



## Legislation Details (With Text)

<b>File #:</b>	AGR 18-032	<b>Version:</b>	1	<b>Name:</b>	
<b>Type:</b>	Agreement	<b>Status:</b>		Agenda Ready	
<b>File created:</b>	10/15/2018	<b>In control:</b>		City Council	
<b>On agenda:</b>	12/4/2018	<b>Final action:</b>			
<b>Title:</b>	Consideration of and action on entering into an agreement with Ardurra Group LLC for engineering services for alternative disinfection methods.				
<b>Sponsors:</b>	Public Works				
<b>Indexes:</b>					
<b>Code sections:</b>					
<b>Attachments:</b>	1. Deer Park Disinfection Alternative Evaluation Proposal (002), 2. Ardurra Contract- Disinfection Study				

Date	Ver.	Action By	Action	Result
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Consideration of and action on entering into an agreement with Ardurra Group LLC for engineering services for alternative disinfection methods.

### Summary:

Disinfection is a key process in the treatment of water. Chlorine is required by TCEQ in all Public Water Systems. Additionally, ammonia is added in most surface water systems to prevent the formation of disinfection by-products. The form of the chemicals used is not regulated, as long as it meets the criteria of the end result, it is NSF certified, and it does not introduce other elements into the water that could cause another maximum contaminant level to be reached.

This study by the Ardurra Group, LLC. will look at the chlorine and ammonia systems currently employed and compare it to other systems from a fiscal and safety standpoint. On the chlorine side, three forms will be compared, gas chlorine with the addition of a ChlorTainer and scrubber system, bulk hypochlorite, and on-site hypochlorite generation using the MicroClor system. Ammonia will compare the existing 29% Aqueous Ammonia to Liquid ammonium Sulfate (LAS). This study will also look more closely at the energy requirements of the water treatment plant and recommendations will be made if improvements are needed.

The total cost of the study by the Ardurra Group is \$74,862.

### Fiscal/Budgetary Impact:

The project is budgeted from account 40-506-4241.

Staff recommends entering into the contract with Ardurra Group, LLC.