

CANAL <u>Lake Washington Ship Canal, Washington State</u>		(FOR ACS USE)	
STATUS <u>In use</u>		DATES OF CONSTRUCTION & CLOSURE <u>1911-1916</u>	
LOCATION (ENDPOINTS OF CANAL) <u>Lake Washington to Puget Sound</u>		LENGTH CANAL <u>2</u> SLACKWATER <u>6</u> TOTAL <u>8</u>	
LIFT LOCKS	NBR. <u>2</u>	DIMENSIONS <u>325x 80; 150x 23</u> LOCK CHAMBER _____ OVERALL _____	AQUEDUCTS NBR. <u>0</u> SECTION SIZE _____
TUNNELS <u>0</u>			
DESCRIPTION: (Type of navigation, features of note (include USGS coordinates where useful); e.g., feeders (navigable & otherwise), locks other than above, type of locks, use of unusual material or methods of construction, present owner, present use & condition, etc.)			
<p>This canal connects Seattle's fresh-water harbor, composed of Lake Washington, Salmon Bay, and Lake Union, with Puget Sound. These lakes have been connected by the canal and brought to the same level, which no longer fluctuates, making an excellent harbor. The two locks, one large (325x 80') and one small (150x 23') were constructed at the same time, by the Corps of Engineers between 1911 and 1916, and still operate. Lockage through the large lock takes about 25 min and through the small lock, 10 minutes. The lift varies between 6 and 26 feet, depending on the tide.</p> <p>An interesting technical problem at this lock is the inflow of salt water to the lake because of lockage. To trap the salt water, a large excavation was made in the canal above the large lock, extending 12 feet below the level of the upper sill. Salt water, which is heavier than fresh, tends to sink into the excavation and is removed through a drain to the sound. In 1967 a salt water barrier was also constructed at the upper end of the large lock.</p>			
NAMES & ADDRESSES OF GROUPS CONCERNED WITH CANAL'S PRESERVATION/RESTORATION:			
REPORTER'S NAME & ADDRESS: <u>M. E. Trout, III 1932 Cinco Robles Drive, Duarte, California 91010</u>			DATE <u>19 June 1973</u>
HISTORICAL SUMMARY: (Original aims of company, date of incorporation, prominent engineers, cause of closure, significant alterations to structure or route, height of traffic date, transfers of ownership, etc.)			
<u>See above.</u>			
BIOGRAPHICAL SUMMARY: (Published works relating to Canal)			
<u>from "Lake Washington Ship Canal and Hiram M. Chittenden Locks", 1969 folder, ill., free from Seattle District, Corps of Engineers, 1519 Alaskan Way South, Seattle, Washington 98134.</u>			
UNPUBLISHED RECORDS, LOCATION OF PHOTOS, DRAWINGS & IMPORTANT PERIODICAL REFERENCES			
NATIONAL REGISTER & HAER (HISTORIC AMERICAN ENGINEERING RECORD) STATUS:			
RETURN TO: CANAL INDEX COMMITTEE, C/O P.H. STOTT, HAINES ROAD, MOUNT KISCO, NEW YORK 10549			

USE ADDITIONAL SHEETS AS NECESSARY.
TO MAKE AN INDEX CARD SUITABLE FOR FILING, CUT ALONG THE HEAVY LINES AND FOLD BACK ALONG THE DOTTED LINE.