

CITY OF BOULDER

**WATER RESOURCES ADVISORY BOARD
AGENDA ITEM**

MEETING DATE: June 22, 2015

AGENDA TITLE: Public hearing and consideration of a recommendation regarding the 2016 Utilities (Water, Wastewater and Stormwater/ Flood Management) 6-year Capital Improvement Program (CIP)

PRESENTERS:

Jeff Arthur, Director of Public Works for Utilities
Ken Baird, Utilities Financial Manager
Douglas Sullivan, Acting Principal Engineer – Water, Wastewater, and Stormwater
Annie Noble, Acting Principal Engineer – Flood and Greenways

EXECUTIVE SUMMARY:

As part of the city’s annual budget process, Utilities staff develops a six-year planning budget, this year for the time period of 2016 through 2021. The Water Resources Advisory Board (WRAB) role in this process is defined in the Boulder Revised Code: “. . . to review all environmental assessments and capital improvements conducted or proposed by the utilities division.” Utilities staff has formulated revenue and expenditure projections for each of the three utility funds through the year 2021. Within the budget process council approves and appropriates funds only for the first year, 2016.

At the April 27 and May 18, 2015 WRAB meetings, staff presented the preliminary 2016 Utilities budget including the six-year capital improvement program. Since the May 18 meeting, the following change within the Water Utility CIP has been incorporated into the Capital budget: \$150,000 was added in 2016 for the Boulder Reservoir Water Treatment Facility for replacement of failing filter valve actuators.

This packet contains information concerning the Recommended 2016 Utilities Budget and the 2016-2021 Utilities CIP. The attached fund financials and CIP spreadsheets (**Attachment A** – Water Utility, **Attachment B** – Wastewater Utility and **Attachment C** -Stormwater / Flood Management Utility) reflect actual revenues and expenditures for 2014, updated revenue projections/rate increases for the planning period and updated CIP.

Staff requests a recommendation from the WRAB concerning the 2016 Utilities Budget including the 6-year Capital Improvement Program (CIP) and associated Monthly Utility Rates. Staff will submit the CIP to the Planning Board which will meet to discuss the citywide CIP and make a recommendation to City Council on August 6. City Council study sessions are scheduled for August 11, 2015 concerning the proposed city-wide 2016-2021 CIP and on September 8 and September 22 on the preliminary 2016 city-wide budget. City Council is scheduled to hold first and second readings on adoption of the budget on October 6 and October 20 respectively.

STAFF RECOMMENDATION:

Staff recommends that WRAB make the following motion related to the 2016-2021 CIP:

The Water Resources Advisory Board recommends approval of the 2016-2021 CIP for the Water, Wastewater, and Flood/Stormwater Utilities including proposed rate adjustments to support 2016 revenue increases of 8% in the water utility, 5% in the wastewater utility, and 4% in the stormwater and flood control utility.

FISCAL IMPACTS:

The following percentage increases in additional revenue from the monthly utility fees are currently being recommended by Utilities staff for 2016 to fund the preliminary Utilities budget and capital improvements program. These increases are consistent with projections provided during the budget process in 2014.

Water	8%
Wastewater	5%
Stormwater/ Flood Management	4%

BOARD FEEDBACK:

The preliminary 2016 Utilities budget and 2016-2021 CIP were presented to the WRAB on April 27 and May 18, 2015. The Board provided comments as documented in the meeting minutes including discussion of rates, water conservation, key projects, and questions regarding the Colorado-Big Thompson (C-BT) water supply.

PUBLIC FEEDBACK:

Board input and a public hearing is scheduled for this meeting.

BACKGROUND:

The Utilities Division provides quality water services, as desired by the community, in a manner which emphasizes efficient management of fiscal and natural resources, and protects human and environmental health. Each of the city’s three utilities (water, wastewater and stormwater/flood management) is a separate enterprise fund established to finance and account for the acquisition, operation and maintenance of each utility’s facilities and services while maintaining designated reserves and meeting debt service requirements.

Revenues generated from monthly utility bills are the largest revenue source for each utility. Other significant sources of funds include development fees (plant investment fees), hydroelectric revenues, funding from the Urban Drainage and Flood Control District (UDFCD) and interest earnings.

The majority of the utilities expenditures are for rehabilitating and improving the capital infrastructure either through the capital improvements program (cash financed) or through annual debt payments for revenue bonds that have been issued to fund capital improvements.

WRAB is responsible for making a recommendation to City Council on the 6-year CIP. The

following operating adjustments are not part of the CIP, but are provided for reference.

- Within the Water Fund, an increase to appropriations of \$90,000 from Fund Balance is recommended for costs associated with residual hauling at the Betasso Water Treatment Plant. The prior contract for this service expired, and new bids were solicited for 2015 and beyond, and the unit cost for disposal increased by 50%. The 2016 Betasso Water Treatment Plant CIP project is planned to include an on-site residuals processing system.
- Within the Water Fund in the Water Resources workgroup, additional funds are requested due to increased rates for source water delivered from C-BT.
- In the Water Fund, \$35,000 is requested to provide funds for electric standby charges at the Boulder Canyon Hydro (BCH) Facility. An agreement with an electric utility is needed to supply power to the facility (lights, heat, etc.) when hydroelectric equipment is not generating. The City is party to a standard agreement for standby electric service with Xcel (BCH is connected to Xcel’s transmission line). This agreement was needed after the BCH Modernization Project and a new power purchase agreement with Tri-State. As a result of these updates, annual revenue has increased roughly \$400,000 per year, which more than offsets this standby charge.
- Also within the Water Fund, \$17,300 is requested to meet the terms of an agreement with the City of Nederland. The City of Boulder is reimbursing Nederland for the ongoing costs of enhanced wastewater treatment processes that meet phosphorus limit requirements. This agreement was made to improve source water quality.

ANALYSIS:

The preliminary 2016 budget reflects the following revenue increases: 8% Water, 5% Wastewater, and 4% Stormwater/Flood Management. The following table summarizes the 2015 adopted revenue increase and proposed revenue increase projections for 2016-2018. The proposed 2016 increases are in bold.

Table 1 – Proposed Rate Increases

	2015	2016	2017	2018
Water	5%	8%	8%	8%
Wastewater	30%	5%	5%	5%
Stormwater/Flood Management	75%	4%	8%	8%

Customer Bill Impact

The proposed 2016 revenue increases (8%-5%-4%) would increase a typical residential customer’s total monthly utility bill by approximately \$5.00, or an increase of approximately \$60 annually. The following table shows the estimated monthly impact for single-family residential and example commercial/industrial/institutional customers.

Table 2 – Estimated Monthly Bill Impacts

Customer	Combined Monthly Bill 2015 Rates	Combined Monthly Bill 2016 Rates	Monthly Bill Increase	Percent Change
Single-Family Residential	\$80	\$85	\$5	6%
Hotel	\$3,452	\$3,657	\$205	6%
Grocery Store	\$8,006	\$8,502	\$497	6%
Large Format Retailer	\$3,066	\$3,224	\$158	5%
Pearl Street Retail	\$120	\$127	\$7	6%
Industrial/Institutional	\$6,677	\$7,063	\$387	6%
Downtown Restaurant	\$333	\$353	\$20	6%
Downtown Restaurant/Brewery	\$763	\$809	\$45	6%

ANTICIPATED REVENUE BONDS:

The current 2016-2021 utility fund financials reflect several bond issuances (and associated debt payments) to fund the following capital projects:

Water:

1. Betasso Water Treatment Plant Improvements (\$24 million in 2016) to fund improvements to maintain compliance with federal Safe Drinking Water Act regulations
2. Southern Water Supply Pipeline II (Carter Lake Pipeline) and the 2018 Waterline Replacement budget (\$37.6 million in 2018)
3. Barker Dam Outlet and Boulder Reservoir Water Treatment Facility (\$10.3 million in 2020) to fund repairs to the outlet works

Wastewater:

1. Sanitary Sewer Bond (\$10 million in 2015) to fund replacement of large diameter interceptor pipe
2. WWTF Improvements (\$18.5 million in 2020) to fund phosphorus treatment to meet Regulation 85 requirements

Stormwater and Flood Management:

1. Wonderland Creek and Four Mile Canyon Creek projects (\$23 million in 2015)
2. South Boulder Creek Improvements (\$25 million in 2018) to fund improvements designed to mitigate flood hazards in the South Boulder Creek West Valley area

The following table summarizes the debt obligations of the utilities, the year the debt is retired and the average annual debt payment. Items shown in italics are projects that are anticipated to be funded by issuing bonds.

Table 3 – Debt Obligations

Utility	Projects	Year Debt is Retired	Approximate Annual Debt Payment
Water	Boulder Reservoir WTF Improvements	2016	\$858,000
	Multiple Projects including Silver Lake Pipeline, Barker Purchase	2019	\$2,522,000
	Lakewood Pipeline	2021	\$2,066,000
	<i>Betasso WTP Imp. (2016)</i>	<i>2036</i>	<i>\$2,160,000</i>
	<i>Carter Lake Pipeline and Waterline Replacement (2018)</i>	<i>2038</i>	<i>\$3,568,700</i>
	<i>Barker Dam Improvements and Boulder Reservoir WTP Imp.(2020)</i>	<i>2040</i>	<i>\$983,773</i>
Wastewater	WWTP Improvements	2025	\$3,500,000
	WWTP Improvements	2030	\$674,000
	<i>Sanitary Sewer Pipe (2015)</i>	<i>2035</i>	<i>\$800,000</i>
	<i>WWTP Improvements – Reg 85 (2020)</i>	<i>2040</i>	<i>\$1,757,500</i>
Storm/Flood	Multiple projects including Goose Creek Improvements	2018	\$385,000
	<i>Wonderland Creek and Four Mile Canyon Creek Imp. (2015)</i>	<i>2035</i>	<i>\$1,725,000</i>
	<i>South Boulder Creek Imp. (2018)</i>	<i>2038</i>	<i>\$2,150,000</i>
	<i>South Boulder Creek Imp. (2021)</i>	<i>2041</i>	<i>\$1,425,000</i>

****Projects shown in italics are proposed bonds***

The Water Utility also pays a portion of the Northern Colorado Water Conservancy District’s debt related to the Windy Gap project. This debt will be retired in 2017 and Boulder’s annual debt payment is approximately \$1,650,000.

In early June the City was informed of the credit rating for the upcoming Wonderland Creek and Four Mile Canyon Creek Improvement bonds -- Aa1 from Moody’s and AAA from Standard and Poor’s (S&P) which is the same as recent bond issues. According to a recent S&P report, only around 6% of their rated water and sewer issuers receive the AAA rating. This high rating is due to strengths such as “a prolonged trend of strong financial operations,” a “manageable capital program with additional debt needs,” and a “robust and diverse local economy,” S&P’s recent rating report is included in **Attachment D**.

NEXT STEPS:

The current schedule of major budget milestones is provided below. Elements involving the WRAB are highlighted in bold italics.

Milestone	Date
<i>WRAB Recommendation on CIP/Budget</i>	<i>June 22, 2015</i>
Departmental Budget Review by City Manager	May/June 2015
Planning Board Recommendation on CIP	August 6, 2015
City Council Study Session on CIP	August 11, 2015
City Council Study Session on Budget	September 8 and 22, 2015
City Council Consideration/Adoption of Budget	October 6 and 20, 2015

Attachments:

- A: Water - Fund Financial and Capital Improvement Program
- B: Wastewater - Fund Financial and Capital Improvement Program
- C: Stormwater/ Flood Management - Fund Financial and Capital Improvement Program
- D: Standard and Poor's Rating Report

Attachment A - PROPOSED WATER CIP

	A	H	I	J	K	L	M	N	O
1	15-Jun-15								
2				CITY OF BOULDER					
3				DRAFT 2016-2021 CAPITAL IMPROVEMENT PROGRAM					
4				WATER UTILITY FUND					
5									
6	Assumed Inflation Rate	2014	2015	2016	2017	2018	2019	2020	2021
7	PROJECT NAME	ACTUAL	REVISED	PROPOSED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
8									
9	Treated Water Pressure Reducing and Hydroelectric Facilities								
10	Kohler Hydro/PRV Facility	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
11	Maxwell Hydro/PRV Facility	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
12	Orodel Hydro/PRV Facility	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0
13	Sunshine Hydro/PRV Facility	\$0	\$0	\$0	\$271,875	\$0	\$0	\$0	\$0
14	Pearl Street Hydro/PRV Facility	\$0	\$0	\$0	\$0	\$24,333	\$243,331	\$0	\$0
15	Subtotal - Treated Water PRV and Hydro	\$0	\$100,000	\$75,000	\$271,875	\$24,333	\$243,331	\$0	\$0
16									
17	Water Treatment Facilities								
18	Betasso WTF	\$413,974	\$1,108,318	\$900,000	\$0	\$0	\$0	\$0	\$0
19	Betasso WTF - Bond Proceeds	\$0	\$0	\$24,000,000	\$0	\$0	\$0	\$0	\$0
20	Bond Issuance Costs	\$0	\$0	\$240,000	\$0	\$350,000	\$0	\$100,000	\$0
21	Boulder Reservoir WTF	\$203,296	\$7,100	\$314,000	\$0	\$0	\$0	\$2,000,000	\$0
22	Boulder Res WTF - Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	Subtotal - Water Treatment Facilities	\$617,270	\$1,115,418	\$25,454,000	\$0	\$350,000	\$0	\$2,100,000	\$0
24									
25	Treated Water Pump Stations								
26	Cherryvale Pump Station	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	Boulder Reservoir WTF High Service Pump	\$0	\$84,289	\$0	\$0	\$0	\$0	\$0	\$0
28	Iris Pump Stations	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	Subtotal - Treated Water Pump Stations	\$0	\$84,289	\$0	\$0	\$0	\$0	\$0	\$0
30									
31	Treated Water Storage Tanks								
32	Gunbarrel Storage Tank	\$644,449	\$39,746	\$0	\$0	\$0	\$0	\$0	\$0
33	Maxwell Storage Tank	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
34	Booten Storage Tank	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	Devil's Thumb Storage Tank	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
36	Kohler Storage Tank	\$64	\$103,487	\$799,875	\$0	\$0	\$0	\$0	\$0
37	Chautauqua Storage Tank	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
38	Betasso Storage Tank	\$0	\$0	\$0	\$292,465	\$0	\$0	\$0	\$0
39	Boulder Reservoir Storage Tank	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
40	Subtotal - Treated Water Storage Tanks	\$644,513	\$193,233	\$799,875	\$292,465	\$0	\$0	\$0	\$0
41									
42	Treated Water Distribution System								
43	Zone Isolation Valves	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
44	Catholic Protection	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45	Waterline Replacement	\$3,293,113	\$3,522,017	\$3,352,960	\$3,487,078	(\$0)	\$3,771,624	\$3,922,489	\$4,079,389
46	Subtotal - Treated Water Distribution System	\$3,293,113	\$3,522,017	\$3,352,960	\$3,487,078	(\$0)	\$3,771,624	\$3,922,489	\$4,079,389
47									
48	Treated Water Transmission System								
49	Sunshine Transmission Pipe	\$568,313	\$2,259,938	\$0	\$0	\$0	\$0	\$0	\$0
50	Boulder Canyon - Orodel to Fourmile Pipe	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
51	Mountain Transmission Pipes	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
52	Zone 1 Transmission Pipes	\$0	\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000
53	Zone 2 Transmission Pipes	\$0	\$0	\$0	\$250,000	\$0	\$0	\$250,000	\$0
54	Zone 3 Transmission Pipes	\$0	\$0	\$1,200,000	\$0	\$0	\$250,000	\$0	\$0
55	Subtotal - Treated Water Transmission System	\$568,313	\$2,259,938	\$1,200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
56									
57	Source Water Transmission System								
58	Lakewood Pipeline	\$0	\$530,400	\$0	\$0	\$0	\$316,330	\$0	\$0
59	Silver Lake Pipeline	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
60	Source Water Transmission Pipe Inspection	\$0	\$73,653	\$0	\$0	\$0	\$0	\$0	\$0
61	Subtotal - Source Water Transmission System	\$0	\$604,053	\$0	\$0	\$0	\$316,330	\$0	\$0
62									
63	Barker Water System								
64	Barker Gravity Pipeline Repair	\$305,389	\$475,882	\$667,416	\$1,169,859	\$1,216,653	\$1,265,319	\$1,315,932	\$1,368,569
65	Barker-Kossler Penstock Repair	\$0	\$0	\$0	\$116,986	\$0	\$0	\$0	\$0
66	Barker Dam Outlet	\$0	\$0	\$100,000	\$175,000	\$0	\$835,551	\$0	\$0
67	Barker Dam Outlet - Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0	\$8,355,509	\$0
68	Barker Dam and Reservoir	\$2,625	\$495,174	\$65,000	\$50,000	\$0	\$0	\$0	\$0
69	Barker Hydro System Integration	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
70	Barker Relicensing	\$25,377	\$0	\$0	\$0	\$0	\$0	\$0	\$0
71	Barker Instream Flow Release	\$0	\$6,052	\$0	\$0	\$0	\$0	\$0	\$0
72	Barker Residence	\$78,481	\$214,799	\$0	\$0	\$0	\$0	\$0	\$0
73	Betasso Penstock	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
74	Kossler Dam	\$56,204	\$135,738	\$75,000	\$0	\$0	\$0	\$0	\$0
75	Subtotal - Barker Water System	\$468,076	\$1,327,645	\$907,416	\$1,511,844	\$1,216,653	\$2,100,870	\$9,671,441	\$1,368,569
76									
77	Raw Water Storage Reservoirs								
78	Albion Dam	\$0	\$80,000	\$125,000	\$0	\$341,636	\$3,416,361	\$0	\$0
79	Silver Lake Dam	\$0	\$75,000	\$0	\$0	\$100,000	\$0	\$0	\$0
80	Island Lake Dam	\$0	\$0	\$0	\$0	\$50,000	\$0	\$0	\$0
81	Green Lake 1 Dam	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
82	Green Lake 2 Dam - Bond Proceeds	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
83	Green Lake 2 Dam	\$0	\$24,719	\$0	\$0	\$0	\$0	\$75,000	\$486,773
84	Green Lake 3 Dam	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
85	Goose Lake Dam	\$0	\$20,000	\$0	\$0	\$75,000	\$0	\$0	\$0
86	Boulder Reservoir	\$0	\$0	\$50,000	\$0	\$0	\$0	\$118,434	\$0

Attachment A - PROPOSED WATER CIP

	A	H	I	J	K	L	M	N	O
1	15-Jun-15								
2				CITY OF BOULDER					
3				DRAFT 2016-2021 CAPITAL IMPROVEMENT PROGRAM					
4				WATER UTILITY FUND					
5									
6	Assumed Inflation Rate	2014	2015	2016	2017	2018	2019	2020	2021
7	PROJECT NAME	ACTUAL	REVISED	PROPOSED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
8									
87	Lakewood Dam	\$0	\$0	\$0	\$0	\$124,707	\$0	\$0	\$0
88	Skyscraper Dam	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$171,071
89	Witemyer Ponds	\$0	\$0	\$0	\$0	\$0	\$100,000	\$492,685	\$4,926,849
90	Subtotal - Raw Water Storage Reservoirs	\$0	\$199,719	\$175,000	\$0	\$691,343	\$3,516,361	\$686,119	\$5,584,692
91									
92	Other Raw Water Facilities								
93	Farmer's Ditch	\$0	\$0	\$0	\$0	\$0	\$108,160	\$0	\$0
94	Anderson Ditch	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
95	Source Water Facilities Rehab Program			\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
96	Watershed Improvements	\$78,886	\$146,357	\$80,000	\$0	\$0	\$0	\$100,000	\$0
97	Nederland WWTP	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
98	Instream Flow Structures and Gaging	\$0	\$48,428	\$0	\$0	\$0	\$0	\$0	\$0
99	Como Creek Diversion Structure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
100	Lakewood Diversion Structure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
101	Silver Lake Diversion Structure	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
102	NCWCD Conveyance - Boulder Feeder Can	\$25	\$61,271	\$0	\$0	\$0	\$0	\$0	\$0
103	NCWCD Conveyance - Carter Lake Pipeline	\$250,000	\$500,000	\$850,000	\$2,036,322	\$0	\$0	\$0	\$0
104	NCWCD Conveyance/Waterline replacemer	\$0	\$0	\$0	\$0	\$37,565,263	\$0	\$0	\$0
105	Subtotal - Other Raw Water Facilities	\$328,910	\$756,056	\$1,080,000	\$2,186,322	\$37,715,263	\$258,160	\$250,000	\$150,000
106									
107	Source Water Pressure Reducing, Pumping and Hydroelectric								
108	Lakewood Hydroelectric/PRV	\$0	\$0	\$130,000	\$0	\$0	\$300,000	\$0	\$0
109	Silver Lake Hydroelectric/PRV	\$0	\$150,000	\$25,000	\$50,000	\$80,000	\$0	\$0	\$0
110	Boulder Reservoir Intake and Pumping	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
111	Betasso Hydroelectric / Pressure Reducing I	\$134,404	\$0	\$0	\$380,000	\$480,000	\$0	\$0	\$0
112	Barker Dam Hydroelectric	\$0	\$0	0	\$0	\$0	\$0	\$0	\$0
113	Barker Dam Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
114	Boulder Canyon Hydroelectric	\$100,755	\$33,641	\$0	\$0	\$0	\$0	\$0	\$0
115	Boulder Canyon Hydro - Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
116	Boulder Canyon Hydro - Grant	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
117	Carter Lake Hydroelectric	\$0	\$0	\$0	\$0	\$50,000	\$250,000	\$0	\$0
118	Carter Lake Hydro	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000	\$0
119	Source Water Pressure Reducing, Pumping	\$0	\$0	\$0	\$0	\$0	\$0	\$193,472	\$201,210
120	Subtotal - Source Water PRV, Pumping and H	\$235,159	\$183,641	\$155,000	\$430,000	\$610,000	\$550,000	\$2,693,472	\$201,210
121									
122	Water Distribution System Expansion								
123	Annexation Related Water System Expansio	\$0	\$2,551,700	\$0	\$0	\$0	\$0	\$0	\$0
124	Subtotal - Water Distribution System Expans	\$0	\$2,551,700	\$0	\$0	\$0	\$0	\$0	\$0
125									
126	Water System Monitoring and Metering								
127	Automated Meter Reading	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$684,285
128	Water System Security/Quality Improvemen	\$13,996	\$150,000	\$150,000	\$150,000	\$150,000	\$90,000	\$0	\$0
129	Source Water Monitoring and Protection	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$0
130	Distribution System Water Quality	\$14,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0
131	Data Communications System	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
132	September 2013 Flood Disaster Recovery	\$860,072	\$304,301	\$0	\$0	\$0	\$0	\$0	\$0
133	Yards Master Plan Implementation	\$13,553	\$86,321	\$0	\$0	\$0	\$0	\$0	\$0
134	Utility Billing Computer System	\$0	\$100,000	\$0	\$0	\$0	\$0	\$125,000	\$0
135	Subtotal - Water System Monitoring and Mete	\$901,722	\$740,622	\$250,000	\$250,000	\$250,000	\$190,000	\$125,000	\$684,285
136									
137	TOTAL CAPITAL USES OF FUNDS	\$7,057,076	\$13,638,331	\$33,449,251	\$8,679,585	\$41,107,591	\$11,196,676	\$19,698,520	\$12,318,145

Attachment B - DRAFT WASTEWATER CIP

	A	H	I	J	K	L	M	N	O
1	15-Jun-15								
2		CITY OF BOULDER							
3		DRAFT 2016 - 2021 CAPITAL IMPROVEMENT PROGRAM							
4		WASTEWATER UTILITY FUND							
5									
6	Assumed Inflation Rate	2014	2015	2016	2017	2018	2019	2020	2021
7	PROJECT NAME	ACTUAL	REVISED	PROPOSED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
8									
9	Wastewater Treatment								
10	WWTF Pumps	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
11	WWTF Permit Improvements	\$438,080	\$4,194,112	\$150,000	\$0	\$750,000	\$1,500,000	\$0	\$136,857
12	WWTF Nutrient Management Grant	\$144,485							
13	WWTF Permit Improvements - Proj. Bond	\$0	\$0	\$0	\$0	\$0	\$0	\$18,500,000	\$0
14	WWTF Laboratory	\$25,163	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0
15	Lower Boulder Creek Enhancement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
16	WWTF Headworks	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	WWTF Headworks - Proj. Bond	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	WWTF Instrumentation/Control	\$0	\$1,127,477	\$0	\$674,918	\$701,915	\$729,992	\$759,191	\$0
19	WWTF Electrical	\$0	\$0	\$120,000	\$1,200,000	\$0	\$0	\$0	\$0
20	WWTF Activated Sludge	\$0	\$389,376	\$0	\$175,479	\$0	\$0	\$0	\$0
21	WWTF Primary Clarifiers	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
22	WWTF Secondary Clarifiers	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	WWTF UV Disinfection	\$2,356	\$2,998	\$0	\$0	\$0	\$0	\$0	\$0
24	WWTF UV Disinfection - Proj. Bond	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
25	WWTF Permit Improvements - 2010 Bond	\$15,148	\$1,198	\$0	\$0	\$0	\$0	\$0	\$0
26	WWTF Rehabilitation	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000	\$375,000
27	Valmont Butte	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	Biosolids Processing & Dewatering	\$110,044	\$0	\$0	\$0	\$0	\$0	\$0	\$0
29	WWTF Biosolids Digester	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
30	WWTF Biosolids Digester - Proj. Bond	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
31	WWTF Cogeneration	\$0	\$39,995	\$0	\$0	\$0	\$0	\$184,481	\$0
32	WWTF Digester Complex	\$0	\$0	\$0	\$0	\$0	\$200,000	\$2,000,000	\$0
33	September 2013 Flood Disaster Recovery	\$453,442	\$606,987	\$0	\$0	\$0	\$0	\$0	\$0
34	WWTF Digester Cleaning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
35	Bond Issuance Costs	\$0	\$125,000	\$0	\$0	\$0	\$0	\$125,000	\$0
36	Subtotal - Wastewater Treatment Plant	\$1,208,718	\$6,487,143	\$470,000	\$2,050,397	\$1,451,915	\$2,429,992	\$21,718,672	\$511,857
37									
38	Marshall Landfill								
39	Marshall Landfill	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
40	Subtotal - Marshall Landfill	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
41									
42	Wastewater System Monitoring and Metering								
43	Yards Master Plan Implementation	\$6,777	\$36,046	\$0	\$0	\$0	\$0	\$0	\$0
44	Automated Meter Reading	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
45	Utility Billing Computer System	\$0	\$50,000	\$0	\$0	\$0	\$0	\$65,000	\$0
46	Subtotal - Monitoring and Metering	\$6,777	\$86,046	\$0	\$0	\$0	\$0	\$65,000	\$0
47									
48	Collection and Conveyance System Rehabilitation								
49	Collection System Monitoring	\$338,636	\$3,426	\$0	\$0	\$0	\$0	\$0	\$0
50	Condition Assessment Program		\$780,000	\$811,200	\$843,648	\$877,394	\$912,490	\$948,989	\$986,949
51	Sanitary Sewer Rehabilitation	\$403,808	\$3,000,161	\$2,758,080	\$2,868,403	\$2,983,139	\$3,102,465	\$3,226,563	\$3,355,626
52	Sanitary Sewer Rehabilitation - Bond	-	10,000,000	-	-	-	-	-	-
53	Sanitary Sewer Manhole Rehabilitation	\$51,186	\$208,000	\$216,320	\$224,973	\$233,972	\$243,331	\$253,064	\$657,966
54	IBM Pump Station	\$79,395	\$1,235,402	\$0	\$0	\$0	\$0	\$0	\$0
55	Tier 1 Boulder Creek 2 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
56	Tier 1 Goose Creek 1/1A Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$329,278
57	Tier 1 Goose Creek 3 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
58	Tier 1 Goose Creek 5 Master Plan Project	\$0	\$0	\$0	\$0	\$25,000	\$647,590	\$1,346,988	\$1,400,867
59	Tier 2 Boulder Creek 1 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
60	Tier 2 Boulder Creek 3 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
61	Tier 2 Boulder Creek 4 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
62	Tier 2 Goose Creek 4 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
63	Tier 2 Gunbarrel 1 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
64	Tier 2 Gunbarrel 2 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
65	Tier 2 South Boulder Creek 1 Master Plan Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
66	Subtotal - Sewer System Rehabilitation	\$873,024	\$15,226,990	\$3,785,600	\$3,937,024	\$4,119,505	\$4,905,875	\$5,775,604	\$6,730,686
67									
68	Wastewater System Expansion								
69	Annexation Related WW System Expansion	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
70	Subtotal - Wastewater System Expansion	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
71									
72	TOTAL CAPITAL USES OF FUNDS	\$2,088,519	\$21,800,178	\$4,355,600	\$5,987,421	\$5,571,420	\$7,335,867	\$27,559,277	\$7,242,543

**PROPOSED
CITY OF BOULDER
2016 FUND FINANCIAL**

	A	B	G	I	K	M	O	Q	S	U
1	STORMWATER/FLOOD MANAGEMENT UTILITY									
2										
3										
4										
5										
6		Beginning Fund Balance	\$ 16,195,856	\$ 15,450,198	\$ 12,962,605	\$ 12,687,611	\$ 11,314,975	\$ 7,763,938	\$ 7,590,235	\$ 7,142,802
7										
8		Sources of Funds								
9		Operating-								
10		Service Charge Fees	\$ 5,592,683	\$ 5,482,012	\$ 9,612,708	\$ 10,017,210	\$ 10,840,224	\$ 11,730,857	\$ 12,577,121	\$ 13,106,367
11		Projected Rate Increases		4,111,509	384,508	801,377	867,218	821,160	503,085	524,255
15		Non-Operating--								
16		Plant Investment Fees	818,369	600,000	300,000	300,000	300,000	300,000	300,000	300,000
17		Urban Drainage District Funds	50,000	800,785	882,835	957,835	930,000	400,000	400,000	400,000
18		State and Federal Grants	4,794,503	2,655,468	-	-	-	-	-	-
19		Interest on Investments	71,936	97,318	129,626	190,314	226,299	155,279	151,805	142,856
20		Intergovernmental Transfers (KICP Program)	2,000	144,200	148,526	152,982	157,571	162,298	167,167	172,182
21		Rent and other miscellaneous revenue	44,561	40,000	40,000	40,000	40,000	40,000	40,000	40,000
22		Miscellaneous nonrecurring revenue	-	-	-	-	-	-	-	-
23		Sale of Real Estate - Yards Masterplan	-	357,375	-	-	-	-	-	-
24		Projected Bonds	-	23,075,000	-	-	25,325,000	-	-	-
25		TOTAL NON-OPERATING SOURCES OF FUNDS	5,781,369	\$27,770,145	\$1,500,987	\$1,641,131	\$26,978,871	\$1,057,577	\$1,058,972	\$1,055,038
26										
27		Total Sources of Funds	\$ 11,374,052	\$ 37,363,666	\$11,498,203	\$ 12,459,718	\$ 38,686,313	\$ 13,609,594	\$ 14,139,178	\$ 14,685,660
28										
29		Uses of Funds								
30		Operating-								
31		Administration	\$ 439,228	\$ 433,414	\$ 475,873	\$ 490,149	\$ 504,854	\$ 519,999	\$ 535,599	\$ 551,667
32		Planning and Project Management	1,066,947	1,253,577	1,289,594	1,328,282	1,368,130	1,409,174	1,451,449	1,494,993
33		Stormwater Contract Management	61,111	49,442	49,442	50,925	52,453	54,027	55,647	57,317
34		Stormwater Quality and Education	782,766	943,360	1,059,847	1,091,642	1,124,392	1,158,123	1,192,867	1,228,653
35		System Maintenance	1,035,053	1,618,165	1,372,134	1,413,298	1,455,697	1,499,368	1,544,349	1,590,679
38		Sick/Vacation Accrual	4,326	50,000	50,000	51,500	53,045	54,636	56,275	57,964
39		TOTAL OPERATING USES OF FUNDS	3,389,431	4,347,958	4,296,890	4,425,797	4,558,571	4,695,328	4,836,188	4,981,273
40										
41		Debt--								
42		Goose Creek 1998 Revenue Bond	-	-	-	-	-	-	-	-
43		Refunding of the Goose Creek 1998 Revenue Bond	385,117	387,038	381,675	386,138	380,175	-	-	-
44		Projected Bond - South Boulder Creek	-	-	-	-	2,125,000	2,125,000	2,125,000	2,125,000
45		Projected Bond - Wonderland Creek	-	862,500	1,656,000	1,656,000	1,656,000	1,656,000	1,656,000	1,656,000
47		TOTAL DEBT SERVICE	385,117	1,249,538	2,037,675	2,042,138	4,161,175	3,781,000	3,781,000	3,781,000
48										
49		Transfers-								
50		Cost Allocation	219,451	246,288	248,170	260,579	273,607	287,288	301,652	316,735
51		Planning & Development Services	128,511	132,367	136,338	140,428	144,641	148,980	153,450	158,053
52		General Fund - Utilities Attorney	17,629	19,986	19,644	20,430	21,247	22,097	22,760	23,443
53		TOTAL TRANSFERS OUT	365,591	398,641	404,152	421,436	439,495	458,365	477,862	498,230

Attachment C - PROPOSED STORMWATER/FLOOD CIP

	A	G	H	I	J	K	L	M	N
1	15-Jun-15								
2		CITY OF BOULDER							
3		DRAFT 2016-2021 CAPITAL IMPROVEMENT PROGRAM							
4		STORMWATER AND FLOOD MANAGEMENT UTILITY FUND							
5									
6	Assumed Inflation Rate	2014	2015	2016	2017	2018	2019	2020	2021
7	PROJECT NAME	ACTUAL	PROJECTED	PROPOSED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED
8									
9	Major Drainageways								
10	Elmer's Twomile Creek	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
11	Goose Creek	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
12	South Boulder Creek	\$72,856	\$451,683	\$750,000	\$750,000	\$0	\$0	\$0	\$0
13	South Boulder Creek - Bond Proceeds	\$0	\$0	\$0	\$0	\$25,000,000	\$0	\$0	\$0
14	Bond Issuance Costs	\$0	\$0	\$0	\$0	\$325,000	\$0	\$0	\$0
15	Skunk Canyon Creek	\$0	\$0	\$0	\$100,000	\$500,000	\$0	\$0	\$0
16	Sunshine Creek	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	Twomile Canyon Creek	\$0	\$0	\$0	\$100,000	\$500,000	\$0	\$0	\$0
18	Bluebell Canyon Creek - King's Gulch	\$0	\$0	\$0	\$100,000	\$500,000	\$0	\$0	\$0
19	Viele Channel	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	Four Mile Canyon Creek	\$0	\$0	\$0	\$0	\$500,000	\$1,250,000	\$1,250,000	\$500,000
21	Four Mile Canyon Creek - Upland to Violet	\$0	\$0	\$500,000	\$500,000	\$500,000	\$250,000	\$0	\$0
22	Four Mile Canyon Creek - 19th to 22nd - Bor	\$71,909	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$0
23	Bear Canyon Creek	\$0	\$100,000	\$500,000	\$0	\$0	\$0	\$0	\$0
24	Gregory Canyon Creek	\$0	\$100,000	\$500,000	\$0	\$0	\$0	\$0	\$0
25	Boulder Creek	\$0	\$600,000	\$0	\$2,500,000	\$2,250,000	\$0	\$0	\$0
26	Boulder Slough	\$788,165	\$0	\$0	\$0	\$0	\$0	\$0	\$0
27	Wonderland Creek	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	Wonderland Creek - Foothills to 30th	696,684	\$1,708,735	\$0	\$0	\$0	\$0	\$0	\$0
29	Wonderland Creek at 28th St.	399,202	\$628,221	\$0	\$0	\$0	\$0	\$0	\$0
30	Wonderland Creek - Bond Proceeds	\$0	\$21,000,000	\$0	\$0	\$0	\$0	\$0	\$0
31	Bond Issuance Costs	\$0	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0
32	Preflood Acquisition	\$875	\$3,355,520	\$500,000	\$550,000	\$600,000	\$633,000	\$660,000	\$684,285
33	Greenways Program Transfer	\$814	\$710,282	\$97,500	\$97,500	\$97,500	\$97,500	97,500	97,500
34	Subtotal - Major Drainageway Improvements	\$2,030,505	\$30,729,441	\$2,847,500	\$4,697,500	\$30,772,500	\$2,230,500	\$2,007,500	\$1,281,785
35									
36	Miscellaneous								
37	Yards Master Plan Implementation	\$6,777	\$43,223	\$0	\$0	\$0	\$0	\$0	\$0
38	CU Bike/Ped Bridge Replacement I	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0
39	September 2013 Flood Disaster Recovery	5,314,477	\$494,672						
40	Utility Billing Computer System	\$0	\$50,000	\$0	\$0	\$0	\$0	\$65,000	\$0
41	Subtotal - Miscellaneous Drainage Improvem	\$5,321,254	\$787,895	\$0	\$0	\$0	\$0	\$65,000	\$0
42									
43	Stormwater Management								
44	Upper Goose Creek	\$0	\$175,000	\$750,000	\$750,000	\$750,000	\$1,000,000	\$1,165,547	\$1,221,869
45	Local Drainage Improvements		\$712,400	\$730,080	\$759,283	\$789,655	\$821,241	\$854,090	\$986,949
46	Stormwater Quality Improvements	\$1,322	\$274,675	\$162,000	\$169,000	\$175,500	\$182,500	\$190,000	\$197,390
47	Storm Sewer Rehabilitation	\$194,114	\$444,156	\$270,400	\$281,200	\$292,500	\$304,000	\$632,700	\$657,966
48	Transportation Coordination	\$436,702	\$366,017	\$324,500	\$337,500	\$351,000	\$365,000	\$633,000	\$657,966
49	Subtotal - Localized Drainage Improvements	\$632,138	\$1,972,248	\$2,236,980	\$2,296,983	\$2,358,655	\$2,672,741	\$3,475,337	\$3,722,139
50									
51	TOTAL CAPITAL USES OF FUNDS	\$7,983,897	\$33,489,584	\$5,084,480	\$6,994,483	\$33,131,155	\$4,903,241	\$5,547,837	\$5,003,924



RatingsDirect®

Summary:

Boulder, Colorado; Water/Sewer

Primary Credit Analyst:

Gregory Dziubinski, Chicago (312) 233-7085; gregory.dziubinski@standardandpoors.com

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Rationale

Outlook

Related Criteria And Research

Summary:

Boulder, Colorado; Water/Sewer

Credit Profile

US\$23.235 mil storm wtr and flood mgmt rev bnds ser 2015 due 12/01/2034

<i>Long Term Rating</i>	AAA/Stable	New
Boulder storm wtr & flood mgt rev bnds		
<i>Long Term Rating</i>	AAA/Stable	Affirmed

Rationale

Standard & Poor's Ratings Services assigned its 'AAA' rating to Boulder, Colo.'s series 2015 storm water and flood management revenue bonds. At the same time, Standard & Poor's affirmed its 'AAA' rating on the city's series 2010 storm water and flood management revenue refunding bonds. The outlook is stable.

System strengths, in our view, include:

- A robust and diverse local economy, with high income indicators;
- Strong maximum annual debt service coverage (DSC);
- A prolonged trend of strong financial operations; and
- A manageable capital program with additional debt needs.

Net income derived from the Boulder Storm Water and Flood Management Utility, which includes fees and interest earnings, secures the bonds. Other bond provisions include:

- A covenant to set rates that generate net revenues of no less than 1.25x annual debt service;
- A limitation on additional bond issuance only if net revenues for the most recent fiscal year, adjusted for approved rate increases, are at least 1.25x pro forma maximum annual debt service; and
- A debt service reserve funded at the lesser of 10% of par or 125% of average annual debt service.

Boulder's Storm Water and Flood Management Utility serves roughly 34,034 accounts. The customer base is stable, with less than 1% growth annually due to the city's built-out status. Residential customers account for nearly two-thirds of consumption. Residential accounts are charged a flat monthly storm water and flood management fee, with a formula-driven charge for commercial and multifamily accounts. A typical city water and sewer bill includes these charges. Current monthly rates average \$13.46 for a single-family home on 7,000 square feet of property. Officials last increased rates in January 2015, by 75% to help fund capital needs. Management is currently conducting a rate study, with the results expected to be reviewed and incorporated into the utility's 2017 rates.

The system's financial performance and DSC have been strong in recent years. Average annual DSC ranged from 5.2x to 6.5x between fiscals 2011 and 2013, and coverage for unaudited fiscal 2014 was 5.3x. Pro forma financials show coverage declining to 3.0x through 2017, although we still consider this level strong. In addition, the utility still maintains what we consider a strong cash position: \$16.5 million as of fiscal year-end 2013, equal to over five years'

operating expenditures. Management plans to draw down reserves to partially fund the utility's capital improvement program. The utility generated a strong \$2.6 million in operational income (before debt service) in fiscal 2013.

The utility's capital plan focuses on installing additional drainage infrastructure and flood mitigation improvements along Fourmile Canyon, Wonderland Creek, and Boulder Creek, as well as floodplain improvements to South Boulder Creek, storm sewer rehabilitation, and pre-flood property acquisition. At this time, management plans to issue roughly \$25 million in additional new-money debt in 2018 as part of its financing for planned capital expenditures. Other anticipated financing for planned capital expenditures includes plant investment and connection fees, and future rate and fee increases.

Boulder, with an estimated 100,493 residents, is 25 miles north of Denver. The University of Colorado (about 29,000 students), the city's leading employer, anchors what we view as Boulder's diversified economy. The university also serves as a magnet for technology and research jobs. Additional leading employers include IBM Corp., Oracle Corp., and Ball Corp. City income indicators are good-to-strong relative to national levels, in our opinion, with median household effective buying income (EBI) at 98%, and per capita EBI at 134% of the corresponding U.S. levels. A large student population influences these percentages.

The entity's revenue base is predominantly local, with local service charges, derived through an autonomous rate-setting process, representing virtually all entity revenues. Coupled with operating expense flexibility, this limits exposure to federal revenue.

Outlook

The stable outlook reflects our expectation that the city's strong management of system finances and operational liquidity will continue to support strong DSC. The outlook also reflects our view of the city council's proactive rate-setting approach, limited additional capital needs given the area's built-out nature, and a strong city economy that includes above-average wealth levels. Maintenance of the 'AAA' rating is conditional on the utility either meeting or exceeding financial projections.

Related Criteria And Research

Related Criteria

- USPF Criteria: Key Water And Sewer Utility Credit Ratio Ranges, Sept. 15, 2008
- USPF Criteria: Standard & Poor's Revises Criteria For Rating Water, Sewer, And Drainage Utility Revenue Bonds, Sept. 15, 2008
- USPF Criteria: Methodology: Definitions And Related Analytic Practices For Covenant And Payment Provisions In U.S. Public Finance Revenue Obligations, Nov. 29, 2011
- Ratings Above The Sovereign: Corporate And Government Ratings—Methodology And Assumptions, Nov. 19, 2013

Related Research

- U.S. Municipal Water And Sewer Utilities 2014 Sector Outlook: Learning To Do More With Less, Jan. 9, 2014
- 2014 Review Of U.S. Municipal Water And Sewer Ratings: How They Correlate With Key Economic And Financial Ratios, May 12, 2014

- U.S. State And Local Government Credit Conditions Forecast, April 2, 2015

Complete ratings information is available to subscribers of RatingsDirect at www.globalcreditportal.com. All ratings affected by this rating action can be found on Standard & Poor's public Web site at www.standardandpoors.com. Use the Ratings search box located in the left column.

Attachment D - Standard and Poor's Rating Report

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