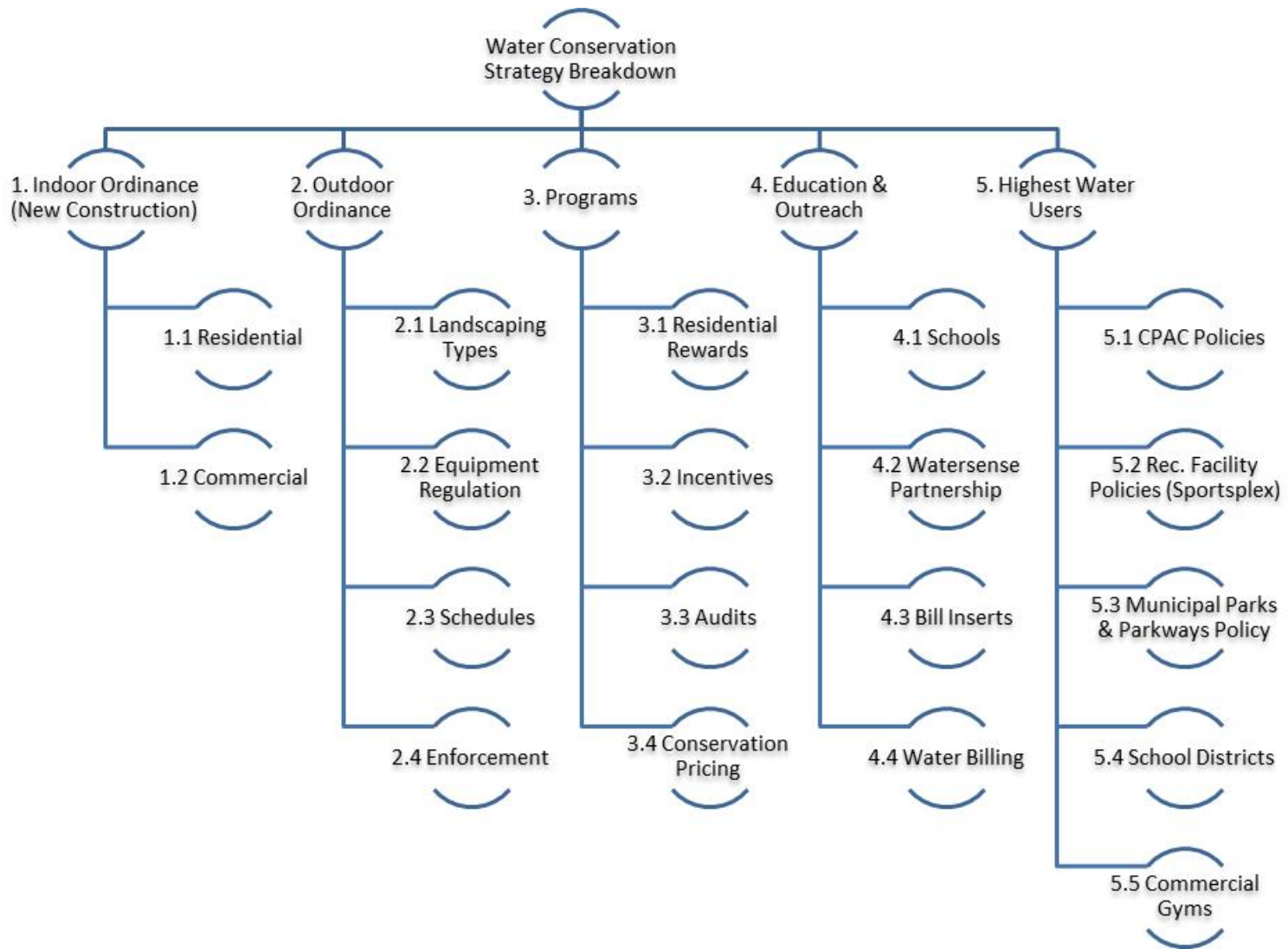


Water Conservation Strategy

PROJECT BREAKDOWN

DRAFT

June 12, 2013



1. Indoor Ordinance (New Construction)

1. Indoor Ordinance (New Construction)

1.1 Residential

Toilet	1.6 gpf
Gravity Tank Toilet	1.28 gpf
Electro-Hydraulic Toilet	1.28 gpf
Pressure Assist Tank Toilet	1.28 gpf
Flushometer Valve Activated Toilet	1.6 gpf
Faucets	2.2 gpm (60 psi)
Kitchen Faucets	2.2 gpm (60 psi)
Lavatory Faucets	1.5 gpm (60 psi)
Showerheads	2.0 gpm (80 psi)
Dishwashers	Energy Star
Clothes Washers	Energy Star

Notes

1.2 Commercial

Toilet	1.6 gpf
Gravity Tank Toilet	1.28 gpf
Electro-Hydraulic Toilet	1.28 gpf
Pressure Assist Tank Toilet	1.28 gpf
Flushometer Valve Activated Toilet	1.6 gpf
Faucets	2.2 gpm (60 psi)
Kitchen Faucets	2.2 gpm (60 psi)
Lavatory Faucets	1.5 gpm (60 psi)
Showerheads	2.0 gpm (80 psi)
Urinals (High Efficiency)	0.5 gpf
Self-Closing & Manual Faucets	.5 gpm (60 psi)
Metering Faucets	.25 gpc
Drinking Fountains	Self-Closing
Car Wash and Laundry Facilities	Equipped w/ water recycling systems
Pre-Rinse Spray Valves (Restaurants)	1.6 gpm (60 psi) or 1.3 gpm (30 psi)
Ice Machines	US EPA Program for Commercial Ice Machines

Notes

2. Outdoor Ordinance

<i>2. Outdoor Ordinance</i>		
2.1 Landscaping Types		Notes
Turf Area and Location	Encourage the limit of high water use plants to 40% of landscape area	
Native Planting	Encourage use of native landscaping (60%)	
Soil Depth	Minimum 6 inch depth	
Mulch	Cover exposed soil with 2-3 inches of mulch	
2.2 Equipment Regulation		Notes
Rain-Sensing Shut off Valves	New irrigation systems must have rain-sensing shut off valves	
Hardscape Prohibition	Sprinkler heads must not spray onto or over any hardscape areas	
Narrow Strips of Land	Less than 6 feet wide shall be irrigated by drip or micro irrigation	
Sprinkler Head Valves	Specified breakaway pressure rating at irrigation heads to prevent low head drainage and puddles	
Irrigate Any Time, Any Day	Using micro-spray, bubbler, soaker, hand-held w/ automatic shut-off; using non-potable water from recycled water; using discharge water from a dependent cooling system	
2.3 Schedules		Notes
Irrigation Days	Odd/Even Wed./Sat. Thurs./Sunday	
Irrigation Schedules	April - Oct. 6pm-10am	
2.4 Enforcement		Notes
Variances	Turf and high water use plants allowed for developed landscape areas of less than 1,000 SF; waive requirements with compelling evidence to meet landscaping needs	
Water Waste	Complaint/Observation/Inspection, Notice of Violation letter, Hearing, Fee Assessment	

3. Programs

3. Programs

3.1 Residential Rewards Program		Notes
Program Update	Link to Fix a Leak Weak, World Water Day, National Drinking Water Week	
Commercial Rewards Program	Adopt similar program to RRP for commercial	
School Program	Leak detection and school ground planting activities	
3.2 Incentives		Notes
High Water Users	Provide incentives to high water users to lower water use	
Water Efficiency Rebates	For fixtures, equipment, kits etc.	
3.3 Audits		Notes
Public Sector Audits	Conduct audits on public customers through partnerships and water teams	
Pre-Qualify Consultants	To conduct audits and make water efficiency recommendations	
Performance Contracting	Use incentives and payback periods for water efficiency upgrades	
3.4 Conservation Pricing		Notes
Rate Structure Review	Continue water conservating pricing and ensure the rate structure reflects current water usage patterns. Perform rate structure review.	

4. Education & Outreach

<i>4. Education & Outreach</i>		
4.1 Schools		Notes
Leak Detection	Leak detection awareness programs	
Low Water Use Plantings	Knowledge for low water use plantings to students	
4.2 Watersense Partnerships		Notes
Village Partner	Partner with EPA for materials to assist education and outreach efforts	
Rebate Program	Operate rebates through Watersense	
4.3 Bill Inserts		Notes
CMAP Bill Insert Program	Participate in CMAPs program to deliver conservation tips, strategies, ideas etc. to customers	
4.4 Water Billing		Notes
Water Bill Revision	Revise water bill layouts and display useful water use information to help customers gauge usage and do best practices.	

5. Highest Water Users

<i>5. Highest Water Users</i>		
5.1 CPAC Policies		Notes
Weekly Detection	Conduct detection exercise to monitor water use	
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Educational Locker Room Signage	Include water use signs for better water practices in public restrooms and locker rooms	
5.2 Rec. Facility Policies		Notes
Quarterly Leak Detection	Conduct detection exercise to monitor water use	
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Educational Locker Room Signage	Include water use signs for better water practices in public restrooms and locker rooms	
5.3 Municipal Parks & Parkway Policy		Notes
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Efficient Irrigation	Use efficient systems and schedules to water municipal parks and parkways	
5.4 School Districts		Notes
Sustainable Landscaping	Use low water intensive plant materials w/ interpretive signs	
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Educational Signage	In bathrooms, showers, select areas around pools etc.	
5.5 Commercial Gyms		Notes
Plumbing Retrofits	Showerheads, faucets, toilets etc.	
Educational Signage	In bathrooms, showers, select areas around pools etc.	

1. Indoor Ordinance
Prep. 2013
Effect 2014

3. Programs
Prep. 2014
Effect 2015

5. Highest Water User
Prep. 2014
Effect 2015

4. Education & Outreach
Prep. 2013
Effect 2014

2. Outdoor Ordinance
Prep. 2015
Effect 2016

2013

2014

2015

2016

