PLAN EDITS AND PUBLIC COMMENTS LOG

Draft One Water 2100 Plan

Section or Page Number	Edits and Comments	Date	Response Codes (1 = Incorporated, 2 = Personal response, 3 = Not Applicable, 4 = Forwarded to another organization)
p. 19	Double check list of appendices and remove the periods at the end of each TM. I'm not sure if we need to list all of them on this page but we should double check that the letters for smart metering, the stakeholder list, and the statistically significant survey are correct throughout the draft plan.	9/12/ 2023	1
p. 13	Include references to infill as a way to keep GPCD low and maximize the benefits of existing infrastructure	9/12/ 2023	1
Ch. 4	Please double check that the latest versions of the scenerio projections are in the final draft	9/12/ 2023	1
2.1.2, page 2-2	Replace the term growth with the term innovation in guiding principle 3	1- Jun- 23	1
	Table 6.5 should be incentive implementation actions	5- Jun- 23	1
	Remove references to upcoming dates that have passed	30- May- 23	1
	Concern about water quality as water deeper in the aquifer gets pumped out	30- May- 23	1
	Local rivers and riparian areas are in a guiding principle but not thoroughly addressed in the strategies	7- Jun- 23	1
	Concern about higher salts in treated effluent	7- Jun- 23	1
	Highlight low impact development and the other new M&C ordinances	7- Jun- 23	1
Executive summary?	Make the point that we are trying to use each drop of water more than once. This means using less potable (and potentially reclaimed) on landscaping. That water can be increasingly offset by harvested rain and stormwater. Make sure a the main line replacement program gets	7- Jun- 23 8-	1

	mentioned	Jun-	
		23	
	Water and a street and the same of a street an	7-	
4.40	Water use projections for the scenarios don't match the	Jun-	4
4.12	original water use projections in appendix J	23	1
		. 7-	
	Use the most current water service area map that has	Jun-	
Page 1-6	"major parks" in the legend	23	1
	Please state that new services must comply with the	7-	
Pages 1-5	water service area policy and list the wheeling	Jun-	
and 1-6	agreements.	23	1
	Please mention that some aquifer levels are still	7-	
Page 3-7	declining because those areas depend on a mix of	Jun-	
figure 3.8	renewable Colorado River water and groundwater.	23	1
	Please mention that we are in the Tucson Active		
	Management Area on p. 3-6 and tie that into the Active	7-	
	Management Area description on p. 3-8. Please	Jun-	
Page 3-6	introduce the topic of safe yield here.	23	1
		7-	
	Please correct the labels for potable and residential	Jun-	
Page 4-2	GPCD throughout the plan	23	1
	Please add "For example, Mayor and Council have		
	directed City staff to research a Net Zero Water policy,	22-	
	or water offsets for new development, similar to polices	Jun-	
Page 5-13	currently enacted in other regions."	23	1
	The color of the LTSCs in the legend is difficult to		
	differentiate from the dark blue groundwater. Could we		
	make the hatched area look more like alternating lines		
	of CAP (light blue) and recycled water (purple)? These		
	colors should also match the style guide. The orange		
	and yellow are also hard to differentiate. Advise from	22-	
	your graphic design team would be helpful with these	Jun-	
Chapter 4	charts.	23	1
	Add tiered commercial rates to the policy responses and		
	more detail about what nonfunctional turf means. I		
Chapter 4,	forwarded an email from Silvia with the Mayor and	5-Jul-	
page 67	Council memo that describes commercial tiered rates.	23	1
page or	Add a statement about Tucson Water being a partner in		
	the Santa Cruz Watershed Collaborative to further these		
	recommendations in collaboration with other water	20-	
Chapters 5	related organizations to support GW-1 and all the	Jul-	
& 6?	strategies for Guiding Principle 3	23	1
αυ:	Site the number of city solar installations and how many	20-	<u> </u>
Chapter F	are on water properties to show how serious we are	Jul-	
Chapter 5 & 6?	·	23	1
α υ:	about the energy water nexus		
Footnet-		21-	
Footnote	Define equity	Jul-	4
on p. 2-2	Define equity	23	

Replace the term advertising with community outreach for the \$-3\$ and \$1-1\$ examples Colors in the water supply and demand projections - our comments about this from the previous draft were not incorporated into this draft 23 1 53, 54, and comments about this from the previous draft were not incorporated into this draft 23 1 Please use a different font in the sticky notes graphic 25- Jul- 27- 28- 29- 29- 29- 29- Please use a different font in the sticky notes graphic 20- 21- 22- Deptor labels for the strategy and action tables 23- There is too much white space on this page 23- 25- Jul- 24- Deptor labels for the strategy and action tables 25- Jul- 26- Deptor labels for the strategy and action tables 27- Deptor labels for the strategy and action tables 28- Deptor labels for the strategy and action tables 29- 20- 10- Deptor labels for the strategy and action tables 25- Jul- 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 26- Deptor labels for the strategy and action tables 25- Jul- 25- Deptor labels for the strategy and action tables 25- Jul-		1	21-	
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Please add the City's Parks & Recreation department. Storm 2 Shade has sites in City parks and is planning p. 22 Please don't bold the text every time One Water is used in the body of the text. I can see why you did that when the One Water approach was described but that should be the only section we do that in. It definitely should not Please add the City's Parks & Recreation department. 25- Storm 2 Shade has sites in City parks and is planning Jul- 22 1		1		1
Storm 2 Shade has sites in City parks and is planning p. 22 1 Please don't bold the text every time One Water is used in the body of the text. I can see why you did that when the One Water approach was described but that should 25-be the only section we do that in. It definitely should not Jul-	accament	•		
p. 22 more. 22 1 Please don't bold the text every time One Water is used in the body of the text. I can see why you did that when the One Water approach was described but that should 25-be the only section we do that in. It definitely should not Jul-		· · · · · · · · · · · · · · · · · · ·		
Please don't bold the text every time One Water is used in the body of the text. I can see why you did that when the One Water approach was described but that should 25-be the only section we do that in. It definitely should not Jul-	p. 22			1
in the body of the text. I can see why you did that when the One Water approach was described but that should be the only section we do that in. It definitely should not Jul-	P. 22			
the One Water approach was described but that should 25-be the only section we do that in. It definitely should not Jul-		1		
be the only section we do that in. It definitely should not Jul-		1	25-	
		1		
	p. 19	1		1

	Please re-title the section as stakeholder workshops. We		
	held a conservation workshop in 2019, the scenario		
	planning workshops in 2020 and 2021 and the strategy	25-	
	workshops in 2022. All those organizations need to be	Jul-	
p 35	listed in the acknowledgements.	22	1
•		25-	
		Jul-	
p 37	Please update the number of website visits (13K)	22	1
ρ σ .	The same appears and manner of measure mans (1819)	25-	•
	This is a map of the Tucson Water service area. There are	Jul-	
p 12	·	22	1
p 12	no potential service areas.	22	1
	At the end of the CAGRD summary please state that this		
	water is included in the groundwater resource		
	represented in the scenario projections on p. 53 (that		
	page number is on the draft and not in the Adobe page		
	numbers). We need to relabel firming as Arizona Water		
	Bank in the scenario projections. Please don't note any		
	volumes for either of these two water resources. Please		
	rewrite the last two sentences of the Arizona Water		
	Banking Authority as "Based on our population, we		
	anticipate that the majority of water stored in the	25-	
p 46, 49 (p.	Tucson AMA water bank will be available to us if	Jul-	
31 of the	needed."	22	1
0.0.0.0	Make a clear distinction between the scenario		•
	projections in the plan and the water use projections in	25-	
	1 ' -		
- CO	the appendix. We could call them scenario projections	Jul-	1
p 69	as opposed to water use projections?	22	1
	Maybe this is the best page to state that the water use	25-	
	projections in the appendix are for hydraulic modeling	Jul-	
p 56	purposes?	22	1
		25-	
	The text and graphic should be aligned. The text has too	Jul-	
p 61	much margin on the right side again.	22	1
		25-	
	The GPCD chart needs labels for the 2022 numbers at	Jul-	
p 62	the ends of the lines	22	1
_ F		25-	
		Jul-	
p 68	Change the title of the section to scenario projections	22	1
ρ 00	change the title of the section to scenario projections	25-	I
	Change the title on this was to Future water away!		
60	Change the title on this page to Future water supplies	Jul-	
p 69	and demands	22	1
		25-	
	Change the title on this page to Comparing Scenario	Jul-	
p 70	Projections	22	1
		25-	
		Jul-	
p 73	Unused CAP / future LTSCs in the bar graphs	22	1

1	I	ا م	1
		25-	
m 02	The example for DW 2 isn't right	Jul- 22	1
p 83	The example for RW-2 isn't right	25-	I
	The titles for the demand management strategies		
p 85	The titles for the demand management strategies	Jul- 22	1
h 02	should include the term "Demand Management"		I
Ct	Should we use a darker green color for Tucson Resilient	25-	
Starting on	Together strategies? The green you are using looks like	Jul-	1
p 89	the green we use for stormwater	22	1
	"Supply" in the title of this section, not supplies? The	25-	
B 00	plural version doesn't seem grammatically correct. You	Jul-	
P. 92	word it this way on p. 93	22	1
	Remove "Why One Water?" title. This text wasn't titled in		
	the previous draft and it doesn't need a title in this draft.	25-	
	The introductory paragraphs for other chapters may not	Jul-	
p. 96	need new titles either.	22	1
		25-	
		Jul-	
p. 101	Monitoring and mandates	22	1
	The last two bullet points are repetitive. Smart meters		
	provided targeted leak notifications. They are just one	25-	
	example of innovative demand management	Jul-	
p 105	technologies.	22	1
		25-	
	Please use the City & Tucson Water logo from the brand	Jul-	
p 112	guide	22	1
	Is there a way to add the sections back to the table of	25-	
	contents? I really like having bookmarks in the pdf that	Jul-	
p. 6 & 7	link the table of contents to specific pages.	22	1
	-	25-	
	Spell out the One Water 2100 Plan on this page because	Jul-	
p. 27	Plan Tucson and "The Plan" could be confused	22	1
•	Please take uncertainties out of the list of drivers		
	because it is repetitive. I would prefer that you use table		
	3-1 p. 24 in the scenario planning tech memo but we		
	need to change the uncertainties cell for economic		
	variability. When we discussed that in the workshop we		
	talked about rapid changes in the economy like the		
	housing bubble and crash as well as the initial slump in		
	the beginning of the pandemic. Please remove the term		
	business connections. You can keep the aging		
	workforce. You can also add that people entering the	25-	
	workforce and higher education are not choosing the	Jul-	
p. 32	trade professions.	22	1
ρ. 32	Add the scenario projections to the executive summary.	25-	<u> </u>
	_ · · · · · · · · · · · · · · · · · · ·	Jul-	
n F	Rename "supply and demand comparison" title to	22	1
p.5	"Tucson's Water Future"		l l

p. 383 of	Please fix the error statement on this page of the tech	25-	
the	memo. I don't remember that being in the final version	Jul-	
appendix	of this tech memo.	22	1
		25-	
		Jul-	
p. 32	"understand critical drivers of risk and uncertainties"	22	1
	Add a short section that summaries the public comment	25-	
	period. Over 80 people and organizations submitted	Jul-	
p. 37	comments.	22	1
p. o.		25-	-
	Non-revenue water losses vary from 6-9% on an annual	Jul-	
p. 66	basis	22	1
p. 00	50313	25-	•
		Jul-	
	TARP to reclaimed language update	22	1
	TARE to reciainled language update	25-	1
	romovo "now programs targeting commercial	Jul-	
47	remove "new programs targeting commercial		_
p. 47	customers" sentence.	22	1
	Add a statement about how three factors have been a		
	key to "decoupling"; improvements to the building code	0.5	
	have made new buildings more water efficient, our	25-	
	water conservation program, and our community's	Jul-	
p. 61	strong conservation ethic.	22	1
	Please update the TARP statement - it is currently being	25-	
	sent into the reclaimed system. It is only being	Jul-	
p. 46	discharged intermittently.	22	1
	Add a footnote that states that there is no large scale		
	agriculture in our service area and we don't have any		
	mining customers. Both SAHBA and Metro Chamber		
	have asked us to make an important distinction about		
	new development. We made the point about decoupling		
	on p 61, so new development is typically more water		
	efficient. Can we make a footnote here about how the	25-	
	projections about new development assume the water	Jul-	
p. 81	efficiency trend will continue?	22	1
		25-	
	Reference the metrics table in the "Key metrics"	Jul-	
p. 15	sentence	22	1
-		25-	
	Water management or About Tucson Water - include an	Jul-	
Chapter 1	ancestral lands statement	22	1
Chapter 1	ancestrarianas statement	25-	<u> </u>
	Move geographic settings title to this page. It seems out	Jul-	
n 20			4
p. 20	of place as a subtitle on p. 20	22	1
	Add in direct and direct west-life way	25-	
57	Add indirect and direct potable reuse as a future	Jul-	
p. 57	opportunity	22	1
p. 65	Add smart metering tech memo to the appendices and	25-	1

	refer to it as needed throughout the plan	Jul-	
		22	
	Nicke that the maridantial base water will always be	25-	
n 0E	Note that the residential base rate will always be	Jul- 22	1
p. 85	developed with affordability in mind.	31-	I
		Jul-	
P. 11	ADWR and ADEQ are reversed	23	_
F. 11	ADWN and ADEQ are reversed	31-	
	Remove ecosystem restoration title and sweetwater	Jul-	
p. 37	wetlands vs. the whole site (60 acres)	23	1
ρ. 57	wettands vs. the whole site (oo acres)	31-	1
	Don't interchange CAP and recovered Colorado river	Jul-	
p. 40	water	23	1
р. чо	Please change the first sentence of the reporting section	23	1
	to "An annual progress report will be shared with the	31-	
	public to provide a progress update on the	Jul-	
P. 6	implementation of the Plan recommendations"	23	1
1.0	in prementation of the Figure Commentations	31-	
	Is Mesa a larger City? Might want to say second largest	Jul-	
p. 9	metropolitan area in AZ	23	1
19.5	Please change the second sentence on the right side to		
	"The National Climate Assessment attributes the		
	increasing temperatures to both climate change and the		
	urban heat island effect (when temperatures increase	31-	
	because of solar energy being absorbed by pavement	Jul-	
p. 9	and other building materials)."	23	1
	Typo with "create known" in the Tucson's One Water		
	Cycle section. I would suggest taking groundwater		
	savings facility statement out of that section entirely. I		
	think it is too much detail for the short overview at the		
	beginning of the chapter. Please use this sentence to the		
	AWBA section on p. 31 to replace the second sentence		
	"The AWBA stores Colorado River water, delivered		
	directly through the CAP, in groundwater savings	31-	
	facilities. This is an indirect recharge facility that uses	Jul-	
p. 25	surface water instead of pumped groundwater."	23	1
	Please make this change in the first paragraph "Of that,		
	Tucson Water has the single largest municipal allocation	31-	
	of CAP water at just over 10 percent with 144,000 acre-	Jul-	
p. 27	feet per year (AFY)."	23	1
	In the graphic, the Pima Mine Road Recharge Project	31-	
20	should be located next to the CAP because they are	Jul-	
p. 28	connected.	23	1
		31-	
. 27	Change subtitle to "Sweetwater Wetlands and Recharge	Jul-	
p. 37	Facilities"	23	1

	Please change the first part of the last paragraph on the		
	left side of the page to "Stormwater could further offset		
	the use of potable water and reduce flooding in larger		
	GSI projects. Tucson Water has been working closely		
	with the Pima County Regional Flood Control District to	31-	
	take on the maintenance of larger GSI projects that the	Jul-	
p. 40	District designs and builds within the City limits".	23	1
	Please change the second sentence on the right side to	31-	
	"Another step in expanding the use of stormwater may	Jul-	
p. 41	be the created of a comprehensive stormwater utility"	23	1
	You may have already changed this but I wouldn't use		
	"CAP supplies". End the second sentence after		
	"distributed sources". Change the end of the third		
	sentence to "help offset the use of potable water."		
	Change the fourth sentence to "The scenario planning		
	process also created recommendations to protect the		
	existing allocation of Colorado River water by actively	31-	
	participating in regulatory discussions while continuing	Jul-	
p. 42	to maximize water savings by reducing demand"	23	1
	The future water demand vulnerabilities call out needs		
	to be rewritten. Please remove "potential for TW to		
	acquire other service areas" and the final phrase in that		
	statement about the incentives. Providing better		
	conservation programs for the commercial customers		
	should be an opportunity not a vulnerability? Only		
	population increases and land use changes that buck	31-	
	the current trend of decoupling would lead to an	Jul-	
P. 50	increase in water demand.	23	1
		31-	
		Jul-	
p. 56	LSTC typo in the graphs	23	1
		31-	
		Jul-	
p. 59	Monitory typo on the sticky note	23	1
		31-	
		Jul-	
p. 62	Add the term recovered to the example for GW-4	23	1
	S-4 example; please change to "Example: Expand the	31-	
	City's existing stormwater fee to fund more green	Jul-	
p. 65	stormwater infrastructure projects"	23	1
		31-	
	Remove the phrase "from adverse impacts of the City's	Jul-	
p. 72	drought responses"	23	1
	The description of annual groundwater savings should	31-	
	just be LTSCs, CAGRD, and AWBA volumes. Reflect this	Jul-	
P. 82	wording on p. 84 in the Quantitative Triggers	23	1
	Add City of Tucson Planning and Development Services	8/14/	
p. 14	Department	2023	1

Acknowled	Please make sure PAG is on the list of	8/14/	
gements	acknowledgements	2023	1
9	Replace "The supply assumptions in this Plan all test		
	Tucson Water's resilience against long-term shortage		
	conditions for the City's		
	Colorado River water allocation." with "The City of		
	Tucson has a representative on the Reconsultation		
	Committee. The City will work with other members the		
	committee to develop a unified approach to the State of		
	Arizona's negotiations with other users of Colorado	8/15/	
p. 23	River water and the Bureau of Reclamation."	2023	1
ρ. 23	This was an issue I brought up during the stakeholder	2023	<u> </u>
	meetings at the very beginning of this process, as well:		
	The Thirsty Desert scenario pictured in Figure 4.16 on	7/21/	
	page 4-16 is not the worst case scenario. The worst case	7/21/	
	scenario would be dead pool in Lake Mead when the	2023	2
	CAP allocation would be ZERO, not 70,000 AFY.	22:02	2
	Action I-2C in Table 6.5 on page 6-7 is confusing. It	7,00,1	
	seems to say that customers with high levels of water	7/22/	
	use and significant discretionary or outdoor water use	2023	_
	would be incentivized. Surely that's not the case?	22:02	2
	Strategy E-2 on page 6-8 should really be a high priority.	7/23/	
	It's a relatively simple and inexpensive strategy with	2023	
	significant potential for reducing demand.	22:02	2
	Shouldn't the quantitative trigger in Table 6.10 on page	7/24/	
	6-11 be "annual allocation of Colorado River water	2023	
	being LESS than potable demand."	22:02	2
	As a Tucson native, I am pleased to see that Tucson		
	Water is taking a wholistic look and approach to what is		
	sure to become one of the most important societal		
	issues of our lifetimes. After reviewing the One Water		
	plan, I'd like to submit the following comments.		
	Paragraph 3.4.1, Page 3-12 "minimal opportunities for		
Paragraph	additional irrigation customers" Has the city considered	7/21/	
3.4.1, Page	moving beyond direct irrigation as the only end use for	2023	
3-12	reclaimed water?	21:07	2
	Businesses such as car washes or landscaping/nurseries		
	come to mind as a possible use for reclaimed water. Or		
	work to use reclaimed water specifically to preserve and	7/21/	
	restore other shallow groundwater areas within the	2023	
	Tucson area (Tanque Verde, Sabino, Rillito Creeks).	21:07	2
	Surface water of concern is not just water in the	,	
	Colorado River to be used as a potable water resource		
Paragraph	for residents. Within the Tucson area, there are several		
5.3.1 -	areas of perennial flow. Their presence is an expression		
Surface	of a healthy groundwater table. Protection and		
Water,	restoration of these riparian areas should be a priority		
Page 5-4.	for the Tucson community.		2
1 age 3-4.	nor the rucson community.		

2
2
2
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2
2
2

Thank you for consider	ing public comments on this		
	el excited to join the beautiful		
1	Together, we can create a		
	and preserve water for future		
1 · · · · · · · · · · · · · · · · · · ·	ter gift can we share? Let's make	7/21/	
1	r the people of Tucson, and for all	2023	
ecosystems and life in		1:43	2
•	ribers of Tucson Water prioritise	1.45	_
	ual water usage, will that water		
	their future use, or will demand		
1	ulation allowances absorb	7/20/	
		2023	
1	vater. In short, is new growth to		2
be benefited from pre		18:46	2
_	ept. of Water Resources to	7/20/	
	equired to educate and outline	2023	_
what is actually availab		18:46	2
	r current apartment complexes		
	repair leaks, eliminate turf,	7/20/	
1 ·	er conserving and add grey	2023	
water usage to their co	mplexes.	18:46	2
		7/20/	
Incentivize residents to	cover or re-purpose swimming	2023	
pools for water harves	ing underground cisterns.	18:46	2
Currently a large numb	er of new car wash businesses are		
being allowed through	planning and zoning regulations.		
Reduce these and ince	ntivize those currently existing to	7/20/	
utilize rainwater harves	ted from their roof tops and	2023	
through filtering using	their drain water.	18:46	2
The Tucson One Water	2100 Plan is a commendable		
step forward, but shou	ld be improved during this review		
	comments to one issue. The plan		
1	ion of Tucson Water's Non-		
	ement Program (p. 4-8), but I am		
_	not a prominent part of this plan.		
1.	losses of potable water. That's		
1	y been received, treated, and		
	or delivery to customers, but		
1	pipes in transit. As of 2020, Lost		
	Vater comprised 8.22% of total		
	bout 10,000 acre-feet were lost in		
1.	real water, already acquired and		
	rolume is significant on the scale		
	3		
1	emand components for our		
	nat Tucson Water has been		
	number, and that this is relatively	7/20/	
1 - '	a US water utility. But we live in a	7/20/	
	supplies and a hotter future.	2023	
Tucson should strive to	set an example for careful	18:28	2

	management of water. Reducing lost water should be explicitly called out in a Strategy or Action, and included as part of the metrics for progress.			
Under	I hope the plan will include a robust effort to protect			
section 53.2 and	and restore riparian areas to allow for recharge and to save these threatened areas and the wildlife corridors			
6.1	they support. Development like the recently passed			
"Groundwa	Quail Ridge in Pima Wash is short sighted. This plan	7/20/		
ter	needs to be responsive to climate and the long term. Think local!	2023 15:19		2
Strategies"	Pertaining to chapters 5 & 6: There is not enough	15.19		<u>_</u>
	recognition of the potential for utilizing existing surface			
	water flows from within the Tucson area from rain and			
	snow melt. Much emphasis has been placed on flash			
	flood mitigation while ignoring how useful harvested			
	storm waters would be. It's not wise to think that there will always be CAP water available to Tucson. The plan			
	needs to include specific actions to harvest and retain			
	the rain and snow melt that is available at our feet.			
	There is not enough emphasis on this in the current	7/17/		
	plan. The plan relies too heavily on the use of CAP	2023		
	water.	17:10		2
	i appreciate the detailed information in this plan - there			
	is so much information to digest. i believe it is very important to provide financial assistance to lower			
	income community members to secure rain harvesting			
	(passive and active) systems in order to increase their	7/17/		
	awareness of the importance of water conservation,	2023		
	harvesting and storage.	1:56		2
	one area that is of importance to me is the removal of			
	invasive species such as buffelgrass and arundo which not only deprives natives plants of their water	7/17/		
	requirements but also increases the potential for	2023		
	wildfires, using our previous water resources.	1:56	;	2
	I emailed comments directly to John Kmiec at			
	john.kmiec@tucsonaz.gov. We worked together on a	7/16/		
	previous Tucson Water project. Please acknowledge that	2023		_
	I have the correct email address. Thanks	23:17		2
	In the One Water Plan for Tucson, I'm thrilled to see on pg. 19 that this plan marks a shift towards a more	7/16/		
	integrated and collaborative approach to water	2023		
	management. What's missing here, in my opinion, are	20:18		2

specific details on what such collaboration might look like. For instance, Tucson Water is already a part of the Santa Cruz Watershed Collaborative		
Congratulations and thanks for this comprehensive document. It is impressive in both its depth and breadth. The level of community engagement is most impressive. And it is re-assuring to learn that Tucson Water has done so much to ensure Tucson's water future. I learned that we're in good hands.	7/15/ 2023 19:46	2
The document seems disinclined to learn from other cities. We don't need to re-invent proven strategies. Learn from that other city (Las Vegas) that is also solely dependent on Colorado River water.		2
Not enough focus on developing potable water-re-use.	7/15/ 2023 19:46	2
Not enough consideration of the likely price of future water and how price will affect demand.	7/15/ 2023 19:46	2
The apparent lack of interest in active engagement on post-2026 Colorado River guidelines Don't leave everything up to ADWR.	7/15/ 2023 19:46	2
Page ES-1 managing Tucson's water supply under changing and uncertain conditions Comment: We can be confident that the change will be toward less available water, though we are uncertain about just how much less. "changing and uncertain conditions" is not just uninformative, it is misleading. Be frank about the situation.		2
Page 1-2 that encourages innovation and supports alternative and decentralized approaches to integrated water management. Comment: Why is "decentralized" important? Why not write "diverse"?	7/15/ 2023 19:46	2
Comment: There is nothing here so far about any new knowledge needed that might facilitate progress toward the goals. What about research needed?		2
Page 1-7 stored available excess CAP water for the future. Colorado River water stored underground in the Avra Valley has become a "savings account," a backup supply to draw on in drier years • Comment: How much of the water stored underground can be recovered? Is there any loss from such storage? Whenever I ask a groundwater hydrologist this question, the answer is "It depends". OK, so what does Tucson Water answer?	7/15/ 2023 19:46	2
Page 2-8 to a more diverse mix of water supplies in the early 2000s • Comment: Yes, it is more diverse (2 is more diverse than 1) and that's good. However, if the	7/15/ 2023 19:46	2

1	proportions shown here for 2022 were like those in a	I	ĺ	
	stock portfolio, no fund manager would call them			
	"diverse". We depend on Colorado River water. Period.			
	Some delivered directly, some recycled.			
	Page 1-10 The Drought Preparedness and Response			
	Plan may need to be updated if the Drought			
	Contingency Plan is no longer the operational guidance	7/15/		
	for shortage sharing on the Colorado River.Comment:	7/15/		
	Indeed, the DCP is no longer the operational guidance.	2023		_
	Conditions are changing faster than policy.	19:46		2
	Page 2-8 Tucson Water customers have among the			
	lowest water consumption rates in the Desert			
	Southwest. Comment: Can this be documented in a			
	table somewhere in this report. Or can a citation be	7/15/		
	provided? If we knew what cities did better, we could	2023		
	learn from them.	19:46		2
	Page 3-1 This blended water is then recovered using			
	wells and delivered to homes and businesses. Comment:	7/15/		
	What % of the water recharged is recovered? Same	2023		
	question posed earlier.	19:46		2
	Page 3-3: long • term reductions in the available			
	Colorado River supplies are considered likely. These will			
	almost certainly extend beyond the currently defined			
	shortage levels in the DCP. These reductions are likely to			
	significantly impact all Colorado River water users.			
	Comment: Boldface? Good to dissuade readers from			
	thinking that the "drought" will be over or even that	7/15/		
	there will be a new, lower "normal". CO river supplies	2023		
	will continue to decrease toward 2100.	19:46		2
	Page 3-3 The future management of the river is being			
	addressed through the federal reconsultation process.			
	More information about the work of the Arizona			
	Reconsultation Committee can be found on ADWR's			
	website. • Comment: Tucson Water should be engaged			
	in these conversations. Tucson Water should not simply			
	be a passive recipient of decisions made elsewhere in			
	the state or the Basin. Tucson Water can and should be			
	part of an overall solution. In the past, the Basin			
	negotiators got us into the trouble we are in "the issue			
	is not climate change alone, it is willful over-allocation.	7/15/		
	Why should we expect them to do better for the future?	2023		
	Engage!	19:46		2
	Page 3-3, 3-4 Brock Reservoir, which improves water	13.40		
	supply reliability by reducing excess flows to Mexico, as			
	well as desalination and brackish groundwater projects	7/15/		
	like the Yuma Desalting Plant, and the proposed	7/15/		
	binational desalination project with Mexico • Comment:	2023		2
	This sentence refers to a mix of realized projects (Brock	19:46		2

Reservoir) to now out-dated white elephants built and not operated (Yuma plant) to dreams of "a" or "the" (which one?) de-sal plant in Mexico.		
Page 3-4 . These are known as long • term storage credits (LTSCs) • Comment: This sounds like paper water	7/15/ 2023	
to me. Is it?	19:46	2
Page 3-12 Future uses of the Reclaimed Water System are captured as offsetting potable water supplies and		
therefore reducing the potable per capita water use.	7/15/	
Comment: Any estimates of how much of an offset of	2023	
potable water supplies is possible?	19:46	2
Page 3-13: A portion of the City's wastewater		
entitlement is discharged to Santa Cruz River where		
much of this resource leaves the basin without earning	7/15/	
LTSCs. Comment: Good. Important to keep setting	2023	_
aside some water for riparian restoration.	19:46	2
D 2446 + 6 D' H '' D ' +6	7/15/	
Page 3-14 Santa Cruz River Heritage Project Comment:	2023	2
Good! Page 3-16. SHARP is open to the public and provides	19:46	2
green space for walking, running, and biking. This facility		
also provides educational opportunities for students	7/15/	
through a partnership with APA. Comment: Looks bleak	2023	
and uninviting. Any efforts to plant vegetation?	19:46	2
Page 3-17 Direct and Indirect Potable Reuse	13.10	_
Comment: Vital for the future! Tucson should follow the	7/15/	
lead of efforts in Carlsbad, CA and Scottsdale, Az. Needs	2023	
lots of \$ and time to implement.	19:46	2
Page 3-17 Rain and stormwater harvesting	7/15/	
Comment: Any estimates of how much water is	2023	
harvested?	19:46	2
Page 3-19: The absence of a unified approach to GSI		
contributes to the difficulty in quantifying the saving	7/15/	
and benefits derived from these types of projects.	2023	
Comment: How can this be addressed?	19:46	2
Page 3-19 . As stormwater is difficult to quantify, the		
expansion of stormwater resources is included in the		
supply assumptions in the Plan as an approach to		
reducing the long-term per capita water by offsetting		
potable water supplies for irrigation. • Comment:	7/15/	
Meaning unclear. How does this avoid the difficulty in	2023	
quantification?	19:46	2
2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7/15/	
Page 3-21: Figure caption 3-24 Comment: what do the	2023	_
numbers on this figure refer to?	19:46	2
Page 4-3 . Tucson has among the lowest per capita	7/15/	
water use of the cities in the southwestern U.S.	2023	2

	Comment: Can this be demonstrated/shown with a table? It might be useful to see the cities that use even	19:46	
	less.		
	Page 4-4 use while seasonal demands correspond to		
	outdoor or other temperature driven water demands.		
	Comment: Interesting that seasonal use as a % is less		
	than in other municipal areas (e.g. Phoenix area) where	7/15/	
	outdoor use can approach 50%. That said, some non-	2023	
	seasonal use is outdoor use, is it not?	19:46	2
		7/15/	
	Page 4-8 Advanced Metering Infrastructure. Comment:	2023	
	Excellent and essential. Please implement or start by		•
	making such meters available on a voluntary basis.	19:46	2
	Page 4-8 Non-revenue or unaccounted-for-water (aka	7,45,	
	water loss) is the difference between potable water	7/15/	
	production • Comment: What % water is lost through	2023	
	such leaks?	19:46	2
	Page 4-10 , population increases and land use changes		
	Comment: There is a link to housing and housing	7/15/	
	development here. Multi-family housing will result in	2023	
	lower per capita use.	19:46	2
	Page 4-10 and economic factors such as the incentive		
	programs targeting commercial customers • Comment:	7/15/	
	Do you mean economic incentives to attract water-using	2023	
	commerce?	19:46	2
		7/15/	
	Page 4-12 Decreasing supply availability Comment:	2023	
	this is more likely	19:46	2
	Page 5-13 separate economic growth and water		
	demand can also be used to support the quality of life		
	guiding principle. For example, Mayor and Council have		
	directed City staff to research a Net Zero Water policy,		
	similar to polices currently enacted in other regions.	7/15/	
	Comment: Excellent! What other regions ae enacting	2023	
	,		2
	such policies?	19:46	2
	Danie F 14	7/15/	
	Page 5-14 commitment to prioritizing equitable and	2023	
	affordable service for all community members •	19:46	2
	Comment: Where in this document is a projection of		
	the costs of pursuing scenarios that might include		
	greater water re-use and de-sal? How much demand is		
	reduced with increased costs/ steeper tiering?		2
	Comment: I understand the need to indicate relative		
	expense. At some point however, dollars are dollars.		
	When one projected solution will double the water bill		
	and other will triple it, real costs become a factor in		
	implementation. Is \$3000 per acre foot via de-sal a		
			1
section 6-2	better deal than \$4000 per acre foot via re-use?		2

	in the aquifer above the natural recharge that takes place during/after storms?		
	Precip increase Comment: True enough, but the studies also show that any precip changed will not be enough		
Appendix A	to compensate for the increase evap or		
р. 1	evapotranspiration.		2
ρ. ι	evaporarispiration.	7/15/	
		2023	
	Page 1. Water harvesting Comment: volumes unknown.	19:46	2
	Comment: Yes, historic trends are important as	13.40	
	baselines. However, research is showing that		
	"stationarity" - the assumption that the future will be		
	similar to the past is no longer valid.		2
	Comment: The past 20 years and modeling are critical		
p.5	to CRB projections. Mention them!		2
μ.5	Page 5. Long term trend in river flows is increasing		۷
	Comment: "increasing" Not according to the data that	7/15/	
	l've seen.	2023	2
	Comment: This figure and analysis is now more than	2023	۷
	12 years old. We now know that the projected water		
p. 16	supply line will not be flat, it will have a negative slope.		2
ρ. 10	Comment: We are already beyond the capacity of the		۷
	DCP to deal with the river's deceasing flow and the		
p. 25	1		2
μ. 23	lower basin's increasing demand.		۷
	Post-2026 guidelines and tribal settlements will have a		າ
	bigger impact. Comment: Lookit. There will be less water available.		2
		7/15/	
n 26	Period. The only questions are how much less and the	7/15/	2
p. 26	priorities. This text is too much waffling.	2023	2
2C	Comment: "A large portion" is a massive		2
p. 26	understatement. We depend on its supply.		2
- 22	Comment: well-said. Tucson Water needs to engage at		2
p. 33	all levels.	7/45/	2
		7/15/	
	*In continue water collection with vehicles on water bills	2023	2
	*Incentive water collecting with rebates on water bills.	6:51	2
	*Cut curbs to let water flow onto city property	7/45/	
	everywhere. This will make the million (lol) tree program	7/15/	
	work much better, and without long term maintenance	2023	2
	and water usage.	6:51	2
	*Chamban and in a set it is the set is the s	7/15/	
	*Show how and incentivize collecting air-conditioning	2023	2
	condensation water.	6:51	2
	*Send out teams to help citizens set up their property	7/15/	
	for water and solar collection. Solar installation is	2023	-
	ridiculously expensive, considering how easy it is.	6:51	2
	*Create a simple 1k watt solar panel system that can be	7/15/	_
	installed in a couple of hours. Install those everwhere.	2023	2

	6:51		
	7/15/		
*Charge wealthy people more for water and power if	2023		
they do not collect water and solar.	6:51		2
	7/15/		
	2023		
*Buy used solar panels in bulk.	6:51		2
Start a program to use DC powered devices. Take	7/15/		
advantage of economies of size because it's a city, to	2023		
bring the price of such devices down.	6:51		3
	7/15/		
*Plug those devices into the 1k solar systems your teams	2023		
have beeen installing.	6:51		2
nave seech instanting.	7/15/		_
	2023		
*Help aircondition businesses to do these things.	6:51		3
*Charge businesses more for water and energy who do	7/15/		_
not act responsibly regarding water use and water	2023		
collection.	6:51		2
Concetion.	7/15/		
*Experiment with wind tower cooling. (Middle east, build	2023		
these in parks and schools)	6:51		2
these in parks and schools)	7/15/		
*Experiment with existing desert architecture ideas to	2023		
cool structures and collect water.	6:51		2
*Offer an insane amount of solar powered electric	7/15/		
vehicle charging stations. Make those free to park where	2023		
there is metered parking.	6:51		3
there is metered parking.	7/15/		
*Make deals with private parking structures to put solar	2023		
on roof and charge vehicles.	6:51		3
*Shut down the dumb coal power station during the day	7/15/		
that pollutes our lives and force TEP to use solar. Or	2023		
compete with TEP and build our own solar arrays.	6:51		2
*See if it's possible to use Reservation lands for solar, in	7/15/		
exchange for desired tribal outcomes, such as free	2023		
power for aircon and water.	6:51		2
Please consider the need for electricity to pump water.	0.51		
• • • • • • • • • • • • • • • • • • • •			
Power outages cause water pressure to drop. If we get into a situation where we have rolling blackouts, we			
	7/1//		
could have water shortages. Does Tucson water need to invest more on pumps or its own electricity source like	7/14/ 2023		
			ว
solar?	20:19		2
We should do what Brad Lancaster suggests: live within			
the water budget supplied to us in the form of rain. It	7/1//		
has already been proven that we get enough rain water	7/14/ 2023		
to supply our region. So instead of depleting our aquifer			ว
and importing surface water from other watersheds, why	15:40	1	2

\	don't we actually honor our local hero by listening to what he has to say and implement his vision for a sustainable water future.		
	Thanks for this plan, I'm so glad to see that this One Water plan is in the works!! And thanks for the opportunity to comment. Some things I would advocate for expanding in this plan:	7/13/ 2023 19:52	2
	Let's set targets for further water conservation among residential consumers. It's true we've made conservation progress, but there's so much more we can and should do, as we have the technology! I recently had to replace our old clothes washer, and I was stunned to see how much less water is used by my new		
	high efficiency washer. We need to find ways to help	7/12/	
	especially lower income residents to replace water	7/13/	
	wasteful washers, toilets, etc we should be able to	2023	2
	reduce our usage significantly. Include concrete actions to help protect our local	19:52	_
	surface and ground water supplies and enhance	7/13/	
	recharge, especially in those areas where ground water	2023	
	is relatively close to the surface.	19:52	2
	I'm thrilled to see planning for green stormwater	7/13/	_
	infrastructure to make use of our seasonally abundant	2023	
	rainfall. This is so important!	19:52	2
	In the One Water Plan for Tucson, I'm thrilled to see on pg. 19 that this plan marks a shift towards a more integrated and collaborative approach to water management. What's missing here, in my opinion, are specific details on what such collaboration might look like. For instance, Tucson Water is already a part of the Santa Cruz Watershed Collaborative, which recently adopted a Watershed Restoration Plan. By detailing participation in this collaborative and engagement with its plan, the One Water Plan would more effectively carve a path forward for the integrated approach it's seeking to chart. Not doing so could leave the One Water Plan in the position of paying lip service to collaboration without spurring on the steps that would make it a more robust reality.	7/13/ 2023 19:48	2
	I'm so happy to see this One Water Plan in		_
	development! It marks a major step forward in the		
	water stewardship of our community, and I'm grateful to		
	Tucson Water for its leadership in this domain. There is	7/13/	
	one area of the plan that I think would be very	2023	
	important to strengthen.	19:40	2

	When it comes to surface water (sections 5.3.1 and		
	6.1.1), the focus in the plan is on how water usage in		
	Tucson is related to the surface water of the Colorado		
	River. This is crucial, yet within Tucson we also have		
	surface water that very directly impacts our community		
	and its water resources. There are creeks, like Sabino		
	and Tanque Verde, which frequently flow, and parts of		
	the Santa Cruz and Rillito Rivers which historically had		
	surface water for much or all of the year. Protecting		
	existing, local surface water and restoring historical		
	flows would be of tremendous benefit to our	7/13/	
	community's water security and overall connection with	2023	
	water.	19:40	2
		13.40	
	For instance, by protecting and restoring riparian habitat		
	along these water courses, we would diminish erosion		
	and slow down water when it does flow, leading to	7.42.4	
	improved aquifer recharge. This win-win-win situation	7/13/	
	would lead to significant ecological, aesthetic, cultural,	2023	
	and water supply benefits.	19:40	2
	By including in the plan local examples of surface water		
	"even if intermittent "you would prioritize these		
	significant water resources. Moreover, by including		
	specific steps that could be implemented to protect and	7/13/	
	restore these streams and rivers, you'd lay an important	2023	
	pathway towards a more water-rich community.	19:40	2
	obviously i care about managing the water resources		
	here in tucson since i'm commenting;please tell my how		
	the 'one water' plan benefits my family and community,		
	as we live in picture rocks and get our water from avra		
	water co-op. i admittedly did not thoroughly read the		
	documents but i skimmed through the pages and did	7/13/	
	not see any mention of avra co-op when listing partners	2023	
	of the program. thank you:)	17:29	2
	Under section 5.3.1 and 6.1.1. Surface Water • , I'd like		
	to see specific actions on how to protect and restore		
	local surface waters, like Sabino and Tanque Verde	7/13/	
	Creek as well as the Rillito and Santa Cruz Rivers (not	2023	
	just actions related to the Colorado River surface flows).	15:53	2
	•	15.55	
	Under section 5.3.2 and 6.1 Groundwater Strategies • ,		
	I'd like to see actions to protect sensitive shallow		
	groundwater areas that support our riparian ecosystems,		
	as a priority for local groundwater restoration. Actions		
į l	· · ·	7/12/	
	would include enhanced recharge, targeted	7/13/	
	would include enhanced recharge, targeted conservation programs, and more recycled water	2023	_
	would include enhanced recharge, targeted		2
Under	would include enhanced recharge, targeted conservation programs, and more recycled water opportunities in shallow groundwater areas.	2023	2
Under sections	would include enhanced recharge, targeted conservation programs, and more recycled water	2023	2

6.1.1:		l	
0.1.1.			
	Add actions to protect, sensitive, shallow, groundwater		
	areas that support our riparian ecosystems as a priority		2
	for local groundwater restoration		2
	actions would include 1) enhanced, stormwater recharge		
	near shallow, Groundwater areas 2) creating targeted		
	conservation programs for people living in shallow		
	groundwater areas and 3) developing recycled water		_
	opportunities in shallow groundwater areas		2
	The plan does not recognize that there are seasonal and		
	perennial flowing rivers in the Tucson basin.		2
	Help protect shallow groundwater areas and their	7/13/	
	historic and current surface flows	2023	2
	Enhance stormwater infiltration in arroyos and shallow		
	ground water areas (page 54 & 61 of SCWC)		 2
	Review and update floodplain preservation policy to	7/13/	
	enhance floodplain infiltration for groundwater recharge	2023	
	opportunities (pg 55 & 62 of SCWC)	15:25	2
	Balance not maximize the Benefits of our Colorado river		
	allocation For Tucson with the health of the Colorado		
	river itself		2
	Support environmental local flow policy development		
	(pg 66 of SCWC)		2
	Groundwater (page 99) Partner with Santa Cruz,		
	watershed, collaborative to implement watershed		
	restoration plan Partner with Santa Cruz, watershed,		
	collaborative to implement watershed restoration plan		
	Work with water, providers, and other water Utilities,	7/13/	
	using groundwater to develop shortage, sharing	2023	
	agreements during periods of local drought	15:25	2
	First, we must all recognize and congratulate Tucson's		_
	leadership in reality-based water resource planning over		
	many decades. Based on recent updates of Active		
	Management Area plans we can see that our neighbors		
	to the north have land-use expectations that cannot be		
	met with foreseeable supplies. This has resulted in	7/13/	
	recent advice by Moody Analytics regarding real-estate	2023	
	expectations in certain parts of the Phoenix AMA.	12:37	2
	Good leadership has come from past City Council	12.31	_
	members, citizen organizations, and water professionals		
	,		
	within and outside the municipality. It has run on a		
	current of goodwill, trust and sharing of information.		
	Over the past decades, I have seen Tucson Water repair		
	damages to public trust, but I've seen little improvement		_
	in sharing of information regarding status of water		2

resources with the public. So the plan should affirm need for maintaining trust and improve the sharing water-resource information beyond the mandated requirements.	
2. Tucson relied on CAP to achieve safe yield, and C storage for others to supplement the budget. Toda CAP curtailment jeopardizes a sustainable future fo Tucson basin, if not the city itself. I am glad the City seen fit to husband its resources through the servic area policy.	ry, r the r has 7/13/
3. The Plan should acknowledge that the City of Tuderives its land and groundwater from the disposse of ancestral lands and waters of the Tohono O'odhar This in turn led to the Southern Arizona Water Right Settlement Act (SAWRSA) and spurred an extension the Central Arizona Project to San Xavier District. Protection of the Central Arizona Project, groundwater diversions by City of Tucson non-India water users drastically undermined the Nation's fed reserved rights in Avra and Santa Cruz valleys, and damaged or destroyed related cultural, environment and agricultural uses of this water especially at San Xavier District. SAWRSA settled the Tohono O'odhar Nation's water rights claims to a little over 100,000 - less than 1/20th of the reservation lands, but it did address all of the inequities caused by prior pumping The Nation is currently in negotiations with the Unit States and others to settle the rest of the Nation's vights.	ssion am. ts of ior to an eral atal, m acres d not ng. ted 7/13/
4. The significant reductions in water deliveries from Lake Mead contemplated under some Plan scenario and the Proposed SEIS action alternatives may lead Tucson, Sahuarita, and Avra Valley farmers to a return the previous status quo, with impacts to federal reserights that meet or exceed the historic damage suff by the Nation. The Plan should commit to minimize further impacts to the Tohono O'odham Nation's fereserved rights.	rn to erved ered any 7/13/

5. Except with regard to the very important service area		
policy, the One Water Plan seems to ignore		
transportation, wastewater, land use and density		
decisions on water infrastructure and supply. We know		
from Plan Tucson that roadway and land-use planning		
decisions can greatly affect the spatial dimensions of the		
city and hence the water-supply investments needed in		
the future. The recent Lower Santa Cruz Basin study also		
indicates that urban form and growth rates have a		
powerful effect on future water demand, such that a		
slower rate of growth and a more urban form can		
partially reduce the impact of increased temperatures on		
water demand. We also know from studies funded by		
Tucson Water and studies by Pima County Regional		
Flood Control District that the past decrease in average		
lot size has helped reduce Tucson's gallons per capita		
per day (GPCD) water use. On the other hand,		
commercial land-use decisions can increase migration		
rates and depending on the nature of the business,		
greatly affect water demand. Consider also that the		
State maintains it has separate authority for its land-use		
decisions on state trust lands, many of which lie within		
the City's service area. For all these reasons, the Plan		
should be more explicit about the relationships between	7/13/	
land use and density decisions in relation to water	2023	
supply and infrastructure consequences.	12:37	2
6. The residential sector has shown a declining GPCD		
and continued decline can be projected based on lot		
size reductions and improved efficiency of appliances. I		
support a focus on demand management in the non-		
residential sector. Tucson should not rely only on	7/13/	
service area policy and individual rezoning conditions	2023	
for controlling commercial demand.	12:37	2
7. The placement of new wastewater conveyances and		
treatment facilities by Pima County in southern part of		
the Tucson Basin will affect land use and the future		
conditions under which reclaimed water will be	7/13/	
available. Tucson should be more involved in	2023	
wastewater planning with Pima County.	12:37	2
8. Pollution of groundwater is foreclosing future		
opportunities to use parts of the aquifer. Each City	7/13/	
supply well that is shut down costs over \$1 million to	2023	
replace.	12:37	2

	This plan identifies ADEQ as being responsible for water	l	ĺ	I
	quality protection. That's a mistake. Continued collapse			
	of Clean Water Act (CWA) protections under the			
	Supreme Court's Sackett and Rapanos decisions will			
	jeopardize future water supplies in both the Tucson and			
	Avra Basins. As a result, in the future some existing as			
	_			
	well as new commercial and industrial point-source			
	discharge facilities will lack ADEQ or federal CWA			
	requirements. The Court decisions undermine the Corps'			
	2008 designation of the Santa Cruz River as a Traditional			
	Navigable Water. When that falls, there will no longer			
	be a Clean Water Act requirement for the continuation			
	of the City and County stormwater program, nor a			
	federal basis for Pima County's industrial pre-treatment	7/12/		
	program. The Supreme Court decisions also undermine	7/13/		
	PAG's authority as the CWA Section 208 water quality	2023		2
	process referee for new wastewater treatment systems.	12:37		2
	The new state program for surface water quality does			
	not, indeed cannot extend to any ephemeral tributary of			
	the Santa Cruz River due to legislative provisions. The			
	scope of the state's aquifer protection program is also			
	extremely limited. Our community's recent realization of			
	widespread PFAS contamination should also remind us			
	that the state and federal programs were inadequate	7/13/		
	anyway for preventing contamination via land-surface	2023		
	disposal.	12:37		2
	The whole system of water quality protection needs to			
	be re-examined at the local level to safeguard our			
	underground water supplies in the Tucson and Avra			
	Basins. Tucson Water is extremely vigilant about water			
	supply at the wellhead and the tap, but vigilance must			
	be improved at the local level where land uses are	7/13/		
	authorized. What's Tucson's plan for closing this gap	2023		
	between pollutant discharges and aquifer protection?	12:37		2
	9. As a result of all these outside factors and the fact			
	that aquifers are a shared resource, City should, among			
	other activities, work with other entities to strengthen			
	local protections around land-surface disposal of			
	contaminants. A good place to start would be to			
	engage a variety of community representatives and			
	professionals to consider ways to improve local			
	protections using local authorities. This could eventually			
	provide a basis for re-affirming certain existing measures			
	and inaugurating new measures. Could this occur			
	through re-invigoration of a regional water quality effort			
	through PAG, under the present PAG leadership? I have	7/13/		
	my doubts; I have seen is a progressive disinvestment,	2023		
	even quashing, of the function of watershed planning by	12:37		2
1	, <u>, , , , , , , , , , , , , , , , , , </u>			

PAG's leadership. In the short-term, at a minimum Tucson should encourage Pima County to reaffirm industrial pre-treatment based on authorities outside the Clean Water Act.		
10. Regional entities are increasing the use of stormwater and graywater for land-surface irrigation and effluent for on-site reuse. While the vast majority of pollutants in surface disposal systems do not present aquifer risks, it is important to consider locations, volumes, and the types of chemistries being disposed. In some cases, it may be still be better to have sewer disposal and treatment of pollutants than risk land-based disposal methods. These kinds of issues should be further studied by City and County, with potential implications for the stormwater detention / retention and LID manuals.	7/13/ 2023 12:37	2
11. The City's floodplain management program has withered over the decades. Recent re-mapping of floodplains in the City by Pima County Regional Flood Control District and various developers has revealed many areas are susceptible to flooding from local washes. And storm intensity can be expected to rise in the future. The Plan should establish a foundation for identifying locations, when flooded, might pose hazards to surface water and aquifer contamination? What strategies might help ensure protection of water supplies against contamination?	7/13/ 2023 12:37	2
12. City Council has recently moved to restrict new, ornamental turf. Consideration is being given to lawn removal programs, and much turf has already been removed by action of increasingly expensive water. Meanwhile, decades of the ongoing drought, increasingly high temperatures, deficit watering strategies, saline reclaimed water and lack of investment in City parks and local schools have diminished the quality of the remaining turf in school turf and parks. These municipal facilities are de facto cooling stations for Tucsonans, where all residents periodically seek a cooler, greener oasis for respite. Therefore I recommend that Tucson enhance its attention to the vigor of the remaining City turf and trees as part of the One Water strategy, rather than just considering it in the context of individual bonds and maintenance budgets.	7/13/ 2023 12:37	2
13. Continued evaluation of the rainwater-harvesting rebates as a means of homeowner conservation is also	7/13/ 2023	2

1	I	1 40 07 1	1
	needed. Even passive earthworks may not yield water	12:37	
	conservation benefits at the homeowner scale. While		
	there are certainly climate benefits, not all homeowners		
	really need the monetary incentives provided by rebates.		
	14. I commend the City for its endorsement of water for		
	natural environment, but it needs specifically embrace		
	maintaining shallow groundwater areas. This is		
	especially important as City turns on more wells in the		
	future and annexes more land. The City's Heritage and		
	TARP disposal projects on the Santa Cruz River are		
	laudable, and much enjoyed by local residents. However,		
	the City should not rely only on these projects. The San		
	Xavier District has a flowing reach which has recovered		
	due to indirect recharge of CAP. Given the historic		
	impairment of this river reach, Tucson should commit to		
	helping minimize any impacts to the groundwater in		
	that area. PAG identified other shallow groundwater		
	areas. The Sonoran Desert Conservation Plan and the		
	Santa Cruz Watershed Restoration Plan each target	7/13/	
	shallow groundwater areas along Sabino Creek and	2023	
	Tanque Verde Creek for restoration.	12:37	2
	15. On p. 41, the Plan talks as though all of the region's		
	perennial and intermittent streams are gone, which is	7/13/	
	not true. The Plan should list the intermittent streams	2023	
	which exist in the service area.	12:37	2
	16. Real ecological progress has been made by the City		
	along Tanque Verde Creek: my analysis of the National		
	Land Cover Dataset shows this as the only significant		
	increase of riparian woodland during the megadrought		
	within the Tucson Basin. Continued management will be		
	needed to sustain that progress. The City should re-		
	affirm the last-on, first-off policy for operation of the		
	City's wells in the Tanque Verde and its commitment to	7/13/	
	reducing aquifer stress through the use of reclaimed	2023	
	water at Forty-Niner's golf course and surrounding area.	12:37	2
	17. Tucson should consider acquiring the Metro-Hub		
	service area if Metro is willing to sell. The area is largely	7/13/	
	built-out and additional water conservation here might	2023	
	help Sabino Creek.	12:37	2
	18. Another strategy that could be used to restore water		
	for the natural environment would be to identify and	7/13/	
	secure wells known to have cascading water along the	2023	
	Tanque Verde Creek.	12:37	2
	19. In comment #1, I mention trust. Trust comes, in part,		
	from equitable arrangements. What to do about the lack		
	of representation for the 29% of customers living in	7/13/	
	unincorporated areas, and 6% living in other	2023	
	incorporated areas or jurisdictions? More than a third of	12:37	2
L	, production of the contract o		<u>-</u>

Tucson Water's customers cannot vote for a Council		
member, and now Pima County has taken it upon itself		
to represent their interests with a lawsuit concerning		
City water rates. Without taking a position on the merits		
of that case, I do ask: are better mechanisms for		
representation of the interests of customer base outside		
the City needed?		
20. In a recent memorandum to the Board, Pima County		
reports that the City identified three objectives for the		
increased revenues generated by differential rates: (1)		
infrastructure projects to enhance water delivery from		
the City limits to outside City limits • ;5 (2) climate		
resiliency, water sustainability, and tree canopy projects		
throughout the entire Tucson water system • ;(3)		
financial assistance to eligible Tucson Water customers		
by expanding a low-income program and paying down		
delinquent accounts impacted by COVID-19. I support		
these objectives, however it sounds like objective 3 has		
been underfunded. For instance, in FY22, the County		
says that City spent \$1.5 million in differential revenues		
for purposes of expanding the low-income program and		
paying off delinquent accounts. By comparison, the City		
has spent only \$7,000 on infrastructure projects. One		
measure that might be appropriate would be to		
facilitate connections for small exempt and non-exempt		
well users located outside the City (and inside the		
service area), if they relinquish use of pumped		
groundwater. There are for instance, a number of users		
who drink from Tucson's piped supply, but use their own		
pumped groundwater for irrigation, livestock watering		
or other purposes. Subsidizing infrastructure costs might		
induce them to give up the pump and reduce overall		
water use. Along the Tanque Verde Creek, this could	7/13/	
also yield benefits to natural groundwater supply for the	2023	
riparian environment.	12:37	2
21. Is there a role for continued acquisition and		
retirement of agriculture as a means of safeguarding a		
municipal supply? Long ago, it was thought that by now		
most of the agricultural areas would have been		
developed. Actual rates of conversion remain		
remarkably slow, such that groundwater-based		
agriculture remains a significant land use in the Tucson		
Active Management Area. However, for the most part, it		
may be the location of such agriculture is not well-		
situated with respect to the City's future demands,		
except perhaps in the Sahuarita area, where	7/13/	
opportunities to acquire farmland are already	2023	
foreclosed. Because of the proximity of Sahuarita to City	12:37	 2

groundwater supplies, it may be in the City's interest to work closely with Sahuarita on future land- and water-resource planning.		
22. Support Pima County Regional Flood Control District's Floodprone Land Acquisition program. This program is acquiring lands within the Tucson Water service area that help safeguard recharge zones and riparian areas and protect critical infrastructure, particularly along the Black and Brawley Wash systems where much of Tucson's water supply infrastructure is located. Other opportunities for City-County collaboration may exist in the periphery of the Santa Cruz River floodplain outside San Xavier District. Tucson could identify potential acquisition targets for consideration that also help meet its municipal goals, help fund the program, and cooperate with land management strategies.	7/13/ 2023 12:37	2
23. On page 52 of 110, the draft Plan states that much of the City's wastewater entitlement is leaving the Basin without earning long-term storage credits. I think this is an overstatement based on old information "could you check?	7/13/ 2023 12:37	2
24. This plan (see preceding comment) establishes a basis for future diversions of effluent from the Santa Cruz River. I don't support this. Instead of diverting more effluent from the river, Tucson could extend the managed recharge project downstream. The last stream gage is located at Trico Road, and the City's managed recharge project ends there. Downstream of that is a riparian restoration project on City land (at Simpson Farm) that benefits from the continued flows of effluent. I note that there is a large wetland just north of the County line that also benefits from a little effluent, though it largely relies on stormwater and a little ag runoff as well. This would require devising a means to gage the remaining effluent flows at a more northerly location so that the continued riparian benefits to City land north to the Tucson Active Management Area boundary could be maintained while generating additional credits. The reason that there is not a gage downstream of Trico Road is the lack of a well-controlled cross-section (like a bridge) to monitor flows. There are, however, other ways to measure seepage loss downstream of Trico Road that might meet ADWR's	7/13/ 2023	
requirements for generating long-term storage credits	12:37	2

through extension of the managed recharge project. Devising a means to monitor flows near the terminus of the Tucson Active Management Area would be much cheaper than building and running a constructed recharge project, and it does not foreclose future options the way expensive off-channel recharge basins do.			
25. I do not support direct potable reuse (DPR) for Tucson. The history of treating TARP and effluent water shows that we are not smart enough to deal with the wide variety of chemical constituents that now characterize municipal and industrial effluents. The experience of Tucson Water with direct potable use of water from the CAP canal showed that treatment and delivery of even river water can be botched, and this was a much simpler task. The treatment trains for DPR are extremely complex to design and maintain. System problems can release contaminants to the delivered water unless there are sophisticated and reliable means to detect and divert water. Real-time monitoring and detection is hard and unlikely to be able to respond to the constantly changing mix of chemical constituents supplied by customers. We all understand that treatment effectiveness varies, that standards and detection tests do not exist for all contaminants, and that our understanding of health risks of new chemicals often lags far behind the rate of innovation. For these reasons, I am not sanguine about the potential for avoiding human health risks from unregulated or poorly detectable chemical constituents of effluents treated for			
potable use. Indirect potable reuse is less problematic, less costly and more reliable than DPR but some of the	7/13/ 2023		
latter problems mentioned above also affect IPR 26. I would rather recharge treated effluent to support	12:37 7/13/		2
riparian areas or minimize subsidence rather than	2023		
directly treated and served back to the public.	12:37	;	2
27. I endorse efforts to reduce water lost in the Tucson	7/13/		
Water system. This should include capital improvements	2023		
to replace old systems, not just maintenance and repairs.	12:37	;	2
28. I do not favor a stormwater utility fee. Tucson has	7/13/		
been successful in raising revenues in a variety of ways	2023		,
that do not invoke a stormwater utility.	12:37		2

I am a member of the Sustainable Tucson Water		1
Committee and I would like to see the following updates	7/12/	
in the Tucson One Water Plan: 1. specifics on riparian	2023	
and groundwater restoration action plans	21:53	2
	7/12/	
2. recognition that there are seasonal and perennial	2023	
flowing rivers in the Tucson basin	21:53	2
3. removal of the term "renewable resource" from the	7/12/	
Colorado River - it is only renewable with the proper	2023	
management which needs vast improvements	21:53	2
4. specific strategies for teaming with the variety of very		
capable local organizations and the community to		
achieve plan goals (i.e., the Santa Cruz Watershed	7/12/	
Collaborative, Watershed Management Group, and	2023	
many others)	21:53	2
5. more details on how to help protect and restore		
shallow groundwater areas and their corresponding	7/12/	
historic and current surface flows (e.g. Sabino, Tanque	2023	
Verde, Cienega, Rincon)	21:53	2
	7/12/	
6. Enhance stormwater infiltration in arroyos and	2023	
shallow groundwater areas (p 54 and 61 of SCWC plan)	21:53	2
7. Review and update floodplain preservation policy to	7/12/	
enhance floodplain infiltration for groundwater recharge	2023	
opportunities	21:53	2
8. Balance (NOT maximize) the benefits of our Colorado	7/12/	
River allocation for Tucson with the health of the CO	2023	
river itself	21:53	2
	7/12/	
	2023	
9. Support environmental flow local policy development	21:53	2
	7/12/	
10. Partner with Santa Cruz Watershed Collaborative to	2023	
implement Watershed Restoration Plan	21:53	2
11. Work with water providers and other water utilities	7/12/	
using groundwater to develop "shortage sharing	2023	
agreements" during periods of local drought	21:53	2
	7/12/	
12. Support development of groundwater conservation	2023	
incentives for other shared groundwater users	21:53	2
	7/12/	
13. Treat and manage recycled waters to support	2023	
riparian systems and shallow groundwater recharge	21:53	2

This plan is a fantastic start! Relying on Colorado CAP water should not continue to be the major plan. Local rivers supported the indigenous peoples that lived here since time immemorial and if we focus on restoring and maintaining our Santa Cruz as well as harvesting rainwater, we can create a resilient water plan that does not rely on water from Colorado. The mountains here are the origin of water and that needs to be a major focus as well. I would recommend focusing more on expanding the Ecosystem Restoration component within the plan. This should include how constituents will be educated on passive rainwater harvesting and surface water runoff. The survey example under, Educate the community about using rain and stormwater for landscaping:	7/12/ 2023 21:42	2
"Example: An advertising campaign that teaches the public about how to support native plants and trees with rain and stormwater harvesting" (pg. 87) is confusing because an advertising campaign feels very different from the rainwater harvesting that the community has engaged in and has support for from UofA and ASU and many other partners. Education is generally seen as the solution and needs to be a bigger part of the plan.		1
Urban sprawl with the building permitting process was not addressed. Will someone re-look at the current building permits to make sure the builders are not fudging the 100 year water supply numbers for their subdivisions? When will the City of Tucson and Tucson Water speak up about the city blindly issuing permits in a region facing water supply shortages. The permitting process is contributing greatly to the metro areas heat island effect. And planting trees in urban areas competes with the city encouraging filling in the infill plots with buildings. Why was a "future sight of Mister car wash: approved off of Houghton? This document is nice and shiny but the plan needs less "wokeness" and more of a commonsense approach by addressing the hypocritical messaging the City gives out by its actions. If you can reconcile the conflicts separate departments are creating (as in examples given) then perhaps I could take the City and Tucson Water serious about what they want to achieve. Thank you.	7/12/ 2023 16:32	2
Please make recycling and serving treated wastewater a priority. Tucson Water/City/Region needs to invest in the technology and infrastructure to do this today. Other	7/9/2 023	2
countries and US communities are doing this!	20:04	2

water into SCR is not a good option. I propose doing a comprehensive study of large commercial users of		
22nd St will create problems with aquifer level intersecting the A Mountain Landfill. So more reclaimed		
from the Irvington site along with the outflow close to		
system. Consequently the City May have more reclaimed water to use. Placing more water into the Santa Cruz		
TARP water that remediated is going into the reclaim		
the use of reclaimed water. My understanding is that the		
I read the plan for OneWater. My comment relates to		
million trees?	14:54	2
Does the 2100 plan support the mayor's plan to plant a	023	
cocarcity via agreements with ter.	7/3/2	-
electricity via agreements with TEP.	15:47	2
Consider covering exposed water with solar panels to reduce evaporation while simultaneously generating	7/3/2 023	
mines? Where is the leveling out?	17:02	2
continue to develope new homes, new businesses, new	023	,
My concern is why does Pima County and Tucson, AZ	7/3/2	
ways (like dust mitigation on road construction).	20:36	2
pool so that the water can be recycled or used in other	023	
swimming pools, offer free pumping of water from the	7/3/2	
And, with many people eliminating their old backyard		
design water saving landscapes for homeowners.	20:36	2
landscape architect students from UA to analyze and	023	
Two suggestions to help home owners: involve	7/3/2	
defined somewhere within the document.	14:57	 1
universal in definition. As a result, both should be	023	
The word "Equity" and the term "Social Justice" are not	7/6/2	
saving billions of gallons of mined water resources	13:14	2
Reuse water, Wastewater or impaired Superfund water,	023	
technology can be used on Groundwater, Surface water,	7/8/2	
various areas of the Great State of Arizona. This		
Technology has 0.1 to 15 mgd per skid, can be installed indoor or outdoor and is currently being deployed in		
25-years with no serviceable parts. This Skid Mounted		
The Silica Carbide Membranes operate for greater than		
cleaning and recovers 99.99% of all raw water pumped.		
contaminates, does not require backwash or CIP		
The system is capable of treating most water		
. ,		
Please Note: Purifics offers Single-Pass, Multi- Contaminate Removal, Membrane Treatment Water Technology WITH ZERO LIQUID DISCHARGE capability.		

pilot/test group? Thanks, Nancy Kowalski	023	
	12:50	
	6/30/	
I have fie pages of comments. Please let me know how	2023	
to send them to you.	18:42	2
I don't see any reference to a stormwater reservoir		
where the Santa Cruz, Rillito River and Canyon del Oro		
washes converge. Its an important idea to capture that	6/22/	
runoff that just ends up in Pinal County. It could be used	2023	
for gray water or with enough filtration, potable water.	3:58	2
Capturing rainwater is honestly our only option for	0.00	
another water source. Conservation only goes so far. We		
cant conserve ourself a new water source. Most major		
cities have reservoirs. Tucson is one of the only major		
metropolitan cities that does not. Phoenix has 7 dams		
and reservoirs with Roosevelt being the largest. Doesn't		
seem like Tucson planners in the early 20th century were		
very forward-thinking. Since it would be highly		
unpopular to create any kind of upper watershed dam		
filling a canyona downward stormwater catch-all		
reservoir seems plausible and would add a beautification	C /22 /	
element to the city. It might even spawn more economic	6/22/	
growth in that area if we have what appears to be a	2023	2
beautiful lake in the city.	3:58	2
I feel dumb asking this, but nobody I've asked has an		
answer. What happens to all of the water in the Rillito	C (0.4)	
during monsoons? Is it stored in some way? Does it	6/21/	
simply flow out into the desert? I tried to read the entire	2023	
report but couldn't get through it all. Thank you.	23:40	2
I believe that storm water harvesting is the most		
important future water supply for Tucson. With 3		
months of monsoons, this underutilized resource needs		
to be captured, revised to potable condition and stored	6/21/	
on a large scale. Is it possible to estimate how much	2023	
storm water is generated each year? Thanks	9:02	2
is there any concern about Tucson's groundwater being		
contaminated by the PCB (polychlorinated biphenols)		
Tucson Electric Power has buried on their Irvington	6/21/	
property? Should that be remediated prior to it possibly	2023	
spreading?	7:31	2
Outlaw grass!!! We don't need grass in front of every		
Office complex !!!		2
I'd like to see specific actions on how to protect and		
restore local surface waters, like Sabino and Tanque		
Verde Creek as well as the Rillito and Santa Cruz Rivers.	6/20/	
Currently the plan only has actions related to the	2023	
Colorado River surface flows.	11:45	2
COIOTAGO RIVEI SUTTACE HOWS.	11.45	

Under section 5.3.2 and 6.1 Groundwater Strategies • ,		
we'd like to see actions to protect sensitive shallow		
groundwater areas that support our riparian ecosystems,		
as a priority for local groundwater restoration. Actions		
would include enhanced recharge, targeted	6/20/	
conservation programs, and more recycled water	2023	
opportunities in shallow groundwater areas.	11:45	2
Please consider outfitting homes with water-from-air		
devices.Although not useful during periods of low		
humidity, the devices could provide all of a home's	6/20/	
water supply during rainy seasons.	2023	
https://us.watergen.com/	10:57	2
In section 5.3.1 and 6.1.1. Surface Water • , I'd like to see	10.57	
specific actions on how to protect and restore local		
surface waters, like Sabino and Tanque Verde Creek as		
well as the Rillito and Santa Cruz Rivers. Currently the	6/20/	
	2023	
plan only has actions related to the Colorado River		2
surface flows.	10:45	2
Under section 5.3.2 and 6.1 Groundwater Strategies • ,		
I'd like to see actions to protect sensitive shallow		
groundwater areas that support our riparian ecosystems,		
as a priority for local groundwater restoration. Actions		
would include enhanced recharge, targeted	6/20/	
conservation programs, and more recycled water	2023	
opportunities in shallow groundwater areas.	10:45	2
My suggestions: As someone who has been trying to		
conserve water at my residence for decades I can say the	6/20/	
biggest impact by far has been using gray water. The	2023	
current rebates are great but under utilized.	9:38	2
Also, I recycle the majority of my household water for		
outdoor landscaping yet I still get charged as if I used		
the city's sewer system. Why do I get charged for sewer		
use based on water use if I'm only putting a portion of		
that water into the sewer system? If the sewer system is		
reliant on wasteful practices to operate, that needs to		
change. Money talksif you want customers to conserve		
water provide an incentive. Either reduce cost for those		
of us who use very little water, or raise cost for those		
who waste it. Golf courses should pay for their	6/20/	
environmental impact. Homeowner's who conserve	2023	
should be rewarded.	9:38	2
Stop bringing big corporations to Az, we don't have the	2.50	_
resources to apply for another big company coming to		
Tucson,vail,sahuarita,marana,corona de Tucson,Rita		
areas with enough water supplies for people, let alone a		
big corporation. Or the Rosemont mineIf we had some	6/20/	
kind of program to get free water drums more people	2023	
		า
would apply water conservation. Since it is expensive to	1:06	2

inc ha	y these drums, tanks alot of people don't buy them cluding myself. If I could afford some I definitely would we several running through my roof to water plants th conserved water. Thank You!		
	yould like to know about the strategy 5.3.3 of recycling		
	Iter to drinking water standards. How does Tucson	6/19/	
	ater plan to detect and remove prions from the water pply? Prions resist disinfection and have been	2023	
	sociated with a variety of neurodegenerative diseases.	23:58	2
	ere's a perfect example of top-heavy bureaucracy in	23.30	_
	tion. We're supposed to read a 110 page plan? Of	6/19/	
	urse not, and the people responsible know this. They	2023	
	int to discourage feedback and transparency.	21:35	2
	Reduce/eliminate lawns and grass areas. Assess grass		
	eas in public parks to come up with an optimal size of	6/19/	
gra	ass area for public use. Restrict grass use in private	2023	
are	eas.	20:19	2
		6/19/	
	Better use of rainwater runoff from streets for	2023	_
res	sidential plant use.	20:19	2
3)	Make Winterhaven accountable for well water use to	6/19/ 2023	
	iter lawns.	20:19	2
VVC	iter idwiis.	6/19/	
4)	Subsidies for existing homeowners to remove existing	2023	
	ols.	20:19	2
		6/19/	
5)	Make the administrative cost of putting in new pools	2023	
to	o expensive.	20:19	2
	The city has to be a major partner in any water	6/19/	
	ductions. Serious discussion on growth. No more	2023	
	cking the can' down the road.	20:19	2
	ter perusing pages and pages of the same 'ol planning		
	gma, I realize you don't face the reality that continued		
_	owth and weak conservation incentives will ponentially dry up Tucson. Strong mandates are		
	eded to outlaw non Sonoran plants, ornamental grass		
	ndscaping and oleanders (which are poisonous and	6/19/	
	t for composting). No new large developments. Be	2023	
	ld and get it done. Thank you.	19:32	2

water in the shower, no waste. So many homes built just like mine in the 70's. I stayed at a Best Western in SantaFe NM in 20012. Taking a shower, the water gushed out faster than the drain could handle. No water saving shower head at the Best Western I complained to the hotel that I did not like standing in my own rinse water never heard from them. I think there are a lot of ways to start saving water. It starts with common sense and incentives. My incentive was a 40% increase in the Tucson water rate.		
Stop building and support what we have. We need the farmers but the growth in building is depleting what we		
have. There are other places for people to go that can		
be supported with water they have. Therefore, don't line	6/19/	
your pockets with contractors money but support the	2023	
population you have.	18:00	2
STOP ALL NEW WATER USERS! WE NEED TO STOP NEW	6/19/	
DEVELOPMENT AS THERE IS NOT GOING TO WATER	2023	2
FOR IT!!!!	17:51	2
Unfortunately most of us are unlikely to trust politicians and government officials, both at the federal and state		
level. We recently learned that our former governor was		
somewhat duplicitous in his communications about our		
water supply. We are definitely at risk of water		
shortages, yet building continues. Developers build,		
take their profits and move on. Residents, businesses		
and farmers are left with the glass not half full but		
almost empty. This is not a new problem. We live in a		
desert. Wait and see what happens to our local	6/19/	
economy, the value of our homes and overall well-being	2023	
unless the water supply issues are taken seriously.	17:36	2
I don't believe we have a major water shortage. Mt.		
Lemmon provides millions of gallon to both sides of the		
mountain. The major river that runs underneath the city of Tucson will prove this. Secondly the CAP water is		
abounded. Build large reserves around Tucson and get	6/19/	
off raising the water rates. Wages and retirement is the	2023	
main focus of increasing water rates.	17:00	2
Stop building new houses unless they implement water	6/19/	
plans in building them we don't have enough water for	2023	
all these new houses they're building	16:57	2
The plan is interesting. Things that might be considered		
is to have all newly constructed homes built so that gray	6/19/	
water from washers can be recycled for outside used on	2023	
desert plans which may need irrigation.	14:54	2

1	Additionally bases were ward at an orbital and in	İ	
	Additionally, have water restrictions whereby residential		
	and commercial properties can only water on odd or		
	even numbered days. These days would be coordinated		
	with the property address. i.e. A property that has a		
	even street number can only do outside watering such		
	as sprinkler systems/irrigation on even numbered		
	calendar day. Properties with odd street numbers can		
	only water on calendar days with odd numbers. This	64404	
	could be implemented seasonally, or become a regular	6/19/	
	ordinance. It might help reduce strain on the water	2023	_
	systems.	14:54	2
	Build earthen dams on our waterways! Orange County	6/19/	
	does this on the Santa Ana river to sink water into the	2023	_
	aquifer!	14:43	2
		6/19/	
	desalination desalination I cannot stress this	2023	
	enough.	14:42	2
	also fog catchers		2
	To start with, let's stop building and start destroying the		
	clap-trap homes that are sucking us alive. Stop allowing		
	the CCP/Saudis from buying our land and sucking up		
	our water. Stop the illegals crossing our boarders by the	6/19/	
	millions to return, thus not sucking up more water. Build	2023	
	more dams to rein in the monsoon rain!	13:44	2
	Arizona has MILES of open aqueducts. These sections		
	lose hundreds of THOUSANDS of GALLONS/year to		
	evaporation. COVER the open aqueducts and Arizona		
	can SAVE those hundreds of thousands of gallons per		
	year BONUS! To provide this stupendous amount of	6/19/	
	COUNTED BUT UN USED water only costs a 1 TIME	2023	
	INFUSION OF CASH to build and apply the coverings.	13:27	4
	First, my overall impression is that Tucson Water and its		
	customers are leaders in responsible water management		
	and implementation of this plan will continue that		
	leadership. Thank you for producing and		
	communicating such a strong plan for Tucson's water	6/19/	
	future in such uncertain times. Specific comments	2023	
	follow:	12:17	2
	Section 3.3 Groundwater "Somewhere in the Plan		
	should be a definitive statement of intent to continue		
	the recovery of groundwater levels throughout the		
	aquifers that are the subject of this plan. Understanding		
	that groundwater is used as a secondary or backup		
	water supply during certain times and that groundwater		
	use by others is beyond the authority of Tucson Water,		
	one long term goal of this plan should be "through	6/19/	
	reduced demand, increased use of recycled and storm	2023	
Section 3.3	water, and other strategies " to continue the recovery of	12:17	1

	groundwater aquifer levels throughout the area. There are two purposes for this "1) to enhance groundwater resources in case they are needed and 2) to improve the chances of free-flowing surface water during longer			
	Surface Water Strategies "Work with the CAP to protect the canal from evaporation by shading it with photovoltaic panels. This is not a new idea but as solar technology continues to improve in economic efficiency and demand for renewables continues to rise, the time for this action will come sooner rather than later and would have the effect of reducing evaporative loss of ever more valuable water that the CAP supplies. I understand this proposed action may be beyond the scope of Tucson Water's authority but taking an advocacy position for such an action and working collaboratively with partners to achieve it would not be.	6/19/		
Section 5.3.1	Such an action could be considered an additional water supply for the CAP.	2023 12:17	4	
5.3.3	Section 5.3.3 Recycled Water "As more and more recycled water is produced, add the expansion of discharge sites for local stream flow to the list of priorities for how to utilize this resource. Whether direct discharge or injection into shallow aquifers, enhancing more riparian areas with longer seasons of free-flowing surface water would be a community enhancement at least on par with golf course and municipal park	6/19/ 2023 12:17	2	
3.3.3	irrigation. Section 5.4.1 Incentive Strategies " If Strategy I-2 intends to include incentives for homeowners to invest in retrofits that would capture shower water (or other difficult and costly plumbing retrofits) for on-site irrigation reuse, or to utilize rainwater for laundry or toilet flushing, count me in. If not, please consider such incentives.	6/19/ 2023 12:17	2	
	Section 5.5.1 Monitoring and Mandates "If Strategy MM-1 means that my meter, which only counts in units of 100cf, would be replaced with something that's more fine-tuned to allow me to monitor use in smaller increments "like 1 gallon or 1cf "I'm all for it. Demand reduction is difficult to monitor in units of 100cf on a low use residential scale.	6/19/ 2023 12:17	2	
	I would like to see specific actions on how to protect and restore local surface waters, like Sabino and Tanque Verde Creek as well as the Rillito and Santa Cruz Rivers. I would also like to see actions to protect sensitive shallow groundwater areas that support our riparian	6/16/ 2023 13:46	2	

		l i	
	ecosystems, as a priority for local groundwater		
	restoration. Actions would include enhanced recharge,		
	targeted conservation programs, and more recycled		
	water opportunities in shallow groundwater areas.		
	pg 3.17 -stormwater section talks about creating wildlife		
	habitat, but the Mayor and City council continue to		
	allow developers to destroy wildlife habitat. Why do		
	they work against this plan by allowing development on		
	existing open spaces? There should be NO new		
	developments that destroy existing open space. This will		
	also help with water runoff issues if the existing wild	6/15/	
	areas and wildlife habitats are not touched. Use	2023	
3.17	abandoned retail spaces for new developments.	14:10	2
	Pg 4.1 - Since single family homes use the most water,		
	all new development should be required to be either	6/15/	
	condos or townhouses or apartments and no single	2023	
4.1	family homes.	14:10	2
	#1 A plan to decarbonize CAP-related pumping (and		
	other related activities). Is this under discussion? It is my		
	understanding that energy production via coal is the		
	primary source currently used for CAP-related pumping		
	and that this uses large amounts of water (a somewhat		
	hidden factor - perhaps we could see this figure in the		
	Plan), and may significantly affect climate change. Can		
	the water usage by TEP and other utilities involved in	6/16/	
	CAP (and in general), and their CO2 production be	2023	
	shown in detail as well?	21:58	4
		6/14/	+
	#2 I would love to see Tucson relying less on CAP	2023	
	through time if possible and to also increase focus on		2
	the other sustainable water supply types beyond CAP.	21:58	2
	#3 And perhaps most importantly, to continue to	6/14/	
	promote *using less water for all activities* - residential,	2023	_
	commercial, farming, etc:	21:58	2
	The 2 inhabitants of our modest home on .3 acres		
	currently each use roughly half the average of 130		
	gallons per person per day outlined in the Plan. We do		
	not take drastic measures and also have a large dog! We		
	don't have the most efficient appliances or toilets, for		
	example. Once our recently planted hand watered native		
	shrubs and trees take hold and we purchase a more		
	efficient washing machine etc our water usage should		
	decrease significantly, hopefully down to 40 gallons per		
	person per day. I am curious why the average is still so		
	high and what the primary factors are - is it watering the		
	yard/garden? pools? swamp coolers? excessive showers,		
	washing machine use, and old toilets? Perhaps the city	6/15/	
	could work to address the most problematic uses in an	2023	
	efficient way and incentivize changes even further. Other	21:58	2
	enicient way and incentivize changes even further. Other	Z 1:58	2

ideas: Can pools be eliminated in new residential builds - favoring community pool usage? Can Tucson require rainwater harvesting and various other conservation/efficiency techniques for new builds (residential, commercial) and retrofit all existing homes to make them more thrifty by design, and more sustainable?		
#4 And to echo what I've learned from Watershed Management Group: Under section 5.3.1 and 6.1.1. Surface Water • , I'd like to see specific actions on how to protect and restore local surface waters, like Sabino and Tanque Verde Creek as well as the Rillito and Santa Cruz Rivers (not just actions related to the Colorado River surface flows).	6/14/ 2023 21:58	2
Under section 5.3.2 and 6.1 Groundwater Strategies • , I'd like to see actions to protect sensitive shallow groundwater areas that support our riparian ecosystems, as a priority for local groundwater restoration. Actions would include enhanced recharge, targeted conservation programs, and more recycled water	6/14/2023	
#5 Make it easy for many more homes and businesses to have solar panels installed, through further incentives, partnerships, and programs. After ours were installed on our home by Technicians for Sustainability I couldn't believe the figures they shared on the long term water savings (via using less TEP coal based power) - somewhat more impressive even than the energy production/savings. It was estimated that approximately 500 gallons of water would be saved per month and nearly 27k lbs. CO2 would be offset per year. What we pay per month matches what our electric bill would be and due to the offsets from excess production we usually have a \$0 TEP bill. The added benefit of having	21:58	2
our nearest neighbors use our excess electricity generation has many benefits as well. And as more homes and businesses use electric vehicles, charging them via solar panels seems like a great idea.	6/14/ 2023 21:58	3
Thank you for the opportunity to review and comment on the draft. I have a few broad suggestions. First, having first moved to Tucson in 1958, I respect and appreciate the efforts Tucson Water has made over the years to serve its customers safely, reliably and cost-effectively. That being said, there is a structural governance issue that I recommend be addressed in the plan. Specifically, as stated in section 1.3.3 Water Service Area, almost 60% of the current service area	6/13/ 2023 12:43	2

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	does not have elected representation in the governance			
	of Tucson Water because customers outside the City			
	Limits do not vote for the City Council positions that			
	govern Tucson Water. I recommend that the City work			
	with Pima County and other jurisdictions to develop a			
	strategy to strengthen the governance of Tucson Water			
	and make it more representative of its customers.			
	Second, the building and zoning codes that could			
	increase Onewater effectiveness and sustainability are			
	not consistent across the jurisdictions in the existing			
	service area and are not as effective as they could be. I			
	recommend that the plan include strategies for			
	·	6/12/		
	normalizing those pertinent regulations not only across	6/13/		
	the Tucson Water service area, but also those served by	2023		_
	other water purveyors within the County.	12:43		2
	I also recommend that the plan consider a process of			
	amending those codes to ultimately require rainwater			
	harvesting and greywater reuse for landscape irrigation,			
	swimming pools, fountains and any other non-potable			
	demands. The technologies of green stormwater			
	infrastructure that can maximize the irrigation and			
	infiltration benefits of rainfall while reducing the			
	magnitude of discharges to stormdrains and the			
	transport of trash into washes and rivers are also worth			
	uniformly requiring. Those requirements would also	6/13/		
	· · · · · · · · · · · · · · · · · · ·	2023		
	ultimately apply, at least in some form, to all land uses,			2
	not solely residential.	12:43		2
	Finally, Tucson Water's customers are not the only			
	stakeholders in this planning process. I recommend that			
	all of the water purveyors, wastewater collection and			
	treatment operators, well-owners, tribes and land			
	managers in the areas where Tucson Water withdraws,			
	stores or serves water be encouraged to develop a			
	collaborative approach to identifying, prioritizing,			
	funding and implementing strategies to continuously			
	improve our water resource management and	6/13/		
	stewardship. This would include the portions of the	2023		
	Santa Cruz River watershed in Sonora.	12:43		2
	Upon a cursory review, I only see impacts. I don't see	1		_
	any planning. What are we going to do? What are the			
	action items, who is responsible for them, how will they			
	•	6/10/		
	be measured to e successful? What is the timeline for	6/10/		
	the plan? Again, I only see data showing projections of	2023		_
	impacts. Thanks.	11:18		2
	Please enact the same as Phoenix. No new			
	developments or add ons to existing developments	6/9/2		
	developments or add ons to existing developments unless they prove where they will get their water to	6/9/2 023		

not fair to those of us on fixed incomes and/or lived here for most of our lives.		
Please consider disinfecting water with alternatives to chlorine, such as GRAPEFRUIT SEED EXTRACT. Citracidal-type extracts are full-spectrum, and have been labtested against bacteria-resistent behaviors. These products are now getting used in Hospitals, which need more reliable products to maintain high disinfection	6/2/2 023	
standards.	17:11	2
This is a wonderful plan that I support. One change I would recommend would be a small change of the guiding principles 2.1.2 on page 2-2. At the end of principle #3 Enhancing the Communities quality of life, I would replace supporting economic GROWTH with supporting economic INNOVATION. If we change our metric for measuring economic success from growth to innovation and include the metrics for wellbeing such as		
life expectancy and rates of premature death we will not	6/1/2	
be bullied by the idea that growth will reduce poverty or	023	
provide meaningful work.	15:36	2
I feel it would be useful for the City of Tucson to involve the community by requesting that we all incorporate certain water rules for efficient outdoor water use, which would include watering during cool times of the day;2-3 times a week in summer;not spraying water on	6/1/2 023	
concrete/asphalt or washing one's car, etc.	15:18	2
The most useful request, however, would be to ask all Tucsonians to water based on a "Stage 2 Watering Calendar:" Odd Number Addresses water on Green Square Days & Even Number Addresses water on Blue Square Days from June-September. After living in Colorado 30 years, where this program is routinely implemented, I can really see how it would benefit Tucson as well. We all need to limit our water use and be made aware of our personal responsibility in conserving our resources and making Tucson a better place to live for ourselves and our children.	6/2/2 023 15:18	2
Excellent report, very thorough and focused on the future. I live in Dove Mt and my home is 5 years old. I was surprised to see that none of the home built here or ones being built now have any requirements for instant hot water at the sink/shower end. I can only imagine how much water is lost by running the water until the water gets hot. An affordable program to incentivize homeowners to install something to provide hot water at the faucet would save an enormous amount of water. Secondly, you should require all builders to install these types of systems in all new construction. Quite frankly, I	5/26/ 2023 18:26	2

am amazed homes in my area are not required to have such systems installed from the start.			
And lastly, new construction building permits should be tied to our water allocation. In Marana we have almost double the projected building permits than our allocation. This cannot get us to the future water needs of our community. Thank you for allowing me to	5/26/		
comment on this excellent plan.	2023	2	