



IOWA DEPARTMENT OF NATURAL RESOURCES
 WATER SUPPLY ENGINEERING SECTION
CONSTRUCTION PERMIT APPLICATION
 SCHEDULE-3c, Water Quality Data

Date Prepared _____	Project Name/Description
Date Revised _____	

1. Water Quality Data:

	Parameter	Units	Existing Raw Water		Proposed Raw Water Source	Treated Water	
			Minimum	Maximum		Present	Design
Aesthetic Water Quality Parameters	Alkalinity - Phenolphthalein	mg/L as CaCO ₃					
	- Total	mg/L as CaCO ₃					
	Ammonia	mg/L as N					
	Calcium	mg/L as Ca					
	Chloride	mg/L					
	Corrosivity						
	Hardness	mg/L as CaCO ₃					
	Iron	mg/L as Fe					
	Magnesium	mg/L as Mg					
	Manganese	mg/L as Mn					
	pH	pH units					
	Filterable Residue (TDS)	mg/L					
	Sodium	mg/L					
	Specific Conductance	umho/cm					
Sulfate	mg/L as SO ₄						
Inorganics	Antimony	mg/L					
	Arsenic	mg/L					
	Asbestos	MFL					
	Barium	mg/L					
	Beryllium	mg/L					
	Cadmium	mg/L					
	Chromium	mg/L					
	Copper	mg/L					
	Cyanide, as free CN	mg/L					
	Fluoride	mg/L					
	Lead	mg/L					
	Mercury	mg/L					
	Nickel	mg/L					
	Nitrate	mg/L as N					
	Nitrite	mg/L as N					
Selenium	mg/L						
Thallium	mg/L						
Radio-nuclides	Gross Alpha	pCi/L					
	Radium 226	pCi/L					
	Radium 228	pCi/L					
	Strontium 90	pCi/L					
	Tritium	pCi/L					
	Uranium	ug/L					
Other	HAA5	mg/L					
	TTHM	mg/L					

IOWA DEPARTMENT OF NATURAL RESOURCES
WATER SUPPLY ENGINEERING SECTION
CONSTRUCTION PERMIT APPLICATION
 SCHEDULE-3c, Water Quality Data

2. Have VOC's or SOC's been detected in the water system? Yes No

If Yes, provide the following information on any VOC or SOC that has been detected:

Contaminant	Sample Location	Date Sampled	Concentration, in mg/L

3. Additional Water Quality Data for Surface Water or Groundwater Under Direct Influence Systems:

Parameter	Units	Existing Raw Water		Proposed Raw	Treated Water	
		Minimum	Maximum	Water Source	Present	Design
Algae*						
BOD ₅	mg/L					
Bromide (if ozone will be used)	mg/L					
Color						
Dissolved Oxygen (DO)	mg/L					
<i>E. coli</i>	cfu/mL					
Bicarbonate Hardness	mg/L as CaCO ₃					
Carbonate Hardness	mg/L as CaCO ₃					
Total Phosphorus	mg/L as P					
Ortho Phosphorus	mg/L as P					
Solids	Nonfilterable (TSS)	mg/L				
	Volatile	mg/L				
	Fixed	mg/L				
	Settleable	mg/L				
Surfactants	mg/L as MBAS					
Total Organic Carbon (TOC)	mg/L					

4. What is the source of the previously listed water quality data, the number of water samples evaluated, and the time frame over which samples were collected?

5. Identify and quantify the macroscopic organisms:

*Identify the predominant algae types: _____