



METRO TAC AGENDA
(Technical Advisory Committee to Metro JPA)

TO: MetroTAC Representatives and Metro Commissioners

DATE: Wednesday, January 20, 2010

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 METROTAC REPRESENTATIVES.****

1. Review and Approve MetroTAC Action Minutes for the Meeting of December 16, 2009 (**Attachment**)
2. METRO Commission/JPA Board Meeting Recap (Standing Item)
3. Financial Update (Karyn Keese)
4. Regional Recycled Water Survey/Status (Karyn Keese)
5. 2007 Refund (Karyn Keese)
6. Metro CIP
7. Metro Wastewater Update (Rod Greek)
8. Grit Processing Improvement Project at Point Loma Treatment Plant (Stuart Seymour) (**Attachment**)
9. Amendment to MM and NEO San Diego Contracts (Miramar LFG Power Plant Expansion) (Tom Alspaugh)
10. Review and Approval of Six Month Financial Statements for Period Ending December 31, 2009 (Doug Wilson) (**Attachment**)
11. Update on Pt. Loma Waiver Process (Alan Langworthy)
12. Operating Reserve & Debt Financing (Standing Item)
13. Transportation Agreement (Standing Item)
14. Review of Items to be Brought Forward to the Metro Commission/Metro JPA Meeting of [February 4, 2010](#)
15. Other Business of Metro TAC
16. Adjournment ([To the next Regular Meeting, February 17, 2010](#))

Metro TAC 2010 Meeting Schedule

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

AGENDA ITEM 1

Attachment



Metro TAC
(Technical Advisory Committee to Metro JPA)

ACTION MINUTES

DATE OF MEETING: December 16, 2009

TIME: 11 AM

LOCATION: MWWD, MOC II, Auditorium

MEETING ATTENDANCE:

Roberto Yano, Chula Vista
Frank Rivera, Chula Vista
Scott Huth, Chair, Coronado
Dan Brogadir, County of San Diego
David Scherer, Del Mar
Dennis Davies, El Cajon
Greg Humora, Vice Chair, La Mesa
Erin Bullers, La Mesa
Manny Magaña, Otay Water District
Augie Caires, Padre Dam MWD
Augie Scalzitti, Padre Dam MWD
Neal Brown, Padre Dam MWD
Doug Wilson, Padre Dam MWD
Brad Voorhees, Poway
David Bryant, City of San Diego

Amy Dorman, City of San Diego
John Gavares, City of San Diego
Rod Greek, City of San Diego
Guann Hwang, City of San Diego
Lee Ann Jones-Santos, City of San Diego
Martin Kane, City of San Diego
Peggy Merino, City of San Diego
Darlene Morrow-Truver, City of San Diego
Tung Phung, City of San Diego
Jamie Richards, City of San Diego
Bill Kennedy, Brown & Caldwell
Karyn Keese, PBS&J
Dean Gipson, PBS&J
Frank Mizzanic, Biofuels
Lori Weiss, ADS Environmental Services

1. Review and Approve Metro TAC Action Minutes for the Meeting of November 18, 2009

The Minutes were approved.

2. Metro Commission/JPA Board Meeting Recap

No items to recap as prior meeting was cancelled.

3. Financial Update (Karyn Keese)

- Audit of FY2008 is nearly complete
- Refund is estimated to be approximately \$6.52 million
- Note: Based on audited figures, most agencies' flows have dropped. Please look at year-end 2008 (Table C attached) when providing San Diego with your projected flows to prevent over payment.

4. Metro Wastewater Update (Rod Greek)

- The bond refunding of \$178 million is on track to occur in February 2010
- Bid to Goal audit is underway with a draft report due on 12/16/09
- The FY2011 budgets are going to the executive team for review/approval
- The Indirect Potable Reuse (IPR) project is scheduled for council approval in January/February 2010
- Lee Ann Jones-Santos is the City's new budget person
- Guann Hwang has been promoted to Deputy Director for the Engineering and Capital Projects Division

ACTION: PAs to provide letter of support for IPR project to Rod Greek in January 2010

5. Public Utilities Leadership Development Program Update (John Gavares)

- City of San Diego is developing a leadership program for management and field staff
 - Management Academy is intended for second line supervisors and above
 - Field Academy is intended for crew leaders and first-line crew supervisors
- This is a 5-year program with the development in the first year, and two academies for each group every year
- First academy is expected to occur in Fall of 2010
- Estimated cost is \$900,000
- This program is funded by the Bid 2 Goal savings
- Program is intended for City of San Diego staff, but could be open to PAs and others
- Academies are intended for those who have not attended other, similar academies such as the regional management academy

ACTION: PBS&J to survey PAs on whether they would send staff to these academies and how many staff. Provide data to Rod Greek/John Gavares in January 2010

6. FY2011 Metro CIP Budget (David Bryant)

- Revised budget presented that incorporated comments from the last meeting
- Budget included prior year costs, FY2010 costs, and FY2011 budget projections

7. PA Representative for Sewer Flow Monitoring RFP (Martin Kane)

- The 5-year contract for ADS monitoring services is up and a PA representative is needed to participate in the selection process
- Greg Humora (La Mesa) and Roberto Yano (Chula Vista) will participate

8. PA Representative for Fire Alarm Panels (Martin Kane)

- A PA representative is needed to participate in the selection process for the Fire Alarm Panels project
- Tom Howard (Poway) will participate

9. Recycled Water Survey (Karyn Keese)

- Karyn distributed a list of recycled water purveyors and plants in San Diego county that she obtained from the SDCWA's website
- Summary of data should be organized first by systems that rely on Metro/PA flows and/or use, then organized by all others in county
- Retail data from TM#1 should be included in Karyn's summary

ACTION: *PBS&J to survey recycled water purveyors for accuracy of data in SDCWA table, and should also include (a) miles of distribution mains, and (b) number of connections*

10. Recycled Water Pricing Study Discussion (Scott Huth)

- Scott distributed a letter, dated December 7, 2009, sent to Jim Barrett regarding the pricing study plan
- City of San Diego indicated that the deadline to complete the study by December 31, 2009 is due to a contractual limitation with its consultant
- PAs will have an opportunity to review the final draft pricing study

11. Update on the Pt. Loma Waiver Process (Alan Langworthy)

- The Waiver is scheduled to go before the California Coastal Commission at the February 2010 meeting in Oceanside

12. Operating Reserve and Debt Financing (Standing Item)

- Karyn Keese and Darlene Morrow-Truver will meet within the next two weeks to discuss with the auditors

13. Transportation Agreement (Standing Item)

- Imperial Beach and Chula Vista are close to completing their agreements

14. Review and Comments on the Metro Commission/JPA Draft Agenda for the Meeting

- None

15. Other Business of Metro TAC

- Re-rating of Metro capacity paperwork is drafted and being reviewed by Martin Kane before being routed to the Mayor of San Diego for approval
- RFP Rotation List update:
 - David Scherer (Del Mar) is participating in the Biosolids project
 - Dan Brogadir (County of San Diego) is participating in the Large Diameter Pipeline selection project
 - Neal Brown (PDMWA) is participating on the Regional Advisory committee

ACTION: *PBS&J to work with Lori Peoples to update the rotation list and present at future meetings*

16. Adjournment

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2010
SYSTEM STRENGTH LOADINGS INCLUDED

Budget 2010

ITEM 3

AGENCY	WASTEWATER CHARACTERISTICS			UNADJUSTED ANNUAL USE			ADJUSTED ANNUAL USE		
	AVERAGE FLOW - mgd (a)	SS mg/l (b)	COD mg/l (b)	2010 FLOWS million gallons	SS thousand pounds	COD thousand pounds	2010 FLOWS million gallons	SS thousand pounds	COD thousand pounds
CHULA VISTA	17.896	205	616	6,532.050	11,190	33,587	7,197.192	14,139	29,789
CORONADO	2.500	150	481	912.500	1,143	3,660	1,005.418	1,444	3,246
DEL MAR	0.687	243	583	250.755	509	1,219	276.289	643	1,081
EAST OTAY MESA	0.042	199	541	15.242	25	69	16.794	32	61
EL CAJON	8.890	167	506	3,244.850	4,535	13,714	3,575.265	5,730	12,163
IMPERIAL BEACH	2.300	184	529	839.500	1,290	3,708	924.984	1,629	3,288
LA MESA	5.254	170	475	1,917.710	2,717	7,593	2,112.986	3,432	6,735
LAKESIDE/ALPINE	3.400	179	460	1,241.000	1,853	4,762	1,367.368	2,341	4,224
LEMON GROVE	2.296	175	519	838.040	1,221	3,630	923.375	1,542	3,220
NATIONAL CITY	5.009	189	608	1,828.285	2,879	9,280	2,014.455	3,638	8,231
OTAY	0.302	1,478	2,080	110.230	1,360	1,914	121.454	1,718	1,697
PADRE DAM	3.640	560	1,236	1,328.600	6,204	13,707	1,463.888	7,839	12,157
POWAY	3.366	164	443	1,228.590	1,684	4,543	1,353.694	2,128	4,030
SPRING VALLEY	6.800	156	464	2,482.000	3,230	9,611	2,734.736	4,081	8,524
WINTERGARDENS	0.950	143	396	348.750	413	1,145	382.059	522	1,015
SUBTOTAL PARTICIPATING AGENCIES	63.332	209	581	23,116.103	40,252	112,143	25,469.957	50,859	99,462
SAN DIEGO	120.000	222	642	43,800.000	81,077	234,782	48,260.043	102,441	208,233
REGIONAL SLUDGE RETURNS	18.668	562	(690)	6,813.897	31,971	(39,230)			
TOTAL	202.000	249	500	73,730.000	153,300	307,695	73,730.000	153,300	307,695

(a) Estimated flows based on sewage Flow projections provided by Participating Agencies November/December 2008. Except for East Otay Mesa, National City & Otay revised flow estimate April/May 2009.

(b) SS and COD characteristics based on standard deviation cumulative samples taken by MWWD's Environmental Monitoring and Technical Services Division up to 06-30-07. Except for East Otay Mesa.

Mass Balance flows & loads (Tables 2 & 4) provided by Flow & Strength Report dated January 9, 2009

TABLE C

CITY OF SAN DIEGO - METROPOLITAN WASTEWATER DEPARTMENT
SYSTEM WASTEWATER CHARACTERISTICS - FISCAL YEAR 2008
SYSTEM STRENGTH LOADINGS INCLUDED

Year End 2008

AGENCY	WASTEWATER CHARACTERISTICS			UNADJUSTED ANNUAL USE			ADJUSTED ANNUAL USE				
	AVERAGE FLOW - mgd (a)	SS mg/l (b)	COD mg/l (b)	2008 FLOWS million gallons	SS thousand pounds	COD thousand pounds	2008 FLOWS million gallons	Flow Difference (c)	FY 2008 Billing Flows	SS thousand pounds	COD thousand pounds
CHULA VISTA	16.765	204	625	6,135.969	10,457	31,999	6,885.673	132.057	7,017.730	15,682	31,472
CORONADO	2.004	140	485	733.298	859	2,970	822.894	15.782	838.676	1,289	2,921
DEL MAR	0.614	243	599	224.854	456	1,125	252.327	4.839	257.166	684	1,106
EAST OTAY MESA	0.000	0	0	0.000	0	0	0.000	0.000	0.000	0	0
EL CAJON	9.116	171	494	3,336.422	4,772	13,754	3,744.072	71.806	3,815.878	7,156	13,528
IMPERIAL BEACH	2.180	190	524	798.006	1,263	3,492	895.508	17.174	912.683	1,894	3,434
LA MESA	5.278	169	485	1,931.877	2,728	7,812	2,167.917	41.577	2,209.494	4,091	7,684
LAKESIDE/ALPINE	3.198	176	458	1,170.512	1,721	4,474	1,313.527	25.191	1,338.719	2,581	4,400
LEMON GROVE	2.156	166	529	789.031	1,094	3,480	885.436	16.981	902.418	1,640	3,423
NATIONAL CITY	4.521	182	596	1,654.515	2,512	8,235	1,856.667	35.608	1,892.275	3,767	8,099
OTAY	0.274	1,474	2,100	100.370	1,235	1,759	112.633	2.160	114.794	1,851	1,730
PADRE DAM	3.103	503	933	1,135.652	4,770	8,837	1,274.408	24.441	1,298.849	7,154	8,691
POWAY	3.444	173	463	1,260.601	1,821	4,866	1,414.623	27.130	1,441.754	2,731	4,786
SPRING VALLEY	6.159	167	465	2,254.042	3,138	8,748	2,529.445	48.511	2,577.956	4,707	8,604
WINTERGARDENS	0.885	150	456	323.900	405	1,232	363.474	6.971	370.445	608	1,211
SUBTOTAL PARTICIPATING AGENCIES	59.697	204	564	21,849.049	37,232	102,782	24,518.607	470.229	24,988.836	55,835	101,090
SAN DIEGO	109.156	221	644	39,951.211	73,737	214,589	44,832.525	859.818	45,692.344	110,581	211,057
REGIONAL RETURNS & CENTRATE	20.631	238	176	7,550.873	15,013	11,077					
FLOW DIFFERENCE	3.634			1,330.047	40,434	(16,300)					
TOTAL	193.130	282	529	70,681.180	166,416	312,147	69,351.132	1,330.047	70,681.180	166,416	312,147

(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 1.270966 * 366 days

(b) SS and COD characteristics based on samples taken by MWWd's Environmental Monitoring and Technical Services Division through June 30, 2008 - proportionate share of return flow loadings calculated in the "ADJUSTED ANNUAL USE" BOX

(c) Flow difference between metered/housecount and facility totals.

**City of San Diego
Public Utilities Department
Leadership Development Program**



**Metro TAC Briefing
December 16, 2009**



Overview of the Presentation

- Introduce Public Utilities Department's Leadership Development Program.
- Provide an overview of the program goals, curriculum, attendee eligibility criteria, timeline, and cost.
- Create a Forum for Open Dialogue with Metro TAC members and City Staff.

Goals of the LDP Program

1. Develop future leaders and build “bench-strength” at various levels of the organization.
2. Develop clarity and alignment of expectations for Public Utilities Department leaders and managers.
3. Enhance the leadership and management capacity within the Utility.

3

Draft Overview of the Program

I. Leadership Program: *Field Academy*

1. 7 Days: Six-week period/30 participants per academy
2. Two Field Academies a year
3. Crew leaders and first-line supervisors
4. Eligibility: Completion of all supervisor training courses
5. Deputy Director nomination

II. Leadership Program: *Management Academy*

1. 8 Days: Six-week period/30 participants per academy
2. Two Management Academies per year
3. Second-line supervisors and above
4. Eligibility: Completion of all supervisor training courses
5. Deputy Director nomination

4

Best-In-Class Elements

1. Curriculum is customized to the Utilities Department.
2. Program design is results-driven, competency and literature-based, and designed to achieve succession planning and leadership development needs.
3. Program leaders and instructors are experts and thought-leaders in their fields.
4. Varied instruction design and delivery methods are utilized.
5. Feedback-rich learning opportunities are provided.
6. One-on-one coaching integrated into program design.

5

Draft Management Academy Curriculum

- Leadership: Best Practices & Expectations of Today's Leaders
- Management Competencies: Assessment & Action-planning
- Communication, Collaboration & Conflict Management Skills
- Manager as Developer: Coaching and Mentoring
- Creating High-performing Teams
- Leading Change, and Developing Resilience to Change
- Emotional Intelligence: Assessment and Action-planning
- Creating an Inclusive Culture

6

Draft Field Academy Curriculum

- Leadership: Best Practices in Crew Leadership/Supervision
 - Transitioning from “Buddy” to “Boss”
 - Dealing with Push-back from Crew Members, and Confrontation between Crew Members
 - Communication and Conflict Management Skills
 - Ensuring Accountability to Time and Quality of Work
 - Creating an Inclusive Culture
 - Coaching, Mentoring, and Ability to Implement Recognition and Discipline
- Tailgate Meeting Leadership and Facilitation skills

7

Draft Implementation Timeline

<u>Date</u>	<u>Activity</u>
Jan. 2010	Process Request for Proposals
April 2010	Select consulting firm
June 2010	Partner with consultant regarding curriculum design
Sept. 2010	Delivery of two half-day pilots to Executive Team
Sept. 2010	Selection of Academy participants
Fall 2010	First Management & Field Academies
Spring 2011	Second Management & Field Academies

8

Cost of the Program

- ▶ Management Academy (8 days):
 - \$1,950/per person (*Estimation*)
 - *Projected* Costs per Two Academies: \$117,000.00
- ▶ Field Academy (7 days) (2 full-days and 5 half-days)
 - \$1,500/person (*Estimation*)
 - *Projected* Costs per Two Academies: \$90,000.
- ▶ *Estimated* 5-Year Program Costs
 - \$900,000

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Summary of the Presentation

- Introduce Public Utilities Department's Leadership Development Program.
- Provide an overview of the program goals, curriculum, attendee eligibility criteria, timeline, and cost.
- Create a Forum for Open Dialogue with Metro TAC members and City Staff.

10

Questions / Discussion



Item 6

PUBLIC UTILITIES DEPARTMENT
FY 2010 Annual & FY 2011 Proposed Budget- Metro CIP Projects

FUNDING									
SOURCE	Fund No.	CIP NUMBER	WBS #	PROJECT TITLE	Prior Year Costs (FY09 and before)	FY 2010 Budget	FY 2011 Budget	Est. Total Project Cost	Notes
METRO	41509	42-913.0	A-BA.00001	TREATMENT PLANTS ANNUAL ALLOCATION- METRO TREATMENT PLANTS This project provides for improvements and modifications to the existing Metro facilities to implement operating efficiencies, optimization of existing facilities and compliance with revised regulatory and operation plan requirements.		\$1,242,975.00	\$4,000,000.00		
			B-00527	NCWRP EDR #6	\$55,121.94	1,242,975.00		\$2,600,000.00	Total project cost includes estimated Carryover funds from prior year of \$1.3 million.
			new	Point Loma Twelve Sedimentation Basins Equip Refurbishment			\$3,000,000.00	\$7,200,000.00	
			new	MBC Plant Water Systems Improvements		\$200,000.00	\$800,000.00	\$1,000,000.00	
		45-966.0		METRO FACILITIES CONTROL SYSTEM UPGRADE This project provides for the upgrading of the existing Distributed Control System to the current (Emerson) system at the Metro Biosolids Center (MBC).	\$679,163.67	\$2,500,000.00	\$0.00	\$7,200,000.00	Total project cost includes estimated Carryover funds from prior year of \$4 million.
METRO	41509	41-942.0	S-00309	NORTH CITY WATER RECLAMATION PLANT (NCWRP) - SLUDGE PUMP STATION UPGRADE This project will entail a study to determine the source of the vibration and to implement a remediation plan to eliminate the vibration and thus reduce maintenance, and increase equipment life.	\$438.09	\$150,000.00	\$319,976.00	\$470,414.00	
METRO	41509	45-983.0	S-00339	METRO BIOSOLIDS CENTER DEWATERING CENTRIFUGES REPLACEMENT The project will replace 4 of the 8 existing centrifuges with 4 new larger capacity centrifuge units.	\$934.41	\$277,842.00	\$2,000,000.00	\$8,300,000.00	
METRO	41509	45-989.0	S-00323	METRO BIOSOLIDS CENTER ODOR CONTROL FACILITY UPGRADES This project will upgrade the existing Odor Control System.	\$8,045.11	\$582,400.00	\$1,606,493.00	\$5,600,000.00	
METRO	41509	45-993.0	S-00340	NORTH CITY WATER RECLAMATION PLANT - ELECTRODIALYSIS REVERSAL ENCLOSURE This project is to install an enclosure to protect the EDR equipment.	\$0.00	\$240,000.00	\$260,000.00	\$500,000.00	
METRO	41509	45-992.0	S-00324	NORTH CITY WATER RECLAMATION PLANT - ELECTRODIALYSIS REVERSAL UPGRADE This project is to remove and upgrade all EDR equipment	\$0.00	\$230,000.00	\$335,000.00	\$1,100,000.00	
METRO	41509	45-984.0	S-00322	MBC Biosolids Storage Silos This project will add two more storage silos and will also evaluate alternatives for additional truck loadout stations.	\$120,319.71	\$0.00	\$1,600,000.00	\$9,200,000.00	
METRO	41509	45-943.0	S-00315	Point Loma - Grit Processing Improvements The Grit Processing Improvements project will include reconstruction of the old south grit tanks and their adjacent pump gallery, replacement of the headworks building that was constructed in 1962 with a new drive-through facility, expansion of an existing odor removal system and replacement of auxiliary equipment.	\$4,727,066.88	\$0.00	\$10,859,482.00	\$38,586,549.00	
SUBTOTAL					\$5,535,967.9	\$5,223,217.0	\$20,980,951.0	\$70,956,963.0	

FUNDING									
SOURCE	Fund No.	CIP NUMBER	WBS #	PROJECT TITLE	Prior Year Costs (FY09 and before)	FY 2010 Budget	FY 2011 Budget	Est. Total Project Cost	Notes
				LARGE PUMP STATIONS					
METRO	41509	41-926.0	A-BP.00002	ANNUAL ALLOCATION - METROPOLITAN SYSTEM PUMP STATIONS This project provides for comprehensive upgrades, design modifications, major/minor renovations or replacement of major equipment such as: pumps, valves, tanks, controls, odor control system, etc. These improvements will allow the pump stations to be run more efficiently plus increase the reliability of the Metropolitan Wastewater System.		\$337,459.00	\$337,459.00		
			new	Stairway Project at Point Loma Hydroelectric Bldg		\$300,000.00			
METRO	41509	45-915.0	S-00312	PUMP STATION 2 ONSITE STANDBY POWER This project will replace the Engine drives for pumps 4 & 5 with electric motors and provide two generators for electrical power to the pumps at the station. This will provide the required surge protection against an electrical utility outage.	\$0.00	\$748,800.00	\$0.00	\$10,200,000.00	
				SUBTOTAL	\$0.0	\$1,086,259.0	\$337,459.0	\$10,200,000.0	
				OTHER PROJECTS					
METRO	41509	46-502.0	A-BR.00004	POOLED CONTINGENCY This is a pooled contingency fund for Metro projects.		\$94,663.00	\$0.00		
METRO	41509	45-940.0	S-00314	WET WEATHER STORAGE FACILITY This project includes the implementation of the Live Stream Discharge of reclaimed water from the North City Water Reclamation Plant during heavy rain events to reduce the capacity demand on the downstream sewer system and facilities. This project also includes constructing a seven-million gallon (7-MG) Underground Storage Tank at the Liberty Station (vacated Naval Training Center) to provide hydraulic relief to the Pump Station 2, the South and North Metro Interceptors, and the major trunk sewers.	\$1,853,216.00	\$280,766.00	\$432,640.00	\$114,690,000.00	
METRO	41509	45-961.0	S-00317	South Metro Sewer Rehabilitation, Phase 3B This project will rehabilitate the remaining 5000' of the 108" pipeline from Winship Lane to Pump Station 2.	\$0.00	\$0.00	\$500,000.00	\$10,500,000.00	
METRO	41509	n/a	new	MBC Chemical System Improvements PH II This project is to improve the operation and maintenance and address the safety problems at the MBC Chemical Building.	\$0.00	\$0.00	\$600,000.00	\$600,000.00	
METRO	41509	n/a	new	Metro Facilities Control System Upgrade PH II This project provides for the upgrading of the existing Distributed Control System to the current (Emerson) system at the wastewater treatment plants (Point Loma & NCWRP).	\$0.00	\$0.00	\$5,200,000.00	\$8,500,000.00	
				SUBTOTAL	\$1,853,216.0	\$375,429.0	\$6,732,640.0	\$134,290,000.0	
				TOTAL PROJECTS	\$7,389,184	\$6,684,904	\$28,051,050	\$215,446,963	

4. SUMMARY AND CONCLUSIONS

Implementation of recycled water projects can be complex because it involves the identification of willing customers, significant facilities planning, securing financing for construction, and implementation of an operations and maintenance program. When other jurisdictions are included in planning for future projects, it adds additional complexity by adding the need to develop interagency service agreements, cost and financing planning, and liaison with other governing bodies and their decision making processes.

This survey of potential inclusion of wholesale customers within the PAs was designed to identify the level of recycled water planning that is occurring within each jurisdiction by various water purveyors. Three existing wholesale customers (City of Poway, OMWD, and OWD) and two potential additional wholesale customers (SFID and CAL-AM (Coronado)) were identified from the survey responses. Table 4-1 summarizes the current contracted and potential future demands that could be requested of the City's recycled water system. In addition, the combined delivered volume is also included for reference.

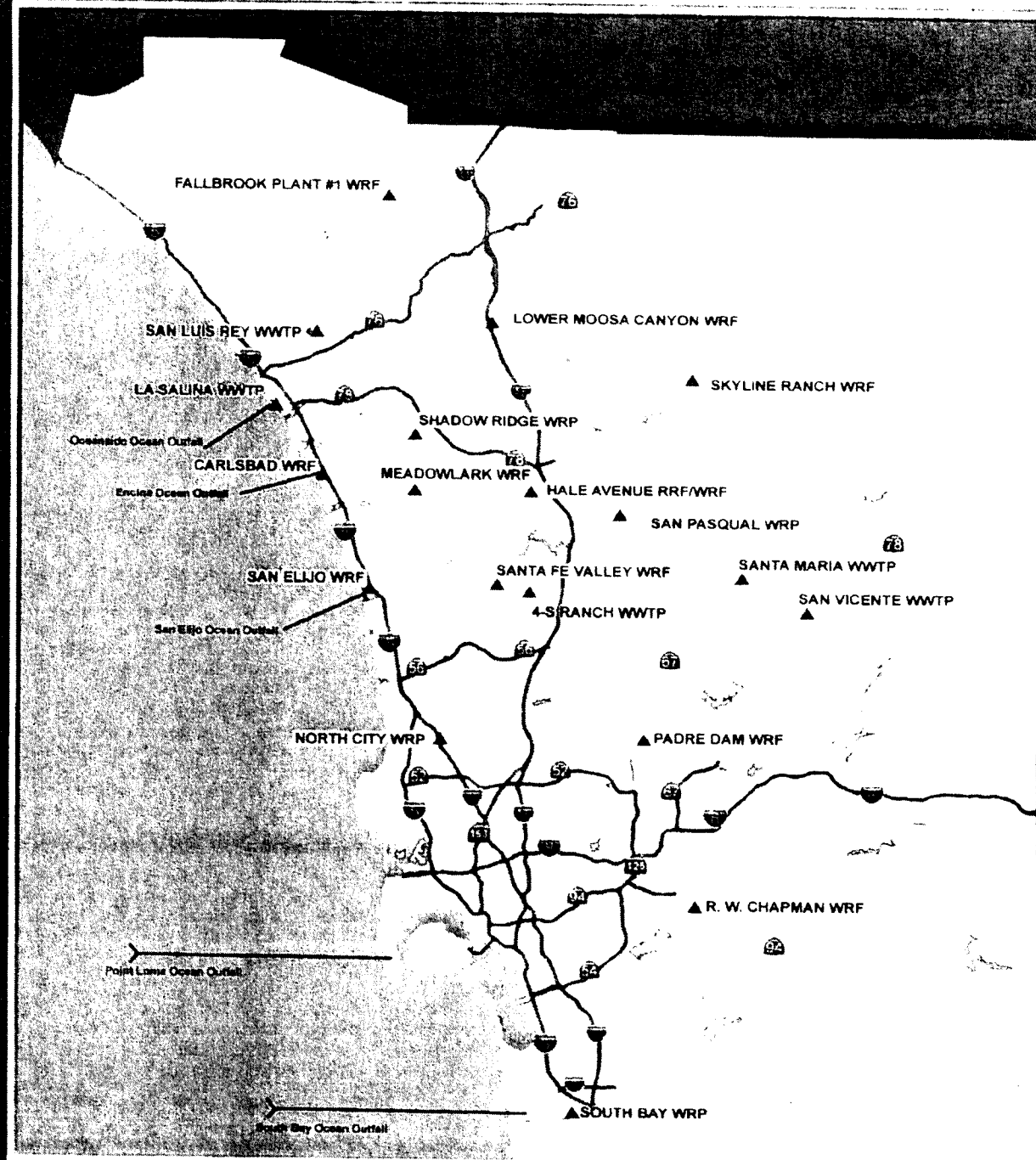
Table 4-1 Summary of Current and Potential Demand from Regional Agencies			
Wholesale Customer	Source	Contracted AFY	FY2035 Potential AFY
Existing Wholesale Customers			
City of Poway	NCWRP	750 AFY	1,200 AFY (if requested)
Olivenhain Water District	NCWRP	400 AFY	1,000 AFY
Otay Water District	SBWRP	6,720 AFY	9,000 AFY
Existing Customer Totals		7,870 AFY	11,200 AFY
Potential Wholesale Customers			
CAL-AM (Coronado)	Not determined	0 AFY	460 AFY (with Navy could be approx 920 AFY)
SFID	NCWRP	0 AFY	150 AFY
Potential Customer Totals		0 AFY	610-1,070 AFY
Combined Totals		7,870 AFY	11,810-12,270 AFY
Actual Quantity Delivered in FY 2009		4,066 AFY	

Generally, the current demand is well below the contracted volumes for each of the wholesale customers. This could be a function of the number of customers currently online, the availability of recycled water from other sources, or other programmatic issues. It could be expected that a continuation of the drought would bring more customers which could in turn increase the amount sold to these water agencies. Regardless, these values are planning numbers for the purpose of identification of the potential of the sale of recycled water by the City to users outside the City's service area.

Realization of the demands identified as potential for the 2035 planning horizon are reliant on development of additional interagency agreements, development of specific projects, and determination of the feasibility of extension of the City's system to various points of connection consistent with the needs of the regional agencies, such as a northern connection for the City of Poway. Further review of the potential of these additional demands will be made as a part of the work done to strategize methods to maximize recycling.



San Diego Area Recycled Water Treatment Plants





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Water Recycling Project

Reuse Totals

Purveyor	Supply Source	Current Reuse (AFY)	Year 2020 Reuse (AFY)	Type of Reuse
<u>Carlsbad M.W.D.</u>	<ul style="list-style-type: none"> Carlsbad WRP Gafner WRF Meadowlark WRF 	1,260	5,000	landscape, agriculture
<u>Del Mar, City of</u>	San Elijo WRF	56	150	landscape
<u>Escondido, City of</u>	Hale Avenue RRF	0	4,200	landscape, agriculture, industrial
<u>Fallbrook P.U.D.</u>	Fallbrook Plant #1	431	850	landscape, agriculture
<u>Oceanside, City of</u>	San Luis Rey WWTP	157	2,700	landscape, environmental
<u>Olivenhain M.W.D.</u>	<ul style="list-style-type: none"> 4-S Ranch WWTP Santa Fe Valley WRF Whispering Palms WPCF 	271	3,800	landscape, environmental, pasture irrigation
<u>Otay W.D.</u>	<ul style="list-style-type: none"> R.W. Chapman WRF South Bay WRP 	971	7,800	landscape, environmental
<u>Padre Dam M.W.D.</u>	Santee Basin WRP	629	900	landscape, environmental
<u>USMC Pendleton</u>	Camp Pendleton WWTP	3,915	800	landscape, environmental
<u>Poway, City of</u>	<ul style="list-style-type: none"> North City WRP San Pasqual WRP 	250	2,700	landscape, agriculture
<u>Ramona M.W.D.</u>	<ul style="list-style-type: none"> San Maria WPCF San Vicente WPCF 	902	1,300	landscape, environmental, agriculture
<u>Rincon Del Diablo M.W.D.</u>	Hale Avenue RRF	0	400	landscape, agriculture, industrial
<u>San Diego, City of</u>	<ul style="list-style-type: none"> North City WRP San Pasqual WRP South Bay WRP 	3,192	19,700	landscape, environmental, industrial
<u>San Dieguito W.D.</u>	San Elijo WRF	405	700	landscape
<u>Santa Fe I.D.</u>	<ul style="list-style-type: none"> San Elijo WRF Rancho Santa Fe WRF 	863	1,090	landscape, environmental

San Diego County Water Authority - Water Management - Recycling

	<ul style="list-style-type: none"> Fairbanks Ranch WRF 			
Valley Center M.W.D.	<ul style="list-style-type: none"> Lower Moosa Canyon WRF Woods Valley Ranch Treatment Plant (proposed) Skyline Ranch Country Club 	304	1,620	landscape, environmental
Vista I. D.	Shadowridge WRF <i>see 11/16/09</i>	339	300	landscape

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Water Authority

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Water Management

Water Recycling Facilities

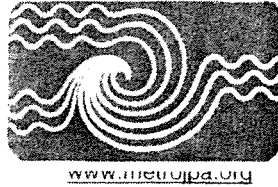
Facility	Agency	Current Tertiary Capacity (MGD)	Year 2020 Tertiary Capacity (MGD)	Wastewater Disposal
4-S Ranch Wastewater Treatment Plant	Olivenhain M.W.D.	0.0	2.0	Ocean
Camp Pendleton Wastewater Treatment Plant	USMC	0.7	10.0	Stream
Encina Water Pollution Control Facility Carlsbad Water Reclamation Plant	Carlsbad M.W.D.	0.0	4.0	Ocean
Fairbanks Ranch Water Pollution Control Facility	Fairbanks Ranch C.S.D.	0.0	0.3	Percolation Ponds
Fallbrook Plant #1	Fallbrook P.U.D.	2.7	2.7	Ocean
Gafner Water Reclamation Facility	Leucadia C. W.D.	1.0	2.0	Ocean
Hale Avenue Resource & Recovery Facility	Escondido, City of	0.0	9.0	Ocean
Lower Moosa Canyon Water Reclamation Facility	Valley Center M.W.D.	0.0	1.0	Percolation Ponds
Meadowlark Water Reclamation Facility	Vallecitos W.D.	2.0	3.0	Ocean
North City Water Reclamation Plant	San Diego, City of	4.0	45.0	Ocean
R. W. Chapman Water Pollution Control Facility	Otay W.D.	1.3	3.9	Ocean
San Elijo Water Pollution Control Facility	San Elijo J.P.A.	0.0	2.5	Ocean
San Luis Rey Wastewater Treatment Plant	Oceanside, City of	0.7	5.0	Ocean
San Pasqual Water Reclamation Plant	San Diego, City of	1.0	6.0	Ocean
San Vicente Wastewater Treatment Plant	Ramona M.W.D.	0.6	0.8	Stream
Santa Valley Water Reclamation Facility	Olivenhain M.W.D.	0.0	0.5	Percolation Ponds
Santa Maria Water Pollution Control Facility	Ramona M.W.D.	0.35	1.5	Stream
Santee Basin Water	Padre Dam			



Reclamation Facility	M.W.D.	2.0	4.0	Ocean
Shadowridge Water Reclamation Plant	Vista I.D.	1.2	2.5	Ocean
South Bay Water Reclamation Plant	San Diego, City of	0.0	15.0	Ocean
Valley Center Wastewater Treatment Plant	Valley Center M.W.D.	0.0	0.2	Percolation Ponds
Whispering Palms Water Pollution Control Facility	Whispering Palms C.S.D.	0.0	0.4	Percolation Ponds

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December 7, 2009

Jim Barrett
City of San Diego
Metro Wastewater Director
9192 Topaz Way
San Diego, CA 92123

Dear Mr. Barrett:

Thank you for providing the City's comments to us regarding our comments on the City's draft Recycled Water Pricing Study. We have circulated the City's October 2009 comments to MetroTAC members and have compiled their responses and attached them to this letter. Please address these in the next draft of the Recycled Water Pricing Study.

We understand from the City's comments at the November 2009 MetroTAC meeting that the City has asked its consultant to address the difference between wholesale and retail customers and we look forward to reviewing the next version of this concept. When you include the Metro JPA members in discussions of options, better decisions are made that benefit all stakeholders and the region as a whole.

The City's originally proposed unitary rate has been of major concern to the participating agencies. While the general consensus is that the suggested rate is equitable for your retail customers as their only alternative is to purchase irrigation water from the City, it is inequitable to wholesale customers who have put in their own distribution systems. Enacting a unitary rate for all reclaimed water sales disincentivises wholesale customers to purchase the City's reclaimed water. In addition excessive pricing to your wholesale users, as suggested by the pricing study, contradicts the stated purpose of the City's current \$2 million Recycled Water Study, specifically the goal to increase reclaimed water usage.

To summarize our main points: (1) Given Metro JPA members' financial stakes in the Metro System and the production costs of reclaimed water it is our expectation that the PA's will have adequate time to review the next draft and any changes that might come from that review; and (2) the rates must be fair and equitable to all parties, and set at appropriate levels that balance the facilitation of increased use of reclaimed water per the City's agreement with the environmental community (and the subsequent \$2 million Recycled Water Study), while providing additional monies to operate the system.

Sincerely,

Scott Huth
MetroTAC Chairman

Attachment A

Cc: Marci Steirer, Rod Greek

The Joint Powers Authority Proactively Addressing Regional Wastewater Issues

Chula Vista • Coronado • Del Mar • Imperial Beach • La Mesa • Lemon Grove Sanitation District
National City • Otay Water District • Poway • Padre Dam Municipal Water District
County of San Diego, representing East Otay, Lakeside/Alpine, Spring Valley & Winter Gardens Sanitation Districts

Attachment A

Summary of MetroTAC Comments on October 28, 2009 City Response Regarding Recycled Water Pricing Study

1. Before the City of San Diego continues with this study The City should meet with its wholesale customers and create a unitary contract that is equitable to all parties. Satisfied wholesale customers are an almost no cost source for increased recycled sales for both plants. In addition excessive pricing to your wholesale users, as suggested by the pricing study, contradicts the stated purpose of the City's current \$2 million Recycled Water Study, specifically the goal to increase reclaimed water usage.
2. Enacting a unitary rate for all reclaimed water sales disincentivises wholesale customer to purchase the City's reclaimed water. All of your wholesale customers have raw water available and have put in their own distribution systems, thus why should they pay the City more than another alternative? Thus the City should develop a separate wholesale rate tied to some other equitable alternative for your wholesale customers. We understand from the City's comments at the November 2009 MetroTAC meeting that the City has asked its consultant to address the difference between wholesale and retail customers and we look forward to reviewing the next version of this concept.
3. The City's draft pricing study shows the reclaimed utility making a profit after a few years. This could potentially jeopardize CWA and MWD credits. Please revise the report to include all wastewater costs in addition to water costs so that the City does not risk CWA reading it and taking the credits away just because all costs are not shown. From information you have provided us we have prepared the annual capital and O&M costs for you to include in the City's report that are for tertiary capital facilities and the production cost between secondary and tertiary for reclaimed water.

Summary of All Expenses By Year

		Tertiary Debt Service North	Tertiary Debt Service South Bay	Tertiary O&M Cost NCWRP (Acre Feet)	Tertiary O&M Costs SBWRP (Acre Feet)	Total Annual
	Pay-Go Capital	City (estimated)	(estimated)			
2003	\$16,233,488.00	\$ 20,531,000.00		\$ 517,117.69		\$ 37,281,605.69
2004		\$ 20,531,000.00		\$ 602,888.36		\$ 21,133,888.36
2005	\$ 1,423,122.15	\$ 20,531,000.00		\$ 596,958.25		\$ 22,551,080.40
2006		\$ 20,531,000.00		\$ 721,377.18		\$ 21,252,377.18
2007	\$ 212,217.13	\$ 20,531,000.00	\$ 12,077,000.00	\$ 1,399,911.45	267,949.14	\$ 34,488,077.72
2008	\$ 493,829.18	\$ 20,531,000.00	\$ 12,077,000.00	\$ 825,498.93	883,849.73	\$ 34,811,177.84
2009	\$ 508,439.00	\$ 20,531,000.00	\$ 12,077,000.00	\$ 908,098.74	893,938.59	\$ 34,918,476.33
Total to Date	\$18,871,095.46	\$ 143,717,000.00	\$36,231,000.00	\$ 5,571,850.61	\$ 2,045,737.46	\$ 206,436,683.53

Omitting \$35 million dollars per year from the City's costs because they are being borne by the Metro System wastewater customers does not give a true picture of what it costs to produce and distribute reclaimed water. Please show all the cost in the final report including wastewaters' so that it does not look like the City is making a profit. When CWA does its audits, net costs should never be positive or the credits will be revoked. Please insure City staff understands the process so that this valuable funding source is not removed.

4. Rod Greek stated at the MetroTAC November meeting that the Recycled Water Pricing Study was due to be completed as a "Final Draft" by the end of December 2009. As Metro Member Agencies we have a 35% stake in the revenues and the \$34 million per year of expenses to produce reclaimed and thus should have input into the final rates that the City establishes. The City did not consult the participating agencies when the reclaimed water rate was adjusted to \$350 per acre foot and therefore have delayed the PA's repayment of the debt service associated with the original optimized system. We have also not been consulted regarding the revenue loss to us by not indexing the reclaimed water rate on an annual basis. We have substantial financial interest in the City correctly pricing reclaimed water, especially to the City's wholesale customers such as Otay and Poway who are already paying an average of \$203 per acre foot to just produce the reclaimed water the City is selling to them (i.e. the difference between secondary and tertiary).

5. Avoiding duplication of charges is a basic concept in any rate study. Charging a base charge is an accepted practice but when the same costs are collected via the commodity charge, this is a duplicate charge. These include meter reading and maintenance, customer service, etc. Your draft study includes these costs in both the commodity charge and the base charge.

AGENDA ITEM 8

Attachment

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Grit Processing Improvement Project
at the Point Loma Wastewater Treatment Plant

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F. Stuart Seymour, P.E.
Associate Civil Engineer
City of San Diego, E&CP

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Background

The Point Loma Wastewater Treatment Plant (PLWTP) has six aerated grit basins, divided into south, central and north pairs of tanks. The south tanks were constructed as part of the original treatment plant in 1962. The central tanks were added in 1983 and the north tanks were added in 1988. Removal of grit was found to be more efficient at average flow when the south tanks were not used. In 1992, the south tanks were taken out of service.

Replacement and/or modification of the south tanks was in the original Interim Order for the Clean Water Program of greater San Diego. Other improvements to the preliminary treatment area were also deemed necessary. In early 1995 design began on a \$30 million (1995 dollars) upgrade to the headworks screening, odor control and grit removal processes at PLWTP (HOG). This project received environmental clearance via the Point Loma Wastewater Treatment Plants Master Plan EIR.

In 1996, with limited funding and shifting priorities, the greater HOG project had to be rescheduled to the 2004-2010 time frame. Conveyance and processing of the screenings, grit valves and other equipment still needed improvement. The department also thought it would be wise to test out grit processing equipment envisioned to be installed as part of the future HOG project and commitments had been made to improve the odor control at the plant which included changing out the chemical oxidants from hydrogen peroxide to sodium hypochlorite. In 1996 design began on an interim project (H3R) to construct the above improvements. The construction of this project was completed in the summer of 2001.

Concern about the adequacy of the grit removal system has always been an issue. Huge loads of sediment (primarily medium to fine sand and silt) have settled out downstream of the grit tanks into the west influent tunnel, primary sediment basins, and digesters. Sediment accumulation in the digesters reduces their treatment capacity, and increases cleaning costs and schedule. When the digested biosolids are pumped to the Metro Biosolids Center (MBC) for further processing it affects the operations, maintenance and performance at that facility as well. It places greater wear and tear on the pipelines and equipment throughout the system. During peak flows of 432 mgd with only four tanks in service it is difficult to meet the guidelines for grit basin detention time.

Proposed Project

This proposed Grit Processing Improvements Project (GIP) at the Point Loma Wastewater Treatment Plant, consists of the remaining portions of the HOG project, which is covered in the Master Plan EIR, but not constructed as part of the H3R project. The major components in the this project include reconstruction of the south grit tanks and its adjacent pump gallery, replacement of the 1962 grit processing headworks building with an odor controlled, drive through facility and new grit processing equipment.

Improvements to the reconstructed South Grit tanks will include widening and deepening the channels and relocation of the tank influent and effluent ports to increase detention time, increasing the slope of the tank bottom to promote grit migration and installation of longitudinal

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¶ In January 1998, with ongoing maintenance of the screens installed in 1983, the H3R project was expanded to include replacement of the five existing climber screens with new bar screens. The H3R project was bid at \$8.2 million and construction began in January 1999.

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¶ All six grit tanks are needed during wet weather flows to improve grit removal rates. Even with the six tanks in service, the department's guidelines for grit basin detention time at a peak flow of 432 mgd are not being met. Recently as part of rehabilitation work, it has been necessary to take one of the four operating tanks out of service. During these times, particularly with one of the larger north tanks out of service, the suspended solids and biochemical oxygen demand (BOD) removal rates have suffered to the point where the annual running average for BOD was below 58 percent for a period of two months.

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and transverse baffles to promote grit removal.

Improvements to the new headworks building will include a new grit storage and loading facility which will replace the existing Cyclone grit separators with the newer technology of Teacups and Snail grit classifiers. This building will provide a drive through loading capability with containment of odors.

The proposed project will first construct an interim Grit Processing Facility to allow plant operations to continue while the original facility is demolished and the new facility is constructed. This interim facility and associated piping will be demolished and removed when the new facility is completed and accepted. The contractor will maintain this interim facility and the plant staff will operate it during the construction process.

Cost and Schedule

- Tentative Schedule – Council Approval March 2010
Award March 2010 - May 2010
Construction June 2010 - January 2013

- Opinion of Construction Cost \$28,800,000

The schedule is budget dependent and subject to City Council approval

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The project described above was placed on hold in 2003 because the City was pilot testing for secondary wastewater treatment at PLWWTP. If the proposal for secondary treatment had gone forward the footprint of the proposed secondary facility would have conflicted with the proposed grit processing facility. Therefore it was decided to delay the Grit facility until such time that a decision could be made regarding secondary treatment at PLWWTP. While the GIP was delayed a portion of it had to be constructed, the Grit Aeration System (GAS). The design for the GAS was removed from the GIP and repackaged to allow a construction project to go forward. This portion of the original GIP went forward and was constructed at a bid cost of \$1,905,000 in 2005¶

¶
Recently California adopted the 2006 International Building Code (IBC). The GIP was previously designed using the 1997 Uniform Building Code (UBC) and the 2001 California Building Code (CBC). The new IBC is considera ... [3]

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In Fall of 1999, Engineering and Program Management staff met with PLWWTP O&M staff to determine the recommended improvements that will be included in a

New Proposed Project

The project described above was placed on hold in 2003 because the City was pilot testing for secondary wastewater treatment at PLWWTP. If the proposal for secondary treatment had gone forward the footprint of the proposed secondary facility would have conflicted with the proposed grit processing facility. Therefore it was decided to delay the Grit facility until such time that a decision could be made regarding secondary treatment at PLWWTP. While the GIP was delayed a portion of it had to be constructed, the Grit Aeration System (GAS). The design for the GAS was removed from the GIP and repackaged to allow a construction project to go forward. This portion of the original GIP went forward and was constructed at a bid cost of \$1,905,000 in 2005

Recently California adopted the 2006 International Building Code (IBC). The GIP was previously designed using the 1997 Uniform Building Code (UBC) and the 2001 California Building Code (CBC). The new IBC is considerably different than the UBC and requires the designer to review all of the structural components and make the necessary changes. Along with the structural changes the designers will also look at the equipment specifications to be sure the latest equipment and manufactures models are being used. The technology has not changed appreciably.

Grit Aeration System Removal

Building code upgrade

Cost Estimate Upgrade

Specification Review and Upgrade

The design package is to be redesigned from approximately the 60 % level. This will allow all the structural revisions to be reviewed. The original consultant, Lee & Ro Consulting Engineers will be doing the work. The processing for the project with them is presently under way. It is hoped that the work will begin in August, 08

AGENDA ITEM 10

Attachment

Metro Wastewater JPA

Treasurer's Report
Six months ending December 31, 2009

Metro Wastewater JPA

Treasurer's Report
Six Months Ending December 31, 2009
Unaudited

Beginning Cash Balance at July 1, 2009 **\$ 79,890**

Operating Results

Membership dues & Interest income	\$ 105,452
Expenses	<u>\$ (106,292)</u>
Net Income (Loss)	<u>\$ (840)</u>
Net change in receivables & payables (see cash flow statement)	<u>\$ 82,300</u>

Cash provided (used) from operating activities **\$ 81,460**

Ending Cash Balance at December 31, 2009 **\$ 161,350**

Submitted by:

Doug Wilson, Treasurer

13-Jan-10

Metro Wastewater JPA - C/O Padre Dam MWD
Balance Sheet
As of December 31, 2009

	<u>Dec 31, 09</u>	<u>Jun 30, 09</u>	<u>\$ Change</u>
ASSETS			
Current Assets			
Checking/Savings			
California Bank & Trust	158,646	75,858	82,787
California Bank - checking	2,705	4,032	-1,327
Total Checking/Savings	161,350	79,890	81,460
Accounts Receivable			
Accounts Receivable	31,225	3,232	27,993
Total Accounts Receivable	31,225	3,232	27,993
Total Current Assets	192,575	83,122	109,453
TOTAL ASSETS	192,575	83,122	109,453
LIABILITIES & EQUITY			
Liabilities			
Current Liabilities			
Accounts Payable			
Accounts Payable	27,274	21,981	5,293
Total Accounts Payable	27,274	21,981	5,293
Other Current Liabilities			
Unearned Membership Billings	105,000	0	105,000
Total Other Current Liabilities	105,000	0	105,000
Total Current Liabilities	132,274	21,981	110,293
Total Liabilities	132,274	21,981	110,293
Equity			
Retained Equity	61,141	12,194	48,948
Net Income	-840	48,948	-49,788
Total Equity	60,301	61,141	-840
TOTAL LIABILITIES & EQUITY	192,575	83,122	109,453

Metro Wastewater JPA - C/O Padre Dam MWD
Profit & Loss Budget vs. Actual
July through December 2009

	<u>Jul - Dec 09</u>	<u>Budget</u>	<u>\$ Over Budget</u>
Ordinary Income/Expense			
Income			
Membership Dues	105,000	105,000	0
Interest_ Income	452	750	(298)
Total Income	105,452	105,750	(298)
Expense			
PBS&J	72,598	53,000	19,598
Legal	15,707	17,500	(1,793)
Administrative Support - Padre	7,145	7,000	145
Per Diem - Agency	6,450	12,375	(5,925)
Metro/JPA/TAC meeting expens...	1,831	2,750	(919)
Administrative Assistant	750	1,200	(450)
Automobile Expense	669	1,500	(831)
Office Supplies	646	250	396
Public Information	374	1,000	(626)
Bank charges	108	0	108
Business meals	14	0	14
Contingencies	0	5,000	(5,000)
Financial Consulting	0	1,500	(1,500)
Miscellaneous	0	375	(375)
Dues and Subscriptions	0	300	(300)
Total Expense	106,292	103,750	2,542
Net Ordinary Income	(840)	2,000	(2,840)
Net Income	<u>(840)</u>	<u>2,000</u>	<u>(2,840)</u>

Statement of Cash Flows

July through December 2009

	<u>Jul - Dec 09</u>
OPERATING ACTIVITIES	
Net Income	-840
Adjustments to reconcile Net Income to net cash provided by operations:	
Accounts Receivable	-27,993
Accounts Payable	5,293
Unearned Membership Billings	105,000
Net cash provided by Operating Activities	<u>81,460</u>
Net cash increase for period	81,460
Cash at beginning of period	<u>79,890</u>
Cash at end of period	<u><u>161,350</u></u>

Metro Wastewater JPA - C/O Padre Dam MWD
A/R Aging Summary
As of December 31, 2009

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
City of El Cajon	0.00	0.00	0.00	0.00	29,478.00	29,478.00
City of San Diego - Metro Wastewater Dept	1,747.00	0.00	0.00	0.00	0.00	1,747.00
TOTAL	1,747.00	0.00	0.00	0.00	29,478.00	31,225.00

Metro Wastewater JPA - C/O Padre Dam MWD
Vendor Balance Summary
All Transactions

	<u>Jan 1, 10</u>
Augie Caires	555.60
Best Best & Krieger	1,354.81
Lori Anne Peoples	2,462.62
Padre Dam	125.40
PBS&J	22,538.50
Philadelphia Sandwich Company	237.02
TOTAL	<u>27,273.95</u>