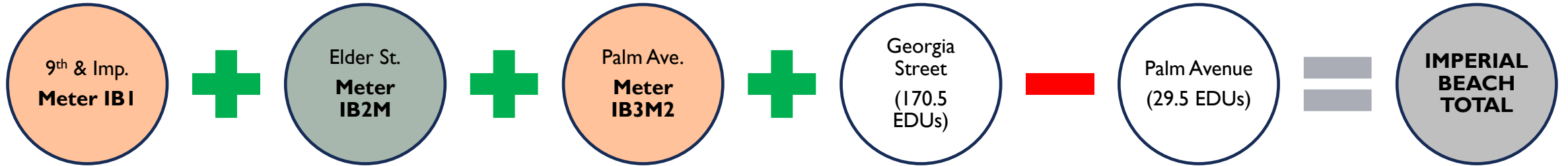
(USING A PEAKING FACTOR OF 3)

+	+	+	-	-	Total
El Cajon	To LM	To LM	Winter Gardens	Winter Gardens	-
ECIB	LM4	311 EDUs	WGIM	1,383 EDUs	-
		0.22 mgd		1.0 mgd	

$(ECIB + LM4 + 0.22 - WGIM - 1.0) * 0.85$ (Attenuation Factor) = Peak Flow

Peak Flow – Average Flow = Incremental Peak Flow

IMPERIAL BEACH



- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

PROPOSED IMPERIAL BEACH PEAK BILLING FORMULA

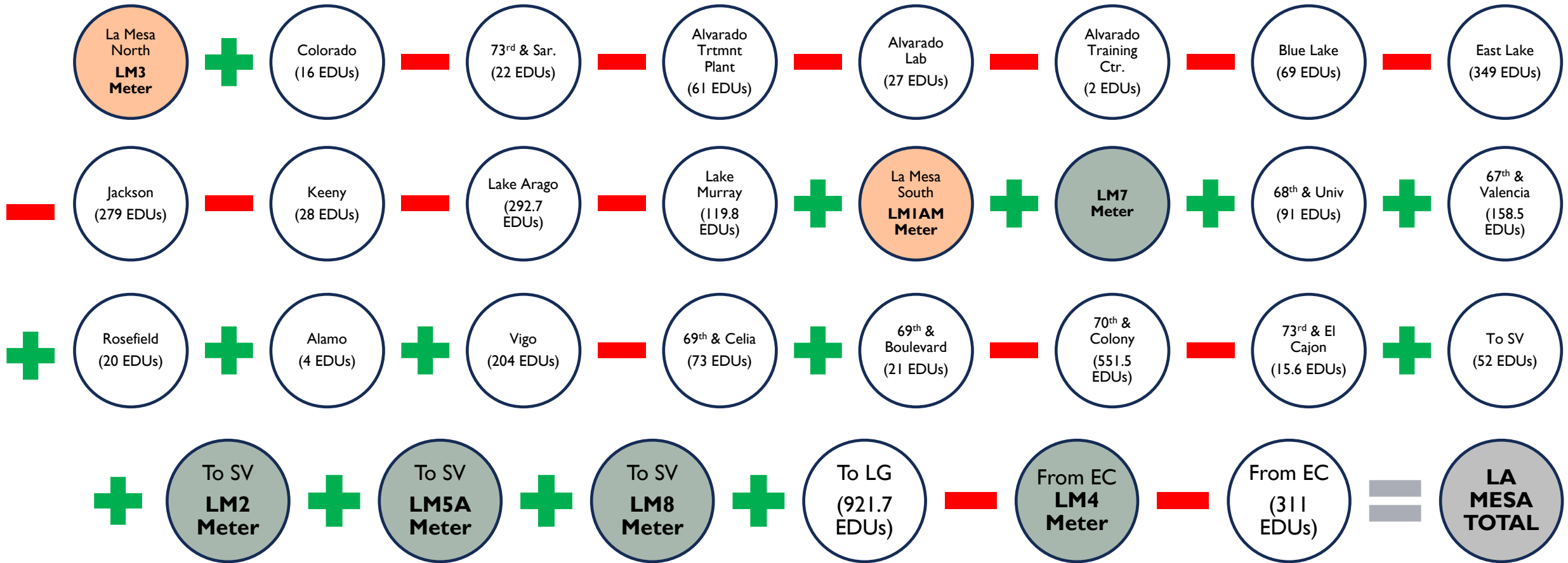
(USING A PEAKING FACTOR OF 3)

+	+	+	+	-	Total
9th & Imp.	Elder St.	Palm Ave.	Georgia Street	Palm Avenue	-
IB1	IB2M	IB3M2	170.5 EDUs	29.5 EDUs	-
			0.12 mgd	0.02 mgd	

$$(IB1 + IB2M + IB3M2 + 0.12 \text{ mgd} - 0.02 \text{ mgd}) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

LA MESA



PROPOSED LA MESA PEAK BILLING FORMULA

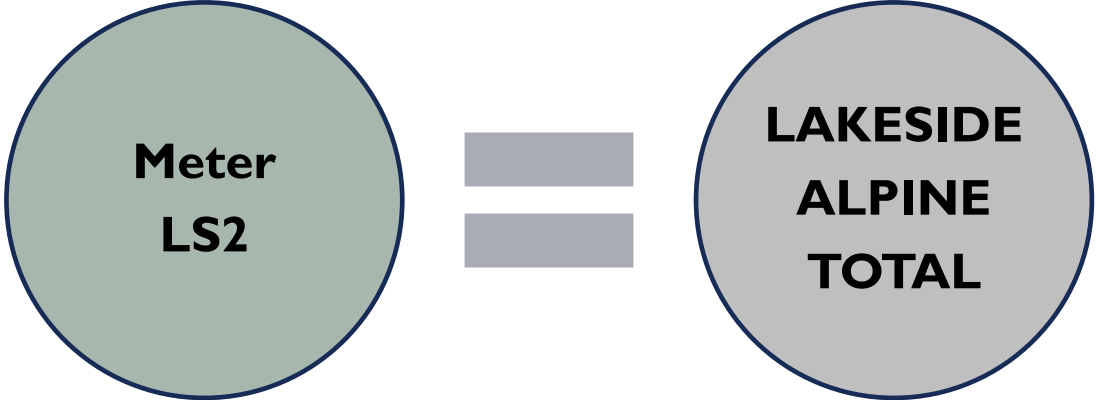
(USING A PEAKING FACTOR OF 3)

	+	+	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	-	+	-	-	+	+	+	+	+	-	-	Total
La Mesa North	Colorado	73 rd & Sar.	Alvarado Trtmt Plant	Alvarado Lab	Alvarado Training Ctr.	Blue Lake	East Lake	Jackson	Keeny	Lake Arago	Lake Murray	La Mesa South	Meter	68 th & Univ	67 th & Valencia	Rosefield	Alamo	Vigo	69 th & Celia	69 th & Boulevard	70 th & Colony	73 rd & El Cajon	To SV	To SV	To SV	To SV	To LG	From EC	From EC	-
LM3	16 EDUs	22 EDUs	61 EDUs	27 EDUs	2 EDUs	69 EDUs	349 EDUs	279 EDUs	28 EDUs	292.7 EDUs	119.8 EDUs	LMIAM	LM7	91 EDUs	158.5 EDUs	20 EDUs	4 EDUs	204 EDUs	73 EDUs	21 EDUs	551.5 EDUs	15.6 EDUs	52 EDUs	LM2	LM5A	LM8	921.7 EDUs	LM4	311 EDUs	-
	0.01 mgd	0.02 mgd	0.04 mgd	0.04 mgd	0.001 mgd	0.05 mgd	0.25 mgd	0.20 mgd	0.02 mgd	0.21 mgd	0.09 mgd			0.07 mgd	0.11 mgd	0.01 mgd	0.003 mgd	0.15 mgd	0.05 mgd	0.02 mgd	0.40 mgd	0.01 mgd	0.04 mgd				0.66 mgd		0.22	

$$(LM3 + 0.01 - 0.02 - 0.04 - 0.04 - 0.001 - 0.05 - 0.25 - 0.2 - 0.02 - 0.21 - 0.09 + LMIAM + LM7 + 0.07 + 0.11 + 0.01 + 0.003 + 0.15 - 0.05 + 0.02 - 0.4 - 0.01 + 0.04 + LM2 + LM5A + LM8 + 0.66 - LM4 - 0.22) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

LAKESIDE/ALPINE



Lakeside/Alpine



- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

PROPOSED LAKESIDE/ALPINE PEAK BILLING FORMULA

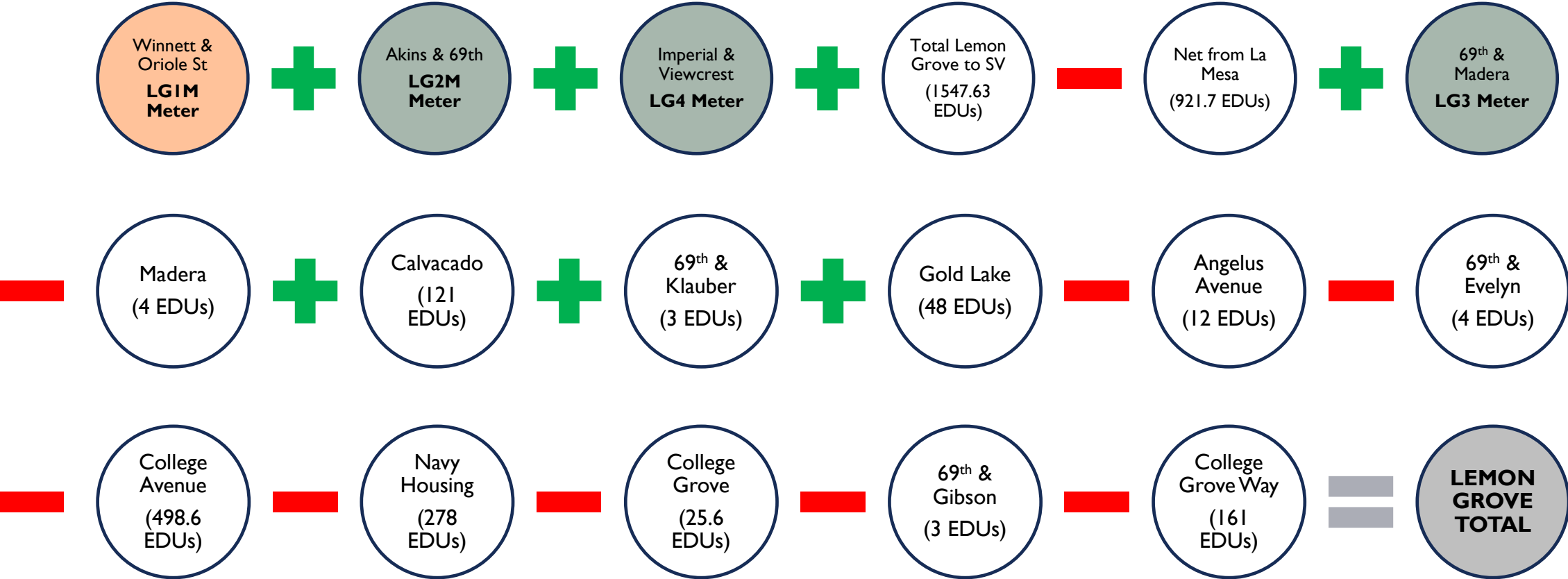
(USING A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	Total
Meter	-
LS2	-

$$\text{LS2} * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

LEMON GROVE



PROPOSED LEMON GROVE PEAK BILLING FORMULA

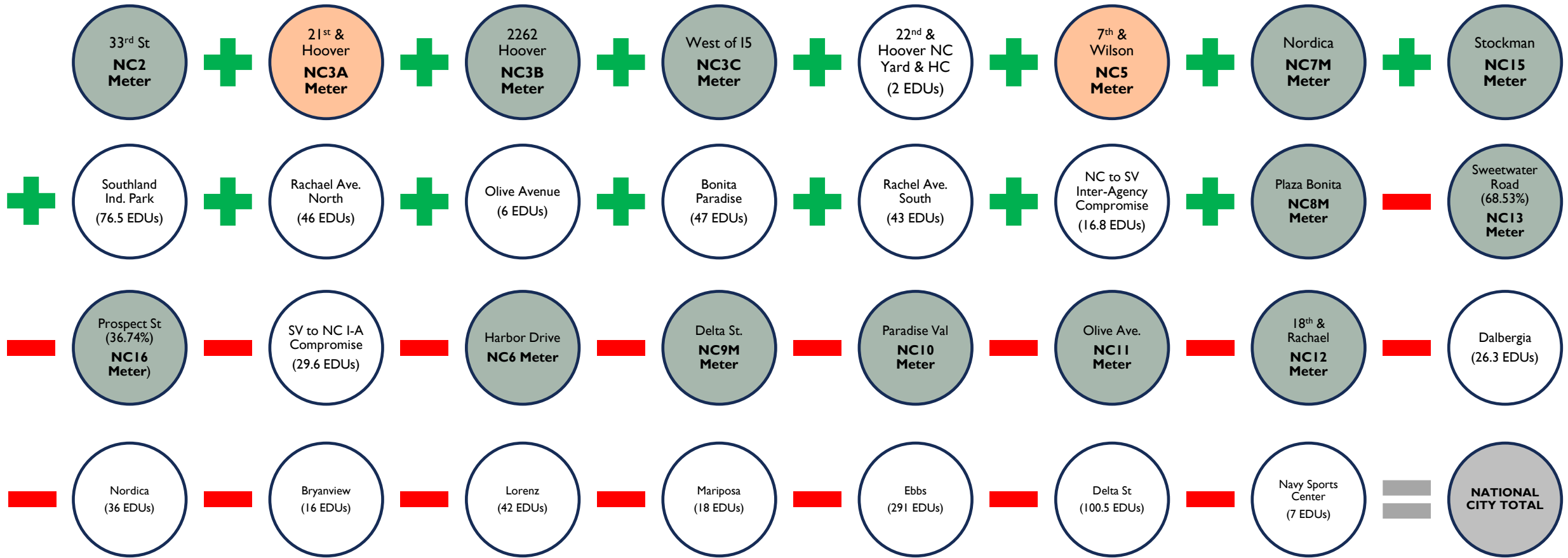
(USING 4/10/2020 FLOWS OR A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	+	+	+	-	+	-	+	+	+	-	-	-	-	-	-	-	Total
Winnett & Oriole St	Akins & 69th	Imperial & Viewcrest	Total Lemon Grove to SV	Net from La Mesa	69th & Madera	Madera	Calvacado	69th & Klauber	Gold Lake	Angelus Avenue	69th & Evelyn	College Avenue	Navy Housing	College Grove	69th & Gibson	College Grove Way	-
LG1M	LG2M	LG4	1547.63 EDUs	921.7 EDUs	LG3	4 EDUs	121 EDUs	3 EDUs	48 EDUs	12 EDUs	4 EDUs	498.6 EDUs	278 EDUs	25.6 EDUs	3 EDUs	161 EDUs	-
2.57 mgd	2.51 mgd	3.21 mgd	1.11 mgd	0.66 mgd	0.56 mgd	0.003 mgd	0.09 mgd	0.002 mgd	0.03 mgd	0.009 mgd	0.003 mgd	0.36 mgd	0.20 mgd	0.02 mgd	0.002 mgd	0.16 mgd	8.71 mgd

$$8.71 \text{ mgd} * 0.85 \text{ (Attenuation Factor)} = 7.41 \text{ mgd}$$

$$\text{Peak Flow} - \text{Average Flow} = 7.41 \text{ mgd} - 1.89 \text{ mgd} = 5.52 \text{ mgd}$$

NATIONAL CITY



PROPOSED NATIONAL CITY PEAK BILLING FORMULA

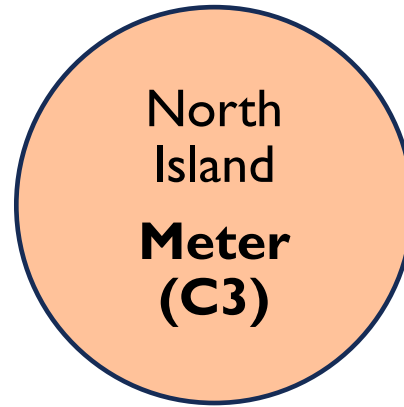
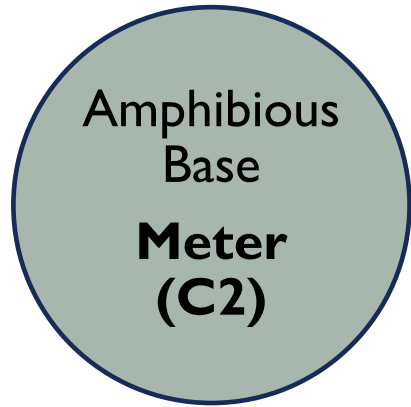
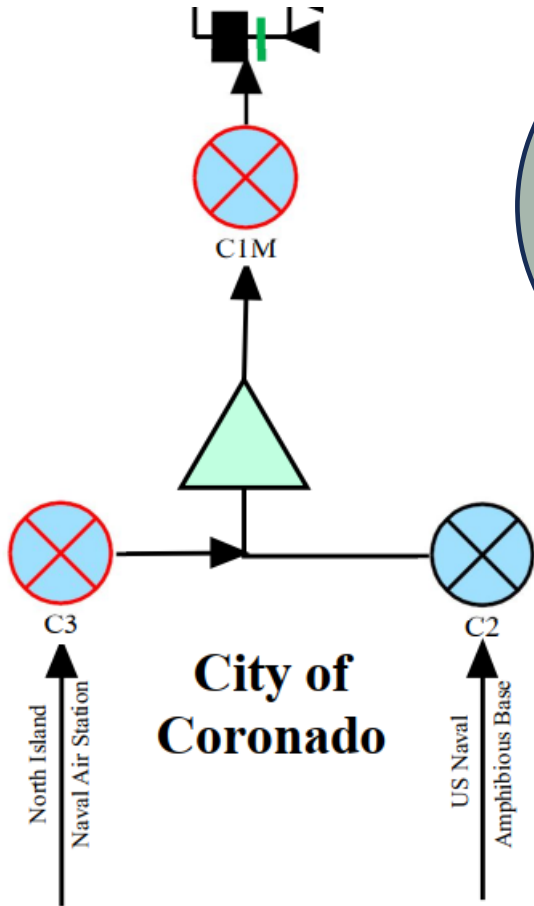
(USING A PEAKING FACTOR OF 3)

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Total
33 rd St	21 st & Hoover	2262 Hoover	West of I5	22nd & Hoover NC Yard & HC	7th & Wilson	Nordica	Stockman	South and Ind. Park	Rachel Ave. North	Olive Avenue	Bonita Paradise	Rachel Ave. South	NC to SV Inter-Agency Compromise	Plaza Bonita	Sweet water Road (68.53 %)	Prospect St (36.74 %)	SV to NC I-A Compromise	Harbor Drive	Delta St.	Paradise Val	Olive Ave.	18th & Rachel	Dalbergia	Nordica	Bryan view	Lorenz	Mariposa	Ebbs	Delta St	Navy Sports Center	-
NC2	NC3A	NC3B	NC3C	2 EDUs	NC5	NC7M	NC15	76.5 EDUs	46 EDUs	6 EDUs	47 EDUs	43 EDUs	16.8 EDUs	NC8M	NC13	NC16	29.6 EDUs	NC6	NC9M	NC10	NC11	NC12	26.3 EDUs	36 EDUs	16 EDUs	42 EDUs	18 EDUs	291 EDUs	100.5 EDUs	7 EDUs	-
				0.001 mgd				0.06 mgd	0.03 mgd	0.004 mgd	0.03 mgd	0.03 mgd	0.01 mgd				0.02 mgd						0.03 mgd	0.03 mgd	0.01 mgd	0.03 mgd	0.01 mgd	0.21 mgd	0.07 mgd	0.005 mgd	

$$NC2 + NC3A + NC3B + 0.001 + NC5 + NC7M + NC15 + 0.06 + 0.03 + 0.004 + 0.03 + 0.03 + 0.01 + NC8M - NC13 - NC16 - 0.02 - NC6 - NC9M - NC10 - NC11 - NC12 - 0.03 - 0.03 - 0.01 - 0.03 - 0.01 - 0.21 - 0.07 - 0.005) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

NAVY



1. Billing and Sampling Meters ○
2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

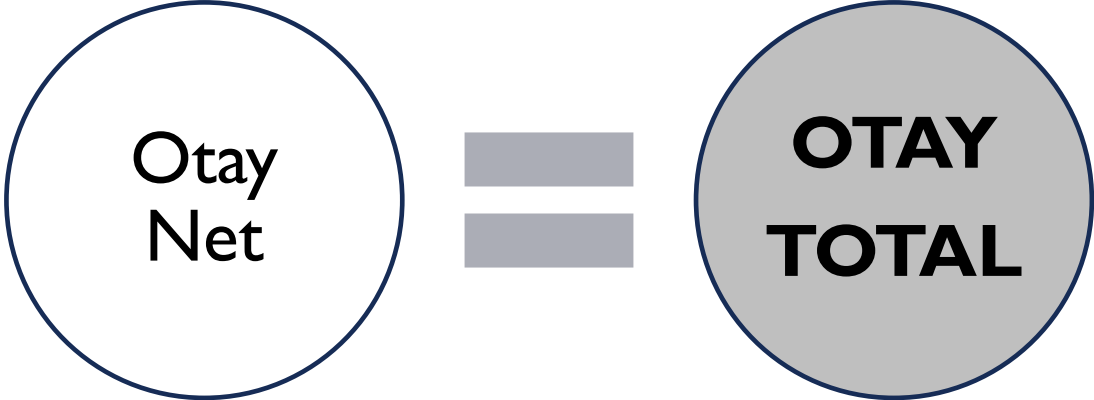
PROPOSED NAVY PEAK BILLING FORMULA

+	+	Total
Amphibious Base	North Island	-
C2	C3	-

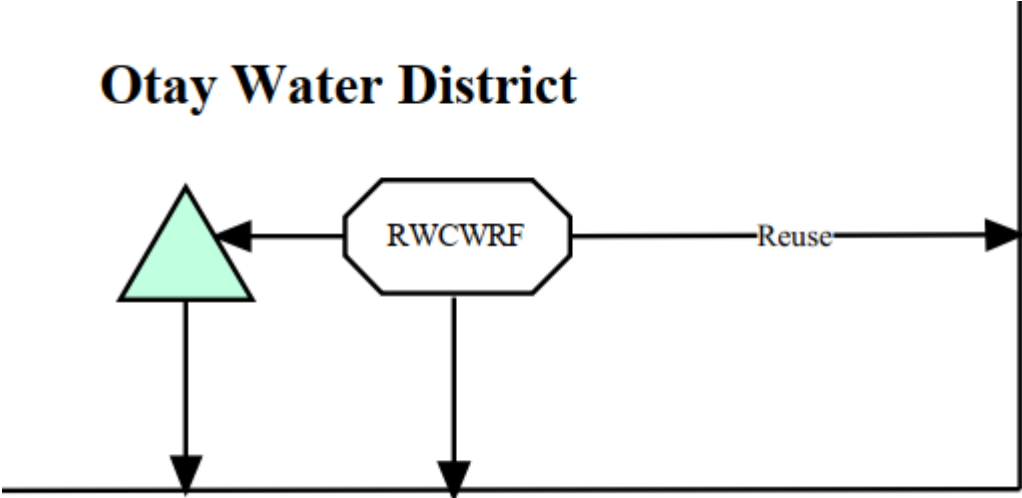
$(C2 + C3) * 0.85$ (Attenuation Factor) = Peak Flow

Peak Flow – Average Flow = Incremental Peak Flow

OTAY



Otoy Water District



- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

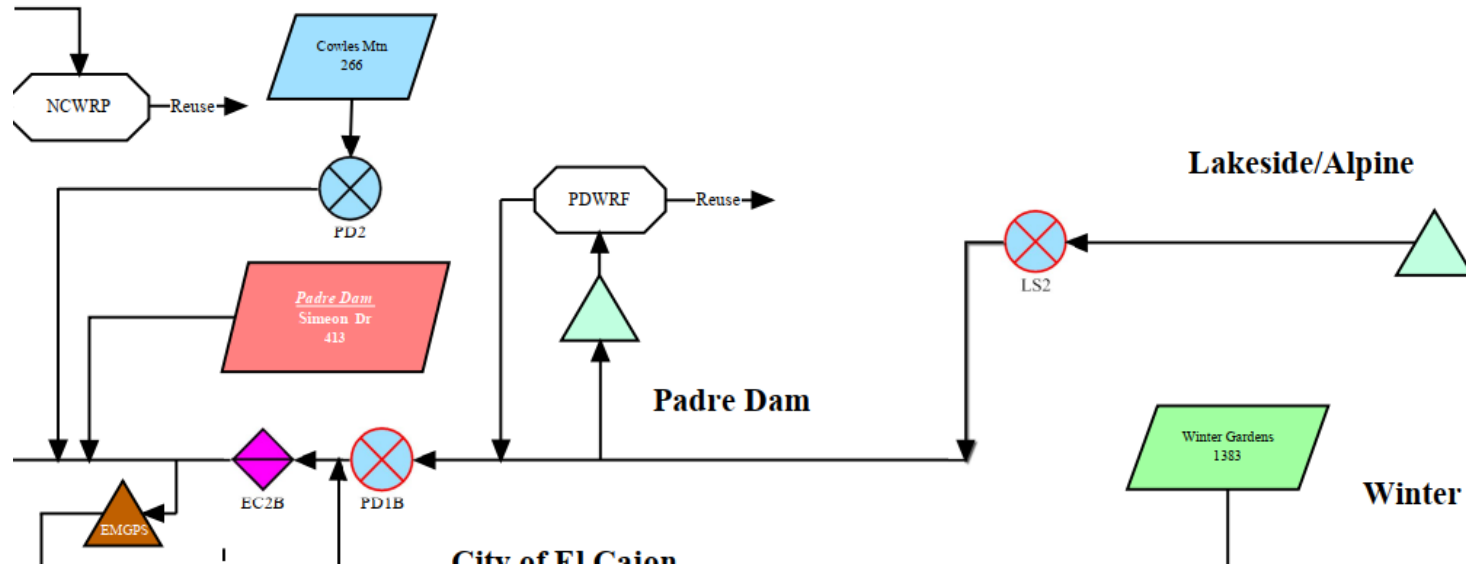
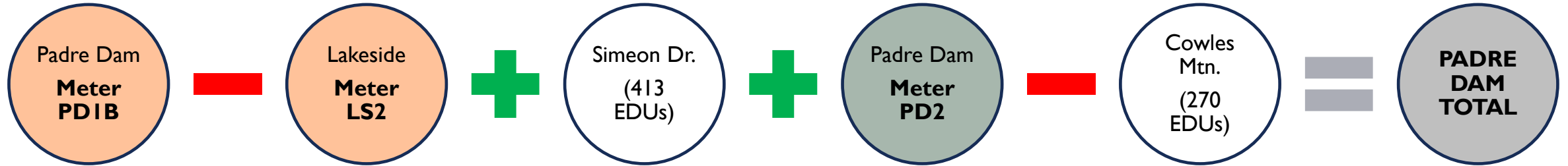
PROPOSED OTAY PEAK BILLING FORMULA

(USING A PEAKING FACTOR OF 3)

+	Total
Otay Net	-

Otay Net * 0.85 (Attenuation Factor) = Peak Flow
Peak Flow – Average Flow = Incremental Peak Flow

PADRE DAM



1. Billing and Sampling Meters ○
2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

PROPOSED PADRE DAM PEAK BILLING FORMULA

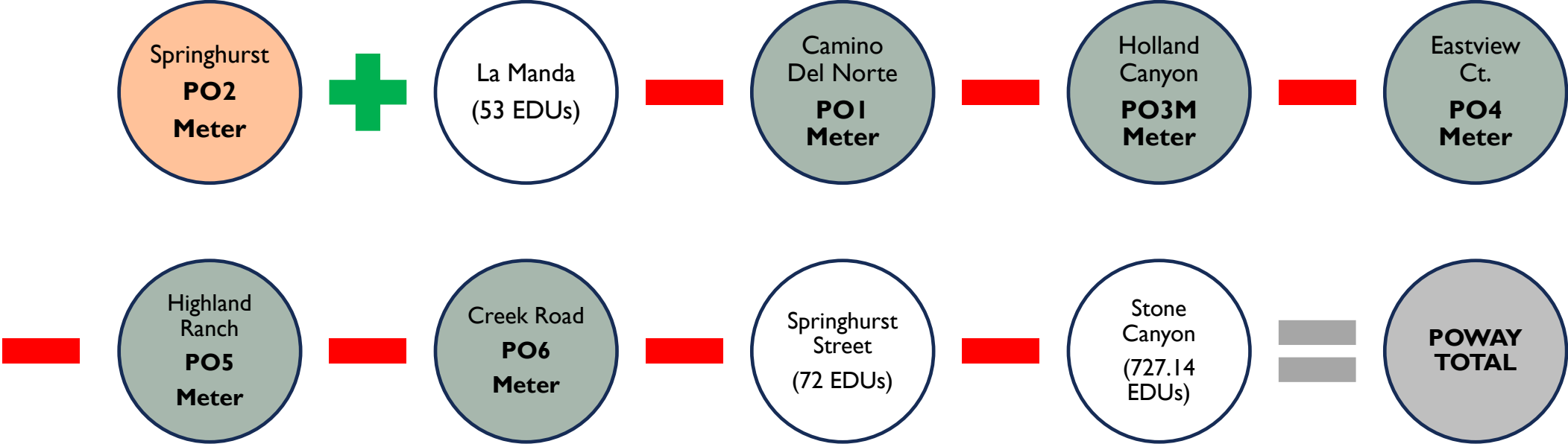
(USING A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	-	+	+	-	Total
Padre Dam	Lakeside Meter LS2	Simeon Dr.	Padre Dam	Cowles Mtn.	-
PDIB	LS2	413 EDUs	PD2	270 EDUs	-
		0.30 mgd		0.19 mgd	

$$(PDIB - LS2 + 0.30 + PD2 - 0.19) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

POWAY



PROPOSED POWAY PEAK BILLING FORMULA

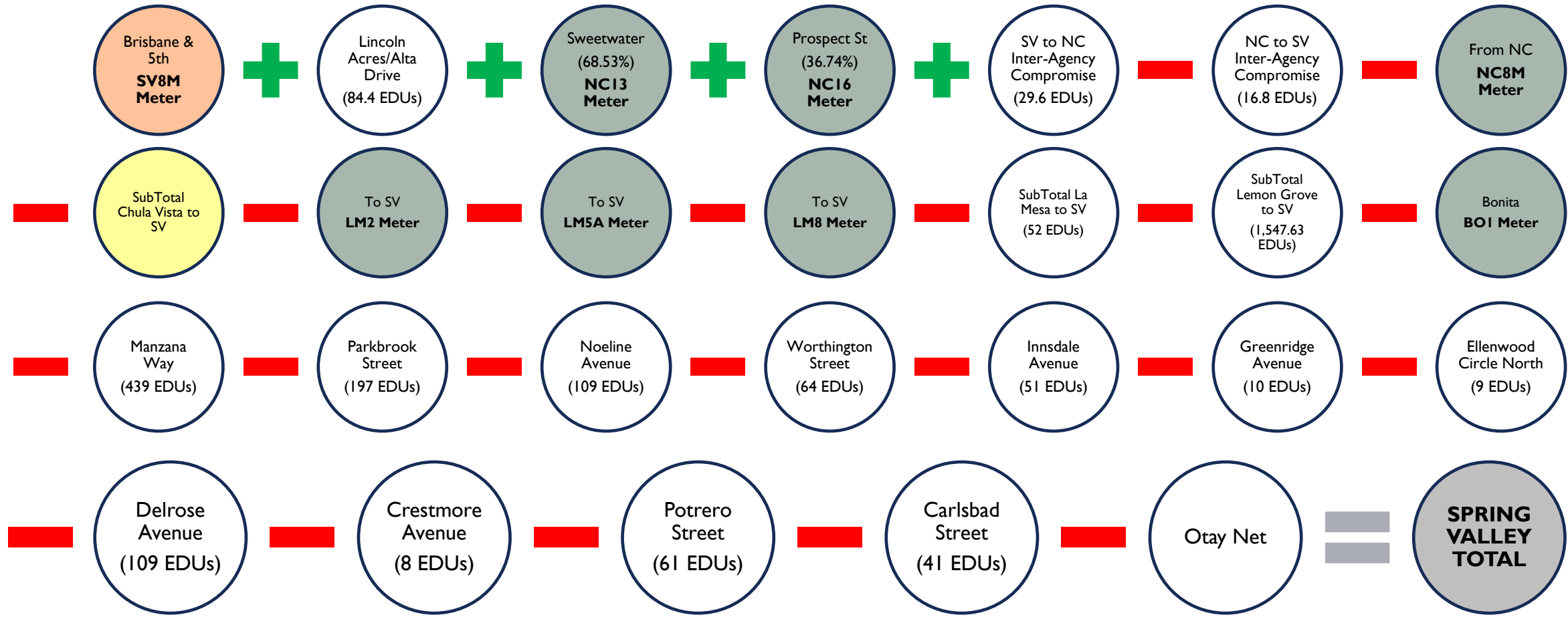
(USING A PEAKING FACTOR OF 3)

+	+	-	-	-	-	-	-	-	Total
Springhurst	La Manda	Camino Del Norte	Holland Canyon	Eastview Ct.	Highland Ranch	Creek Road	Springhurst Street	Stone Canyon	-
PO2	53 EDUs	PO1	PO3M	PO4	PO5	PO6	72 EDUs	727.14 EDUs	-
	0.04 mgd						0.05 mgd	0.52 mgd	

$$(\text{PO2} + 0.04 - \text{PO1} - \text{PO3M} - \text{PO4} - \text{PO5} - \text{PO6} - 0.05 \text{ mgd} - 0.52 \text{ mgd}) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

SPRING VALLEY



SubTotal Chula Vista to SV = Combined Housecounts – Acacia Ave + CV5 + CV6 + CV7M + CV8 + CV9 + CV10 + CV11 + CV12 + CV14

PROPOSED SPRING VALLEY PEAK BILLING FORMULA

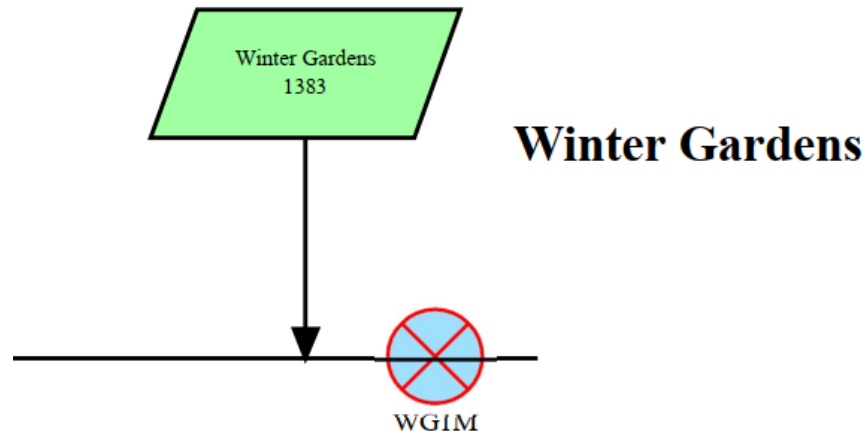
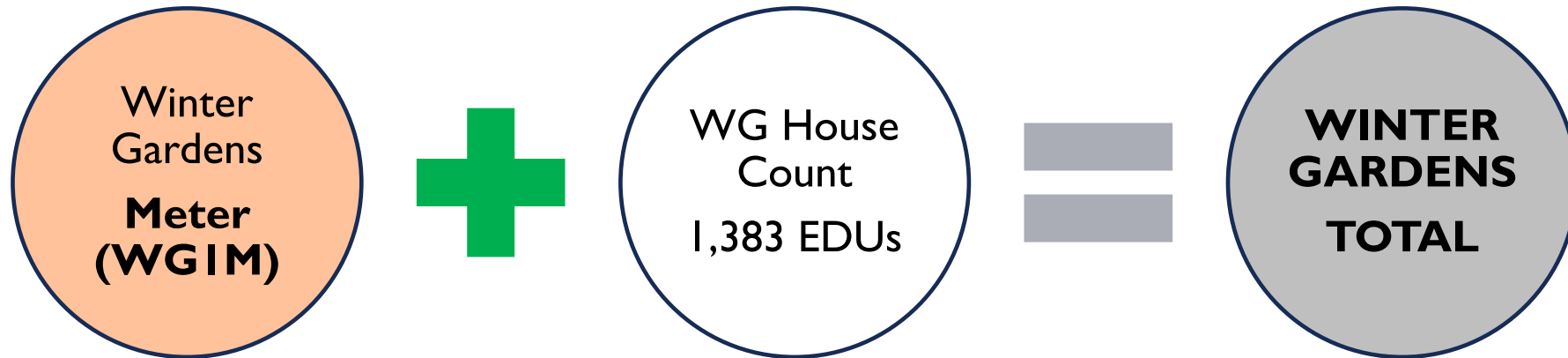
(USING A PEAKING FACTOR OF 3)

	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Total
Brisbane & 5th	Lincoln Acres/ Alta Drive	Sweetwater (68.53%)	Prospect St (36.74%)	SV to NC Inter-Agency Compromise	NC to SV Inter-Agency Compromise	From NC	SubTotal Chula Vista to SV	To SV	To SV	To SV	SubTotal La Mesa to SV	SubTotal Lemon Grove to SV	Bonita	Manzana Way	Parkbrook Street	Noeline Avenue	Worthington Street	Innsdale Avenue	Greenridge Avenue	Ellenwood Circle North	Delrose Avenue	Crestmore Avenue	Potrero Street	Carlsbad Street	Otay Net	-
SV8M	84.4 EDUs	NCI3	NCI6	29.6 EDUs	16.8 EDUs	NC8M		LM2	LM5A	LM8	52 EDUs	1,547.63 EDUs	BOI	439 EDUs	197 EDUs	109 EDUs	64 EDUs	51 EDUs	10 EDUs	9 EDUs	109 EDUs	8 EDUs	61 EDUs	41 EDUs		-
	0.06 mgd			0.20 mgd	0.01 mgd						0.04 mgd	1.11 mgd		0.32 mgd	0.14 mgd	0.08 mgd	0.05 mgd	0.04 mgd	0.007 mgd	0.006 mgd	0.08 mgd	0.006 mgd	0.04 mgd	0.03 mgd		

SV8M + 0.06 + NCI3 + NCI6 + 0.2 – 0.01 – NC8M – CV to SV – LM2 – LM5A – LM8 – 0.04 – 1.11 – BOI – 0.32 – 0.14 – 0.08 – 0.05 – 0.04 – 0.007 – 0.006 – 0.08 – 0.006 – 0.04 – 0.03 – Otay Net) * 0.85 (Attenuation Factor) = Peak Flow

Peak Flow – Average Flow = Incremental Peak Flow

WINTER GARDENS



- 1. Billing and Sampling Meters ○
- 2. Billing Meters ●

*EDU counts on schematic are from 2018 and have changed. Formulas show FY22 EDU counts.

PROPOSED WINTER GARDENS PEAK BILLING FORMULA

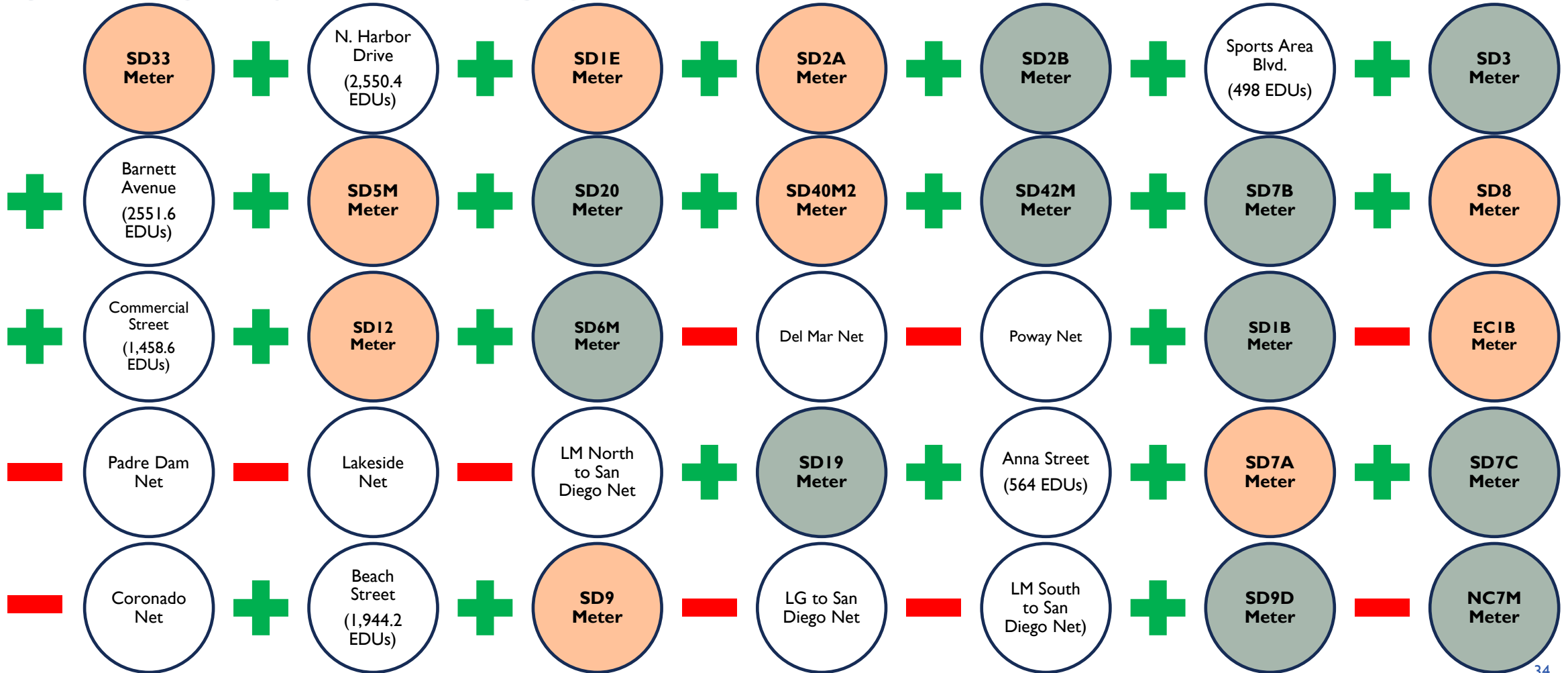
(USING A PEAKING FACTOR OF 3)

+	+	Total
Winter Gardens	WG House Count	-
WGIM	1,383 EDUs	-
	1.00 mgd	

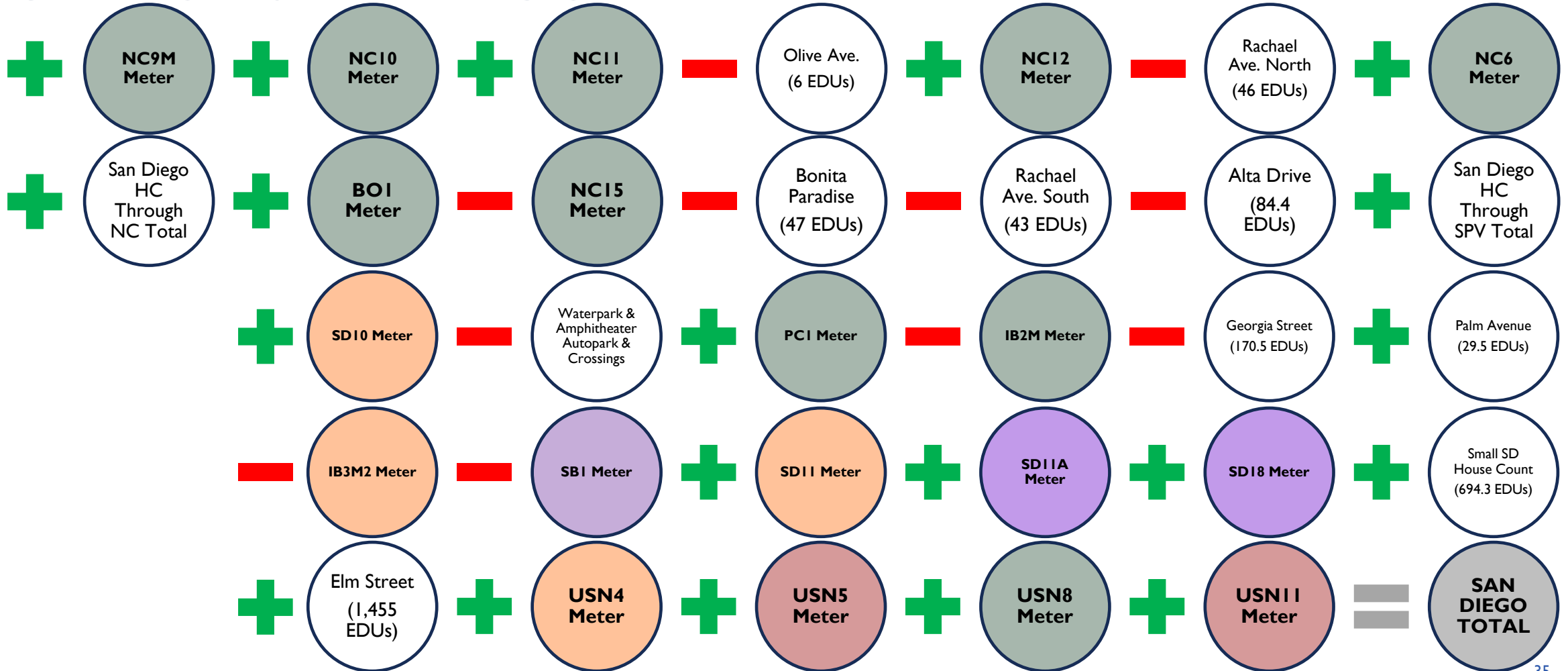
$$(WGIM + 1.00) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$$

$$\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$$

CITY OF SAN DIEGO



CITY OF SAN DIEGO



PROPOSED LA MESA PEAK BILLING FORMULA

(USING A PEAKING FACTOR OF 3)

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	-	-	-	-	+	+	+	+	-	+	+	-	-	+	
Meter	N. Harbor Drive	Meter	Meter	Meter	Sports Area Blvd.	Meter	Barnett Avenue	Meter	Meter	Meter	Meter	Meter	Meter	Commercial Street	Meter	Meter	Del Mar Net	Poway Net	Meter	Meter	Padre Dam Net	Lakeside Net	LM North to San Diego Net	Meter	Anna Street	Meter	Meter	Coronado Net	Beach Street	Meter	LG to San Diego Net	LM South to San Diego Net	Meter
SD33	2,550.4 EDUs	SD1E	SD2A	SD2B	498 EDUs	SD3	2,551.6 EDUs	SD5M	SD20	SD40M2	SD42M	SD7B	SD8	1,458.6 EDUs	SD12	SD6M			SD1B	EC1B				SD19	564 EDUs	SD7A	SD7C			1,944.2 EDUs	SD9		SD9D
	1.84 mgd				0.36 mgd		1.84 mgd							1.05 mgd											0.41 mgd					1.40 mgd			
-	+	+	+	-	+	-	+	+	+	-	-	-	-	+	+	-	+	-	-	+	-	-	+	+	+	+	+	+	+	+	+	+	Total
Meter	Meter	Meter	Meter	Olive Ave.	Meter	Rachel Ave. North	Meter	San Diego HC Through NC Total	Meter	Meter	Bonita Paradise	Rachel Ave. South	Alta Drive	San Diego HC Through SPV Total	Meter	Waterpark & Amphitheater Auto park & Crossings	Meter	Meter	Georgia Street	Palm Avenue	Meter	Meter	Meter	Meter	Meter	Small SD House Count	Elm Street	Meter	Meter	Meter	Meter	-	
NC7M	NC9M	NC10	NC11	6 EDUs	NC12	46 EDUs	NC6		BO1	NC15	47 EDUs	43 EDUs	84.4 EDUs		SD10		PCI	IB2M	170.5 EDUs	29.5 EDUs	IB3M2	SBI	SD11	SD11A	SD18	694.3 EDUs	1,455 EDUs	USN4	USN5	USN8	USN11	-	
				0.004 mgd		0.03 mgd					0.03 mgd	0.03 mgd	0.06 mgd						0.12 mgd	0.02					0.50 mgd	1.05 mgd							

PROPOSED LA MESA PEAK BILLING FORMULA

(USING A PEAKING FACTOR OF 3)

$(SD33 + 1.84 \text{ mgd} + SD1E + SD2A + SD2B + 0.36 + SD3 + 1.84 + SD5M + SD20 + SD40M2 + SD42M + SD7B + SD8 + 1.05 + SD12 + SD6M - \text{Del Mar} - \text{Poway} + SD1B - EC1B - \text{Padre Dam} - \text{Lakeside} - \text{LM North to SD} + SD19 + 0.41 + SD7A + SD7C - \text{Coronado} + 1.4 + SD9 - \text{LG to SD} - \text{LM South to SD} + SD9D - NC7M + NC9M + NC10 + NC11 - 0.004 + NC12 - 0.03 + NC6 + \text{SD HC through NC} + \text{BOI} - NC15 - 0.03 - 0.03 - 0.06 + \text{SD HC through SPV} + \text{SD10} - \text{Waterpark \& Amphitheater Autopark \& Crossings} + \text{PCI} - \text{IB2M} - 0.12 + 0.02 - \text{IB3M2} - \text{SBI} + \text{SD11} + \text{SD11A} + \text{SD18} + 0.5 + 1.05 + \text{USN4} + \text{USN5} + \text{USN8} + \text{USN11}) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$

Peak Flow – Average Flow = Incremental Peak Flow

ATTACHMENT 18

METROTAC WORK PLAN

**Metro TAC & JPA Work Plan
Active & Pending Items
August 2022**
Updated Items in Red Italics

Active Items	Description	Member(s)
Metro JPA AdHoc 2 nd ARA	JPA Board work group. Formed to review all items being negotiated in the 2 nd ARA prior to going to the full Board. Meets every 2-3 weeks as needed. First meeting March 16, 2022.	Jerry Jones Marvin Heinze Gary Kendrick Ed Spriggs JPA Support staff
IRWMP	JPA Members should monitor funding opportunities at: http://www.sdirwmp.org 1/21: Beth Gentry continues to give monthly TAC updates. Details can be found in minutes of each meeting.	Beth Gentry Yazmin Arellano
Exhibit E Audit	1/21: FY2019 Exhibit E audit is in fieldwork stage. JPA team reviewing SD responses to sample questions. 4/11/2022: FY2019 scheduled to complete April/May 2022; FY 2020 audit final field work completed. Owner controlled insurance program detail discussion (future). 6/13/22: FY 2021 Entrance Conference 7/14/22: FY2019 Audit received 8/22: FY2019 audit approved. OCIP meeting held.	Lee Ann Jones-Santos Karyn Keese Dexter Wilson
Industrial Wastewater Control Committee	Formed to work with San Diego on new standards for industrial waste discharge and cost allocation of same. 1/2021: SD is trying to formalize a pretreatment rate case and has hired a consultant. Monthly updates are presented at TAC and JPA. 3/16/2022: Monthly meetings to discuss the pretreatment agreement and considerations for the 2nd ARA, reviews of local limits, and the industrial user permit fees and program	Beth Gentry Interested JPA members Dexter Wilson SD Staff & Consultants
Emergency Mutual Aid Committee	Formed with the intent the sharing of resources during an emergency. First draft was completed and the next draft will be circulated for interested agencies.	Peejay Tuongbanua Steve Beppler, Yazmin Arellano, Mike James Hamed Hashemian
Phase I Financial Implementation Working Group (FIG)	This working group was formed to continue to work on Section 2.9.1 and other financial implementations issues in Exhibit F associated with the Amended Restated Agreement. 1/2021: Group will start meeting once the ARA is fully signed (January 2021) on a regular basis with a goal to complete all tasks by 1/2022. 3/16/2022: Group continues to meet every two weeks.	Karyn Keze Dexter Wilson SD staff & consultants
2 nd ARA Negotiating Team	This group was created to negotiate the 2 nd Amended Restated Agreement ARA2) which will incorporate the completed financial and other items from the first ARA. 3/16/2022: Negotiating Team meets every 3 weeks to follow through with topics raised during the First ARA.	Beth Gentry Yazmin Arellano Karyn Keze Scott Tulloch Dexter Wilson SD staff & consultants
Changes in wastewater/water legislation	NOTE: Procopio, Metro TAC and the Commission 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.	Procopio JPA members as appropriate

Sewer Rate Comparison: Metro Participating Agencies
Single Family Monthly Rates Based on 7 HCF Water Usage
Effective January 1, 2022 for FY 2023

Flat Rates
Water Consumption Based Sewer Rates

*= Changed 7/22

