



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: Metro TAC Representatives and Metro Commissioners

DATE: Wednesday, March 16, 2011

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

LOCATION: MWWD, 9192 Topaz Way, (MOCII Auditorium) – Lunch will be provided

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

1. Review and Approve MetroTAC Action Minutes for the Meeting of [February 16, 2011](#) (**Attachment**)
2. Metro Commission/JPA Board Meeting Recap (Standing Item)
3. Financial Update (Karyn Keese)
4. Metro Wastewater Update
5. MetroTAC Work Plan (Detailed Review) (**Attachment**)
6. Strategic Planning Workshop
7. METRO JPA Policy
8. Recycled Water Study Update (Gipson)
9. Transportation Agreement (Standing Item)
10. Review of Items to be Brought Forward to the Metro Commission/Metro JPA Meeting of [April 7, 2011](#).
11. Other Business of Metro TAC
12. **CLOSED SESSION: Recycle Revenue Issue**
13. Adjournment ([To the next Regular Meeting, April 20, 2011](#))

Metro TAC 2011 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

AGENDA ITEM 1

Attachment

Metro TAC
(Technical Advisory Committee to Metro JPA)

ACTION MINUTES

DATE OF MEETING: February 16, 2011
TIME: 11 AM
LOCATION: MWWD, MOC II, Auditorium

MEETING ATTENDANCE:

Frank Rivera, Chula Vista
Scott Huth, Coronado
Dan Brogadir, County of San Diego
David Scherer, Del Mar
Dennis Davies, El Cajon
Chris Helmer, Imperial Beach
Erin Bullers, La Mesa
Joe Smith, National City
Rita Bell, Otay Water District
Bob Kennedy, Otay Water District
James Peasley, Otay Water District
Mark Robak, Otay Water District
Augie Caires, Padre Dam MWD
Karen Jassoy, Padre Dam MWD

Al Lau, Padre Dam MWD
Kristen Crane, Poway
Tom Howard, Poway
Amer Barhoumi, City of San Diego
Guann Hwang, City of San Diego
Lee Ann Jones-Santos, City of San Diego
Peggy Merino, City of San Diego
Rey Novencido, City of San Diego
Edgar Patino, City of San Diego
Marissa Perez, City of San Diego
Jamie Richards, City of San Diego
Dean Gipson, PBS&J
Karyn Keese, PBS&J

1. **Review and Approve MetroTAC Action Minutes for the Meeting of January 19, 2011**
 - Minutes were approved
2. **Metro Commission/JPA Board Meeting Recap**
 - IROC annual plan will be issued in March
 - Strategic Workshop is planned for May 5, 2011 in Coronado
 - Lori Peoples was elected to Secretary of the JPA Board
3. **Financial Update**
 - Karen Jassoy, of PDMWD, introduced as the new JPA treasurer
4. **Metro Wastewater Update**
 - The City is reviewing the data provided by PDMWD for the overbilling of solids; the City wants to discuss with a small committee to determine options and solutions; TAC members to participate in this committee include:
 - Al Lau, PDMWD
 - Dan Brogadir, County of San Diego
 - City of San Diego staff
 - The City has collected all the data requested by OWD and Karyn Keese; the City is now reviewing prior to sending

ACTION: *City of San Diego to convene meeting of subcommittee meeting*

5. MetroTAC Work Plan (Standing Item)

- Eric Minicilli's name to replace David Scherer's name
- Al Lau to participate on the Advanced Water Purification Demonstration Project subcommittee
- Various updates made to items as noted in the updated work plan

6. JPA Mid-Year Financial Statements Update

- Mid-year balance sheet is positive

7. Update and Status of PBS&J 2011 Contract

- All tasks are on target except for:
 - Recycled Water Study Support: overage due to the following unbudgeted items:
 - Attendance at coarse and fine screening workshops
 - Meetings with the PAs to discuss alternatives
 - Preparation of alternatives memoranda
 - Direct costs associated with finance committee meetings
- If expenditures trend as they have for the first 6 months, PBS&J anticipates that a \$10,000 amendment will be required
- Currently there is sufficient money in the PBS&J budget; if items previously anticipated are not required, an amendment may not be required

8. Recycled Water Sales Update

- Handout provided (attached)
- Karyn Keese and Rita Bell presented information gathered from the SDCWA showing recycled water sales and beneficial reuse for NCWRP and SBWRP
- The beneficial reuse at SBWRP seems high; City of San Diego to review and report back

ACTION: *City of San Diego to review numbers for SBWRP and NCWRP and report on numbers provided at this meeting OR provide updated numbers*

ACTION: *Add this item to the March 2011 MetroTAC Agenda*

9. FYE 2009 Exhibit E Audit Reconciliation

- Handout provided
- 2009 is the only year that the budget was scaled back to \$57M from \$65M to account for the one-time adjustment
- Audited numbers are about \$1M higher than budgeted
- Flows went down from projected so the cost per unit went up
 - Reductions due to: conservation, water price increases, vacancy rates, economic hardships
 - Lower water use is visibly impacting sewer use

10. FYE 2010 Operations Reserve Adjustment

- Handout provided
- Operations Reserve calculations to determine FYE 2010 adjustment will include the Operations Reserve increase

- CofSD intends to carry forward the interest for 1 year (this requires approval from the auditors)
- Interest is LAIF rate; CofSD uses the monthly rate and keeps a summary total every month

11. MWWD FY2010 Budget

- Mayor will release the FYE2012 budget on 4/15/11, so all information below is based on estimates

12. MWWD CIP Projects for FY 2012-2013

- Handout provided

13. FY 2010 Estimated Billing

- Handouts dated 1/13/11 have been mailed to the PAs
- Handouts dated 2/9/11 are updated to show adjustments in allocations due to revisions to the County's flows

14. Recycled Water Study Update

- Comments on TM#5 are due to Dean Gipson by Monday, 2/21/11
- TM#8, Financials and Revenue, will be issued in mid-to-late March 2011
- Final draft report will be issued in Mid April 2011
- At the last summary update meeting, TAC reached out to the environmental stakeholders to attend a MetroTAC and/or a JPA meeting

15. Transportation Agreement

- No update

16. Review of Items to be Brought Forward to the Metro Commission/Metro JPA Meeting of March 3, 2011

- No items

17. Other Business of Metro TAC

- none

18. Adjournment (To the Next Regular Meeting, March 16, 2011)

**MetroTAC
 Participating Agencies Selection Panel Rotation**

Agency	Representative	Selection Panel	Date Assigned
Padre Dam	Neal Brown	IRWMP – Props 50 & 84 Funds	2006
El Cajon	Dennis Davies	Old Rose Canyon Trunk Sewer Relocation	9/12/2007
La Mesa	Greg Humora	As-Needed Piping and Mechanical	11/2007
National City	Joe Smith	MBC Additional Storage Silos	02/2008
Otay Water District	Rod Posada	As-Needed Biological Services 2009-2011	02/2008
Poway	Tom Howard	Feasibility Study for Bond Offerings	02/2008
County of San Diego	Dan Brogadir	Strategic Business Plan Updates	02/2008
Coronado	Scott Huth	Strategic Business Plan Updates	09/2008
Coronado	Scott Huth	As-needed Financial, HR, Training	09/2008
PBS&J	Karyn Keese	As-needed Financial, Alternate HR, Training	09/2008
Otay Water District	Rod Posada	Interviews for Bulkhead Project at the PLWTP	01/2009
Del Mar	David Scherer	Biosolids Project	2009
Padre Dam	Neal Brown	Regional Advisory Committee	On-going
County of San Diego	Dan Brogadir	Large Dia. Pipeline Inspection/Assessment	10/2009
Chula Vista	Roberto Yano	Sewer Flow Monitoring Renewal Contract	12/2009
La Mesa	Greg Humora	Sewer Flow Monitoring Renewal Contract	12/2009
Poway	Tom Howard	Fire Alarm Panels Contract	12/2009
El Cajon	Dennis Davies	MBC Water System Improvements D/B	01/2010
Lemon Grove	Patrick Lund	MWWD Inventory Management Training	07/2010
Chula Vista	Roberto Yano	PUD Strategic Plan Update	08/2010
Del Mar	David Scherer	PUD Strategic Plan Update	08/2010
Coronado	Scott Huth	Allocation of Revenues from South Bay WRP	10/2010
National City	Joe Smith		
Otay Water District	Rod Posada		
Padre Dam	Al Lau		
County of San Diego	Dan Brogadir		
Chula Vista	Roberto Yano		
La Mesa	Greg Humora		
Poway	Tom Howard		
El Cajon	Dennis Davies		
Lemon Grove	Patrick Lund		
Chula Vista	Roberto Yano		
Del Mar	Eric Minicilli		
Coronado	Scott Huth		

Updated 2/2011

**MetroTAC
2010/2011 Work Plan**

MetroTAC Items	Description	Subcommittee Member(s)
Lateral Issues	Sewer laterals are owned by the property owners they serve, yet laterals often allow infiltration and roots to the main lines causing maintenance issues. As this is a common problem among PAs, the MetroTAC will gather statistics from national studies and develop solutions.	Tom Howard Joe Smith
Advanced Water Purification Demonstration Project	San Diego engaged CDM to design/build/operate the project for the water repurification pilot program. <i>2/8/11: Equipment to arrive 3/2011; tours will be held when operational (June/July 2011 timeframe)</i>	Al Lau
Fiscal Items	The Finance committee will continue to monitor and report on the financial issues affecting the Metro System and the charges to the PAs. The debt finance and reserve coverage issues have been resolved. Refunds totaling \$12.3 million were sent to most of the PA's.	Greg Humora Scott Huth Karen Jassoy Karyn Keese
Recycled Water Revenue Issue	Per our Regional wastewater Agreement revenues from SBWTP are to be shared with PA's. San Diego has not met the terms of the agreement and there are revenues owed the PA's. <i>2/2011: Staff is scheduled to meet with San Diego Staff on 3/3/11 to discuss issue.</i>	Scott Huth Scott Tulloch Karyn Keese
Water Reduction - Impacts on Sewer Rates	The MetroTAC wants to evaluate the possible impact to sewer rates and options as water use goes down, and consequently the sewer flows go down, reducing sewer revenues. Sewer strengths are also increasing because of less water to dilute the waste. We are currently monitoring the effects of this. <i>2/2011: wastewater revenues are declining due to conservation and flow reductions and agencies are re-prioritizing projects to be able to cover annual operations costs</i>	Eric Minicilli Manny Magaña Karyn Keese
"No Drugs Down the Drain"	The state has initiated a program to reduce pharmaceuticals entering the wastewater flows. There have been a number of collection events within the region. The MetroTAC, working in association with the Southern California Alliance of Publicly-owned Treatment Works (SCAP), will continue to monitor proposed legislation and develop educational tools to be used to further reduce the amount of drugs disposed of into the sanitary sewer system. <i>8/2010: County Sheriff and Chula Vista have set up locations for people to drop off unwanted medications and drugs.</i>	Greg Humora Dean Gipson
Flushable Items that do not Degrade	Several PAs have problems with flushable products, such as personal wipes, that do not degrade and cause blockages. MetroTAC is investigating solutions by other agencies, and a public affairs campaign to raise awareness of the problems caused by flushable products. We are also working with SCAP in their efforts to help formulate state legislation to require manufacturers of products to meet certain criteria prior to labeling them as "flushable." Follow AB2256 and offer support.	Eric Minicilli Dean Gipson
Grease Recycling	To reduce fats, oils, and grease (FOG) in the sewer systems, more and more restaurants are being required to collect and dispose of cooking grease. Companies exist that will collect the grease and turn it into energy. MetroTAC is exploring if a regional facility offers cost savings for the PAs. The PAs are also sharing information amongst each other for use in our individual programs.	Eric Minicilli Dean Gipson
"Power Tariff"	Power companies are moving to a peak demand pricing scheme which negatively impacts PAs with pump stations and other high energy uses. MetroTAC wants to evaluate the new legislation and regulations, and to identify and implement cost savings efforts for the PAs. <i>(8/2010): John Helminski at the City of San Diego is working on a sustainability project for CoSD</i>	Tom Howard Paula de Sousa

MetroTAC Items	Description	Subcommittee Member(s)
Recycled Water Study	As part of the secondary waiver process, San Diego agreed to perform a recycled water study within the Metro service area. That study is currently underway, and MetroTAC has representatives participating in the working groups. 8/2010: Al Lau and Dean Gipson attended the Coarse Screening Workshop in August 2010. <i>2/2011: The next Status Update Meeting is 3/29/11; final draft report expected in April 2011</i>	Scott Huth Al Lau Dean Gipson
Recycled Water Rate Study	San Diego is working on a rate study for pricing recycled water from the South Bay plant and the North City plant. MetroTAC, in addition to individual PAs, have been engaged in this process and have provided comments on drafts San Diego has produced. We are currently waiting for San Diego to promulgate a new draft which addresses the changes we have requested. 8/2010: draft study is expected in September 2010. <i>2/2011: draft study still not issued</i>	Karyn Keese Scott Huth
Metro JPA Strategic Initiatives	MetroTAC to develop success measures for the JPA strategic initiatives and suggest a schedule to complete certain items.	Scott Huth Dan Brogadir Dean Gipson
Salt Creek Diversion	9/2010: OWD, Chula Vista and San Diego met to discuss options and who will pay for project; Chula Vista and OWD are reviewing options. <i>2/2011: OWD and PBS&J reviewed calculations with CoSD staff; San Diego to provide backup data for TAC to review</i>	Roberto Yano Manny Magaña Karyn Keese
Board Members' Items		
Metro JPA Strategic Plan	<i>2/2011: committee to meet 2/28/11 to plan for retreat to be held on 5/5/11</i>	Augie Caires Ernie Ewin Mark Robak
Rate Case Items	San Diego is starting the process for their next five-year rate case. As part of that process, MetroTAC and the Finance Committee will be monitoring the City's proposals as we move forward.	Karyn Keese
Schedule E	MetroTAC and the Finance Committee are active and will monitor this process. Individual items related to Schedule E will come directly to the Board as they develop.	Karen Jassoy Karyn Keese
Future bonding	MetroTAC and the Finance Committee are active and will monitor this process. Individual items related to bonding efforts will come directly to the Board as they develop.	Karen Jassoy Karyn Keese
Changes in water legislation	MetroTAC and the Board should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues	Paula de Sousa
Role of Metro JPA regarding Recycled Water	As plans for water reuse unfold and projects are identified, Metro JPA's role must be defined with respect to water reuse and impacts to the various regional sewer treatment and conveyance facilities	Scott Huth Dean Gipson
Border Region	Impacts of sewer treatment and disposal along the international border should be monitored and reported to the Board. These issues would directly affect the South Bay plants on both sides of the border.	
IROC Performance Audits	Work with IROC to identify areas to be audited; participate in audit process. 8/2010: provide the top 5 areas to audit by September IROC meeting	Augie Caires

Completed Items	Description	Subcommittee Member(s)
Debt Reserve and Operating Reserve Discussion	In March 2010, the JPA approved recommendations developed by Metro JPA Finance Committee, MetroTAC, and the City of San Diego regarding how the PA's will fund the operating reserve and debt financing. MetroTAC has prepared a policy document to memorialize this agreement. Project complete: 4/10	Scott Huth Karyn Keese
State WDRs & WDR Communications Plan	The Waste Discharge Requirements (WDRs), a statewide requirement that became effective on May 2, 2006, requires all owners of a sewer collection system to prepare a Sewer System Management Plan (SSMP). Agencies' plans have been created. We will continue to work to meet state requirements, taking the opportunity to work together to create efficiencies in producing public outreach literature and implementing public programs. Project complete: 5/10	Dennis Davies Patrick Lund
Ocean Maps from Scripps	Schedule a presentation on the Sea Level Rise research by either Dr. Emily Young, San Diego Foundation, or Karen Goodrich, Tijuana River National Estuarine Research Reserve Project complete: 5/10	Board Member Item
Secondary Waiver	The City of San Diego received approval from the Coastal Commission and now the Waiver is being processed by the EPA. The new 5 year waiver to operate the Point Loma Wastewater Treatment Plant at advanced primary went into effect August 1, 2010. Project complete 7/10	Scott Huth

City of San Diego Recycled Water Summary

SBWRP Beneficial Reuse Summary (1)				
Month	CY 07	CY 08	CY 09	CY 10
Jan	468.5	417.5	424.5	506.3
Feb	304.3	265.5	330.7	242.2
Mar	259.3	559.5	339.6	319.5
Apr	546.6	604.1	564.4	537.8
May	488.6	748.5	799.8	585.8
Jun	663.5	723.9	711.8	745.9
Jul	875.5	1,023.7	1,057.6	800.9
Aug	672.8	964.0	899.0	775.9
Sep	748.2	753.9	801.8	834.7
Oct	498.2	961.8	930.0	766.9
Nov	525.5	786.6	669.0	448.0
Dec	362.6	404.8	450.3	
Total	6,413.6	8,213.8	7,978.5	6,563.9

NCWRP Beneficial Reuse Summary (7)				
Month	CY 07	CY 08	CY 09	CY 10
Jan	468.5	417.5	424.4	506.3
Feb	304.3	265.5	330.7	242.2
Mar	259.3	559.5	339.6	319.5
Apr	546.6	604.1	564.4	537.8
May	488.6	748.5	799.8	585.8
Jun	663.5	723.9	711.8	745.9
Jul	875.5	1,023.7	1,057.6	800.9
Aug	672.8	964.0	899.0	775.9
Sep	748.2	753.9	801.8	834.7
Oct	493.4	917.0	898.6	786.0
Nov	524.7	728.7	647.4	465.3
Dec	317.3	429.7	441.9	403.4
Total	6,362.7	8,136.0	7,917.0	7,003.7

Otay Purchases from SBWRP (2)				
Month	CY 07	CY 08	CY 09	CY 10
Jan		30.9	151.0	52.8
Feb		26.7	104.5	(18.7)
Mar		216.9	157.3	18.1
Apr		326.7	283.8	31.7
May	160.7	444.9	475.4	350.8
Jun	492.4	443.8	452.6	437.1
Jul	469.3	504.6	484.0	465.3
Aug	501.4	557.8	506.5	477.0
Sep	453.1	431.7	483.8	417.3
Oct	365.2	388.8	306.8	173.3
Nov	236.1	99.2	241.5	219.4
Dec	80.4	51.8	(24.6)	
Total	2,758.6	3,523.8	3,622.5	2,624.1

ALL IN Acre/Feet

AGENDA ITEM # 8
 for MTLG 2/16/2011

City of San Diego Recycled Water Summary

SBWRP Less Otay Purchases (3)				
Month	CY 07	CY 08	CY 09	CY 10
Jan	468.5	386.6	273.5	453.5
Feb	304.3	238.8	226.2	260.9
Mar	259.3	342.6	182.3	301.4
Apr	546.6	277.4	280.6	506.1
May	327.9	303.6	324.4	235.1
Jun	171.1	280.1	259.3	308.8
Jul	406.2	519.1	573.6	335.6
Aug	171.4	406.2	392.5	298.9
Sep	295.1	322.2	318.0	417.4
Oct	133.0	573.0	623.2	593.6
Nov	289.4	687.4	427.5	228.6
Dec	282.2	353.0	474.9	-
Total	3,655.0	4,690.0	4,356.0	3,939.8

SBWRP Credits Earned City Only (4)				
Month	CY 07	CY 08	CY 09	CY 10
Jan	34.6	34.0	63.1	63.3
Feb	25.4	60.5	46.4	64.7
Mar	42.8	61.4	50.9	37.7
Apr	41.2	57.4	54.5	74.6
May	41.0	56.5	54.5	54.0
Jun	56.4	52.2	45.7	48.6
Jul	43.4	49.0	50.3	50.9
Aug	50.8	67.2	51.1	58.4
Sep	57.0	53.5	42.8	48.9
Oct	36.0	50.0	47.0	61.5
Nov	45.8	56.4	52.4	47.3
Dec	55.3	61.9	47.7	54.9
Total	529.7	660.0	606.4	664.8

NCWRP Credits Earned City Only (4)				
Month	CY 07	CY 08	CY 09	CY 10
Jan	407.8	293.1	287.2	331.8
Feb	250.8	129.0	208.4	98.5
Mar	192.3	415.1	206.9	142.4
Apr	472.9	455.9	420.6	356.3
May	404.0	602.8	641.5	397.8
Jun	575.5	570.9	523.2	571.6
Jul	795.1	821.5	870.4	616.5
Aug	587.1	755.7	725.5	590.0
Sep	667.9	542.4	629.9	651.6
Oct	419.4	753.0	741.6	609.0
Nov	449.7	564.7	490.4	288.3
Dec	242.3	265.7	284.9	226.4
Total	5,464.8	6,169.8	6,030.5	4,880.2

City of San Diego Recycled Water Summary

SBWRP Beneficial Reuse City Only (5)				
Month	CY 07	CY 08	CY 09	CY 10
Jan	433.9	352.6	210.4	390.2
Feb	278.9	178.3	179.8	196.2
Mar	216.5	281.2	131.4	263.7
Apr	505.4	220.0	226.1	431.5
May	286.9	247.1	269.9	181.1
Jun	114.7	227.9	213.6	260.2
Jul	362.8	470.1	523.3	284.7
Aug	120.6	339.0	341.4	240.5
Sep	238.1	268.7	275.2	368.5
Oct	97.0	523.0	576.2	532.1
Nov	243.6	631.0	375.1	181.3
Dec	226.9	291.1	427.2	(54.9)
Total	3,125.3	4,030.0	3,749.6	3,275.0

NCWRP Beneficial Reuse City Only (6)				
Month	CY 07	CY 08	CY 09	CY 10
Jan	60.7	124.4	137.2	174.5
Feb	53.5	136.5	122.3	143.7
Mar	67.0	144.4	132.7	177.1
Apr	73.7	148.2	143.8	181.5
May	84.6	145.7	158.3	188.0
Jun	88.0	153.0	188.6	174.3
Jul	80.4	202.2	187.2	184.4
Aug	85.7	208.3	173.5	185.9
Sep	80.3	211.5	171.9	183.1
Oct (8)	74.0	164.0	157.0	177.0
Nov (8)	75.0	164.0	157.0	177.0
Dec (8)	75.0	164.0	157.0	177.0
Total	897.9	1,966.2	1,886.5	2,123.5

- (1) Source: Long-Rang Planning and Water Resources, Prepared by Michael Murphy
- (2) Source: Invoices from City for Otay Purchases
- (3) Calculated: (1) - (2)
- (4) Source: CWA
- (5) Calculated: (3) - (4)
- (6) Source: CWA with estimates for Oct-Dec.
- (7) Calculated: (4) + (6)
- (8) Estimated based on average prior 9 months as no data is available from CWA

TABLE A

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
FISCAL YEAR 2009 UNIT COSTS
FUNCTIONAL-DESIGN COST ALLOCATION METHOD

TREATMENT PARAMETER	FY 2009 AUDITED ACTUALS		UNITS	COST PER UNIT
	AMOUNT	%		
WASTEWATER FLOW	\$84,518,076	49.68%	68,405 (a)	\$1,235.56 /per Million Gallons
Budget	\$83,440,534	49.40%	73,730	\$ 1,131.70
SUSPENDED SOLIDS	\$45,206,843	26.57%	157,164 (b)	\$287.64 /per Thousand Pounds
Budget	\$ 44,924,034	26.60%	157,315	\$285.57
CHEMICAL OXYGEN DEMAND	\$40,413,396	23.75%	304,543 (c)	\$132.70 /per Thousand Pounds
Budget	\$40,700,433	24.10%	258,785	\$157.28
TOTAL AUDIT	\$170,138,315	100.00%		
TOTAL BUDGET	\$169,065,001	100.10%		

- (a) Units of Flow - Million Gallons Per Year
 (b) Units of SS - Thousands of Pounds per Year
 (c) Units of COD - Thousands of Pounds per Year

E-
AGENDA ITEM #9
MTG 2/16/2011

TABLE C Budget Versus Actual

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2009
SYSTEM STRENGTH LOADINGS INCLUDED

AGENCY	WASTEWATER CHARACTERISTICS						UNADJUSTED ANNUAL USE					
	AUDIT AVERAGE FLOW - mgd (a)	BUDGET	AUDIT SS mg/l (b)	BUDGET	AUDIT COD mg/l (b)	BUDGET	AUDIT 2009 FLOWS million gallons	BUDGET 2009 FLOWS million gallons	AUDIT SS thousand pounds	BUDGET SS thousand pounds	AUDIT COD thousand pounds	BUDGET COD thousand pounds
CHULA VISTA	16.543	17.894	207	205	623	616	6,038.093	6,531.263	10,409	11,189	31,389	33,583
CORONADO	1.863	2.400	146	150	484	481	679.902	876.000	829	1,097	2,745	3,513
DEL MAR	0.566	0.681	262	243	589	583	206.555	248.565	451	505	1,014	1,208
EAST OTAY MESA	0.008	0.006	5	199	23	541	2.927	2.225	0.118	4	0.558	10.000
EL CAJON	7.653	8.850	163	167	488	506	2,793.241	3,230.250	3,789	4,515	11,380	13,652
IMPERIAL BEACH	2.246	2.250	203	184	526	529	819.864	821.250	1,387	1,261	3,600	3,627
LA MESA	5.035	5.369	169	170	474	475	1,837.782	1,959.685	2,591	2,776	7,266	7,760
LAKESIDE/ALPINE	3.067	3.350	175	179	468	460	1,119.325	1,222.750	1,634	1,825	4,367	4,692
LEMON GROVE	2.137	2.296	175	175	533	519	779.842	838.040	1,136	1,221	3,465	3,630
NATIONAL CITY	4.094	5.238	186	189	597	608	1,494.490	1,911.870	2,314	3,011	7,443	9,705
OTAY	Was On 5/4/10 Spreadsheet 0.571	0.360	996	543 1,478	1,302	2,080	208.350	131.400	1,732	1,621	2,264	2,281
PADRE DAM	2.499	3.500	548	560	885	1,236	912.055	1,277.500	4,169	5,965	6,733	13,180
POWAY	3.435	3.324	187	164	475	443	1,253.606	1,213.260	1,959	1,663	4,969	4,487
SPRING VALLEY	6.574	6.700	204	156	516	464	2,399.419	2,445.500	4,079	3,182	10,340	9,470
WINTERGARDENS	0.924	0.940	149	143	455	396	337.377	343.100	419	409	1,282	1,133
SUBTOTAL PARTICIPATING AGENCIES	57.213	63.158	212	209	564	582	20,882.829	23,052.658	36,897	40,244	98,258	111,931
SAN DIEGO	108.496	118.000	218	222	641	642	39,601.153	43,070.000	72,007	79,725	211,890	230,889
REGIONAL RETURNS & CENTRATE	18.630	20.842	157	588	111	(1,323)	6,799.950	7,607.342	8,882	37,346	6,287	(84,015)
FLOW DIFFERENCE	3.070						1,120.719		39,378		(11,892)	
TOTAL	187.410	202.000	275	256	534	421	68,404.650	73,730.000	157,164	157,315	304,543	258,785

(a) Flows based on metered, housecounts and inter-agency flow, adjustment to City of San Diego flow for centrate from MBC to Point Loma reduction of 1.204 * 365 days

(b) SS and COD characteristics based on samples taken by MWWd's Environmental Monitoring and Technical Services Division through June 30, 2009 - proportionate share of return flow loadings calculated in the "ADJUSTED ANNUAL USE" BOX

(c) Flow difference between metered/housecount and facility totals. What are these?

TABLE C Budget Versus Actual

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2009
SYSTEM STRENGTH LOADINGS INCLUDED

AGENCY	AUDIT 2009 FLOWS million gallons	AUDIT Flow Difference (c)	ADJUSTED AUDIT FY 2009 Billing Flows	ANNUAL USE BUDGET FY 2009 Billing Flows	AUDIT SS thousand pounds	BUDGET SS thousand pounds	AUDIT COD thousand pounds	BUDGET COD thousand pounds	% OF FLOW AUDIT	% OF FLOW BUDGET
CHULA VISTA	6,716.930	111.881	6,828.811	7,282.678	15,021	14,672	30,822	25,352	0.100	0.099
CORONADO	756.340	12.598	768.938	976.783	1,197	1,439	2,695	2,652	0.011	0.013
DEL MAR	229.777	3.827	233.604	277.162	651	662	996	912	0.003	0.004
EAST OTAY MESA	3.256	0.054	3.311	2.481	0.170	5	0.548	8	0.000	0.000
EL CAJON	3,107.273	51.756	3,159.029	3,601.887	5,468	5,920	11,174	10,306	0.046	0.049
IMPERIAL BEACH	912.038	15.191	927.229	915.734	2,002	1,654	3,535	2,738	0.014	0.012
LA MESA	2,044.396	34.053	2,078.448	2,185.145	3,738	3,640	7,134	5,858	0.030	0.030
LAKESIDE/ALPINE	1,245.166	20.740	1,265.906	1,363.426	2,358	2,394	4,288	3,542	0.019	0.018
LEMON GROVE	867.517	14.450	881.966	934.456	1,639	1,600	3,403	2,741	0.013	0.013
NATIONAL CITY	1,662.509	27.692	1,690.200	2,131.829	3,339	3,948	7,309	7,326	0.025	0.029
OTAY	231.774	3.861	235.634	146.517	2,499	2,125	2,223	1,722	0.003	0.002
PADRE DAM	1,014.594	16.900	1,031.493	1,424.475	6,017	7,822	6,611	9,950	0.015	0.019
POWAY	1,394.543	23.228	1,417.772	1,352.844	2,828	2,181	4,879	3,387	0.021	0.018
SPRING VALLEY	2,669.175	44.459	2,713.634	2,726.852	5,887	4,173	10,153	7,149	0.040	0.037
WINTERGARDENS	375.307	6.251	381.558	382.573	604	536	1,259	855	0.006	0.005
SUBTOTAL PARTICIPATING AGENCIES	23,230.594	386.942	23,617.536	25,704.842	53,248	52,771	96,482	84,498	0.345	0.349
SAN DIEGO	44,053.338	733.777	44,787.115	48,025.158	103,916	104,543	208,061	174,287	0.655	0.651
REGIONAL RETURNS & CENTRATE										
FLOW DIFFERENCE										
TOTAL	67,283.932	1,120.719	68,404.650	73,730.000	157,164	157,314	304,543	258,785	1.000	1.000

(a) Flows based on metered, housecounts and inter-agency flow, adjustment to City of San Diego flow for centrate from MBC to Point Loma reduction of 1.204 * 365 days

Need correct data

(b) SS and COD characteristics based on samples taken by MWWd's Environmental Monitoring and Technical Services Division through June 30, 2009 - proportionate share of return flow loadings calculated in the "ADJUS"

(c) Flow difference between metered/housecount and facility totals. What are these?

expressed in percents:

AGENCY	FLOW		SUSPENDED	SOLIDS	OXYGEN	DEMAND
	AUDIT	BUDGET				
CHULA VISTA/MONTGOMERY	9.98%	9.88%	9.56%	9.33%	10.12%	9.80%
CORONADO	1.12%	1.32%	0.76%	0.91%	0.88%	1.02%
DEL MAR	0.34%	0.38%	0.41%	0.42%	0.33%	0.35%
EAST OTAY MESA	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EL CAJON	4.62%	4.69%	3.48%	3.78%	3.67%	3.98%
IMPERIAL BEACH	1.36%	1.24%	1.27%	1.05%	1.16%	1.06%
LA MESA	3.04%	2.96%	2.38%	2.31%	2.34%	2.26%
LAKESIDE/ALPINE	1.85%	1.85%	1.50%	1.52%	1.41%	1.37%
LEMON GROVE	1.29%	1.27%	1.04%	1.02%	1.12%	1.06%
NATIONAL CITY	2.47%	2.69%	2.12%	2.51%	2.40%	2.83%
OTAY	0.34%	0.20%	1.59%	1.35%	0.73%	0.67%
PADRE DAM	1.51%	1.93%	3.83%	4.97%	2.17%	3.84%
POWAY	2.07%	1.83%	1.80%	1.38%	1.60%	1.31%
SPRING VALLEY	3.97%	3.70%	3.75%	2.65%	3.33%	2.76%
WINTERGARDENS	0.56%	0.52%	0.38%	0.34%	0.41%	0.33%
SUBTOTAL PARTICIPATING AGENCIES	34.53%	34.86%	33.88%	33.55%	31.68%	32.65%
SAN DIEGO	65.47%	65.14%	66.12%	66.45%	68.32%	67.35%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	33.70%					

TED ANNUAL USE" BOX

TABLE B

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
DISTRIBUTION OF SYSTEM WASTEWATER COSTS - FISCAL YEAR 2009
FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

AGENDA ITEM #9
For MTG 2/16/2011

SOLIDS AND CHEMICAL OXYGEN DEMAND		ALLOCATION OF COSTS BY FLOW, SUSPENDED										
AGENCY	AUDIT FLOW (a)	BUDGET	AUDIT SS (a)	BUDGET	AUDIT COD (a)	BUDGET	TOTAL FLOW, SS & COD	BUDGET *7/23/08	AUDIT % OF TOTAL	BUDGET % OF TOTAL	TOTAL PAID FOR FY 2009	DIFFERENCE
CHULA VISTA	\$8,437,408	\$8,241,836	\$4,320,788	\$4,189,725	\$4,090,109	\$3,987,289	\$16,848,305	\$16,418,850	9.90%	9.71%	\$16,418,852	\$429,453
CORONADO	950,070	1,105,429	344,191	410,911	357,654	417,145	\$1,651,915	1,933,485	0.97%	1.14%	\$1,933,484	(\$281,569)
DEL MAR	288,632	313,665	187,189	188,948	132,190	143,464	\$608,011	646,077	0.36%	0.38%	\$646,076	(\$38,065)
EAST OTAY MESA	4,091	2,807	49	1,382	73	1,192	\$4,213	5,381	0.002%	0.003%	\$5,380	(\$1,167)
EL CAJON	3,903,172	4,076,270	1,572,912	1,690,670	1,482,874	1,620,931	\$6,958,958	7,387,871	4.09%	4.37%	\$7,387,872	(\$428,914)
IMPERIAL BEACH	1,145,648	1,036,340	575,726	472,378	469,078	430,627	\$2,190,452	1,939,345	1.29%	1.15%	\$1,939,344	\$251,108
LA MESA	2,568,048	2,472,937	1,075,332	1,039,511	946,736	921,300	\$4,590,116	4,433,748	2.70%	2.62%	\$4,433,748	\$156,368
LAKESIDE/ALPINE	1,564,104	1,542,995	678,165	683,534	569,041	557,083	\$2,811,310	2,783,612	1.65%	1.65%	\$2,783,612	\$27,698
LEMON GROVE	1,089,723	1,057,527	471,387	457,041	451,545	431,047	\$2,012,655	1,945,615	1.18%	1.15%	\$1,945,616	\$67,039
NATIONAL CITY	2,088,345	2,412,599	960,562	1,127,490	969,907	1,152,237	\$4,018,814	4,692,326	2.36%	2.78%	\$4,492,652	(\$473,838)
OTAY	291,141	165,814	718,940	606,879	294,945	270,845	\$1,305,026	1,043,538	0.77%	0.62%	\$1,043,540	\$261,486
PADRE DAM	1,274,472	1,612,084	1,730,616	2,233,727	877,338	1,564,841	\$3,882,426	5,410,652	2.28%	3.20%	\$5,410,652	(\$1,528,226)
POWAY	1,751,742	1,531,019	813,318	622,822	647,462	532,700	\$3,212,522	2,686,541	1.89%	1.59%	\$2,686,544	\$525,978
SPRING VALLEY	3,352,859	3,085,989	1,693,344	1,191,716	1,347,348	1,124,335	\$6,393,551	5,402,040	3.76%	3.20%	\$5,402,040	\$991,511
WINTERGARDENS	471,438	432,960	173,731	153,119	167,040	134,470	\$812,209	720,549	0.48%	0.43%	\$720,548	\$91,661
SUBTOTAL PARTICIPATING AGENCIES	\$29,180,893	\$29,090,271	\$15,316,250	\$15,069,853	\$12,803,340	\$13,289,506	\$57,300,483	\$57,449,630	33.68%	33.98%	\$57,249,960	\$50,523
SAN DIEGO	\$55,337,183	\$54,350,262	\$29,890,595	\$29,854,181	\$27,610,057	\$27,410,928	\$112,837,836	\$111,615,371	66.32%	66.02%	111,815,045 *	\$1,022,791
TOTAL	\$84,518,076	\$83,440,533	\$45,206,845	\$44,924,034	\$40,413,397	\$40,700,434	\$170,138,319	\$169,065,001	100.00%	100.00%	\$169,065,005	\$1,073,314

(a) Allocations based on estimated annual flows and strength loadings - See Table C
*Includes National City budget reduction

**Participating Agencies Reserve Contribution
By Agencies for Fiscal Year 2010**

Agency	FY 2008 Flow & Loads Percentage	FY 2010 Reserve Contribution	FY 2010 Interest Calc
CHULA VISTA	28.083%	\$1,202,374	\$94,915
CORONADO	3.356%	\$143,693	\$11,343
DEL MAR	1.029%	\$44,061	\$3,478
EAST OTAY MESA	0.000%	\$0	\$0
EL CAJON	15.270%	\$653,789	\$51,610
IMPERIAL BEACH	3.652%	\$156,373	\$12,344
LA MESA	8.842%	\$378,561	\$29,884
LAKESIDE/ALPINE	5.357%	\$229,368	\$18,106
LEMON GROVE	3.611%	\$154,615	\$12,205
NATIONAL CITY	7.572%	\$324,211	\$25,593
OTAY	0.459%	\$19,668	\$1,553
PADRE DAM	5.198%	\$222,537	\$17,567
POWAY	5.770%	\$247,021	\$19,500
SPRING VALLEY	10.316%	\$441,691	\$34,867
WINTERGARDENS	1.482%	\$63,470	\$5,010
TOTAL	100%	\$4,281,432	\$337,976
		\$4,281,432	\$ 337,976

NOTES

- 1) Actual Flows and Loads percentage utilized is in arrears
- 2) Interest Calc is not reflected in PA balance, interest earned is reflected in undesignated fund balance
- 3) Total equals individual PA contributions into the 45 day Operating Reserve for FY10
- 4) East Otay Mesa had no actual flow percentage until FY 2009
- 5) FY10 estimated operating expense based on average of FY07 (32.3 million) and FY08 (\$37.1 million)

Calculation:

\$ 34,727,170.00	Average FY07 & FY08
\$ 95,142.93	Divide by 365 days
<u>\$ 4,281,431.92</u>	Multiply by 45 days

6) FY11 Operating Expense	\$ 110,499,999.00	PAs Percentage	33.68%	Per 2009 audit
	\$ 37,216,399.66	PAs portion of O&M Budget		
	\$ 101,962.74	Divide by 365 days		
	<u>\$ 4,588,323.25</u>	Multiply by 45 days		
Difference -->	\$ 306,891.33		Versus staff calculation of	\$ 355,114

For
 AGENDA ITEM #10
 MTG 2/16/2011
 (-)

Fiscal Year 2011 Operating Reserve Contribution						
Based on 2009 Flows and Loads						
Draft						
AGENCY		TOTAL %	FY 11 Operating	FY 10 Operating	FY 11 Operating	
		2009 Flow	Reserve	Interest Earned	Contribution DUE	
		and Loads	Contribution	Allocation	(1)	
CHULA VISTA		29.40%	(\$109,983)	\$94,915	(\$15,067)	
CORONADO		2.88%	(\$10,783)	\$11,343	\$560	(2)
DEL MAR		1.06%	(\$3,969)	\$3,478	(\$491)	
EAST OTAY MESA		0.01%	(\$28)	\$0	(\$28)	
EL CAJON		12.14%	(\$45,427)	\$51,610	\$6,183	(2)
IMPERIAL BEACH		3.82%	(\$14,299)	\$12,344	(\$1,955)	
LA MESA		8.01%	(\$29,963)	\$29,884	(\$80)	
LAKESIDE/ALPINE		4.91%	(\$18,352)	\$18,106	(\$245)	
LEMON GROVE		3.51%	(\$13,138)	\$12,205	(\$933)	
NATIONAL CITY		7.01%	(\$26,234)	\$25,593	(\$641)	
OTAY		2.28%	(\$8,519)	\$1,553	(\$6,966)	
PADRE DAM		6.78%	(\$25,344)	\$17,567	(\$7,777)	
POWAY		5.61%	(\$20,971)	\$19,500	(\$1,471)	
SPRING VALLEY		11.16%	(\$41,736)	\$34,867	(\$6,869)	
WINTERGARDENS		1.42%	(\$5,302)	\$5,010	(\$292)	
SUBTOTAL PARTICIPATING AGENCIES		100%	(\$374,047)	\$337,976	(\$36,071)	
(1) Positive = Check/Negative = Invoice						
(2) Interest Credit will be apply to a future Operating Reserve Allocation.						

Fiscal Year 2011 Operating Reserve Contribution						
Based on 2009 Flows and Loads						
Final						
AGENCY		TOTAL %	FY 11 Operating	FY 10 Operating	FY 11 Operating	
		Flow and	Reserve	Reserve	Reserve	
		Loads	Contribution	Interest Earned	Contribution DUE	
				Allocation		
CHULA VISTA		29.403%	(\$90,237)	\$94,915	\$4,679	
CORONADO		2.883%	(\$8,847)	\$11,343	\$2,496	
DEL MAR		1.061%	(\$3,256)	\$3,478	\$222	
EAST OTAY MESA		0.007%	(\$23)	\$0	(\$23)	
EL CAJON		12.145%	(\$37,271)	\$51,610	\$14,339	
IMPERIAL BEACH		3.823%	(\$11,732)	\$12,344	\$612	
LA MESA		8.011%	(\$24,584)	\$29,884	\$5,300	
LAKESIDE/ALPINE		4.906%	(\$15,057)	\$18,106	\$3,049	
LEMON GROVE		3.512%	(\$10,779)	\$12,205	\$1,426	
NATIONAL CITY		7.014%	(\$21,524)	\$25,593	\$4,069	
OTAY		2.278%	(\$6,989)	\$1,553	(\$5,437)	
PADRE DAM		6.776%	(\$20,794)	\$17,567	(\$3,227)	
POWAY		5.606%	(\$17,206)	\$19,500	\$2,294	
SPRING VALLEY		11.158%	(\$34,243)	\$34,867	\$624	
WINTERGARDENS		1.417%	(\$4,350)	\$5,010	\$660	
SUBTOTAL PARTICIPATING AGENCIES		100%	(\$306,891)	\$337,976	\$31,085	
(1) Negative=Invoice						

METROPOLITAN WASTEWATER DEPARTMENT

CIP PROJECTS FY 2012 - FY 2021

AGENDA ITEM #12
For MTG 2/16/2011

CIP PROJECTS - FUND 41508		10 YEAR TOTAL
CIP/WBS #	TITLE	
45-943.0/ S00315	POINT LOMA - GRIT PROCESSING IMPROVEMENTS	\$21,500,000
	TOTAL 41508	\$21,500,000

CIP PROJECTS - FUND 41509		10 YEAR TOTAL
CIP/WBS #	TITLE	
ABOOOOO1	ANNUAL ALLOCATION-METRO TREATMENT PLANTS	\$18,057,615.17
AJB00001	MWWD TRUNK SEWERS	\$9,080,000.00
ABP00002	METROPOLITAN SYSTEM PUMP STATIONS	\$5,900,000.00
S00319	EM & TS LAB ESPLANADE AND STEAM LINE	\$2,018,535.00
45-984.0/ S00322	MBC BIOSOLIDS STORAGE SILOS	\$7,777,607.51
S00321	MBC CENTRATE COLLECTION UPGRADES	\$27,061.27
45-989.0/ S00339	MBC DEWATERING CENTRIFUGES REPLACEMENT (SA)JO#141590	\$10,650,000.00
45-981.0/ S00323	MBC ODOR CONTROL FACILITY UPGRADES	\$5,106,493.00
TBD	PT.LOMA SITE IMPROVEMENTS - PHASE 2	\$4,697,000.00
45-992.0/ S00309	NCWRP - SLUDGE PUMP STATION UPGRADE	\$220,000.00
45-993.0/ S00324	NCWRP -EDR UPGRADE	\$106,000.00
45-915.0/ S00312	PUMP STATION 2 ONSITE STANDBY POWER	\$31,200,000.00
41-943.0/ TBD	SOUTH BAY PUMP STATION AND CONVEYANCE SYSTEM PHASE 1	\$41,100,000.00
42-931.0/ TBD	SOUTH BAY WASTEWATER TREATMENT PLANT PHASE 1	\$67,800,000.00
42-930.0/ S00310	SBWRP DEMINERALIZATION PHASE 1 & 2	\$16,000,000.00
45-961.0/ S00317	SOUTH METRO SEWER REHABILITATION PHASE IIIB	\$9,214,957.00
45-940.0/ S00314	WET WEATHER STORAGE FACILITY	\$85,049,510.00
45-994.0/ S00323	MBC ODOR CONTROL FACILITY UPGRADES	\$5,106,493.00
L10000	METRO FACILITIES CONTROL SYSTEM UPGRADE PH II	\$8,100,000.00
S00316	PT. LOMA S. ACCESS RD. PROTECTION PROJECT	\$385,000.00
	TOTAL 41509	\$322,489,779

With the implementation of SAP Capital Projects have WBS numbers, will provide when known

TABLE A

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
 FISCAL YEAR 2012 ESTIMATED UNIT COSTS
 FUNCTIONAL-DESIGN COST ALLOCATION METHOD

AGENDA ITEM #13
 For MTG 2/16/2011

TREATMENT PARAMETER	FY 2012 BUDGET		UNITS	COST PER UNIT
	AMOUNT	%		
WASTEWATER FLOW	\$91,110,400	48.4%	65,514 (a)	\$1,390.70 /per Million Gallons
SUSPENDED SOLIDS	\$51,071,998	27.1%	153,354 (b)	\$333.03 /per Thousand Pounds
CHEMICAL OXYGEN DEMAND	\$45,977,788	24.4%	309,270 (c)	\$148.67 /per Thousand Pounds
TOTAL	\$188,160,186	100%		

(a) Units of Flow - Million Gallons Per Year

(b) Units of SS - Thousands of Pounds per Year

(c) Units of COD - Thousands of Pounds per Year

TABLE B

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
 PROJECTED DISTRIBUTION OF SYSTEM WASTEWATER COSTS - FISCAL YEAR 2012
 FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

AGENCY	ALLOCATION OF COSTS BY FLOW, SUSPENDED SOLIDS AND CHEMICAL OXYGEN DEMAND				expressed in percents:		
	FLOW (a)	SS (a)	COD (a)	TOTAL FLOW, SS & COD	SUSPENDED FLOW	SOLIDS	OXYGEN DEMAND
CHULA VISTA	\$8,779,795	\$4,704,249	\$4,490,451	\$17,974,495	9.64%	9.21%	9.77%
CORONADO	1,156,883	438,516	459,490	2,054,889	1.27%	0.86%	1.00%
DEL MAR	354,953	240,857	171,516	767,326	0.39%	0.47%	0.37%
EAST OTAY MESA	252,411	130,125	112,097	494,633	0.28%	0.25%	0.24%
EL CAJON	4,732,702	1,995,482	1,897,035	8,625,219	5.19%	3.91%	4.13%
IMPERIAL BEACH	1,183,175	622,108	511,120	2,316,403	1.30%	1.22%	1.11%
LA MESA	2,583,003	1,131,661	1,004,686	4,719,350	2.84%	2.22%	2.19%
LAKESIDE/ALPINE	1,735,324	787,231	666,098	3,188,653	1.90%	1.54%	1.45%
LEMON GROVE	1,253,640	567,396	548,071	2,369,107	1.38%	1.11%	1.19%
NATIONAL CITY	2,403,687	1,156,786	1,177,837	4,738,310	2.64%	2.27%	2.56%
OTAY	171,429	655,371	295,589	1,122,389	0.19%	1.28%	0.64%
PADRE DAM	1,661,704	2,360,891	1,206,896	5,229,491	1.82%	4.62%	2.62%
POWAY	1,670,644	811,570	651,490	3,133,704	1.83%	1.59%	1.42%
SPRING VALLEY	3,817,713	2,017,369	1,618,629	7,453,711	4.19%	3.95%	3.52%
WINTERGARDENS	510,080	196,672	190,684	897,436	0.56%	0.39%	0.41%
SUBTOTAL PARTICIPATING AGENCIES	\$32,267,143	\$17,816,284	\$15,001,689	\$65,085,116	35.42%	34.88%	32.63%
SAN DIEGO	\$58,843,258	\$33,255,714	\$30,976,097	\$123,075,069	64.58%	65.12%	67.37%
TOTAL	\$91,110,401	\$51,071,998	\$45,977,786	\$188,160,185	100.00%	100.00%	100.00%

(a) Allocations based on estimated annual flows and strength loadings - See Table C

TABLE C

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2012
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)	2012 FLOWS million gallons	SS thousand pounds	COD thousand pounds	2012 FLOWS million gallons	SS thousand pounds	COD thousand pounds
CHULA VISTA	16.696	207	623	6,110.811	10,534	31,767	6,313.215	14,125	30,205
CORONADO	2.200	146	484	805.200	982	3,251	831.870	1,317	3,091
DEL MAR	0.675	262	589	247.050	539	1,213	255.233	723	1,154
EAST OTAY MESA	0.480	199	541	175.680	291	793	181.499	391	754
EL CAJON	9.000	163	488	3,294.000	4,469	13,420	3,403.105	5,992	12,760
IMPERIAL BEACH	2.250	203	526	823.500	1,393	3,616	850.776	1,868	3,438
LA MESA	4.912	169	474	1,797.792	2,534	7,108	1,857.339	3,398	6,758
LAKESIDE/ALPINE	3.300	175	468	1,207.800	1,763	4,712	1,247.805	2,364	4,481
LEMON GROVE	2.384	175	533	872.544	1,271	3,877	901.445	1,704	3,687
NATIONAL CITY	4.571	186	597	1,672.986	2,590	8,332	1,728.399	3,473	7,923
OTAY	0.326	1,474	2,100	119.316	1,468	2,091	123.268	1,968	1,988
PADRE DAM	3.160	548	885	1,156.560	5,287	8,538	1,194.868	7,089	8,118
POWAY	3.177	187	475	1,162.782	1,817	4,609	1,201.296	2,437	4,382
SPRING VALLEY	7.260	204	516	2,657.160	4,518	11,451	2,745.171	6,058	10,888
WINTERGARDENS	0.970	149	455	355.020	440	1,349	366.779	591	1,283
SUBTOTAL PARTICIPATING AGENCIES	61.361	213	566	22,458.201	39,896	106,127	23,202.066	53,497	100,909
SAN DIEGO	111.900	218	641	40,955.400	74,470	219,136	42,311.934	99,857	208,361
REGIONAL SLUDGE RETURNS	5.739	2,224	(913)	2,100.399	38,988	(15,994)			
TOTAL	179.000	281	566	65,514.000	153,354	309,270	65,514.000	153,354	309,270

(a) Estimated flows based on sewage Flow projections provided by Participating Agencies November/December 2010. Except for the County, used projections from November 2009.

(b) SS and COD characteristics based on standard deviation cumulative samples taken by MWWd's Environmental Monitoring and Technical Services Division up to 06-30-09. Using the FY 2008 Mass Balance for Otay and the FY 2009 Mass Balance for Padre Dam.

Mass Balance provided by the MWWd Engineering & Program Management division dated December 17, 2010

TABLE D

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
 ALLOCATION OF FISCAL YEAR 2012 ESTIMATED BUDGET
 FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

DESCRIPTION	FY 2012 BUDGET COSTS	ALLOCATION OF COSTS						
		FLOW %	FLOW COSTS	SS %	SS COSTS	COD %	COD COSTS	TOTAL COSTS
<u>OPERATION AND MAINTENANCE :</u>								
TRANSMISSION AND SYSTEM MAINTENANCE	\$10,107,299	100.0%	\$10,107,299	0.0%	\$0	0.0%	\$0	\$10,107,299
OPERATIONS & MAINTENANCE	50,496,675	35.8%	18,080,023	34.2%	17,256,913	30.0%	15,159,739	50,496,675
TECHNICAL SERVICES	10,000,560	30.0%	3,000,168	40.0%	4,000,224	30.0%	3,000,168	10,000,560
COGENERATION	900,000	0.0%	0	60.0%	540,000	40.0%	360,000	900,000
METRO ADMIN & GENERAL EXPENSES - 41508	17,263,597	43.3%	7,480,071	30.7%	5,303,166	26.0%	4,480,360	17,263,597
METRO ADMIN & GENERAL EXPENSES - 41509	24,167,581	43.3%	10,471,470	30.7%	7,423,986	26.0%	6,272,126	24,167,581
TOTAL OPERATIONS AND MAINTENANCE	\$112,935,712	43.51%	\$49,139,031	30.57%	\$34,524,288	25.92%	\$29,272,393	\$112,935,712
<u>CAPITAL IMPROVEMENT PROGRAM :</u>								
PAY-AS-YOU-GO METRO 41508	1,600,000	55.8%	892,717	22.0%	351,964	22.2%	355,318	1,599,999
PAY-AS-YOU-GO METRO 41509	3,761,423	55.8%	2,098,679	22.0%	827,429	22.2%	835,314	3,761,422
DEBT SERVICE	69,863,054	55.8%	38,979,973	22.0%	15,368,317	22.2%	15,514,763	69,863,053
TOTAL CAPITAL IMPROVEMENT PROGRAM	\$75,224,477	55.8%	\$41,971,369	22.0%	\$16,547,710	22.2%	\$16,705,395	\$75,224,474
TOTAL O&M & CAPITAL IMPROVEMENT PROGRAM	\$188,160,189	48.4%	\$91,110,400	27.1%	\$51,071,998	24.4%	\$45,977,788	\$188,160,186

TABLE A

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
FISCAL YEAR 2012 ESTIMATED UNIT COSTS
FUNCTIONAL-DESIGN COST ALLOCATION METHOD

TREATMENT PARAMETER	FY 2012 BUDGET		UNITS	COST PER UNIT
WASTEWATER FLOW	AMOUNT \$91,648,257	% 48.3%	65,514 (a)	\$1,398.91 /per Million Gallons
SUSPENDED SOLIDS	\$51,541,225	27.2%	153,354 (b)	\$336.09 /per Thousand Pounds
CHEMICAL OXYGEN DEMAND	\$46,385,704	24.5%	309,270 (c)	\$149.98 /per Thousand Pounds
TOTAL	\$189,575,186	100%		

(a) Units of Flow - Million Gallons Per Year

(b) Units of SS - Thousands of Pounds per Year

(c) Units of COD - Thousands of Pounds per Year

TABLE B

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CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
 PROJECTED DISTRIBUTION OF SYSTEM WASTEWATER COSTS - FISCAL YEAR 2012
 FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

AGENCY	ALLOCATION OF COSTS BY FLOW, SUSPENDED SOLIDS AND CHEMICAL OXYGEN DEMAND				expressed in percents:		
	FLOW (a)	SS (a)	COD (a)	TOTAL FLOW, SS & COD	SUSPENDED FLOW	SOLIDS	OXYGEN DEMAND
CHULA VISTA	\$8,868,068	\$4,766,004	\$4,546,514	\$18,180,586	9.68%	9.25%	9.80%
CORONADO	1,168,514	444,273	465,227	2,078,014	1.27%	0.86%	1.00%
DEL MAR	358,521	244,019	173,657	776,197	0.39%	0.47%	0.37%
EAST OTAY MESA	71,173	36,803	31,684	139,660	0.08%	0.07%	0.07%
EL CAJON	4,780,285	2,021,678	1,920,720	8,722,683	5.22%	3.92%	4.14%
IMPERIAL BEACH	1,195,071	630,274	517,501	2,342,846	1.30%	1.22%	1.12%
LA MESA	2,608,973	1,146,517	1,017,230	4,772,720	2.85%	2.22%	2.19%
LAKESIDE/ALPINE	1,794,731	816,658	690,559	3,301,948	1.96%	1.58%	1.49%
LEMON GROVE	1,266,244	574,844	554,914	2,396,002	1.38%	1.12%	1.20%
NATIONAL CITY	2,427,853	1,171,971	1,192,543	4,792,367	2.65%	2.27%	2.57%
OTAY	173,153	663,974	299,280	1,136,407	0.19%	1.29%	0.65%
PADRE DAM	1,678,411	2,391,883	1,221,964	5,292,258	1.83%	4.64%	2.63%
POWAY	1,687,440	822,224	659,624	3,169,288	1.84%	1.60%	1.42%
SPRING VALLEY	3,619,738	1,918,574	1,538,386	7,076,698	3.95%	3.72%	3.32%
WINTERGARDENS	515,208	199,254	193,064	907,526	0.56%	0.39%	0.42%
SUBTOTAL PARTICIPATING AGENCIES	\$32,213,383	\$17,848,950	\$15,022,867	\$65,085,200	35.15%	34.63%	32.39%
SAN DIEGO	\$59,434,872	\$33,692,274	\$31,362,836	\$124,489,982	64.85%	65.37%	67.61%
TOTAL	\$91,648,255	\$51,541,224	\$46,385,703	\$189,575,182	100.00%	100.00%	100.00%

(a) Allocations based on estimated annual flows and strength loadings - See Table C

TABLE C

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2012
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)	2012 FLOWS million gallons	SS thousand pounds	COD thousand pounds	2012 FLOWS million gallons	SS thousand pounds	COD thousand pounds
CHULA VISTA	16.696	207	623	6,110.811	10,534	31,767	6,339.265	14,181	30,313
CORONADO	2.200	146	484	805.200	982	3,251	835.303	1,322	3,102
DEL MAR	0.675	262	589	247.050	539	1,213	256.286	726	1,158
EAST OTAY MESA	0.134	199	541	49.044	81	221	50.878	110	211
EL CAJON	9.000	163	488	3,294.000	4,469	13,420	3,417.147	6,015	12,806
IMPERIAL BEACH	2.250	203	526	823.500	1,393	3,616	854.287	1,875	3,450
LA MESA	4.912	169	474	1,797.792	2,534	7,108	1,865.003	3,411	6,782
LAKESIDE/ALPINE	3.379	175	468	1,236.714	1,805	4,825	1,282.949	2,430	4,604
LEMON GROVE	2.384	175	533	872.544	1,271	3,877	905.164	1,710	3,700
NATIONAL CITY	4.571	186	597	1,672.986	2,590	8,332	1,735.531	3,487	7,951
OTAY	0.326	1,474	2,100	119.316	1,468	2,091	123.777	1,976	1,995
PADRE DAM	3.160	548	885	1,156.560	5,287	8,538	1,199.798	7,117	8,147
POWAY	3.177	187	475	1,162.782	1,817	4,609	1,206.253	2,446	4,398
SPRING VALLEY	6.815	204	516	2,494.290	4,241	10,749	2,587.540	5,708	10,257
WINTERGARDENS	0.970	149	455	355.020	440	1,349	368.293	593	1,287
SUBTOTAL PARTICIPATING AGENCIES	60.649	213	567	22,197.609	39,451	104,967	23,027.472	53,107	100,163
SAN DIEGO	111.900	218	641	40,955.400	74,470	219,136	42,486.528	100,247	209,107
REGIONAL SLUDGE RETURNS	6.451	2,002	(753)	2,360.991	39,433	(14,833)			
TOTAL	179.000	281	566	65,514.000	153,354	309,270	65,514.000	153,354	309,270

(a) Estimated flows based on sewage Flow projections provided by Participating Agencies November/December 2010. Except for the County, used projections from January 2011.

(b) SS and COD characteristics based on standard deviation cumulative samples taken by MWWD's Environmental Monitoring and Technical Services Division up to 06-30-09. Using the FY 2008 Mass Balance for Otay and the FY 2009 Mass Balance for Padre Dam.

Mass Balance provided by the MWWD Engineering & Program Management division dated December 17, 2010

TABLE D

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
 ALLOCATION OF FISCAL YEAR 2012 ESTIMATED BUDGET
 FUNCTIONAL-DESIGN BASED ALLOCATION METHOD

DESCRIPTION	FY 2012 BUDGET COSTS	ALLOCATION OF COSTS						
		FLOW %	FLOW COSTS	SS %	SS COSTS	COD %	COD COSTS	TOTAL COSTS
<u>OPERATION AND MAINTENANCE :</u>								
TRANSMISSION AND SYSTEM MAINTENANCE	\$10,107,299	100.0%	\$10,107,299	0.0%	\$0	0.0%	\$0	\$10,107,299
OPERATIONS & MAINTENANCE	51,496,675	35.8%	18,438,066	34.2%	17,598,656	30.0%	15,459,952	51,496,675
TECHNICAL SERVICES	10,000,560	30.0%	3,000,168	40.0%	4,000,224	30.0%	3,000,168	10,000,560
COGENERATION	900,000	0.0%	0	60.0%	540,000	40.0%	360,000	900,000
METRO ADMIN & GENERAL EXPENSES - 41508	17,263,597	43.3%	7,480,071	30.7%	5,303,166	26.0%	4,480,360	17,263,597
METRO ADMIN & GENERAL EXPENSES - 41509	24,582,581	43.3%	10,651,283	30.7%	7,551,468	26.0%	6,379,829	24,582,581
TOTAL OPERATIONS AND MAINTENANCE	\$114,350,712	43.44%	\$49,676,888	30.60%	\$34,993,515	25.96%	\$29,680,309	\$114,350,712
<u>CAPITAL IMPROVEMENT PROGRAM :</u>								
PAY-AS-YOU-GO METRO 41508	1,600,000	55.8%	892,717	22.0%	351,964	22.2%	355,318	1,599,999
PAY-AS-YOU-GO METRO 41509	3,761,423	55.8%	2,098,679	22.0%	827,429	22.2%	835,314	3,761,422
DEBT SERVICE	69,863,054	55.8%	38,979,973	22.0%	15,368,317	22.2%	15,514,763	69,863,053
TOTAL CAPITAL IMPROVEMENT PROGRAM	\$75,224,477	55.8%	\$41,971,369	22.0%	\$16,547,710	22.2%	\$16,705,395	\$75,224,474
TOTAL O&M & CAPITAL IMPROVEMENT PROGRAM	\$189,575,189	48.3%	\$91,648,257	27.2%	\$51,541,225	24.5%	\$46,385,704	\$189,575,186

AGENDA ITEM 5

Attachment

**MetroTAC
2010/2011 Work Plan**

MetroTAC Items	Description	Subcommittee Member(s)
Lateral Issues	Sewer laterals are owned by the property owners they serve, yet laterals often allow infiltration and roots to the main lines causing maintenance issues. As this is a common problem among PAs, the MetroTAC will gather statistics from national studies and develop solutions.	Tom Howard Joe Smith
Advanced Water Purification Demonstration Project	San Diego engaged CDM to design/build/operate the project for the water repurification pilot program. <i>2/8/11: Equipment to arrive 3/2011; tours will be held when operational (June/July 2011 timeframe)</i>	Al Lau
Fiscal Items	The Finance committee will continue to monitor and report on the financial issues affecting the Metro System and the charges to the PAs. The debt finance and reserve coverage issues have been resolved. Refunds totaling \$12.3 million were sent to most of the PA's.	Greg Humora Scott Huth Karen Jassoy Karyn Keese
Recycled Water Revenue Issue	Per our Regional wastewater Agreement revenues from SBWTP are to be shared with PA's. San Diego has not met the terms of the agreement and there are revenues owed the PA's. <i>2/2011: Staff is scheduled to meet with San Diego Staff on 3/3/11 to discuss issue.</i>	Scott Huth Scott Tulloch Karyn Keese
Water Reduction - Impacts on Sewer Rates	The MetroTAC wants to evaluate the possible impact to sewer rates and options as water use goes down, and consequently the sewer flows go down, reducing sewer revenues. Sewer strengths are also increasing because of less water to dilute the waste. We are currently monitoring the effects of this. <i>2/2011: wastewater revenues are declining due to conservation and flow reductions and agencies are re-prioritizing projects to be able to cover annual operations costs</i>	Eric Minicilli Manny Magaña Karyn Keese
"No Drugs Down the Drain"	The state has initiated a program to reduce pharmaceuticals entering the wastewater flows. There have been a number of collection events within the region. The MetroTAC, working in association with the Southern California Alliance of Publicly-owned Treatment Works (SCAP), will continue to monitor proposed legislation and develop educational tools to be used to further reduce the amount of drugs disposed of into the sanitary sewer system. <i>8/2010: County Sheriff and Chula Vista have set up locations for people to drop off unwanted medications and drugs.</i>	Greg Humora Dean Gipson
Flushable Items that do not Degrade	Several PAs have problems with flushable products, such as personal wipes, that do not degrade and cause blockages. MetroTAC is investigating solutions by other agencies, and a public affairs campaign to raise awareness of the problems caused by flushable products. We are also working with SCAP in their efforts to help formulate state legislation to require manufacturers of products to meet certain criteria prior to labeling them as "flushable." Follow AB2256 and offer support.	Eric Minicilli Dean Gipson
Grease Recycling	To reduce fats, oils, and grease (FOG) in the sewer systems, more and more restaurants are being required to collect and dispose of cooking grease. Companies exist that will collect the grease and turn it into energy. MetroTAC is exploring if a regional facility offers cost savings for the PAs. The PAs are also sharing information amongst each other for use in our individual programs.	Eric Minicilli Dean Gipson
"Power Tariff"	Power companies are moving to a peak demand pricing scheme which negatively impacts PAs with pump stations and other high energy uses. MetroTAC wants to evaluate the new legislation and regulations, and to identify and implement cost savings efforts for the PAs. <i>(8/2010): John Helminski at the City of San Diego is working on a sustainability project for CoSD</i>	Tom Howard Paula de Sousa

MetroTAC Items	Description	Subcommittee Member(s)
Recycled Water Study	As part of the secondary waiver process, San Diego agreed to perform a recycled water study within the Metro service area. That study is currently underway, and MetroTAC has representatives participating in the working groups. 8/2010: Al Lau and Dean Gipson attended the Coarse Screening Workshop in August 2010. <i>2/2011: The next Status Update Meeting is 3/29/11; final draft report expected in April 2011</i>	Scott Huth Al Lau Dean Gipson
Recycled Water Rate Study	San Diego is working on a rate study for pricing recycled water from the South Bay plant and the North City plant. MetroTAC, in addition to individual PAs, have been engaged in this process and have provided comments on drafts San Diego has produced. We are currently waiting for San Diego to promulgate a new draft which addresses the changes we have requested. 8/2010: draft study is expected in September 2010. <i>2/2011: draft study still not issued</i>	Karyn Keese Scott Huth
Metro JPA Strategic Initiatives	MetroTAC to develop success measures for the JPA strategic initiatives and suggest a schedule to complete certain items.	Scott Huth Dan Brogadir Dean Gipson
Salt Creek Diversion	9/2010: OWD, Chula Vista and San Diego met to discuss options and who will pay for project; Chula Vista and OWD are reviewing options. <i>2/2011: OWD and PBS&J reviewed calculations with CoSD staff; San Diego to provide backup data for TAC to review</i>	Roberto Yano Manny Magaña Karyn Keese
Board Members' Items		
Metro JPA Strategic Plan	<i>2/2011: committee to meet 2/28/11 to plan for retreat to be held on 5/5/11</i>	Augie Caires Ernie Ewin Mark Robak
Rate Case Items	San Diego is starting the process for their next five-year rate case. As part of that process, MetroTAC and the Finance Committee will be monitoring the City's proposals as we move forward.	Karyn Keese
Schedule E	MetroTAC and the Finance Committee are active and will monitor this process. Individual items related to Schedule E will come directly to the Board as they develop.	Karen Jassoy Karyn Keese
Future bonding	MetroTAC and the Finance Committee are active and will monitor this process. Individual items related to bonding efforts will come directly to the Board as they develop.	Karen Jassoy Karyn Keese
Changes in water legislation	MetroTAC and the Board should monitor and report on proposed and new legislation or changes in existing legislation that impact wastewater conveyance, treatment, and disposal, including recycled water issues	Paula de Sousa
Role of Metro JPA regarding Recycled Water	As plans for water reuse unfold and projects are identified, Metro JPA's role must be defined with respect to water reuse and impacts to the various regional sewer treatment and conveyance facilities	Scott Huth Dean Gipson
Border Region	Impacts of sewer treatment and disposal along the international border should be monitored and reported to the Board. These issues would directly affect the South Bay plants on both sides of the border.	
IROC Performance Audits	Work with IROC to identify areas to be audited; participate in audit process. 8/2010: provide the top 5 areas to audit by September IROC meeting	Augie Caires

Completed Items	Description	Subcommittee Member(s)
Debt Reserve and Operating Reserve Discussion	In March 2010, the JPA approved recommendations developed by Metro JPA Finance Committee, MetroTAC, and the City of San Diego regarding how the PA's will fund the operating reserve and debt financing. MetroTAC has prepared a policy document to memorialize this agreement. Project complete: 4/10	Scott Huth Karyn Keese
State WDRs & WDR Communications Plan	The Waste Discharge Requirements (WDRs), a statewide requirement that became effective on May 2, 2006, requires all owners of a sewer collection system to prepare a Sewer System Management Plan (SSMP). Agencies' plans have been created. We will continue to work to meet state requirements, taking the opportunity to work together to create efficiencies in producing public outreach literature and implementing public programs. Project complete: 5/10	Dennis Davies Patrick Lund
Ocean Maps from Scripps	Schedule a presentation on the Sea Level Rise research by either Dr. Emily Young, San Diego Foundation, or Karen Goodrich, Tijuana River National Estuarine Research Reserve Project complete: 5/10	Board Member Item
Secondary Waiver	The City of San Diego received approval from the Coastal Commission and now the Waiver is being processed by the EPA. The new 5 year waiver to operate the Point Loma Wastewater Treatment Plant at advanced primary went into effect August 1, 2010. Project complete 7/10	Scott Huth