

Site No. 19050002-

UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County _____ Site Crescent Lake
 Location SE 1/4 Section 35, T. 5 N., R. 2 W., Seward Meridian Stream Crescent Cr. trib Quate Cr.
 Planned by (date) City of Seward, 21 FPP 2171 (10/28/54)
 Reference "A Water Power Reconnaissance in So. Central Alaska" USGS WSP 372 pg Date 1915
 Quadrangle coverage Seward, Alaska (Recon); Seward (B-7), Alaska; 6/Plan, Domeile, Crescent Lake, Alaska (1953)
 Land: Public _____ Private _____ Use: P, I, FC, MI, R

WS ALT = 1451 feet ^{6/}	Dam: Height <u>29 ft; 45 ft ^{2/}</u>	Length <u>1000 ft ^{3/}</u>	Undeveloped capacity <u>4498 MW (dist to Kenai) - 4,994 MW (dist to TRAIL)</u>
Normal pool altitude <u>1480 ft ^{1/}</u>	<u>1496 ft ^{3/} / 14935</u>		Percent efficiency _____
Reservoir area <u>1040 acres ^{1/}</u>			Annual generation _____
Storage capacity <u>39,490 ac-ft ^{1/}</u>			Plant factor _____
Drainage area <u>21.2 square miles ^{8/}</u>			Mean flow <u>50,69 ft³/sec (36700 ac-ft/yr); 57,38 ft³/sec (41,500 ac-ft/yr) ^{9/}</u>
Gross head <u>1480-436' = 1044', 2 mile diversion to Kenai L. 1496'-472' = 1024', 1.13 mile diversion.</u>			Period of record <u>7/49-9/46 gage 15264000, DA = 31.79 mi.</u>

Remarks: 1/ Original Calculations in STREAM Files2/ Proposed Development in conjunction with CARTER LAKE (19050002) with powerhouse at upper TRAIL Lake. 3/9/2/8/4/ "Water Power Possibilities in the General Vicinity of Anchorage & on the Kenai Peninsula" USGS, Johnson, 1/29/485/ "Interim Report No. 2, Cook Inlet & Tributaries" USACE, 7/20/506/ "Preliminary Report on the Potential Water Power of... Crescent Lakes, Alaska" USGS, Johnson, 19557/ "Geologic Investigations of Proposed Power Sites at... Crescent Lakes, Alaska" USGS Bulletin 1031-A, 195510/ "Lawing Project, ALASKA", Bureau of Reclamation, 9/195511/ "Cook Inlet & Tributaries, ALASKA" H. Doc 34, 85th Cong. 1st Sess. USACE, 10/1/56Prepared by TJK Date 11/79

(OVER)

- 12/ "Water Resource Activities in the U.S. - Water Resources of Alaska" Select Committee US Senate 1/60
- 13/ "Hydroelectric Requirements & Resources in Alaska" Hearings - US Senate, 9/1960.
- 14/ "Interim Report No 2, Cook Inlet & TN basins, Part 1..." H. Doc 455, 87th Cong. 2nd Sess. USHCE, 6/25/62