

INFO ITEM 1:

REGIONAL WASTEWATER SYSTEM FLOW, 2013 MUNICIPAL WASTEWATER CHARGES, REGIONAL I/I PROGRAM UPDATE

Environment Committee, May 22, 2012



Presentation Outline

- ❑ General Wastewater Flow Metering System
- ❑ 2005 - 2012 Regional Wastewater Flow Volumes
- ❑ Projected 2013 Municipal Wastewater Charge Volumes
- ❑ Cost Allocation Process & Potential Cost Increases to Communities
- ❑ Phase One I/I Program Update
- ❑ On-going I/I Program Update

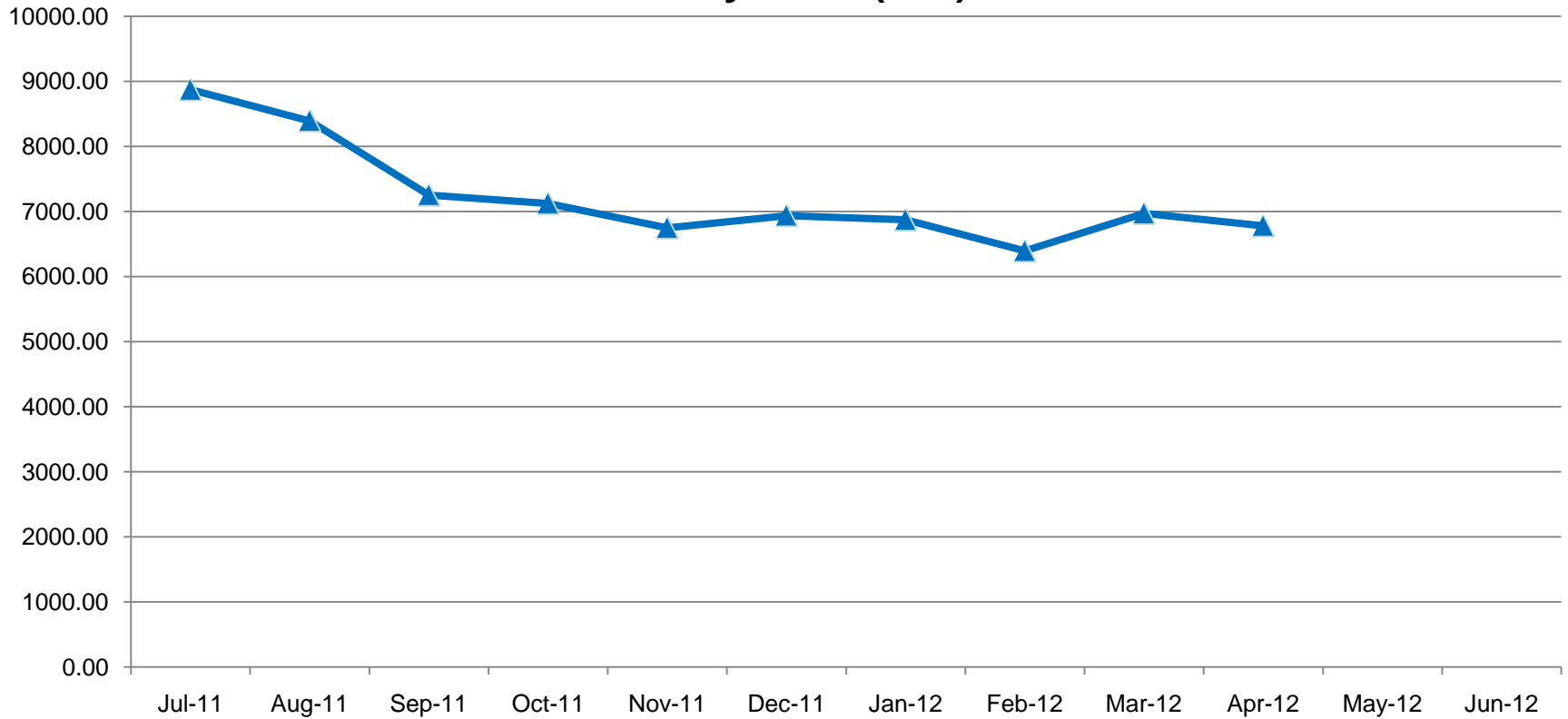
Regional Wastewater Service Summary

General Flow Measurement Overview

- 106 Communities provided regional wastewater service
 - ✓ **Elko New Market – Service start 10/18/11**
- Approximately 190 wastewater flow meters in system
- Municipal Wastewater Charges (MWC) based on:
 - Measured flow
 - Estimated flow
 - Combination of Measured & Estimated
- 2013 MWC flow period between July 1, 2011 and June 30, 2012

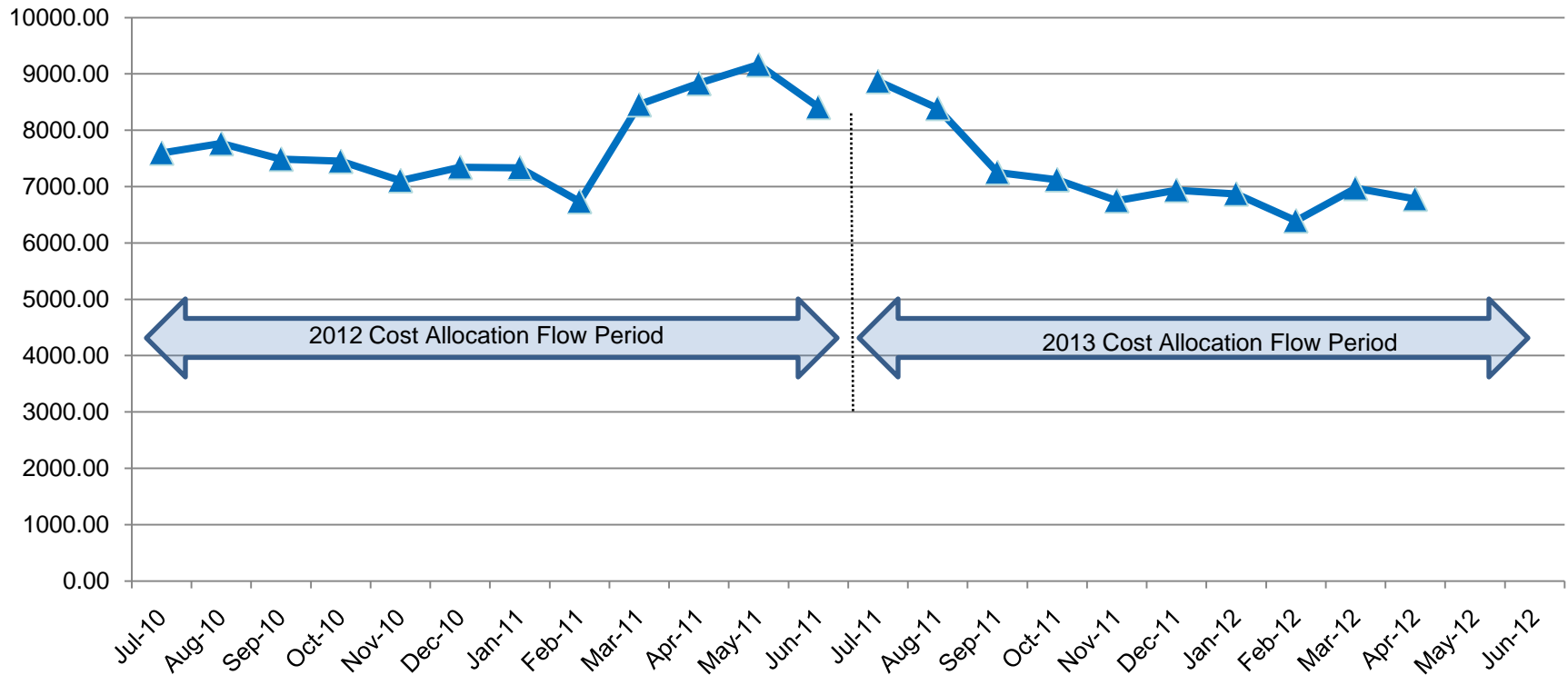
Regional Flow Volumes – 2013 Cost Year

Monthly Flow (MG)



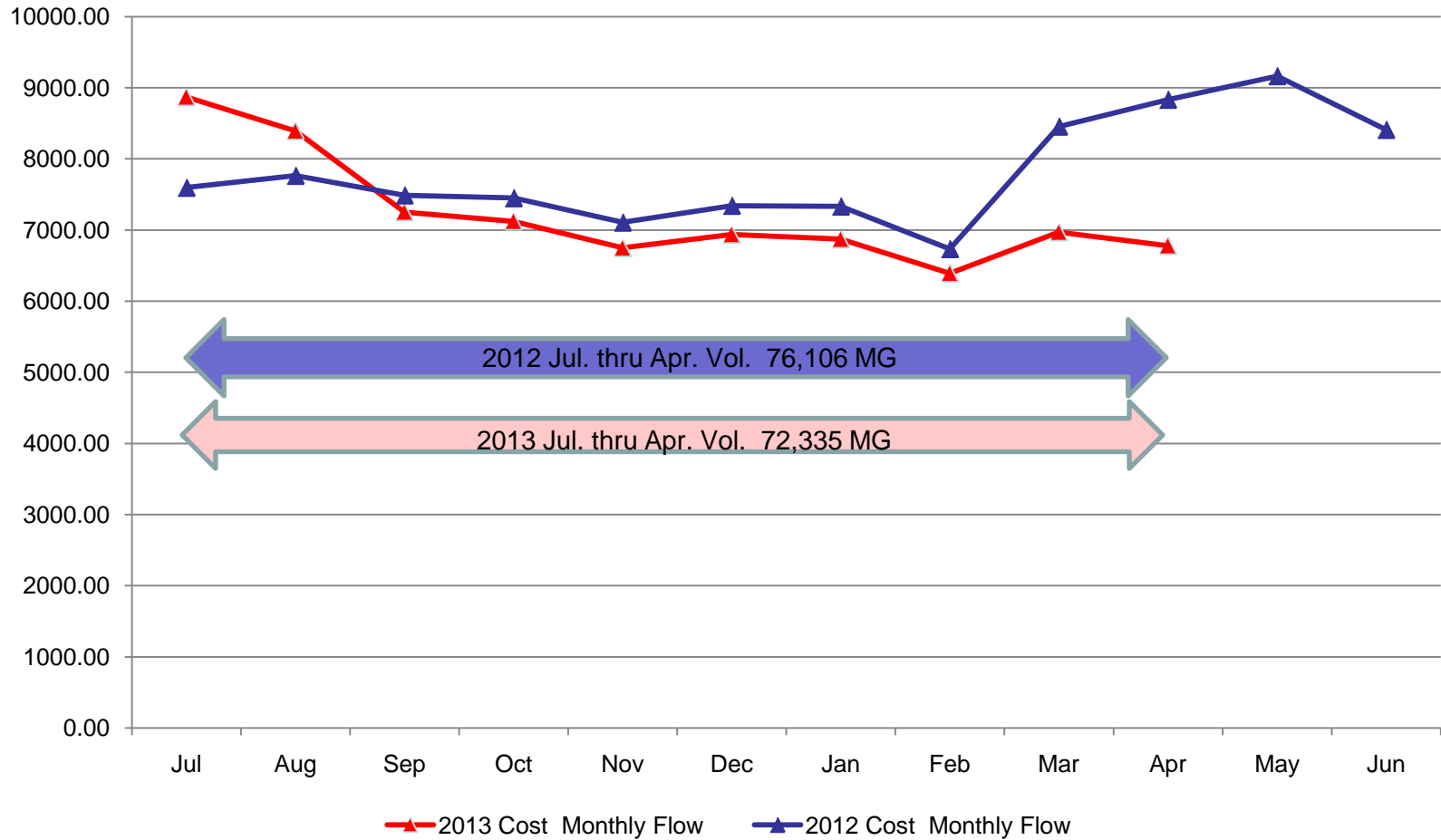
2012 vs. 2013 Cost Year Flow Comparison

July 2010 thru April 2012 Monthly Flow (MG)

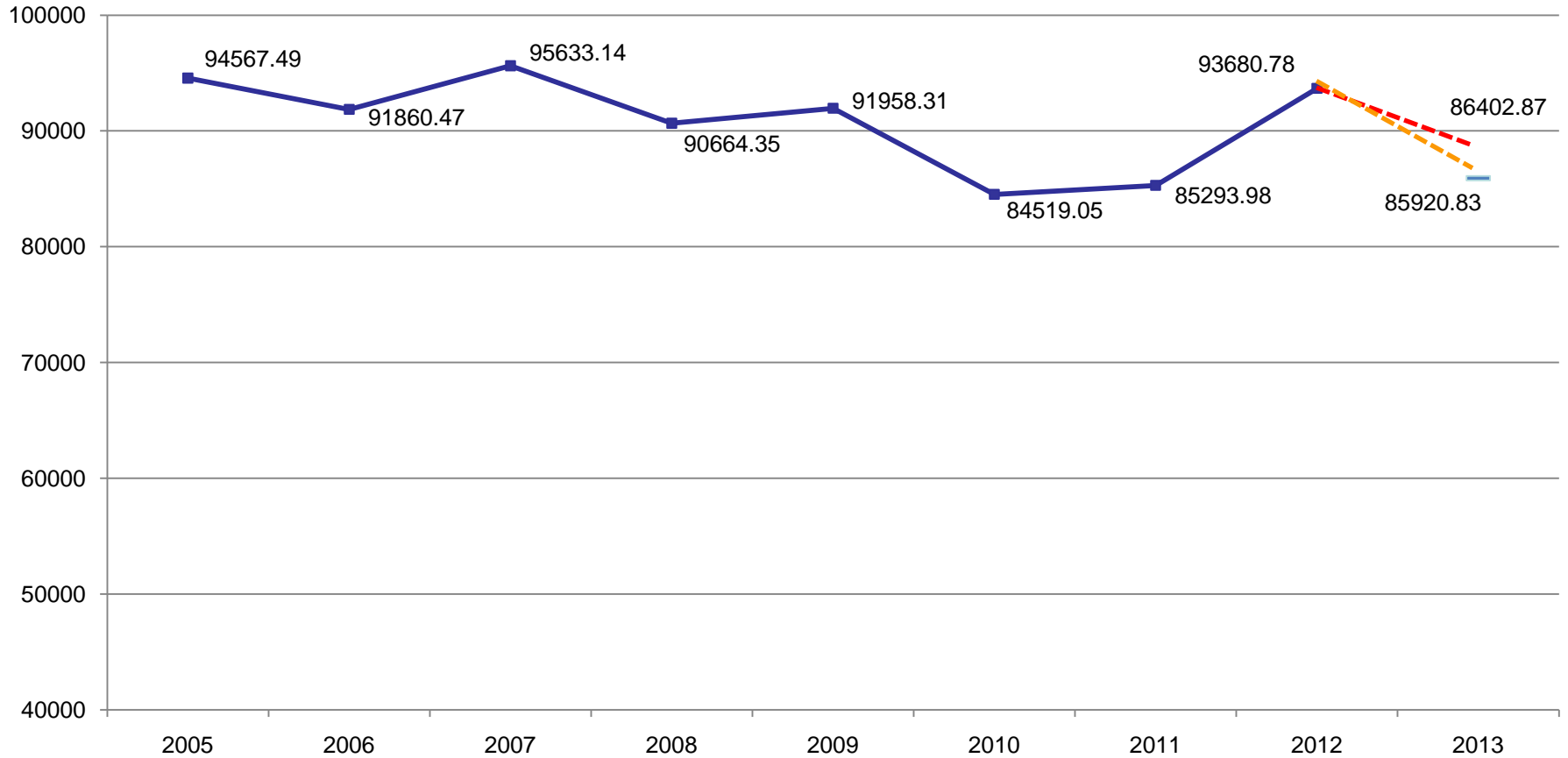


2012 vs. 2013 Cost Year Flow Comparison

Volume through April

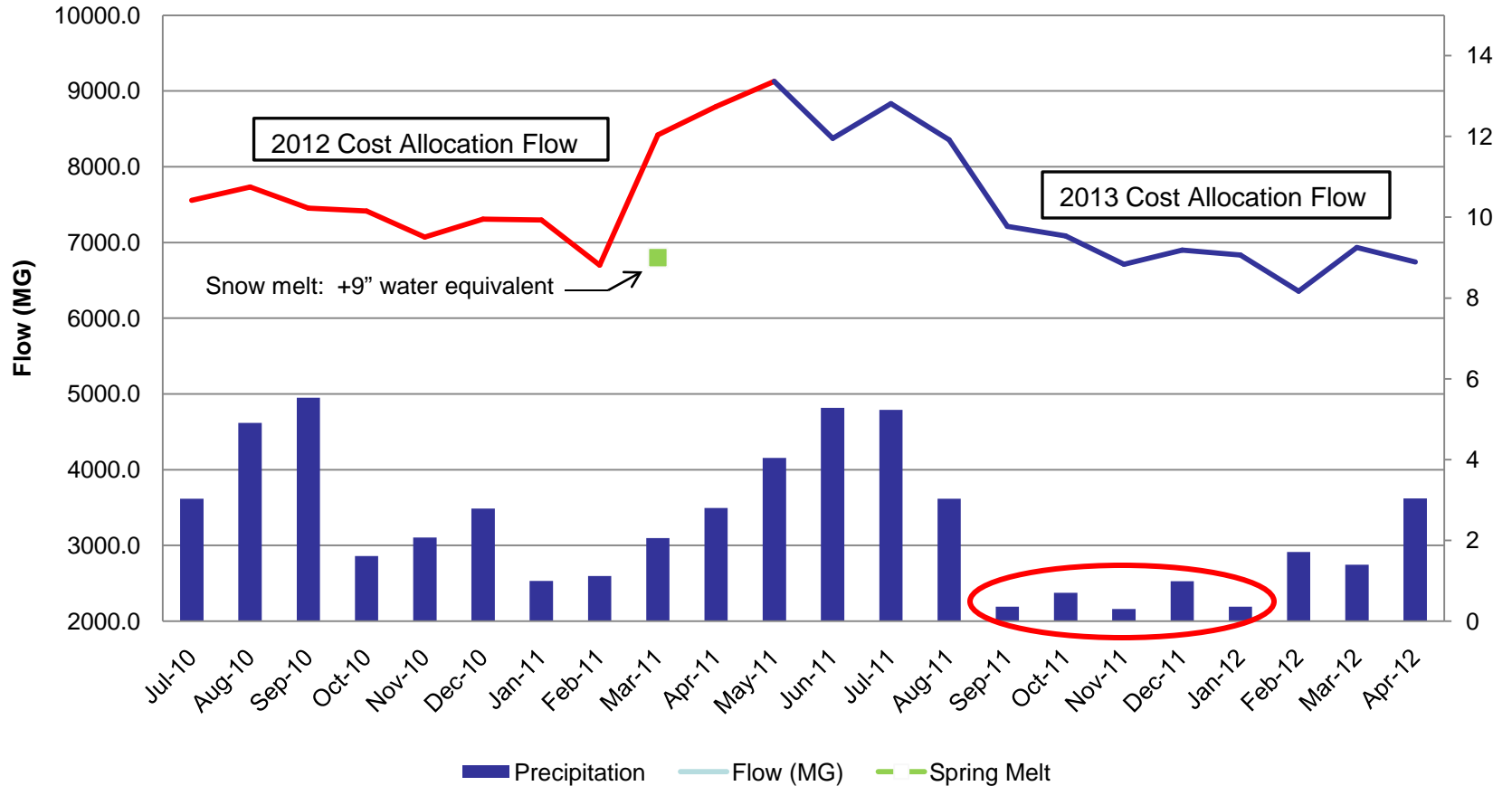


2005 - 2012 Annual Cost Year Volumes w/ 2013 Projection (MG)



Regional Flow Summary

Monthly Wastewater Flow & Precipitation



Wet Weather impact on Community Flow

“Dry vs. Wet Communities”

❑ “Firm Flow” Allocation Method

- Community’s Municipal Wastewater Charge based on proportionate share of total regional flow

❑ Impacts of Weather on Community Flow

- High precipitation year (Wet Year)
 1. *Dry response Communities have lower proportionate share of total regional flow, resulting in lower respective MWC*
 2. *Wet response Communities have higher proportional share of total regional flow, resulting in higher respective MWC*
- Low precipitation year (Dry/Drought Year)
 1. *Dry response communities have higher proportionate share of total regional flow, resulting in higher respective MWC*
 2. *Wet response communities have lower proportionate share of total regional flow, resulting in lower respective MWC*

Projected MWC Increases “Preliminary”

Flow through April 2012

<u>Community</u>	<u>2013 Flow (MG)</u>	<u>2013 Est. MWC</u>	<u>2013 vs. 2012</u>	<u>2012 vs. 2011</u>
Andover	403.60	\$997,220	+13.2%	-11.9%
Birchwood	18.25	\$45,092	+13.4%	-9.9%
Blaine	1202.66	\$2,971,548	+14.0%	-6.9%
Brooklyn Center	854.79	\$2,112,026	+12.4%	-8.8%
Brooklyn Park	1549.00	\$3,827,290	+13.6%	-8.3%
Circle Pines	131.20	\$324,171	+17.3%	-12.5%
Falcon Heights	199.82	\$493,718	+26.5%	-17.1%
Lauderdale	57.02	\$140,886	+20.2%	-12.9%
Lilydale	24.62	\$60,831	+16.3%	+7.1%
Lino Lakes	305.91	\$775,846	+10.4%	-5.0%
Maplewood	1159.01	\$2,863,697	+17.6%	-6.4%
Oak Park Heights	163.1	\$402,990	+11.6%	-11.3%
Ramsey	242.5	\$559,172	+10.7%	-4.3%
Richfield	985.48	\$2,434,937	+16.7%	-8.2%
Robbinsdale	344.69	\$851,665	+10.5%	+1.6%
Spring Lake Park	188.51	\$465,773	+18.8%	-3.4%

Regional I/I Program

- Goal: Efficient use of regional wastewater system
- Objective: Reduce short-term, wet weather peak wastewater flow rate, i.e. Inflow
- Typical Sources of Inflow
 - Rain leader connections
 - Sump pump connections
 - Foundation drain connections
 - Broken service lines
 - Vented manhole covers
 - Damaged manholes
 - Storm/sanitary sewer cross-connections

Phase I Regional I/I Program Status

2007 – 2011 (Extended to 2012)

- ❑ 47 Communities identified
- ❑ Still working on Plan Implementation
 - Hopkins
 - Long Lake
 - Vadnais Heights
 - West St. Paul
 - Excelsior (25% cap)
 - Lilydale (25% cap)
 - Minnetonka Beach (25% cap)
 - St. Paul (25% cap)
- ❑ More than \$130 Million spent on local I/I mitigation efforts

Phase II Regional “On-going I/I Program Status

2013 First Year for potential work plan implementations

Jan. 1 – Jun. 30, 2012 Flow monitoring for excessive peak flow discharges

Event: May 6, 2012

<u>Community</u>	<u>Threshold</u>	<u>Peak Flow</u>	<u>Excess</u>	<u>4-Year Work Plan</u>
Newport	1.12	1.34	0.22	\$84,480
St. Anthony	1.48	1.51	0.03	\$11,520
West St. Paul	0.66	0.79	0.13	\$49,920

Questions