

Form 9-1503
(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

19060000

Basin Index

27 ✓
13 BB

WATERPOWER OF THE UNITED STATES

State	Alaska	Stream	Lake Kathleen	Site	Lake Kathleen
County	First Judicial Division			Owner	
Mer.	T.	R.	Sec.	Constructed	
Lat.	57 °54.3 ' "	Long.	134 °44.5 ' "	Storage	40,000 af 49,339,600 m ³
Miles above mouth				Installed capacity	mw
Drainage Area	31.4 sq. mi.	81.33 sq. km		Installable capacity	mw

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m³/sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	33	.9	500	152.4			500	152.4	1.40	
50	168	4.8							7.14	
mean	190	5.4							8.08	56,560

Remarks: Sitka D-3 - Admiralty Island

Prepared by GCG Date

WPSA 1947

Lake elev. 460, 466 acres

Drainage area 31.4

Q mean 235 cfs

Low saddle at 480

Diversion 8,000' to
mouth of Peanut Cr.
(tunnel)

20' dam & 100' drawdown =
40,000 x

PSC 281 all lands below 500 Lake &
Stream 1200 acres

Int 172 Limits to no more than 1/4 mile

Int 247 certain legal subdivisions & 1/4 mile
1500 acres

Quad Sitka D-2, D-3

Admiralty Island

Lake elev. 473

Low saddle 500

920 acres at elev. 500

430 acres at elev. 473 (Lake)

T.L.: to Angoon 30 miles

to Hawk Inlet
16 miles

Need survey & Geol. Invest.
of saddle area. (can
Lake be raised?)

Withdrawal for conduit
area could be restored

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State <u>Alaska</u>	Stream <u>Lake Kathleen</u>	Site <u>Lake Kathleen</u>
County <u>First Judicial Division</u>		Owner _____
Mer. _____ T. _____ R. _____ Sec. _____		Constructed <u>49,339,600</u>
Lat. <u>57 ° 54.3'</u> " Long. <u>134 ° 44.5'</u> "		Storage <u>40 000</u> af <u>9,339.60</u> m ³
Miles above mouth _____		Installed capacity _____ mw
Drainage Area <u>31.4</u> sq.mi. <u>81.33</u> sq. km		Installable capacity _____ mw

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	33	.9	500	152.4			500	152.4	1402	
50	168	4.8							7140	
mean	190	5.4							8075.08	56,560

Remarks:

Prepared by _____ Date _____

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of saddle area. (can
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Withdrawal for conduit area
could be restored

Reservoir area should be
surveyed and withdrawal
increased if project feasible

Adjust compilation + check geology