

Portland Utility Board
Treatment Pros and Cons Summary July 17, 2017 (draft)

	No Treatment	UV	Filtration	UV Plus (UV First; Filtration Later)
Pros	* Savings?	* Faster	* Broader water quality benefits	* Savings plan for filtration to spread out rate impact
	* No additional chemicals or changes to Bull Run water	* Cheaper? * Plans already drawn	* Best pathogen protection * Increased system resilience * Better option for turbidity * Reduced reliance on groundwater	* More time to evaluate filtration options
Cons	* Implications for compliance with federal regulations	* Only useful for crypto	* Doesn't solve all water quality issues	
	* Implications for wholesaler contracts	* Doesn't address turbidity	* Milwaukie and Las Vegas have filtration systems and still had crypto outbreaks	
	* Black swan - no protection for high consequence/low probability potential for public health outbreak	* Possible mercury contamination issues	* Disinfection byproducts from chemicals	
	* Fines or other penalties from OHA or EPA	* No additional supply (is supply an issue given decreasing demand with increasing population; conservation)	* Oocysts have been detected in treated drinking water (not 100% filtered out) * Concern about possibility of changes to federal management of watershed (development?) * More expensive * Longer construction time * Greater financial uncertainty given long construction time	
* Earthquake or landslide concerns	* Earthquake or landslide concerns	* Earthquake or landslide concerns	* Earthquake or landslide concerns	
Concerns	* Possibility of time extension from OHA		* Uncertainty of estimates	* Protecting the savings from being used for other projects
	* Possibility of variance?		* If filtration is the Council's decision, then UV shouldn't be part of the project; agree with CUB	
	* Public engagement	* Public engagement	* Public engagement	* Public engagement
	* Availability of analysis before decision point	* Availability of analysis before decision point	* Availability of analysis before decision point	* Availability of analysis before decision point
	* Communication	* Communication	* Communication	* Communication
	* Time allowed for decision making	* Time allowed for decision making	* Time allowed for decision making	* Time allowed for decision making