



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 has 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 consistance 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 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 <u>X</u> No <u> </u>
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 <u>X</u> No <u> </u> N/A <u> </u>
Existing Project?	Yes <u> </u> No <u>X</u> Upgrade/addition <u> </u> Change <u> </u> N/A <u> </u>

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) Caliaqua, 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)
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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	2	3	4	5	6	7	8	9	10	11	12
Agency	Estimated Average Daily Flow (MGD)	Net Offload For Padre Dam Project (MGD)	Projected Metro Flow 2050 (MGD)		COD Applied to 2050 Flows (mg/l)	COD Applied to 2050 Flows (lb/day)	Percent COD Contributed	SS Applied to 2050 Flows (mg/l)	SS Applied to 2050 Flows (lb/day)	Percent SS Contributed	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. Average Flow = Exhibit G – Diversion + Centrate Flow
 $= 7.8 \text{ MGD} - 6.6 \text{ MGD} + 0.094 \text{ MGD} = 1.29 \text{ MGD}$

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

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

8. Brine = 0.6 MGD

9. TSS = 2019 Audit Strength * (Non-Centrates Average Flow/2019 Audit Flow)
 + Centrate Strength * 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. COD = 2019 Audit Strength * (Non-Centrates Average Flow/2019 Audit Flow)
 + Centrate Strength * 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. Metered Flow = (2019 Audit Flow/365 days – Diversion) + Centrate Flow * 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. Brine = 0.27 MGD

3. TSS = 2019 Audit Strength * (Non-Centrates Metered Flow/2019 Audit Flow) + Centrate Strength * 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. COD = 2019 Audit Strength * (Non-Centrates Metered Flow/2019 Audit Flow) + Centrate Strength * 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. Average Flow = 2019 Audit Flow + 5% = 0.05 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (0.05 MGD * ~2.95) – 0.051 MGD
 = 0.1 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 0.051 MGD + 0.1 MGD
 = 0.15 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (0.01 MGD/0.05 MGD) * 56 1,000 lbs.
 = 59 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 18 MG/365 days
 = 0.05 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 56 1,000 lbs

4. COD = 2019 Audit Strength = 65 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (0.05 MGD/0.05 MGD) * 65 1,000 lbs.
 = 68 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. Average Flow = 2019 Audit Flow + 5% = 5.29 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (5.29 MGD * ~2.95) – 5.29 MGD
 = 10.3 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 5.29 MGD + 10.3 MGD
 = 15.59 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (5.29 MGD/5.03 MGD) * 4,446 1,000 lbs.
 = 4,668 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 1,838 MG/365 days
 = 5.03 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 4,446 1,000 lbs

4. COD = 2019 Audit Strength = 9,177 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (5.29 MGD/5.03 MGD) * 9,177 1,000 lbs.
 = 9,636 1,000 lbs

LAKE/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%

$$5. \text{ Average Flow} = \text{Exhibit G} - \text{Diversion} + \text{Centrate Flow} \\ = (0.08 + 5\% - 0.084) + 0.084 \text{ MGD} = 0.09 \text{ MGD}$$

$$6. \text{ Incremental Peak Flow} = (\text{Exhibit G} * \text{Peak Hour Demand Factor}) - \text{Diversion} - \text{Average Flow} \\ = ((0.09 \text{ MGD} + 5.9) * \sim 2.95) - 5.9 \text{ MGD} - 0.09 \text{ MGD} = 11.67 \text{ MGD}$$

$$7. \text{ Total Allowable Flow} = \text{Average Flow} + \text{Incremental Peak Flow} \\ = 0.09 \text{ MGD} + 11.67 \text{ MGD} = 11.76 \text{ MGD}$$

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

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

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

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

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

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

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

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. Average Flow = 2019 Audit Flow + 5% = 0.45 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (0.45 MGD * ~2.95) - 0.45 MGD
 = 0.88 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 0.45 MGD + 0.88 MGD
 = 1.33 MGD

8. Brine = 0 MGD

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

1. Metered Flow = 2019 Audit Flow/365 days
 = 156 MG/365 days
 = 0.43 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 1,110 1,000 lbs

4. COD = 2019 Audit Strength = 942 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (0.45 MGD/0.43 MGD) * 942 1,000 lbs.
 = 989 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. Average Flow = Exhibit G – Diversion + Centrate Flow
 $= (0.04 + 5\% - 0.036) + 0.036 \text{ MGD} = 0.04 \text{ MGD}$

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

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

8. Brine = 0.3 MGD

9. TSS = 2019 Audit Strength * (Non-Centrates Average Flow/2019 Audit Flow)
+ Centrate Strength * 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. COD = 2019 Audit Strength * (Non-Centrates Average Flow/2019 Audit Flow)
+ Centrate Strength * 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. Metered Flow = (2019 Audit Flow/365 days – Diversion) + Centrate Flow * 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. Brine = 0.14 MGD

3. TSS = 2019 Audit Strength * (Non-Centrates Metered Flow/2019 Audit Flow) + Centrate Strength * 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. COD = 2019 Audit Strength * (Non-Centrates Metered Flow/2019 Audit Flow) + Centrate Strength * 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. Average Flow = 2019 Audit Flow + 5% = 1.08 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (1.08 MGD * ~2.95) – 1.08 MGD
 = 2.11 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 1.08 MGD + 2.11 MGD
 = 3.19 MGD

8. Brine = 0 MGD

9. TSS = (Average Flow/Meter Flow) * Use TSS
 = (1.08 MGD/1.03 MGD) * 1,293 1,000 lbs.
 = 1,358 1,000 lbs

1. Metered Flow = 2019 Audit Flow/365 days
 = 376 MG/365 days
 = 1.03 MGD

2. Brine = 0 MGD

3. TSS = 2019 Audit Strength = 1,293 1,000 lbs

4. COD = 2019 Audit Strength = 1,904 1,000 lbs

10. COD = (Average Flow/Meter Flow) * Use COD
 = (1.08 MGD/1.03 MGD) * 1,904 1,000 lbs.
 = 1,999 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. Average Flow = 2019 Audit Flow + 5% = 124.05 MGD

6. Incremental Peak Flow = (Average Flow * Peak Hour Demand Factor) - Average Flow
 = (124.05 MGD * ~2.95) – 124.05 MGD
 = 241.76 MGD

7. Total Allowable Flow = Average Flow + Incremental Peak Flow
 = 124.05 MGD + 241.76 MGD
 = 365.82 MGD

8. Brine = 0 MGD

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

1. Metered Flow = 2019 Audit Flow/365 days
 = 43,123 MG/365 days
 = 118.14 MGD

2. Brine = 0 MGD (Put in separate Water category)

3. TSS = 2019 Audit Strength = 123,840 1,000 lbs

4. COD = 2019 Audit Strength = 240,779 1,000 lbs

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

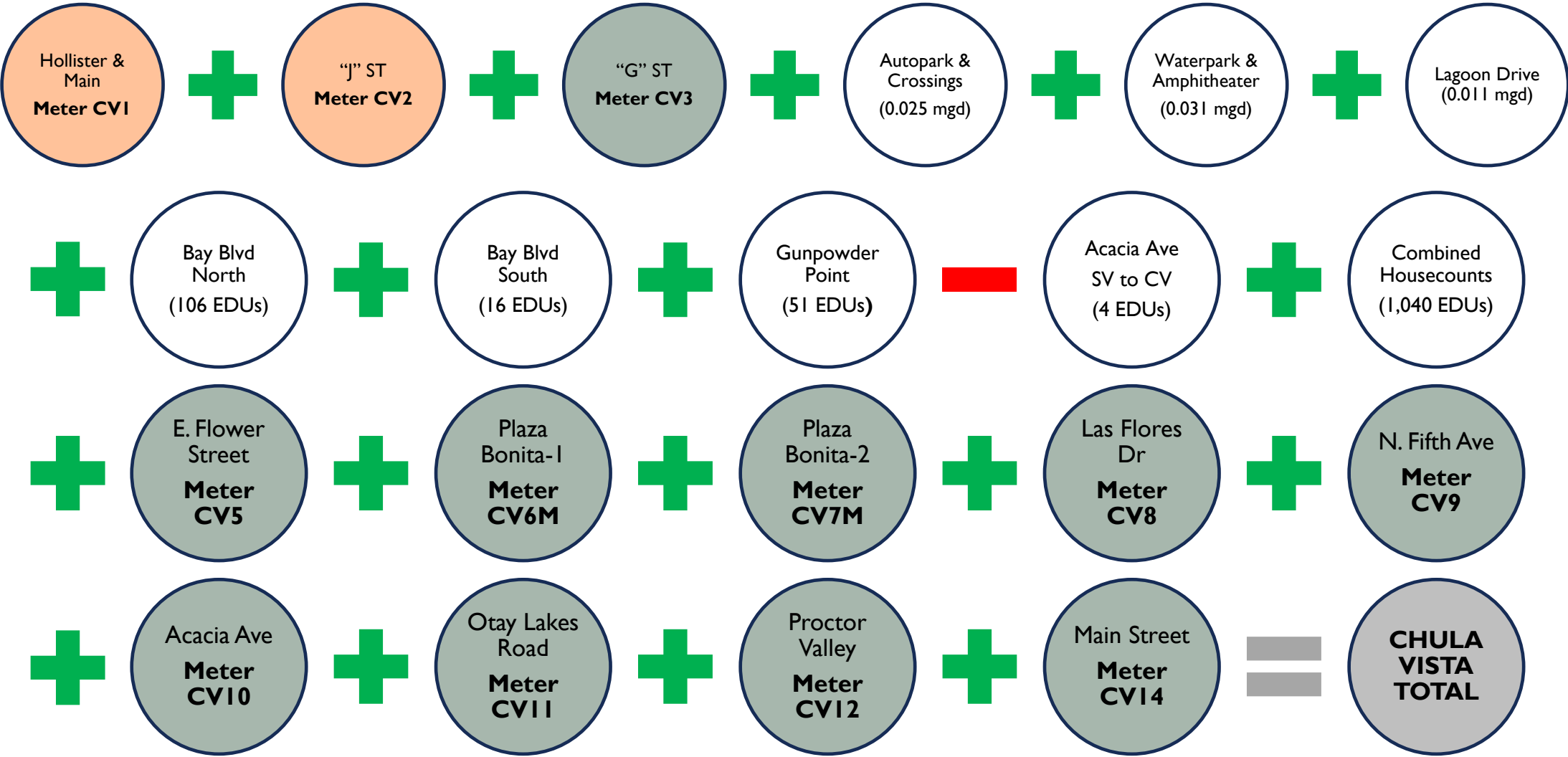
ATTACHMENT 6

PEAK FLOW BILLING FORMULAS

OCTOBER 2022

EXAMPLE PEAK FLOW CALCULATIONS FROM EXISTING METERING SYSTEM

CHULA VISTA



PROPOSED CHULA VISTA PEAK BILLING FORMULA

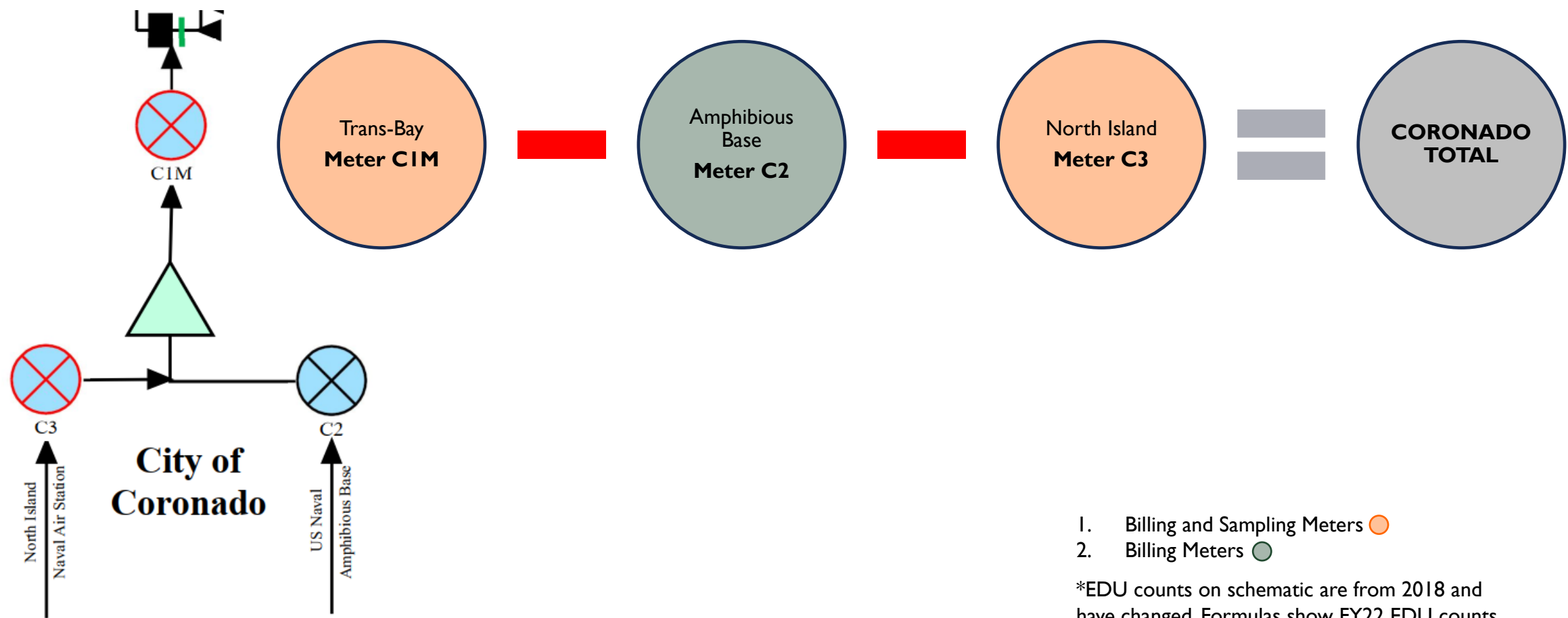
(USING 4/10/2020 FLOWS OR A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	+	+	+	+	+	+	+	+	+										+	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	-	+	+	+	+	+	+	+	+	+	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

$$48.2 \text{ mgd} * 0.85 \text{ (Attenuation Factor)} = 40.97 \text{ mgd}$$

$$\text{Peak Flow} - \text{Average Flow} = 40.97 \text{ mgd} - 16.95 \text{ mgd} = 24.02 \text{ mgd}$$

CORONADO



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

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

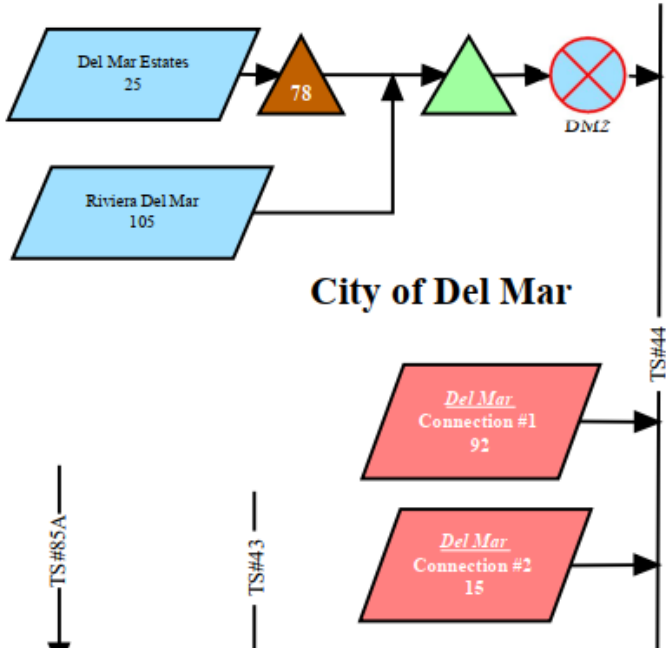
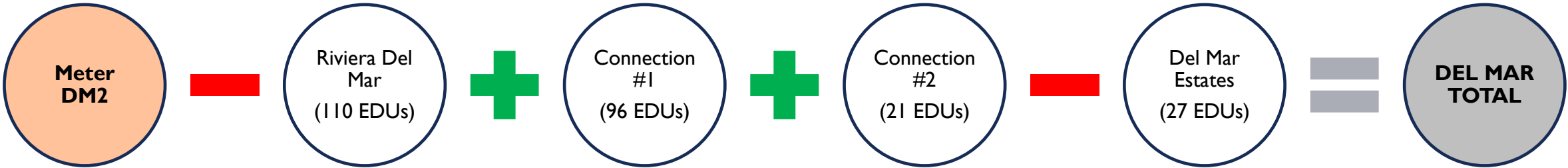
PROPOSED CORONADO PEAK BILLING FORMULA

+	-	-	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

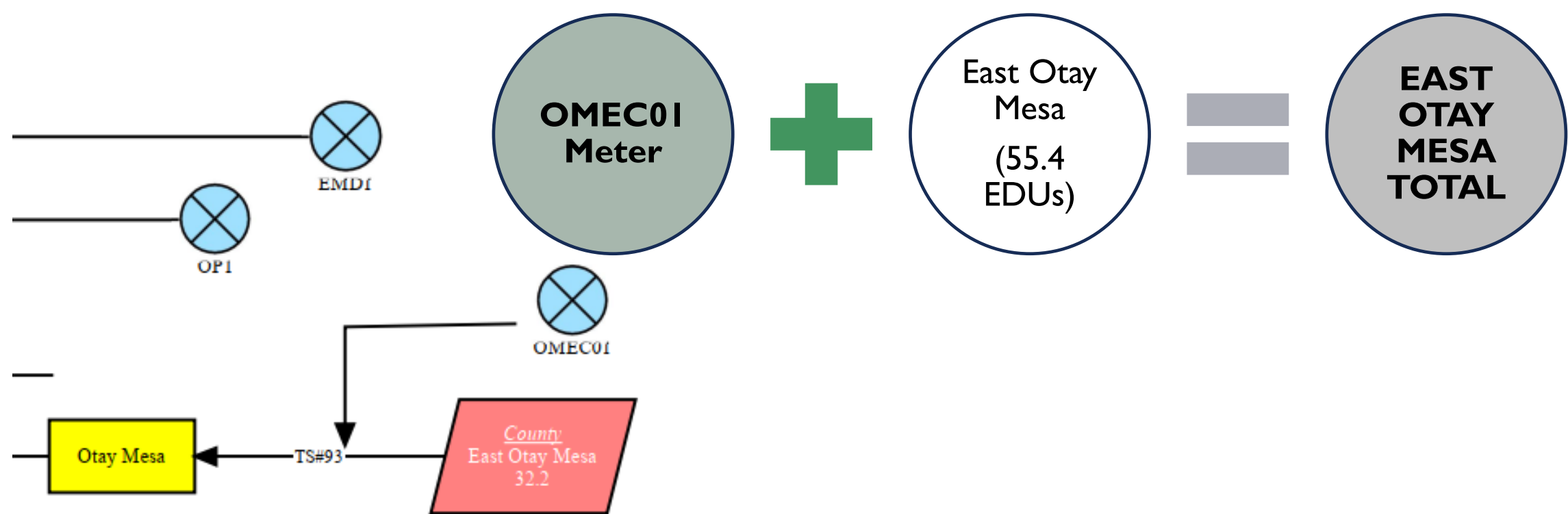
(USING A PEAKING FACTOR OF 3)

+	-	+	+	-	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	

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

Peak Flow – Average Flow = 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

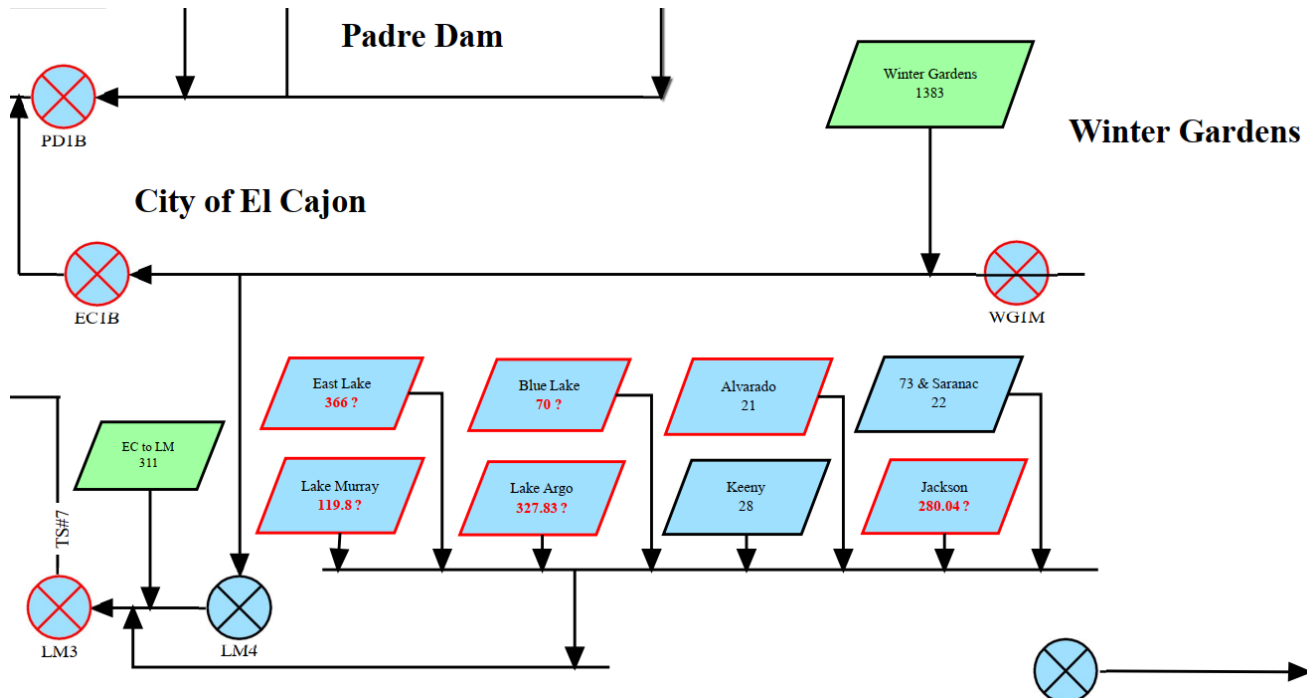
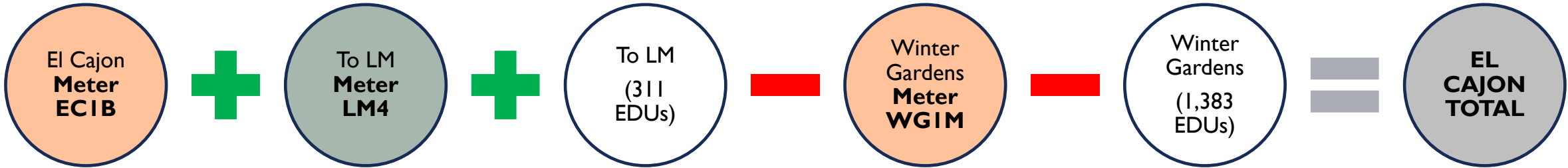
(USING A PEAKING FACTOR OF 3)(DAY OF SPILL)



+	+	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

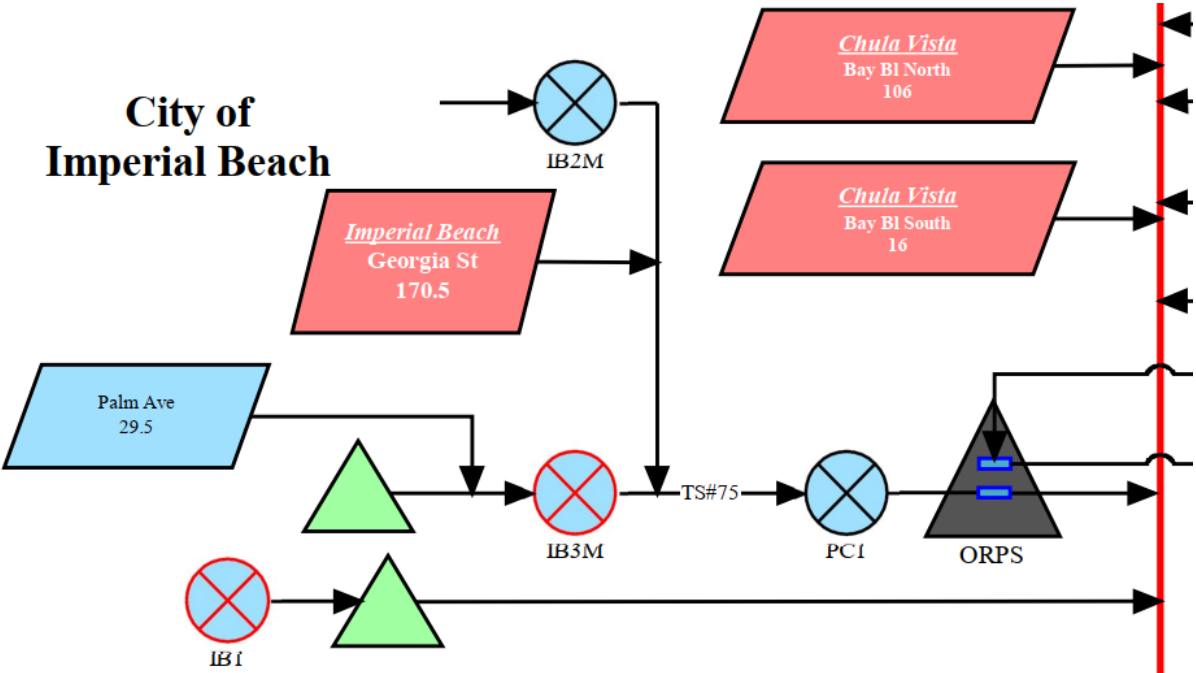
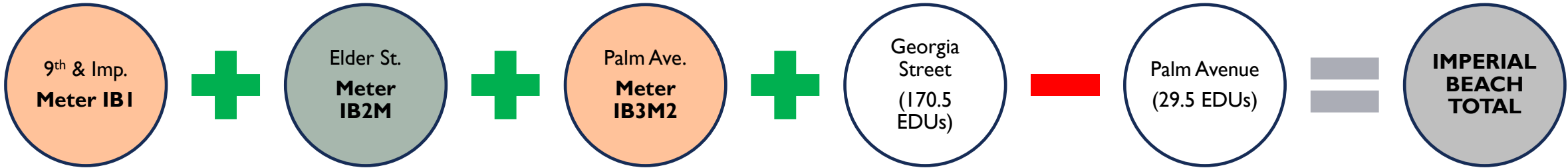
(USING A PEAKING FACTOR OF 3)

+	+	+	-	-	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

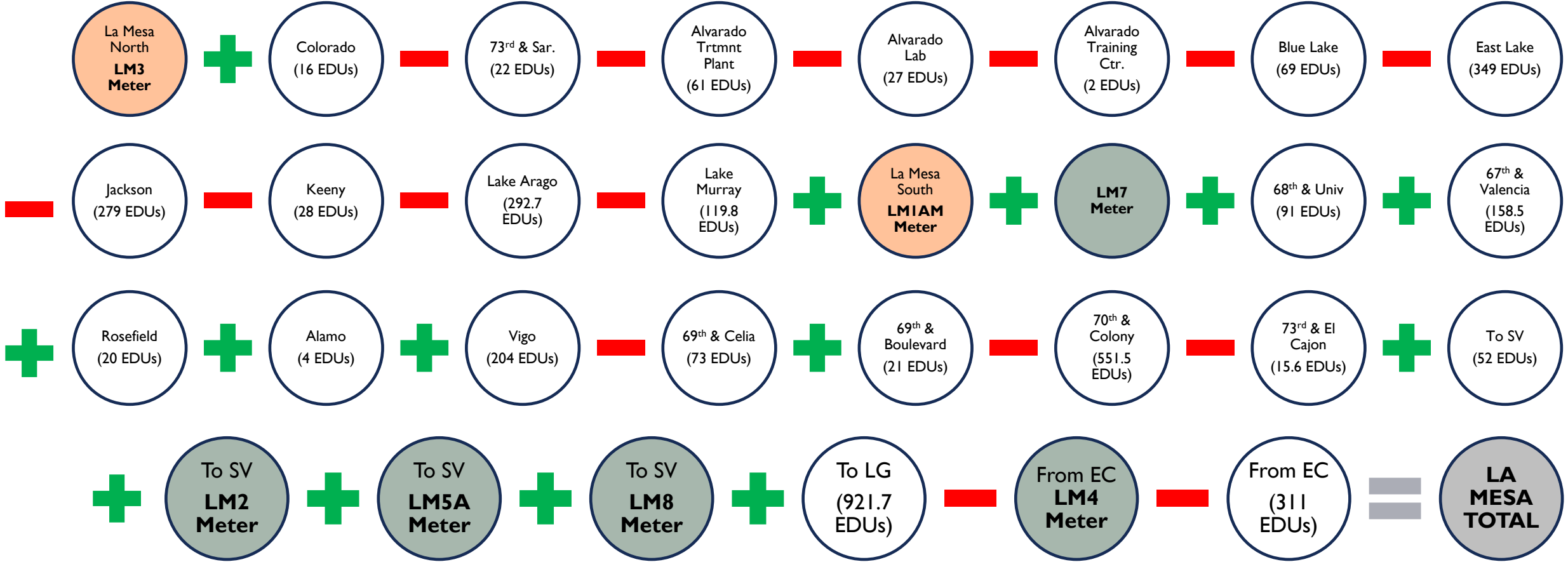
(USING A PEAKING FACTOR OF 3)

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

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

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

LA MESA



PROPOSED LA MESA PEAK BILLING FORMULA

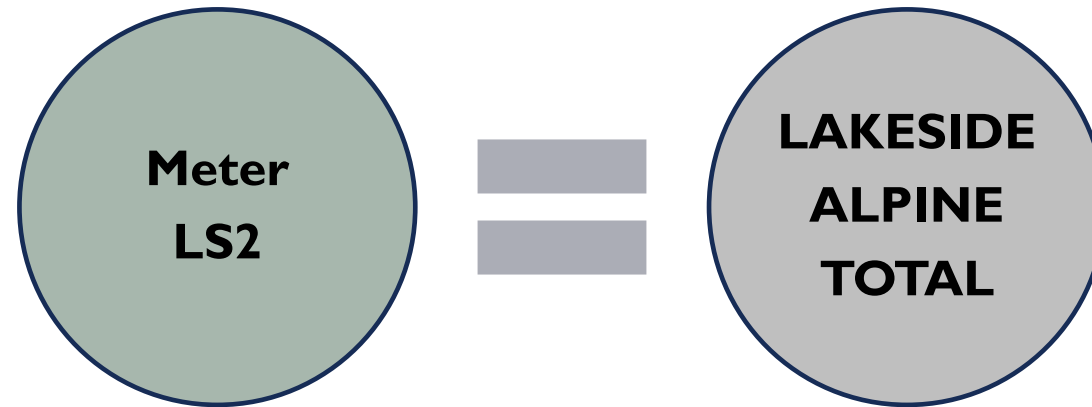
(USING A PEAKING FACTOR OF 3)

+	+	-	-	-	-	-	-	-	-	-	-	+	+	+	+	+	+	+	-	+	-	-	+	+	+	+	+	-	-	Total
La Mesa North	Colorado	73rd & Sar.	Alvarado Trtmt Plant	Alvarado Lab	Alvarado Training Ctr.	Blue Lake	East Lake	Jackson	Keeny	Lake Arago	Lake Murray	La Mesa South	Meter	68th & Univ	67th & Valencia	Rosefield	Alamo	Vigo	69th & Celia	69th & Boulevard	70th & Colony	73rd & 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	

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

Peak Flow – Average Flow = Incremental Peak Flow

LAKE SIDE/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

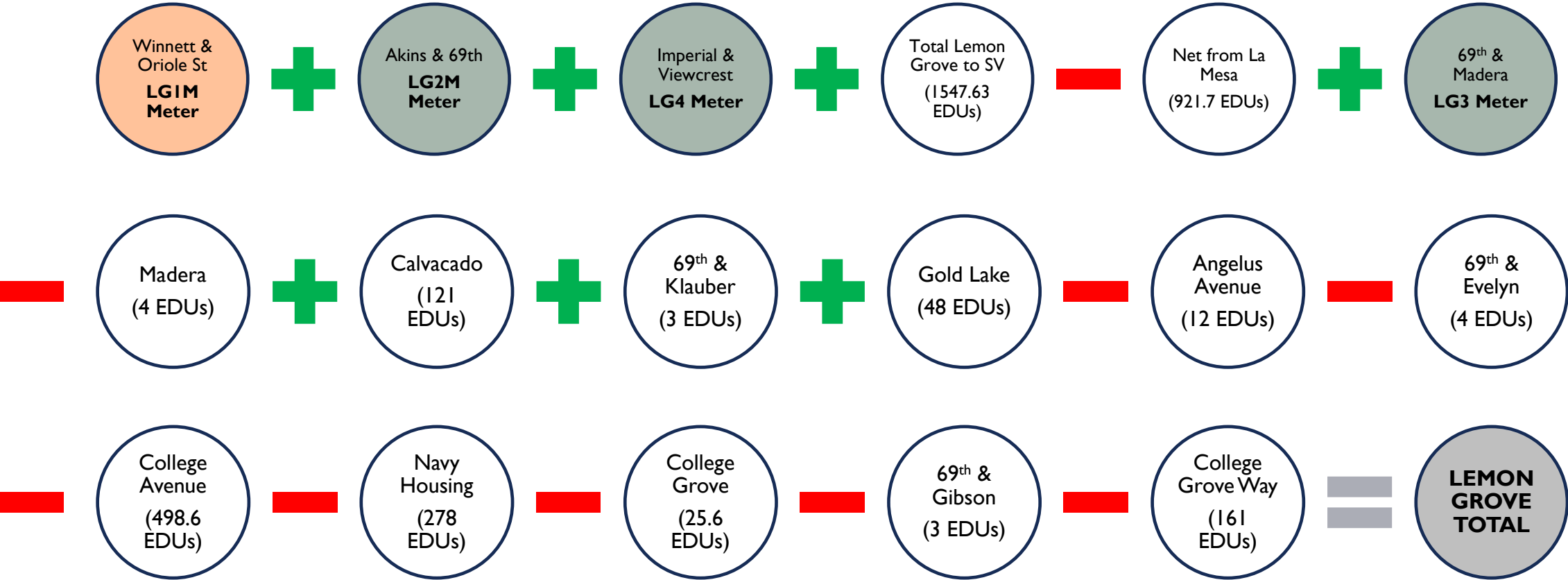
(USING A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	Total
Meter	-
LS2	-

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

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

LEMON GROVE



PROPOSED LEMON GROVE PEAK BILLING FORMULA

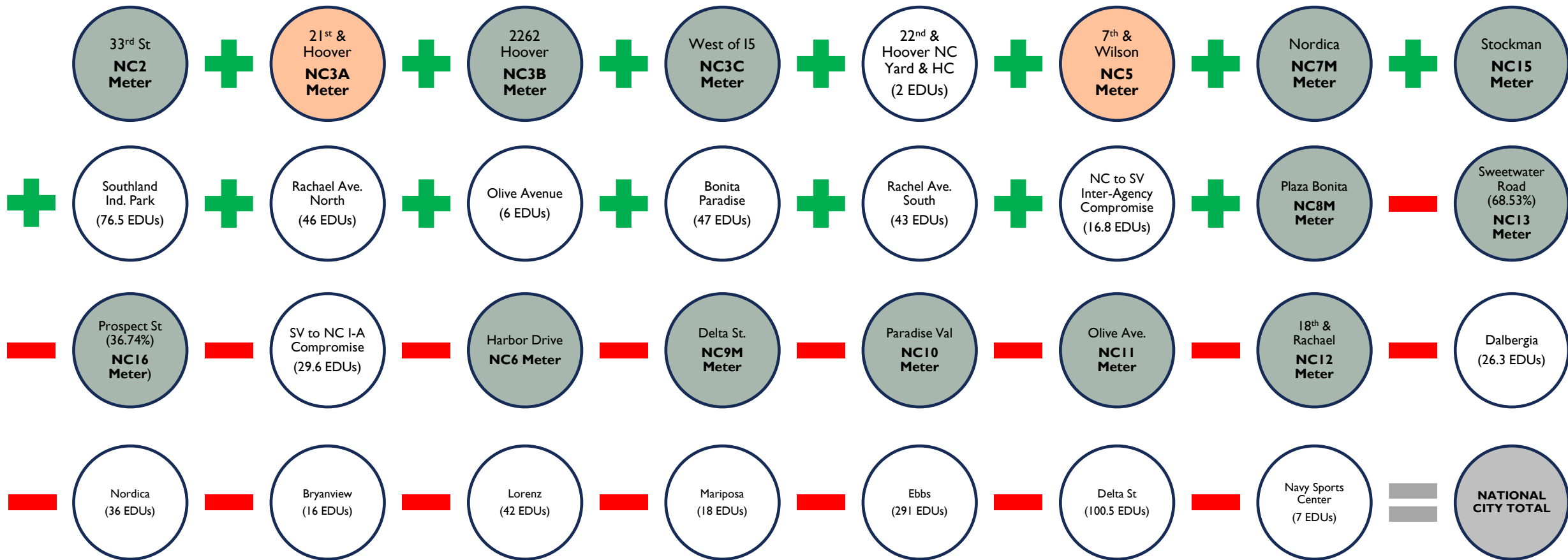
(USING 4/10/2020 FLOWS OR A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	+	+	+	-	+	-	+	+	+	-	-	-	-	-	-	-	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

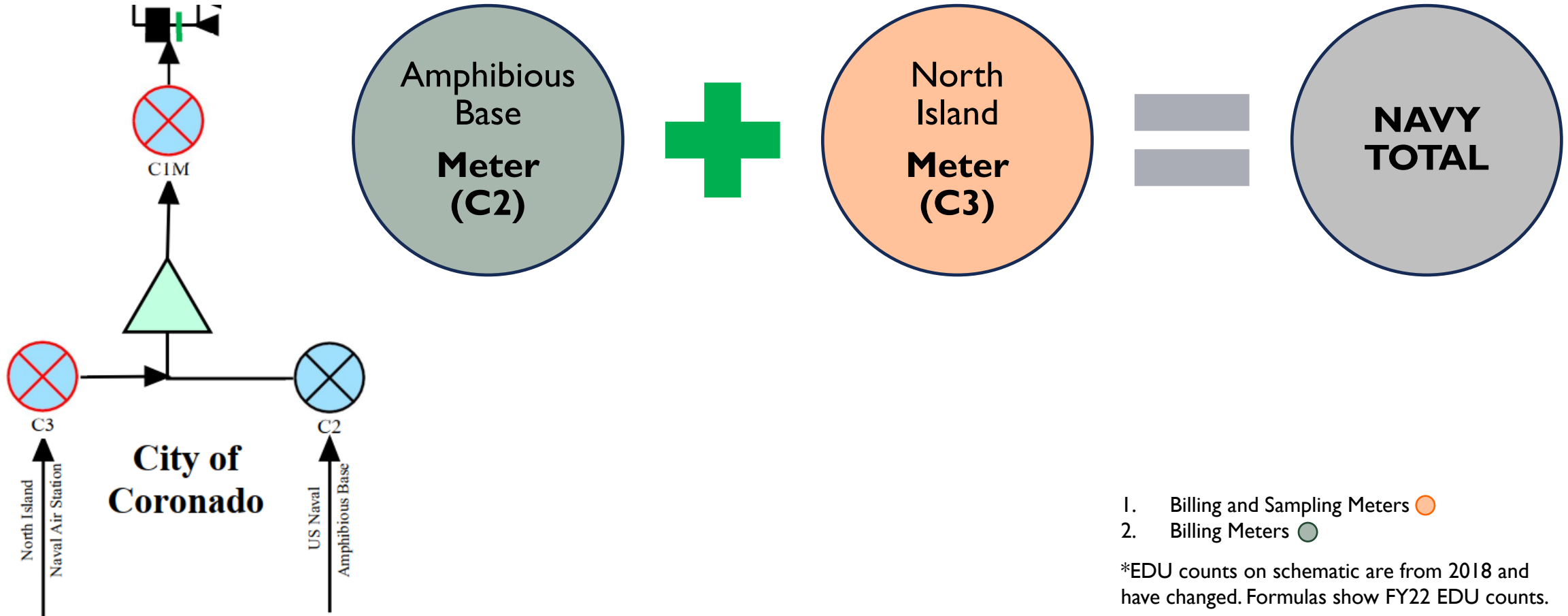
(USING A PEAKING FACTOR OF 3)

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Tot al	
33 rd St	21 st & Hoover	2262 Hoover	West of I5	22nd & Hoover NC Yard & HC	7th & Wilson	Nordica	Stockman	Southland Ind. Park	Rachael Ave. North	Olive Avenue	Bonita Paradise	Rachael Ave. South	NC to SV Inter-Agency Compromise	Plaza Bonita	Sweetwater Road (68.53 %)	Prospect St (36.74 %)	SV to NC I-A Compromise	Harbor Drive	Delta St.	Paradise Val	Olive Ave.	18th & Rachael	Dalbergia	Nordica	Bryanview	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	

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

Peak Flow – Average Flow = Incremental Peak Flow

NAVY



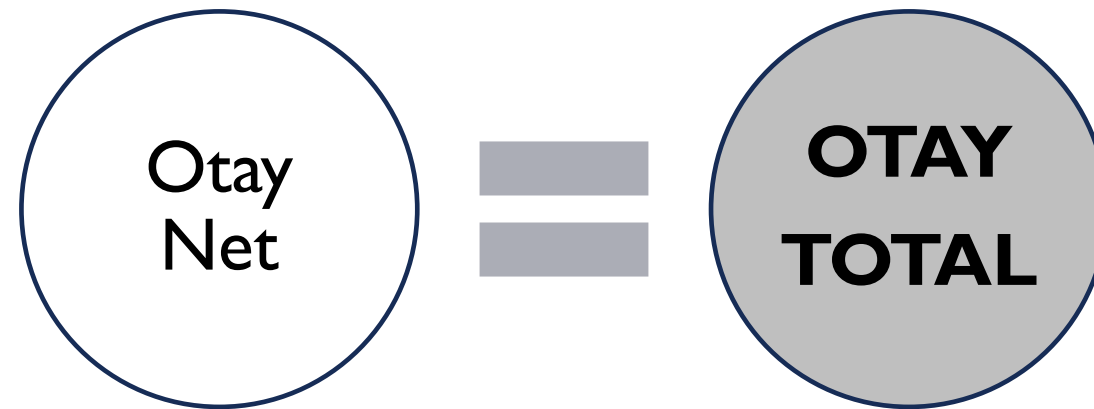
PROPOSED NAVY PEAK BILLING FORMULA

+	+	Total
Amphibious Base	North Island	-
C2	C3	-

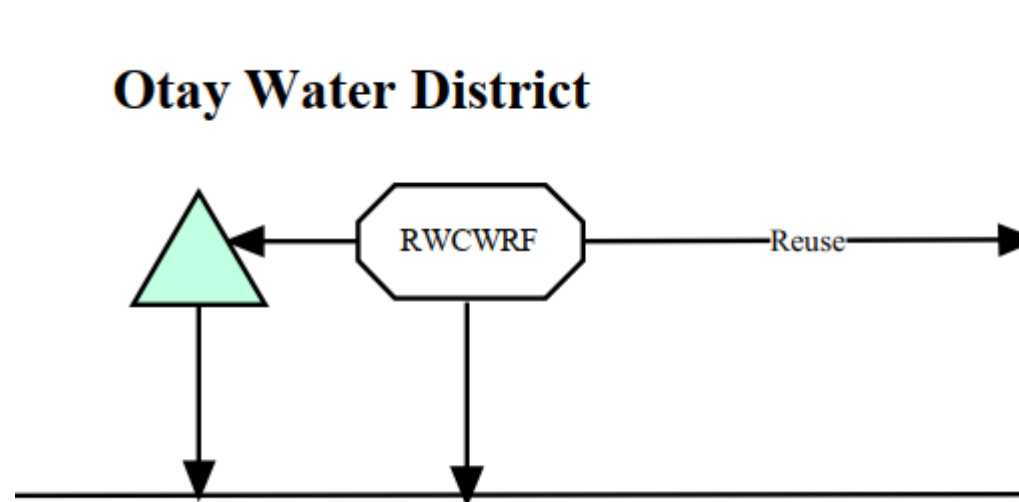
$(C2 + C3) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$

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

OTAY



Otay 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.

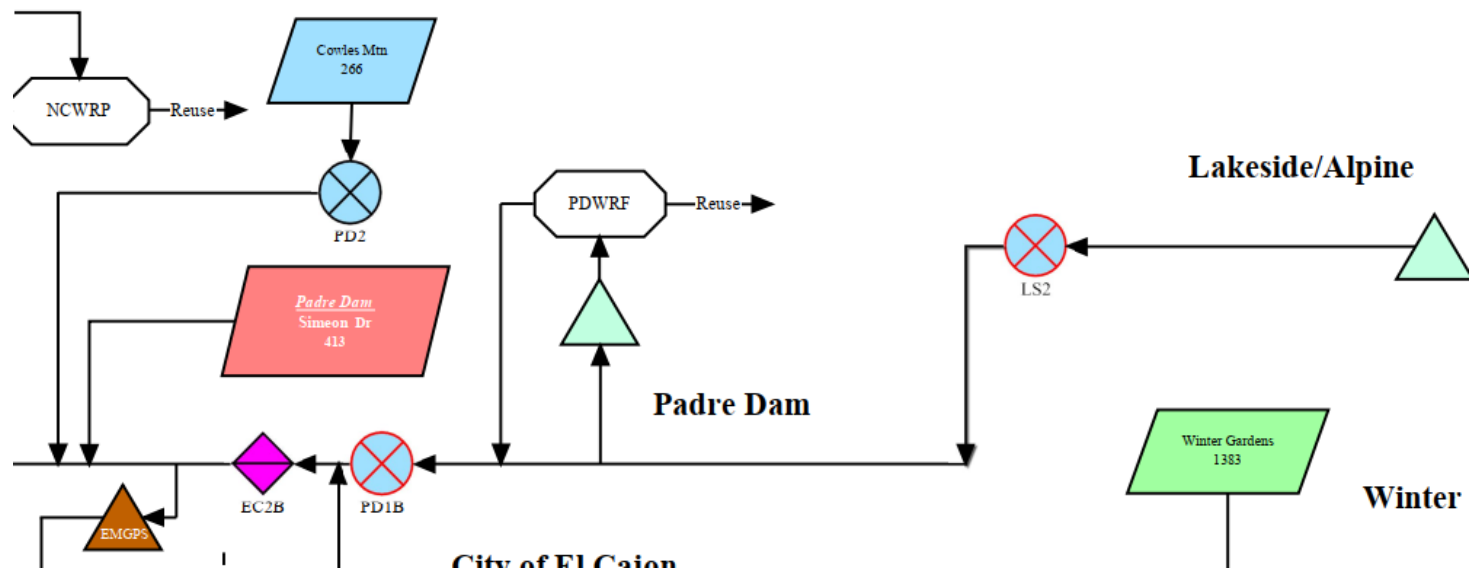
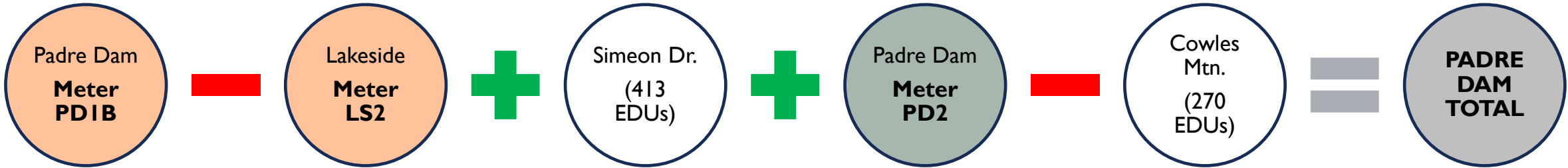
PROPOSED OTAY PEAK BILLING FORMULA

(USING A PEAKING FACTOR OF 3)

+	Total
Otay Net	-

$\text{Otay Net} * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$
 $\text{Peak Flow} - \text{Average Flow} = \text{Incremental Peak Flow}$

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

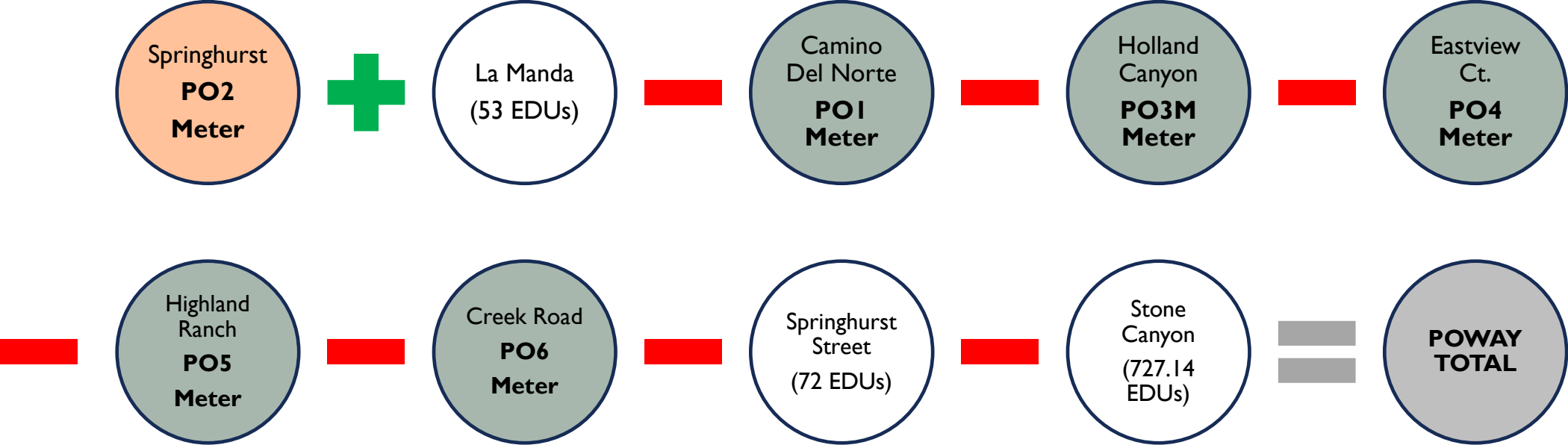
(USING A PEAKING FACTOR OF 3)(DAY OF SPILL)

+	-	+	+	-	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	

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

Peak Flow – Average Flow = Incremental Peak Flow

POWAY



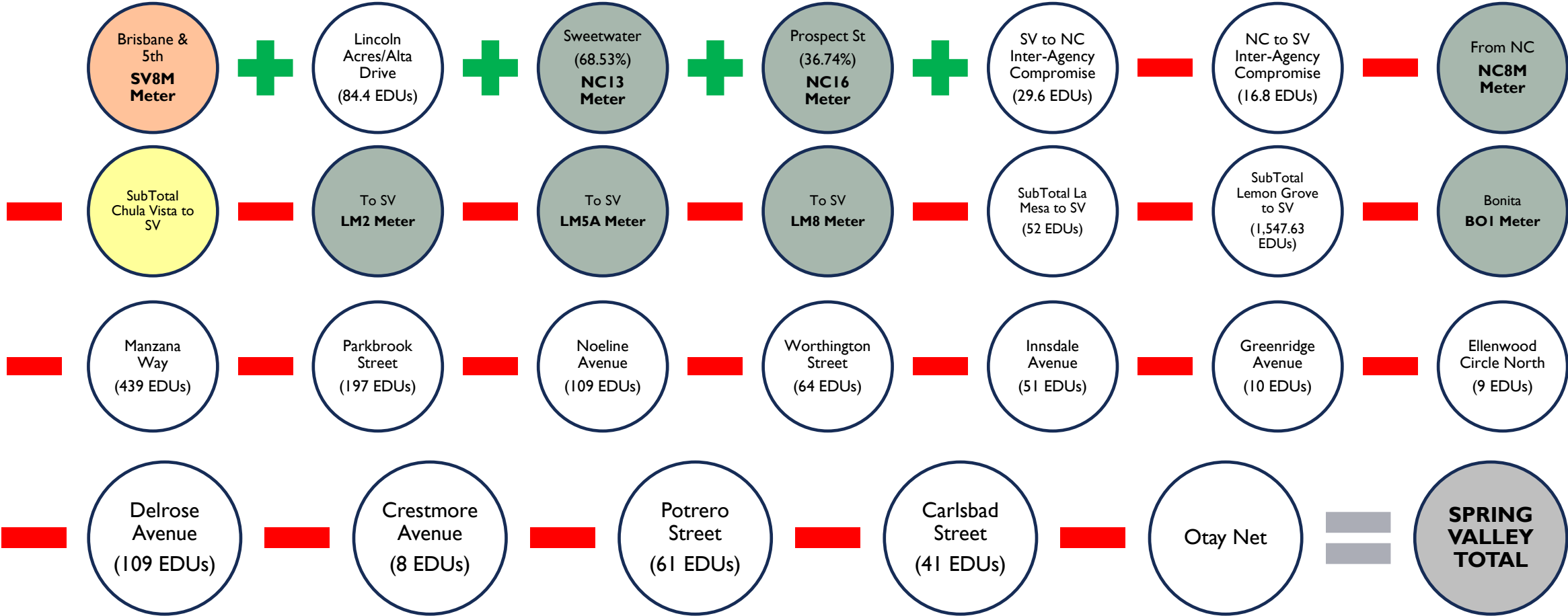
PROPOSED POWAY PEAK BILLING FORMULA

(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	

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

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

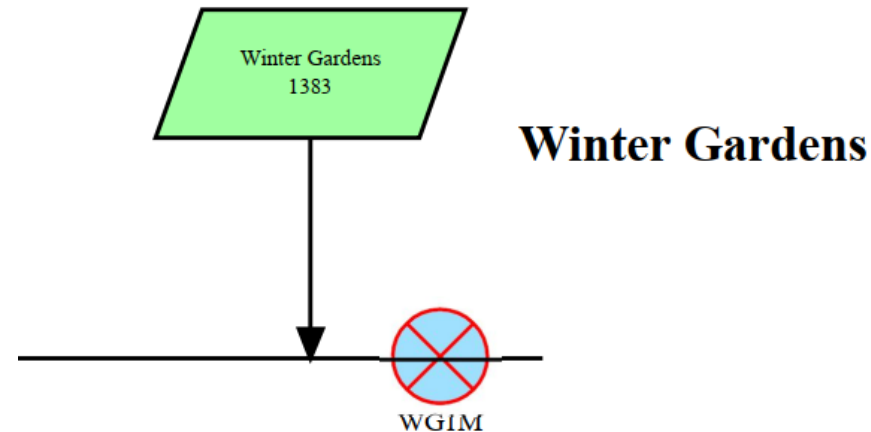
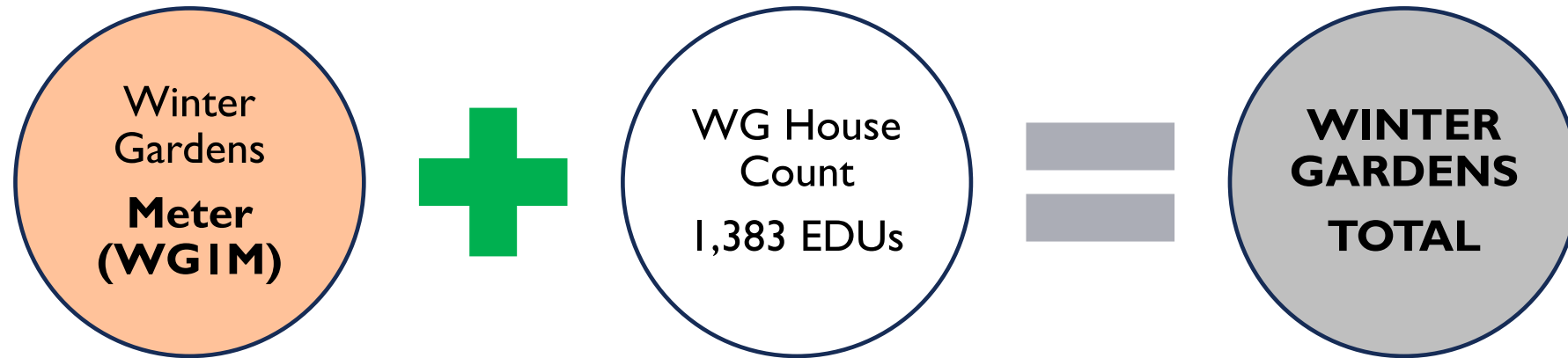
(USING A PEAKING FACTOR OF 3)

+	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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	Manzanilla Way	Parkbrook Street	Noeline Avenue	Worthington Street	Innsdale Avenue	Greenridge Avenue	Ellenwood Circle North	Delros 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

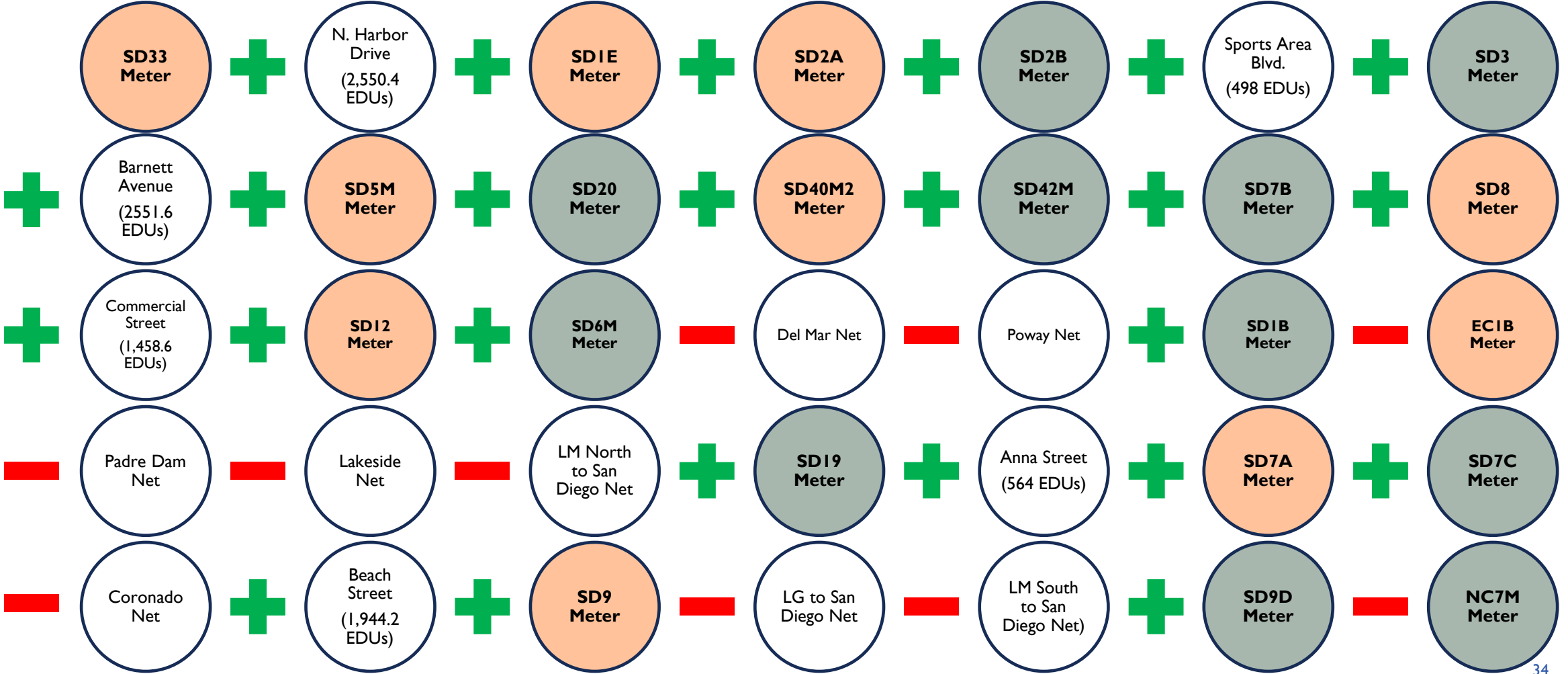
(USING A PEAKING FACTOR OF 3)

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

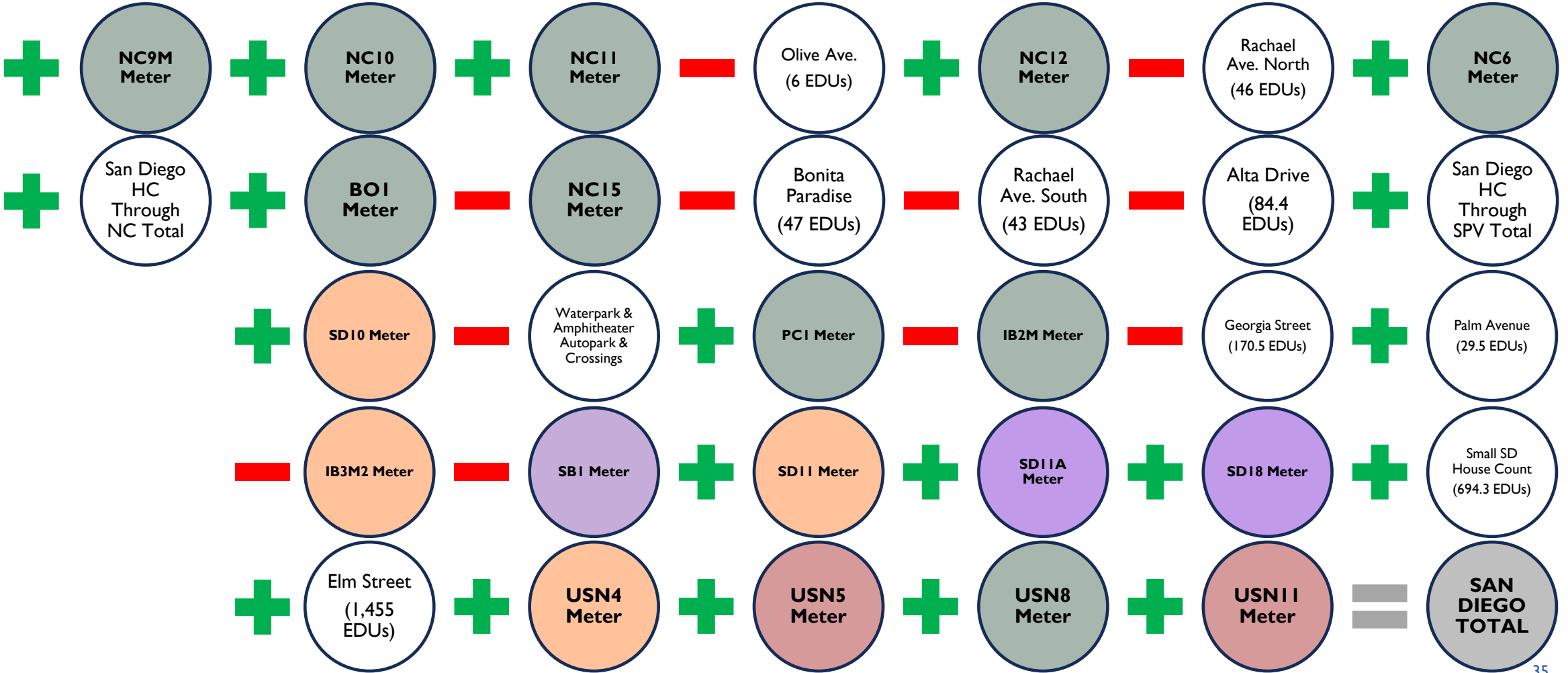
$(WGIM + 1.00) * 0.85$ (Attenuation Factor) = Peak Flow

Peak Flow – Average Flow = 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	Rachael Ave. North	Meter	San Diego HC Through NC Total	Meter	Meter	Bonita Paradise	Rachael 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	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)

$(SD33 + 1.84 \text{ mgd} + SD1E + SD2A + SD2B + 0.36 + SD3 + 1.84 + SD5M + SD20 + SD40M2 + SD42M + SD7B + SD8 + 1.05 + SD12 + SD6M - \text{Del Mar} - \text{Poway} + SD1B - EC1B - \text{Padre Dam} - \text{Lakeside} - \text{LM North to SD} + SD19 + 0.41 + SD7A + SD7C - \text{Coronado} + 1.4 + SD9 - \text{LG to SD} - \text{LM South to SD} + SD9D - NC7M + NC9M + NC10 + NC11 - 0.004 + NC12 - 0.03 + NC6 + \text{SD HC through NC} + BO1 - NC15 - 0.03 - 0.03 - 0.06 + \text{SD HC through SPV} + SD10 - \text{Waterpark \& Amphitheater Autopark \& Crossings} + PC1 - IB2M - 0.12 + 0.02 - IB3M2 - SBI + SD11 + SD11A + SD18 + 0.5 + 1.05 + USN4 + USN5 + USN8 + USN11) * 0.85 \text{ (Attenuation Factor)} = \text{Peak Flow}$

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

