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VARIANCE REQUEST

Iowa Department of Natural Resources

1.	Date: December 31, 1996	13.	Decision: <i>Approved</i>
2.	Review Engineer: Bill Graham		Date: 1/3/97
3.	Date Received: Dec. 30, 1996		
4.	Facility Name: Viking Lake State	14.	Appeal:
	Park, Campground WWTF		Date:
5.	County Number: 69		
6.	Program Area: CP (wastewater)		
7.	Facility Type : C02		
8.	Subject Area : 327 (valve pit)		
9.	Rule Reference: 900-64.2(9)a		
10.	Design Stds Ref: 13.10.4		
11.	Consulting Engr: Veenstra & Kimm		
12.	Variance Rule: 900-64.2(9)c		

15. Description of Variance Request:

The state park's consulting engineer has requested a variance from the design standard which requires that valves for submersible pumps be located in a separate valve chamber. The proposal is for using buried valves with ten feet of DIP on either side of the valve. The pumping station will be pumping treated effluent from the quiescent cell of an aerated lagoon.

16. Consulting Engineer's Justifications

1. The design standards are directed at pumping stations out in the collection system pumping raw sewage. The pump station will be pumping only treated effluent.
2. The valves which would require the most maintenance would be the check valves. These are attached to the submersible pumps and can be retrieved with the pumps for maintenance.
3. If maintenance is required on the buried plug valve, the Owner has access to a backhoe for excavating the valve. These valves will be in a similar condition as water main valves which are routinely buried with few problems.

17. Department's Justifications

Departmental approval for this variance is recommended because the pump station will be pumping treated effluent rather than raw wastewater and clogging of the valve is less likely and so maintenance needs would be less. Also, the operator has equipment adequate to make excavation and repair quickly and the facility will be operated seasonally (only during the camping season).

18. Precedents Used

City of Johnston, approved, 7-10-90

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Staff Reviewer: *William Drake* Date: 1-2-97
Supervisor: *Gene Jordan* Date: 1/3/97
Authorized by: *Daniel Wells* Date: 11/3/97