

## IOWA DEPARTMENT OF NATURAL RESOURCES WATER SUPPLY ENGINEERING SECTION

## **CONSTRUCTION PERMIT APPLICATION**

SCHEDULE-5d, Surface Water Supply

Date Prepared		ed	Project Name/Description		
Date Revised					
1.	a. V	water supply impoundments: N/A Was the impoundment size based on the extreme drought of record or 100-year low flow characteristics of the basin taken over a several year basis? Yes No  If no, explain:			
	b. A	vailable s	torage volume for use:	million gallons	
	c. A	dditional	storage for increased water use:	million gallons	
	d. S	torage vo	lume to maintain minimum pool elevation:	million gallons	
	e. V	olume all	owance for siltation, evaporation, seepage, etc.:	million gallons	
		For new impoundments, describe the soil characteristics including depth to bedrock, type of soil overburden, method of soils investigation, etc.: \(\simega\) N/A			
2.		Intake Structure:			
			ood elevation:	feet	
	_	-	gh water elevation:	feet	
			w water elevation:	feet	
			v water elevation:	feet	
		_	take withdrawal elevation:	feet	
	J		ake withdrawal elevation:	feet	
	h. E	levation o	of electrical motors and controls:	feet	
			roach velocity to the intake structure:	ft/sec	
	j. N	Method of protecting the inlet structure from dredging, anchors, ice, etc.:			
		pec. Page			
k. Has a shore well been provided?  Yes No If no, what type of diversion device has been provided to keep large quantities of fish intake structure?				arge quantities of fish or other debris from entering the	
3.	Shore	wells:	N/A 🗌		
	a. N	. Method of access to the shore well:			
	b. N	. Method of shore well flotation protection:			
	S	Spec. Page No.:			
		Type of shore well screen: Traveling Removable			
		Have provisions been made to add chemicals into the raw water at the intake structure? Yes No			
		If yes, list chemicals:  Have intake valves and provisions for backflushing or cleaning of the shore well by mechanical device been provided?			
_		Yes [	No		
4.	4. For impoundment or reservoir construction, have all wells subject to inundation been specified to be abandoned in accordance with the Iowa Geological Survey circular "Optimal Well Plugging Procedures" or AWWA Standards? ☐ Yes ☐ No				

11/2016 cmc DNR Form 542-3139