

City Council Water Committee

Meeting Agenda

Friday, February 12, 2010

**COUNCIL CHAMBERS, CITY HALL, 2ND FLOOR
7:30-9:00am (Front doors will be unlocked at 7:15am)**

- I. Call to Order
- II. Roll Call
- III. Approval of Agenda
- IV. Approval of Minutes from September 22, 2009 meeting.
- V. Public Comments on Items Not on the Agenda
- VI. Update – Water Resources
 - a. Water Supply & Demand Analysis
 - b. Storage and Snowpack
- VII. City Update – Water Projects
 - a. Water Meter System (AMR)
 - i. project status
 - ii. procedures for meter replacement
 - b. NWTP Filter Media Replacement
 - c. NWTP Filter Control Consoles
 - d. Other
- VIII. Legal
 - a. Marshall Lake/South Boulder & Coal Creek Ditch Transfer Case
 - b. Eldorado Springs Transfer Case
 - c. Diligence cases
 - d. Other
- IX. Discussion – Potential Impacts on Utility Fund from Loan to Golf Course Fund
- X. Current Events
 - a. Status of Denver Water’s Moffat System Expansion
 - b. Augmentation on South Boulder Creek
 - c. Other
- XI. Agenda Items and Date for Next Meeting
- XII. Adjourn 9:00 am

City of Louisville

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City Council Water Committee

-DRAFT - Meeting Minutes

**Tuesday, September 22, 2009
Council Chambers, City Hall, 2nd Floor
6:00-6:55 pm (Front doors will be unlocked at 5:45 pm)**

I. Call to Order – Chairman Robert Muckle called the meeting to order at 6:00 pm.

II. Roll Call was taken and the following members were present:

City Council: *Mr. Dalton, Mr. Muckle and Mr. Sisk*

Absent:

Staff Present: *Mr. Fleming, Mr. Phare, and Mr. Mathes. Ken Mason, Steve Hite, and Kevin Watson were present for the Water Meter System discussions.*

III. Approval of Agenda: Agenda approved.

IV. Approval of the Minutes: Approval of Minutes from June 5, 2009 meeting with header date correction.

V. PUBLIC COMMENTS ON ITEMS NOT ON THE AGENDA: None.

VI. City Update – Water Projects

- a. Water Meter System – Tom made a brief introduction on the proposed meter replacement project. The proposed project is to replace all customer meters with new meters with radio read capabilities. The majority of the City's water meters were installed in the 80's and 90's and have reached or exceeded their useful live cycles. Current industry standards and warranties are for 15 years, before replacement is recommended. A summary of the evaluation of the automated meter reading equipment evaluation was provided and posted on the wall of the Council Chambers.

Ken Mason then presented information on the City's existing meter program and the proposed radio read meter project. The information presented included the RFP for new meter systems, response to the RFP from vendors, reference checks of vendors, evaluation of vendors, Beta testing of two selected vendors, pricing alternatives, potential project scheduling, impacts on

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services provided and staffing requirements, and integration with the City's current/future financial software package. A discussion as to the pros and cons of the various equipment options and vendor's took place.

The Water Committee approved a recommendation to Council to for the utilization of Vendor A for the meter replacement project.

- b. Water Conservation Plan – the Committee was informed that a draft Water Conservation Plan is out for public comment (copies on the City's website, at the Library Reference Desk, and at the City Clerk's Office). The draft Plan will be presented at the October 8th Planning Commission Meeting which, depending on the extent of revisions, be presented to Council for adoption in November. Please provide any comments to Dan Mathes by October 21, 2009 or sooner if possible.

The draft Plan discusses current water conservation measures that have been implemented by the City of Louisville and their results. Future measures are items that will be implemented in the near future. As the Plan shows the conservation practices have been effective and the City's per capita demands are slightly better than the Front Range average.

VII. Update – Water Resources (as time permits)

- a. Water Supply & Demand Analysis – the usual table and chart, updated through September, was handed out showing the projected demand, storage and diversions through the end of 2010. An additional chart showing how the current year has compared to previous years was presented. A brief discussion of overall water resource supply & demand, costs, and ultimate demands followed.
- b. Storage – current storage levels are near the running 5 year average.

VIII. Agenda Items and Date for Next Meeting

- a. The next meeting should be scheduled after the 1st of the year.

XI. Adjourn: The meeting was adjourned at 6:55 pm.

**ITEM VI.a.
CITY OF LOUISVILLE
WATER PROJECTIONS
February 2010**

Assumptions:

Starting Storage (3)		C-BT/WG (4)		Direct Diversions*		Demand	
LV Res	192 AF	yr 1	units	quota	Less LV Res Right (Apr-Oct)	yr 1	4900 AF/yr
Harper Res	644 AF	C-BT	1937	0.5	yr 1	3210	AF/yr
Marshall Res	1775 AF	Carryover		0.1	yr 2	3210	AF/yr
Windy Gap	900 AF	WG	9	1	100AF/unit	LV Res Right (Nov - Mar)	Usage Factor
C-BT	0 AF	yr 2			yr 1	290	100%
		C-BT	1937	0.6	yr 2	290	100%
		Carryover		0			
		WG	9	0.5	100AF/unit		
					Marshall	Units	SB&CCD
					Trans.	Untrans.	quota
					AF	Trans.	Untrans.
					yr 1	322.654	30
					yr 2	322.654	35
						3.5	3
					yr 1	363	15
					yr 2	0	0

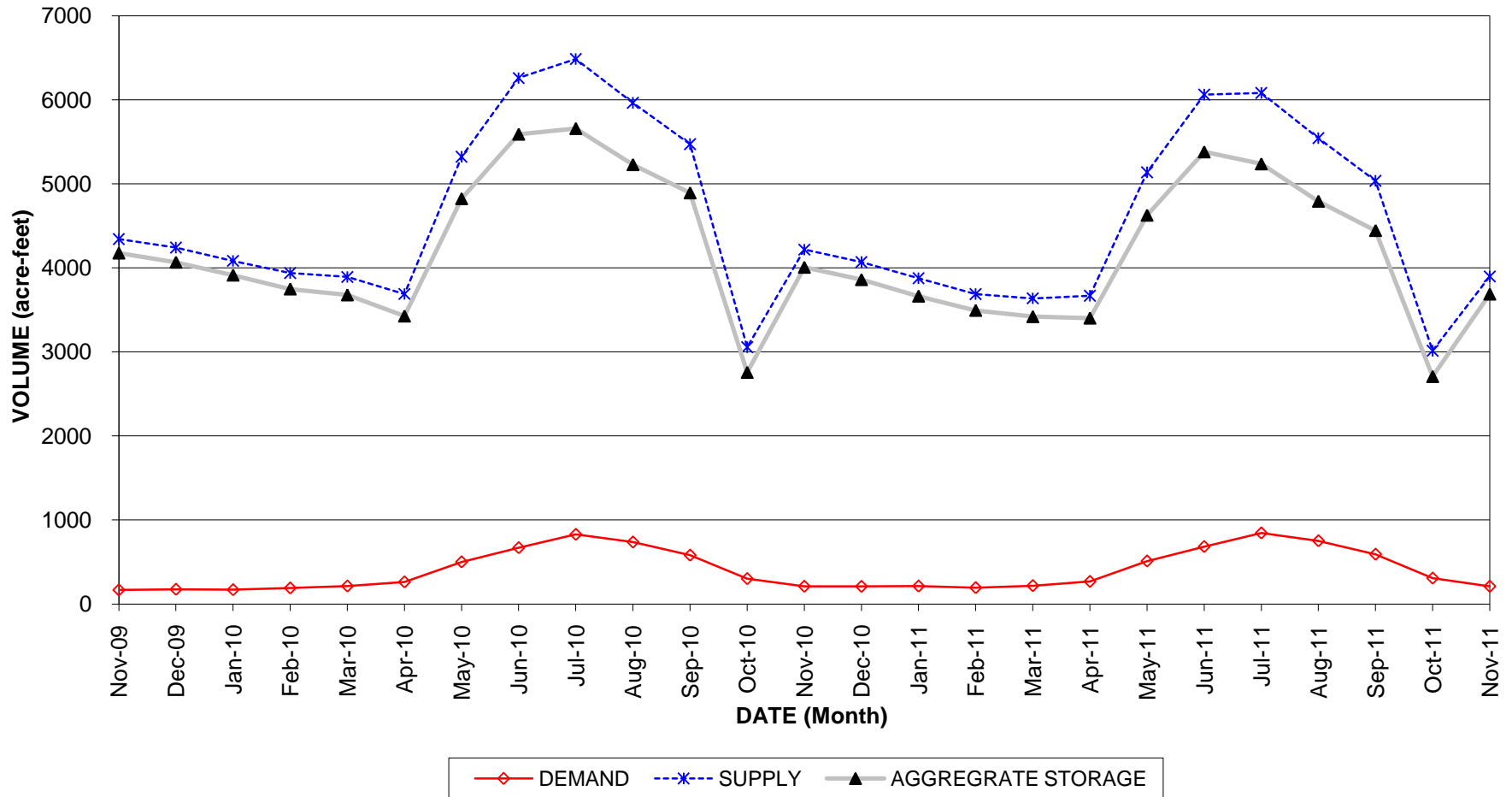
Demand (Acre Feet)					SUPPLY (Acre Feet)										Est. Annual Water Supply Index (WSI)
(5)		(2)		(2,5)	(1)										
Year	Treated	Golf Course	Fishing Pond	Total	Spill	CBT	WG	Harper	Louisville	Direct Diversions*	Storage in Marshall	Foreign Stor. In Marshall	Total	Supply - Demand	
Nov-09	167	4	0	167		969	900	644	192	69	(206)	1775	4342	4175	
Dec-09	175	0	0	175						66			4241	4066	
Jan-10	170	0	0	170						17			4083	3913	
Feb-10	190	1	0	190						25			3938	3747	
Mar-10	214	3	0	214						143			3891	3677	
Apr-10	262	12	0	262			(90)			101			3688	3426	
May-10	501	25	0	501						662	1234		5322	4822	
Jun-10	669	37	0	669						1058	378		6258	5589	
Jul-10	827	46	0	827		194				351		350	6484	5657	
Aug-10	736	36	0	736						306			5963	5228	
Sep-10	580	29	0	580						244			5471	4891	
Oct-10	301	13	0	301		(1162)	(810)			137			3057	2755	
Nov-10	210	7	0	210		969	450			43			4216	4006	
Dec-10	209	0	0	209						62			4068	3859	
Jan-11	213	0	0	213						17			3876	3663	
Feb-11	194	1	0	194						25			3688	3493	
Mar-11	218	3	0	218						143			3637	3419	
Apr-11	268	12	0	268		194	(45)			101			3669	3401	
May-11	511	25	0	511						662	1073		5136	4625	
Jun-11	682	37	0	682						1058	378		6061	5379	
Jul-11	844	46	0	844		0				351		350	6080	5236	
Aug-11	751	36	0	751						306			5543	4792	
Sep-11	592	29	0	592						244			5035	4444	
Oct-11	308	13	0	308		(1162)	(405)			137			3014	2706	
Nov-11	210	7	0	210		969	180			43			3897	3687	
Total															
yr 1	4,792	207	0	4,792						3,529			3,057	2,755	
yr 2	5,000	210	0	5,000						3,500			3,014	2,706	

NOTES:

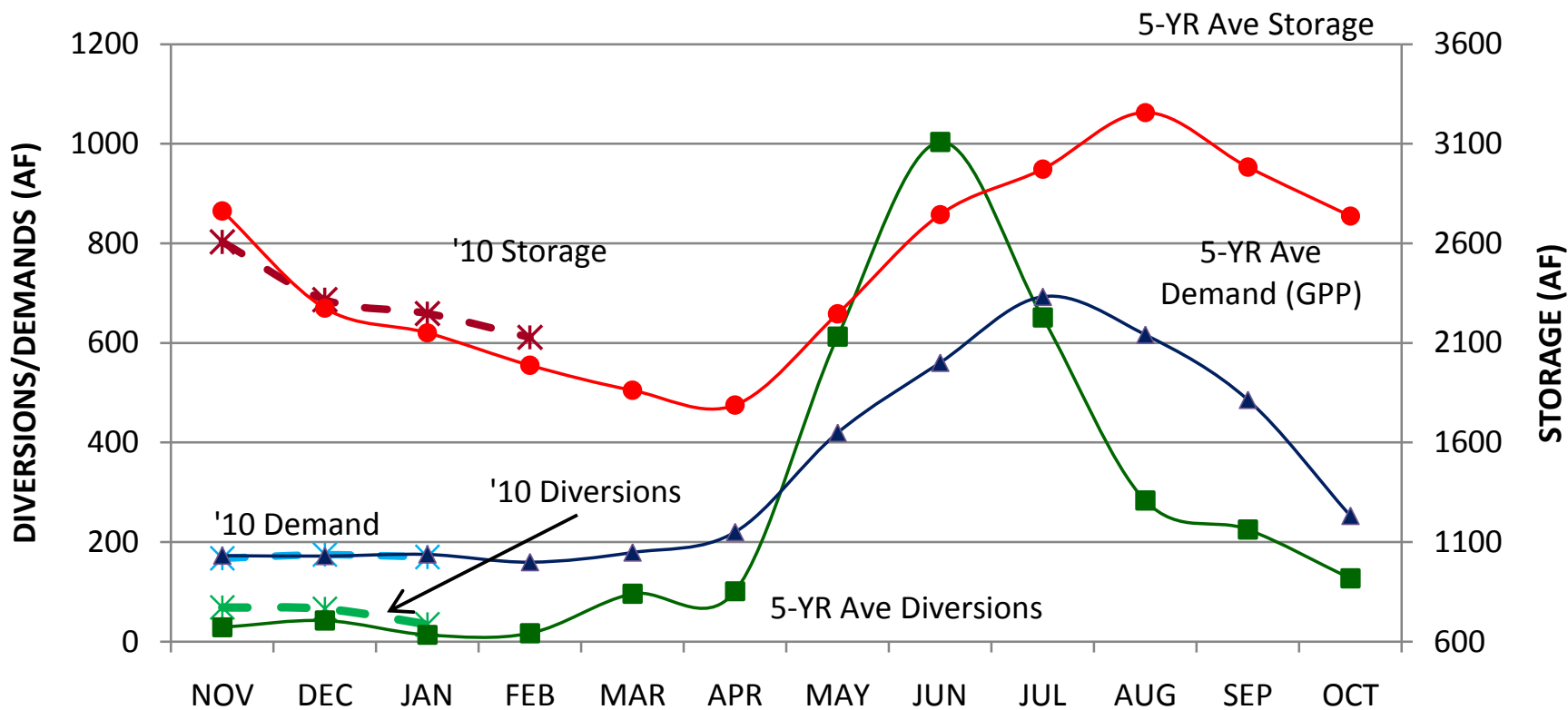
- Distribution of diversions uses a 5-year average distribution, actual 2009/10 values used if known. Marshall Direct and SBCC Direct average approximately 675 AF/year.
- Assuming that Golf Course demands are met by Reuse System or untransferred direct flows, thus not part of Municipal Raw Water System.
- Actual storage as of Nov 1, 2009
- C-BT and Marshall Quota's are assumed for 2010 and 2011. Winter 2010 Quota of .5 declared for C-BT (Nov), Supplemental Quota (Apr), Carryover (Jul). WG 2008 in storage, slight chance of spill in 2009. Conservatively assuming lower C-BT and WG quota in second year.
- Demands use a 5-year average demand distribution (06-09), actual 2010 values used if known.
- Assumed that C-BT and WG use is minimized when other water is available, thus usually spills back to user pool for reallocation. WG spills first then C-BT based on pipeline capacity to NWTP (4cfs).
- Untransferred Marshall share include leased shares. Used for Golf Course, Community Park, Ball Fields, and to cover losses, etc..
- Assumes that Marshall Lake will fill and spill in 2010. 1515 AF carried over to meet winter demands Nov. 15-Apr. 15 and minimal spill in the second year.
- Water Supply Index (WSI) is estimated based on existing conditions and forecasted future conditions. There will be variations in the WSI throughout the hydrological cycle. Calculated based on refined data set see 'WSI' worksheet for more details.

$WSI = \frac{\text{Supply}}{\text{Demand}} = \frac{\text{Targeted Carryover} - \text{Carryover}(\text{last}) + \text{SBC Directs} + \text{C-BT} + \text{WG} + \text{Marshall Lake}}{\text{Demands}}$

**ITEM VI.a
CITY OF LOUISVILLE
WATER PROJECTIONS FEBRUARY 2010**
Assumptions: (2010) average demand = 4900 AF, total direct diversions = 3500AF
(2011) demand = 5000AF, total direct diversions = 3500AF



ITEM VI.b. CURRENT WATER YEAR vs 5-YR AVERAGE (Monthly Comparison)



Financial Projections for Combined Utility Fund with Bond Defeasance

