ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF SPORT FISH

WATER Jerome Lake

WATER ANALYSIS

LOCATION 60°33'Lat, 149°34'Long

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	REMARKS	BY
7/[illegible]/60	–	–	–	–	12'	62.5°	62°	6.9+		7.75+			S. Rubitt
↓					12'	↓	↓			↓	220		↓
					Surf			7.8					
↓					Surf	↓	↓			↓	220		↓
4/30/69	–	–	2"	20"	Surf	–	–	34				Estimated 400 sq. yds open	S.L
↓					12'			2.8				water at the outlet	↓
4/28/73			1"	26	0'			2.2					S, L.
"					5			0.8					
"					10			0.0					
3/19/74			6"	20"	0	32		3.2			4/1	Titration	S. H.
					6	33		2.0					
					12	36		1.0					
3/[illegible]/75			15	18	0	32		2.1				8' Overflow Stings present	S.H.
					6	32		1.7				titration	
					12	37		1.0					

DEFINE LOCATION OF STATIONS ON REVERSE

2/69
FG-208

ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF SPORT FISH

WATER Jerome Lake

WATER ANALYSIS

LOCATION

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	REMARKS	BY
3/4/76		1000	20	30	0	32		4.5				DO meter	
					6	34		3.5					
					12	37		0.6					

DEFINE LOCATION OF STATIONS ON REVERSE

2/69
FG-208

UNITED STATES
GEOLOGICAL SURVEY
CENTRAL LABORATORY, SALT LAKE CITY, UTAH

WATER QUALITY ANALYSIS
LAB ID # 151014 RECORD # 18041

SAMPLE LOCATION: JEROME LK NR COOPERS LANDING AK
STATION ID: 603300149345500 LAT.LONG.SEQ.: 603300 1493455 00
DATE OF COLLECTION: BEGIN--750521 END-- TIME--1500
COUNTY CODE: 120 PROJECT IDENTIFICATION: 58
DATA TYPE: 2 SOURCE: SURFACE WATER GEOLOGIC UNIT:
COMMENTS:
75FG51

PROVISIONAL RECORDS
SUBJECT TO REVISION

ALK.TOT (AS CACO3)	MG/L	33	NITROGEN TOT AS NO3	MG/L	4.5
BICARBONATE	MG/L	40	NITROGEN TOT ORG N	MG/L	0.32
BORON TOTAL	UG/L	40	NITROGEN TOTKJD AS N	MG/L	0.49
CALCIUM DISS	MG/L	15	NO2 + NO3 AS N TOT	MG/L	0.53
CARBON TOT ORGANIC	MG/L	4.0	NO2+NO3 AS N DISS	MG/L	0.52
CHLORIDE DISS	MG/L	3.8	~~PH LAB~~		~~7.0~~
COLOR		5	PHOS ORTHO DIS AS P	MG/L	0.00
CONDUCTIVITY		97	PHOSPHATE DIS ORTHO	MG/L	0.00
CONDUCTIVITY LAB		97	PHOSPHORUS TOT AS P	MG/L	0.00
DEPTH(FT.FR.SURFACE)		0.0	POTASSIUM DISS	MG/L	0.4
FLUORIDE DISS	MG/L	0.1	RESIDUE DIS CALC SUM	MG/L	55
HARDNESS NONCARB	MG/L	8	RESIDUE DIS TON/AFT		0.07
HARDNESS TOTAL	MG/L	40	RESIDUE DIS 180C	MG/L	54
IRON DISSOLVED	UG/L	70	SAR		0.2
MAGNESIUM DISS	MG/L	0.7	SILICA DISSOLVED	MG/L	6.4
MANGANESE DISSOLVED	UG/L	5	SODIUM DISS	MG/L	3.3
NITROGEN NH4 ASN TOT	MG/L	0.17	SODIUM PERCENT		15
NITROGEN TOT AS N	MG/L	1.0	SULFATE DISS	MG/L	3.3
			WATER TEMP (DEG C)		4.0

CATIONS	(MG/L)	(MEQ/L)	ANIONS	(MG/L)	(MEQ/L)
CALCIUM DISS	15	0.749	BICARBONATE	40	0.656
MAGNESIUM DISS	0.7	0.058	CHLORIDE DISS	3.8	0.108
POTASSIUM DISS	0.4	0.011	FLUORIDE DISS	0.1	0.006
SODIUM DISS	3.3	0.144	SULFATE DISS	3.3	0.069
			NO2+NO3 AS N D	0.52	0.038
TOTAL		0.960	TOTAL		0.874

PERCENT DIFFERENCE = 4.69

Volumetric Data - Jerome Lake

$711{,}462 \pm \frac{630{,}459}{2} \times 3 = 2{,}012{,}883$ cu. ft.

$630{,}459 \pm \frac{493{,}870}{2} \times 3 = 1{,}686{,}495$ cu. ft.

$493{,}870 \pm \frac{312{,}440}{2} \times 3 = 1{,}209{,}465$ cu. ft.

$312{,}440 \pm \frac{161{,}592}{2} \times 3 = 711{,}048$ cu. ft.

$161{,}592 \pm \frac{109{,}519}{2} \times 3 = 406{,}668$ cu. ft.

Total 6,026,559 cu. ft.

or 138.35 acre feet

62.4 x 6,026,559 = 376,057,282 lbs. of H_2O

Surface acres	16.33
Mean depth	8.5 ft.
Maximum depth	15.0 ft.