

Region SEK County Sheridan Report Date 09/1980 Classification LFF/FAL
Water Body: Silver Creek
Discharger: Random Lake POTW

If stream is classified as Limited Forage Fish (LFF) or Limited Aquatic Life (LAL), check any of the following Use Attainability Analysis factors that are identified in the classification report:

- ☐ Naturally occurring pollutant concentrations prevent the attainment of use
- ☐ Natural, ephemeral, intermittent or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating State water conservation requirements to enable uses to be met
- ☐ Human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place
- ☐ Dams, diversions or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or operate such modification in a way that would result in the attainment of the use
- ☐ Physical conditions related to the natural features of the water body, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, unrelated to water quality, preclude attainment of aquatic life protection uses
- ☐ Controls more stringent than those required by sections 301(b) and 306 of the Act would result in substantial and widespread economic and social impact

Supporting Evidence in the report (include comments on how complete/thorough data is)

- ☒ Biological Data (fish/invert) good
- ☒ Chemical Data (temp, D.O., etc.) good
- ☒ Physical Data (flow, depth, etc.) good
- ☒ Habitat Description good
- ☒ Site Description/Map
- Other: _____

Historical Reports in file:

09/1980 - Joe Kurz
08/1975 - D. Welsch / B. Lucas

Additional Comments/How to improve report:

TS report indicates LFF class'n. BO report seems to indicate FAL class'n. It's currently codified as LFF. No indication of why LFF is appropriate. The data that is available is good, though.

Date 12/13/2001

Facility Name RANDOM LAKE POTW

Receiving Water SILVER CREEK (SHERBOYSAN C.) WIBC = 29900

Evaluated by WARRIGN, WILLIAM

This stream classification is not included in the revised code because (select one):

Phase 2

☐ The discharger is no longer at this location.

☒ A new classification has resulted in a full fish and aquatic life designation.

New survey date _____ Please provide copy of new classification report.

☐ This receiving water should be added to the database and to the code. Specify information, as it should be included in code.

☐ Other (please explain)

From: DNRSE::WAWRZW "WILL WAWRZYN, WR/SEH, (414) 263-8699" 8-DEC-1995 08:47:12.01
To: DNRVAX::SCHMIJ
CC: DNRSE::SHUDAJ,WAWRZW
bj: Stream Classification for Silver Cr. Random Lake POTW

Hi Jim...

I received a copy of the stream class. info you sent along to Jackie. It appears that variance limits were assigned to a full fish and aquatic life stream reach. I should also mention that the variance reach upstream of the POTW no longer exists based on a stream classification that was completed for Silver Cr. as part of the Milwaukee R. Priority Watershed program back in the late 80's. It is important to note that the 1978 stream classification was completed without the benefit of the adopted Stream Classification Guidelines developed by Joe Ball (1982). The later guidelines were used in the Milwaukee R. Appraisal and Stream Classification reports.

I'll send a copy of the latest report to you for the record.

- Will

30 Sept 80

STREAM: Silver Creek

DISCHARGER: Random Lake STP

COUNTY Sheboygan

CLASSIFICATION RECOMMENDATION

It is the recommendation of the SED office to classify Silver Creek as follows:

1) Continuous, intermediate fish and aquatic life from the headwaters in Adell Swamp down to the tributary outlet from Random Lake.

2) Continuous, fish and aquatic life for the remainder of Silver Creek downstream to the confluence with the North Branch of the Milwaukee R.

ADDITIONAL COMMENTS

Very little fisheries information is known about this stream except for D. Fago's data and comments by Mr. Ed. Fraenkel. However, the potential of this stream is noted and should be used as a major criteria for upgrading the stream.

ATTACHMENTS

USGS map

Fish Data from Don Fago - DNR Bureau of Research

REFERENCES USED

Low-Flow Characteristics of Wisconsin Streams at Sewage-treatment Plants and Industrial Plants. USGS Water Res. Invest. 79-3.

Classification of Wetlands and Deepwater Habitats of the United States FWS/OBS 79/31

USDI Fish & Wildlife Serv.

cc: Frank Scholtz

→ Water Quality Evaluation Section (J. McKersie)

WISCONSIN DEPARTMENT OF NATURAL RESOURCES
STREAM CLASSIFICATION WORKSHEET

Receiving Watercourse : Silver Creek
District : Southeast
Location : NE 1/4, Sec 34. T13N R21E.
Major Basin : Sherman Township Sheboygan Co.
Milwaukee River
Discharger : Random Lake STP
Flow (Design & Actual) : Design :
Type of Treatment :

Recommended No.	Reach	Classification Location
1)		CTH "D" above Random Lake
2)		Random L. outlet @ Allen Road
3)		CTH "I" below Random L. STP
4)		Creek Road, 2nd crossing
5)		Camp Awana Rd.

Date of Field Observations : Sept. 30, 1980

Personnel : Joe Kurtz

Class : ES-4

Other Persons Contacted : Colin Beveridge - SED, Milwaukee
Larry Claggett - Plymouth Office
Paul Schultz - Plymouth Office
Ed Frauenheim - Local Resident
Date :

Noted by WQES :

PHYSICAL FEATURE		STREAM CLASS REACHES				
		1	2	3	4	5
Watershed Character (maps or observations)	Size (sqmi)					
	Vegetation Type					
	Predominant Land Use	Agricultural	Wooded	Wooded	Wooded	Agricultural & Wooded
	Wetland Type	—	—	Forested Wetland	Forested Wetland	—
Hydrologic Features (indicate if estimated or actual measurements)	Width (ave)	4'	6'	7'	20'	10'
	Depth (ave/max)	Ave. 0.8'	Ave. 1.0'	Ave. 2.0'	Ave. 2.0'	Ave. 1.0'
	Velocity (est)(fps)	est. 0.5	est. 0.5	est. 1.0	est. 0.4	est. 1.2
	Flow (cfs)	1.6	3.0	14.0	16.0	12.0
	Pools or Refuges for Fish No. observed, depth					
% Bottom Type	Silt	10	10	20	20	
	Sand	50	70	20	30	
	Gravel	35	10		50	40
	Rubble	5	10	10		60
	Other			Boulders 50		
Control Structures or Obstructions		None	1.0' head spillway at outlet of Rainbow Lake	None	None	None
Irretriev. Channel Alterations		None				
Discharge Q _{7.10}				At STH 144 0.1 cfs		

STATION RECEIVING WATER

[illegible]

BIOLOGICAL CHARACTERISTICS

STATIONS ON RECEIVING WATER

	1	2	3	4	5
Bank Vegetation	brush & grasses	wooded	wooded	wooded	wooded
Aquatic Macrophytes	none	few; <u>Potamogeton</u> <u>Sparganium</u>	none	moderate <u>Sparganium</u> some <u>hemna</u>	
Invertebrates	low productivity, tolerant taxa	fair productivity, Isopods, Amphipods and Hydropsychidae dominate	not observed	not observed but most likely low in productivity	Excellent diversity may be caddisflies, riffle beetles abundant
~~Phytoplankton~~ (algae)	low periphyton productivity	good periphyton productivity, some filamentous	heavy periphyton growth - gray-color, slimy to touch	low periphyton productivity	good periphyton productivity
Fish Observed	none	few forage fish	none	none	none
Fishery Classification	Forage fish primarily with some possibility as a spawning area for migrating game fish				

BIOLOGICAL CHARACTERISTICS
(continued)

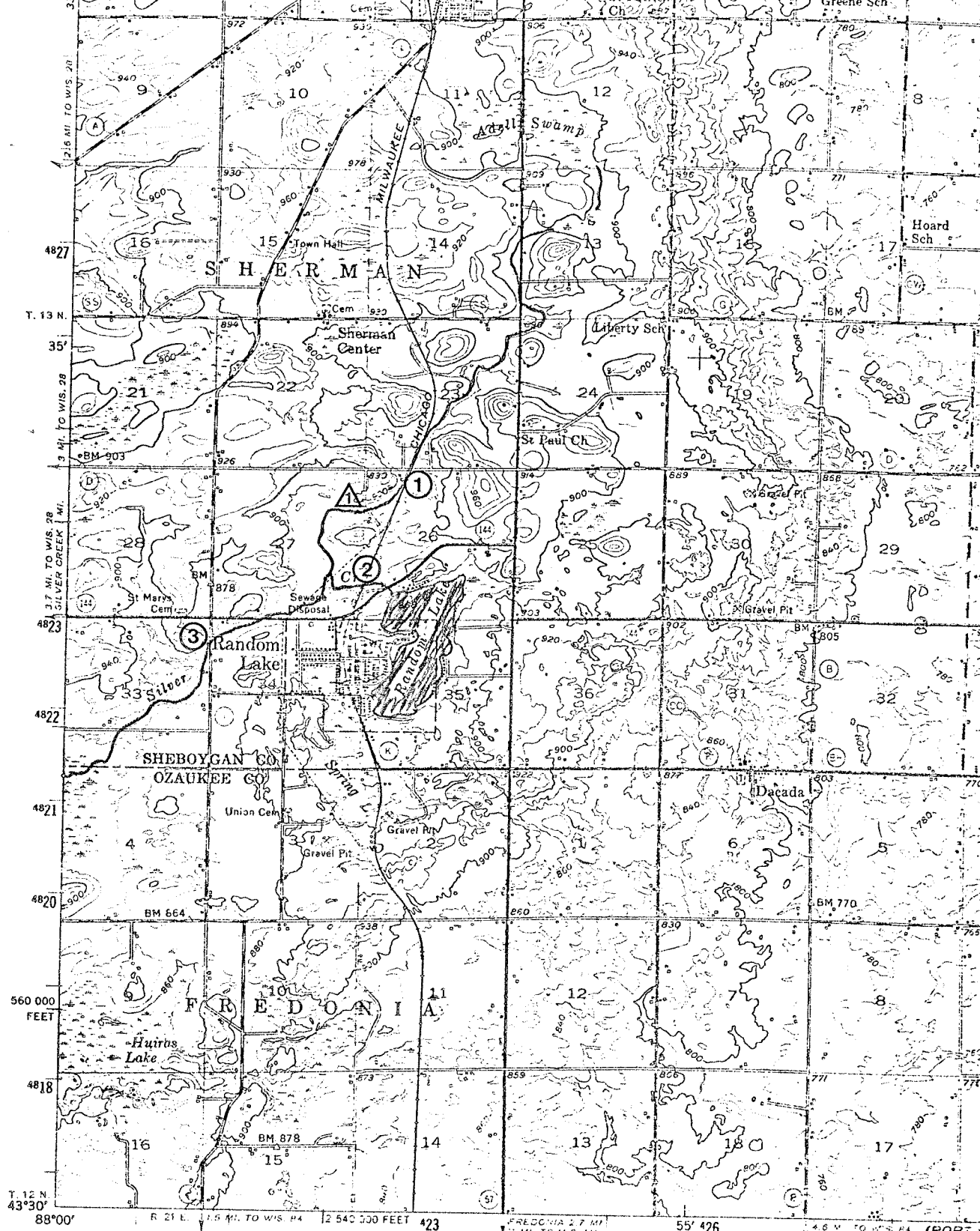
STATIONS ON RECEIVING WATER

Reaches of Critical or Particular Wildlife Value eg:	Spawning Areas	Spawning runs of northern pike and suckers are very possible in the lower half of Silver Creek.			
	Critical Habitats				

CULTURAL FEATURES

STATIONS ON RECEIVING WATER

Recreational Uses	Fishery use is minimal. May be used for collection of spawning suckers. Little boating potential. Stream has very good natural aesthetics.				
Type of Drainage Sources Observed					
Other Dischargers				Krier Preserving Co.	
				cooling water	
				above Site 3	



(WEST BEND)
3370 f

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by Kelsh plotter

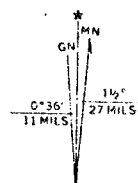
Aerial photographs taken 1952. Field check 1954

Hydrography from U. S. Lake Survey Chart 73 (1:120 000)

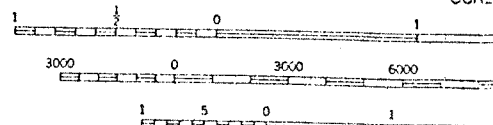
Polyconic projection. 1927 North American datum

10,000-foot grid based on Wisconsin coordinate system, south zone

1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue



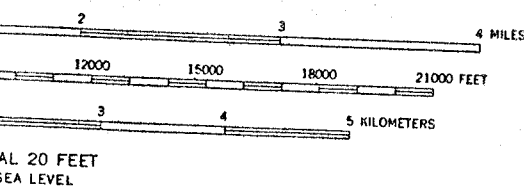
UTM GRID AND 1954 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



CONTOUR
DATUM
DEPTH CURVES AND SOUND

○ - Stream Observations
△ - Fish Collection Station

THIS MAP COMPLIES WITH VA
FOR SALE BY U. S. GEOLOGICAL
AND WISCONSIN GEOLOGICAL AND NATURAL
A FOLDER DESCRIBING TOPOGRAPHIC MAPS



QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty	Light-duty
Medium-duty	Unimproved dirt
U.S. Route	State Route

MAP ACCURACY STANDARDS
 VEY, WASHINGTON, D. C. 20242
 TOP SURVEY, MADISON, WISCONSIN 53706
 D. IS AVAILABLE ON REQUEST

KEWASKUM, WIS.
 N4330-W8800/15

1955
 AMS 3371 II-SERIES V761

Silver Cr

Fish Distribution Data - Don Fago

Site 2 (Camp Awana Rd)

1.1 m from the mouth

T13N, R21E, Sec 31 NWNW

Sample Date 10 Aug 78

Northern pike - 12

Central stoneroller - 5

Hornyhead chub - 2

Common shiner - 40

Bluntnose minnow - 1

Blacknose dace - 798

Creek chub - 798

White sucker - 35

Black bullhead - 1

Pumpkinseed - 1

Bluegill - 2

Johnny darter - 13

Site 1 (Allen Rd)

7.8 m from the mouth

T13N, R21E, Sec 27 NENE

Sample Date 9 Aug 78

Central mudminnow - 798

Blunt nose minnow - 23

Fathead minnow - 65

Creek chub - 798

White sucker - 798

Brook stickleback - 798

Green sunfish - 17000

RANDOM LAKE

SHEBOYGAN COUNTY

SURVEY DATE: 8-26-75

The Random Lake sewage treatment plant discharges to a storm sewer which carries the flow along State Highway 144 to Silver Creek. Silver Creek meanders and has a natural stream bed with banks. Pool and riffle areas are present. Heavy sphaerotilus growths were present above the outfall.

Continuous flow was present.

Recommendation:

Continuous, intermediate aquatic life.

RL/DW:ct

9/12/75

Dennis C. Weissner

Bob Lucas

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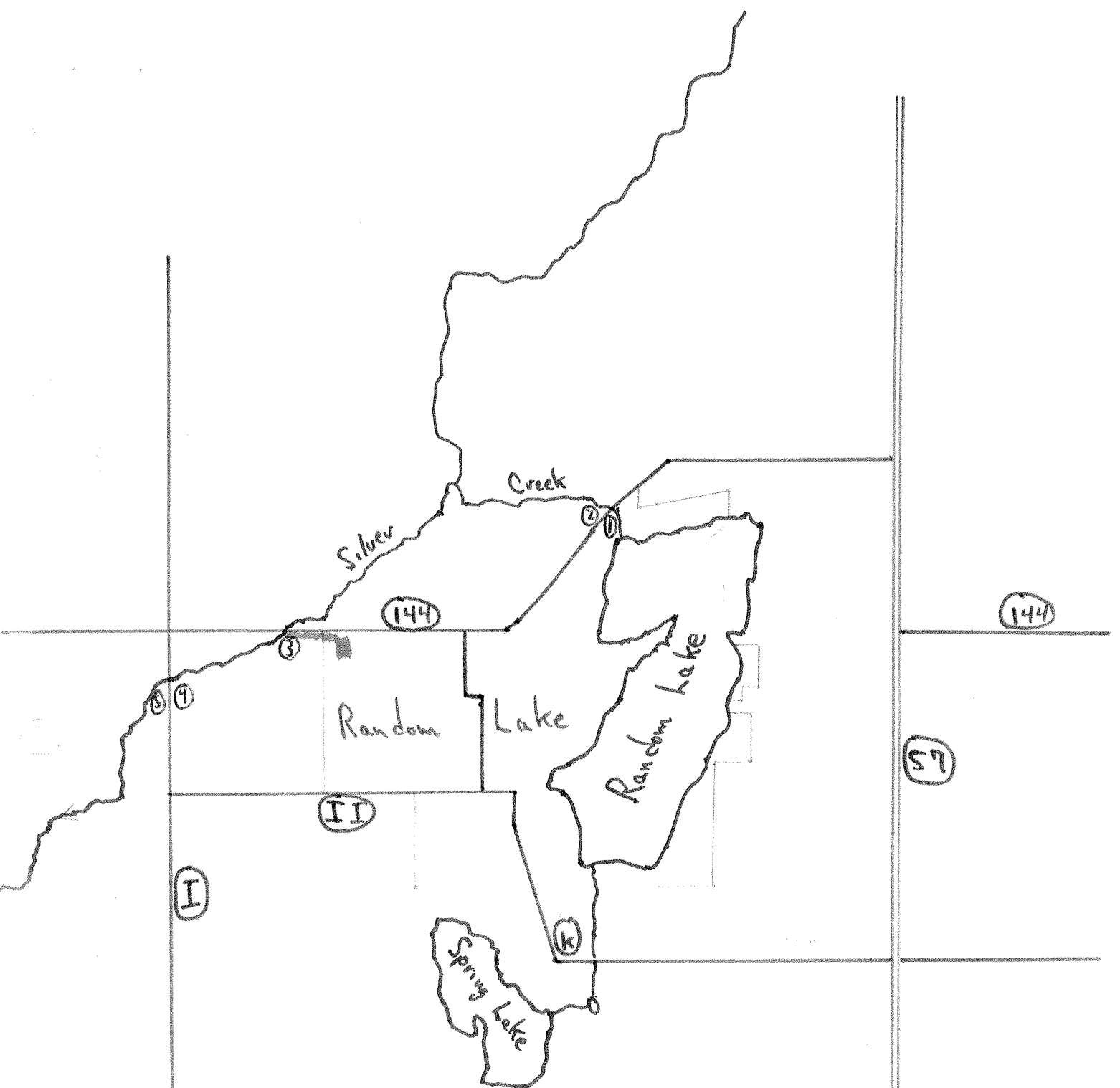
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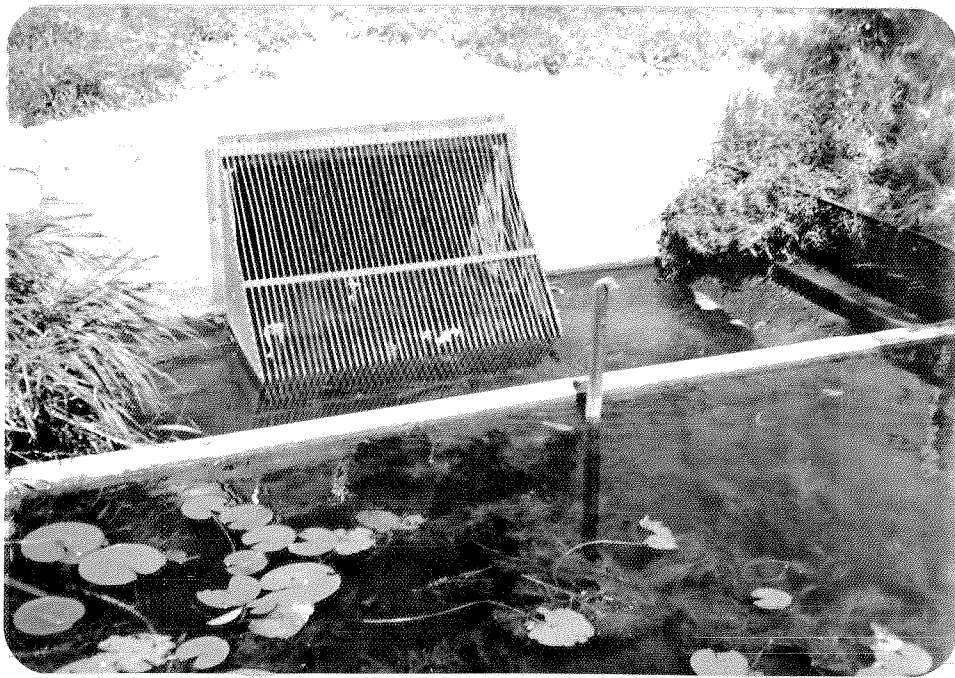
9/12/75

Dennis C. Weisner
Bob Lucas



■ = STP and discharge location

① = Photo locations



#1 Random Lake Outlet
to Silver Creek



#2 Silver Creek

Facing downstream



#3 STP Outfall (above)

Silver Creek - Flowing
from left to right



#4

Silver Creek

Facing upstream

(Pony in stream)



#5

Silver Creek

Facing downstream