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 Design Considerations / Limitations: Upstream lift stations lack physical space for installation of chemical feed systems. Upstream lift stations are located in sensitive tourist or residential areas. Feed system must be able to control odors by feeding chemical at the WWTP. Chemical safety is a concern / non hazardous chemicals preferred. 				nce for	 <u>Nitrate Salts: Calcium Nitrate Solution</u> 1.5 hour RT for complete removal Requires feed system upstream in collection system <u>Iron Salts: Ferric / Ferrous Sulfate Solutions</u> ~ 5 minutes RT for complete reaction Chemical safety is a concern <u>Oxidizers: Hydrogen Peroxide Solution</u> ~ 30 minutes RT for complete removal
				ardous	
Upstream Lift Station	Flow (ML/d)	Length (m)	Size (cm)	Avg. RT (hrs)	 Chemical safety is a concern
Lift Station #1	0.999	604.4	15.2	0.3	
Lift Station #2	0.625	430.7	15.2	0.3	 <u>pH Shift: Calcium / Magnesium Hydroxide</u> Ca(OH)₂ dissolves rapidly Mg(OH)₂ requires > 30 minutes to completely dissolve
Lift Station #3	1.110	976.6	20.3	0.7	
Lift Station #4	0.814	958.6	15.2	0.5	
Lift Station #5	0.625	430.7	15.2	0.3	
Lift Station #6	0.386	1003.1	15.2	1.1	
				0.5	































