GEOLOGICAL SURVEY
CENTRAL LABORATORY, SALT LAKE CITY, UTAH

WATER QUALITY ANALYSIS
LAB ID # 155070 RECORD # 18835

SAMPLE LOCATION: UPPER RUSSIAN LK NR COOPER LANDING AK
STATION ID: 602000149521500 LAT.LONG.SEQ.: 602000 1495215 00
DATE OF COLLECTION: BEGIN--750529 END-- TIME--1315
COUNTY CODE: 210 PROJECT IDENTIFICATION: 58
DATA TYPE: 2 SOURCE: LAKE OR RESERVOIR GEOLOGIC UNIT:
COMMENTS:
75FG61 TOC WAS RECEIVED IN ANCH UNCHILLED

PROVISIONAL RECORDS
SUBJECT TO REVISION

ALK.TOT (AS CACO3)'	MG/L	21	NITROGEN TOT AS NO3	MG/L	3.1
BICARBONATE	MG/L	26	NITROGEN TOT ORG N	MG/L	0.21
BORON TOTAL	UG/L	50	NITROGEN TOTKJD AS N	MG/L	0.21
CALCIUM DISS	MG/L	9.5	NO2 + NO3 AS N TOT	MG/L	0.50
CARBON TOT ORGANIC	MG/L	1.8	NO2+NO3 AS N DISS	MG/L	0.50
CHLORIDE DISS	MG/L	1.7	~~PH LAB~~		~~6.9~~
COLOR		0	PHOS ORTHO DIS AS P	MG/L	0.01
CONDUCTIVITY		63	PHOSPHATE DIS ORTHO	MG/L	0.03
CONDUCTIVITY LAB		63	PHOSPHORUS TOT AS P	MG/L	0.01
DEPTH(FT.FR.SURFACE)		0.0	POTASSIUM DISS	MG/L	0.4
FLUORIDE DISS	MG/L	0.0	RESIDUE DIS CALC SUM	MG/L	36
HARDNESS NONCARB	MG/L	5	RESIDUE DIS TON/AFT		0.05
HARDNESS TOTAL	MG/L	26	RESIDUE DIS 180C	MG/L	38
IRON DISSOLVED	UG/L	90	SAR		0.1
MAGNESIUM DISS	MG/L	0.6	SILICA DISSOLVED	MG/L	3.1
MANGANESE DISSOLVED	UG/L	10	SODIUM DISS	MG/L	1.5
NITROGEN NH4 ASN TOT	MG/L	0.00	SODIUM PERCENT		11
NITROGEN TOT AS N	MG/L	0.71	SULFATE DISS	MG/L	3.8
			WATER TEMP (DEG C)		2.0

CATIONS	(MG/L)	(MEQ/L)	ANIONS	(MG/L)	(MEQ/L)
CALCIUM DISS	9.5	0.475	BICARBONATE	26	0.427
MAGNESIUM DISS	0.6	0.050	CHLORIDE DISS	1.7	0.048
POTASSIUM DISS	0.4	0.011	FLUORIDE DISS	0.0	0.000
SODIUM DISS	1.5	0.066	SULFATE DISS	3.8	0.080
			NO2+NO3 AS N D	0.50	0.036
TOTAL		0.599	TOTAL		0.599

PERCENT DIFFERENCE = 0.84

CHEMICAL & GEOLOGICAL LABORATORIES OF ALASKA, INC.
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ANCHORAGE, ALASKA 99509

WATER ANALYSIS REPORT

OPERATOR COMMERCIAL FISHERIES DATE Sept. 11, 1972. LAB NO. 0438-10
WELL NO. LOCATION
FIELD FORMATION
COUNTY INTERVAL
STATE Alaska SAMPLE FROM

REMARKS & CONCLUSIONS: Clear filtrate.
Sample Information: Workup-TDS, #427/A/3M, August 25, 1972.
LJ, RUSSIAN

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	13	0.56	Sulfate	4	0.08
Potassium	Trace	---	Chloride	4	0.11
Calcium	7	0.35	Carbonate	0	---
Magnesium	1	0.08	Bicarbonate	49	0.80
Iron	---	---	Hydroxide	---	---
Total Cations		0.99	Total Anions		0.99

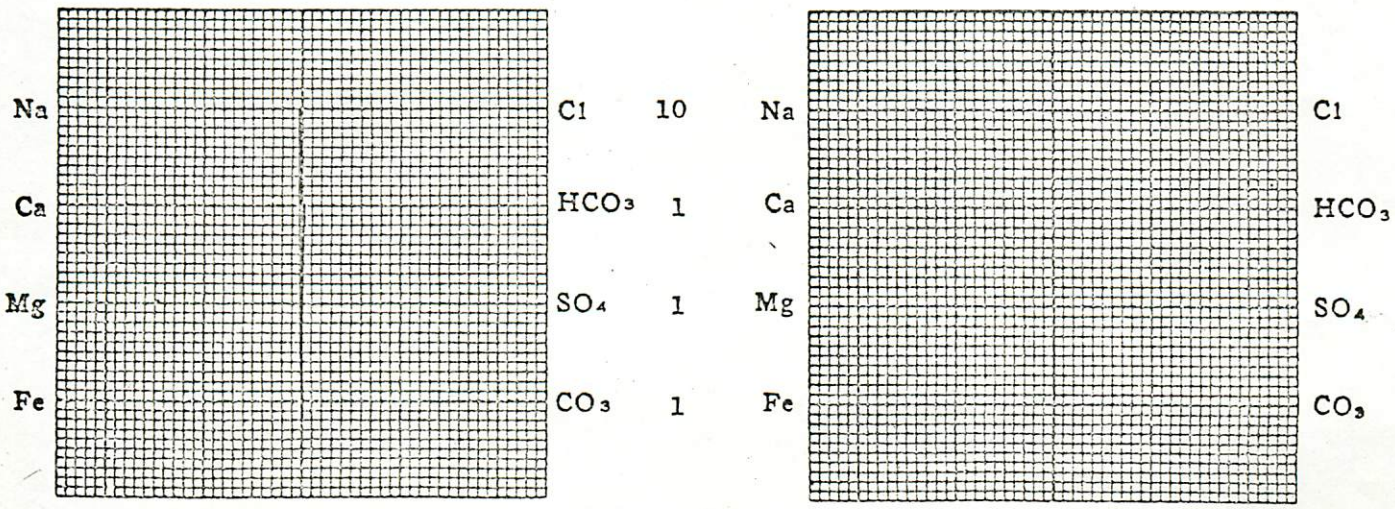
Total dissolved solids, mg/l 53
NaCl equivalent, mg/l --
Observed pH 6.4

Specific resistance @ 63°F.:
Observed 157 ohm-meters
Calculated --- ohm-meters

WATER ANALYSIS PATTERN

Sample above described

Scale
MEQ per Unit



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/l=Milligrams per liter Meq/l= Milligram equivalents per liter