



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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M E M O R A N D U M
July 19, 1983

To: Darrel Anderson
From: Lynn Singleton and Gary Bailey *GB*
Subject: Capitol Lake Storm Sewer Pipe

During the most recent drawdown of Capitol Lake, the 24-inch metal storm sewer pipe located on the south side of the swimming area (5A in attached figure), was sampled by Gary Bailey. We inspected the discharge at 10:15 a.m. on June 10, 1983, and noted the presence of a black sludge bed (approximate size 12 x 12 feet) extending from the end of the pipe. A very strong hydrogen sulfide odor was associated with the sludge bed area. The discharge was somewhat turbid. Gary returned to the site and sampled at approximately 11:30 a.m. on the same day. The results are presented below, along with results from a previous sampling on March 11, 1982, by Kittle and Moore (Moore, 1982).

Date	Fecal Coli. (org/100 mL)	NO ₃ -N (mg/L)	NO ₂ -N (mg/L)	NH ₃ -N (mg/L)	O-PO ₄ -P (mg/L)	T-PO ₄ -P (mg/L)	Turb. (NTU)	Sp. Cond. (µmhos/cm)	Flow (cfs)
6/10/83	2300/3700	0.30	0.04	0.27	**	0.06	100	104	--
3/11/82	17,000*	<0.01	0.01	0.05	0.03	0.06	--	--	0.6*

*Estimated

**Interference with test

As indicated by the present and historical data, conditions of this discharge do not appear to have improved appreciably from 1982. In general, nutrient concentrations are much higher and fecal coliforms are somewhat lower, but still indicate a problem is present. The June 10 sample was taken during wet weather. Moore (1982) did not report the weather conditions during the 1982 sampling.

LRS:GB:cp

cc: John Bernhardt
Files

LITERATURE CITED

Moore, A., 1982. Memorandum to Joan Thomas, April 13, 1982. Outfall Sampling to Capitol Lake During March 1982 Drawdown. 2 pp.

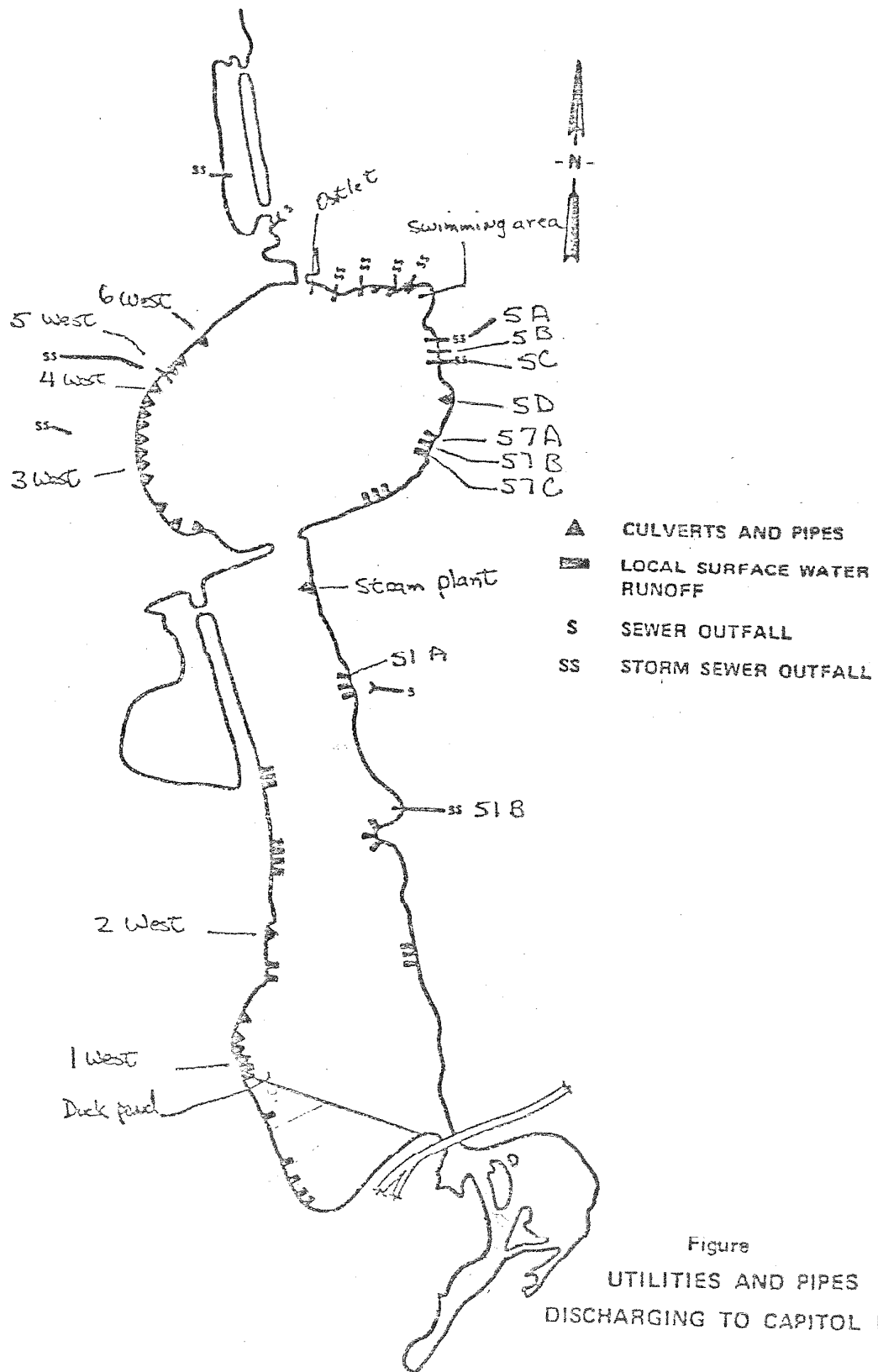


Figure
 UTILITIES AND PIPES
 DISCHARGING TO CAPITOL LAKE