

## KING SALMON AIR STATION, AK UTILITY SYSTEM DESCRIPTIONS

**General:** King Salmon Air Station is located at the community of King Salmon in the northernmost portion of the Alaskan Peninsula, 290 miles southwest of Anchorage.

**System Descriptions:** The following information is only an estimate and is subject to change.

**Electrical:** Power for King Salmon AFB is received from Naknek Electric Association (NEA) at 14.4 kV through a 1997 constructed circuit parallel to Storage Road. In addition the site is capable of producing it's own power with four 300 kW White diesel generators. The power is distributed on base at 4100 volts consisting predominantly of direct buried #1/0 copper conductor. In addition the base has 37 single and three phase transformers ranging in size from 25 to 1000 kVA and 42 load break stations located throughout the base. The annual electric energy usage for this facility is roughly 3,667,112 kWh.

**Potable Water:** Potable water is supplied by on-base groundwater supply wells and water treatment system. Treated water is distributed through approximately 20,000 feet of water supply mains that are mostly 6-inch and 8-inch asbestos cement pipe installed in the early 1950s. Two groundwater wells, with a combined capacity of approximately 215 gallons per minute provide the on-base water supply. The water is chlorinated then piped to two 25,000 gallon hydropneumatic tanks. The pneumatic tanks are pressurized to 45 psi and supply pressurized water to distribution piping system. The water treatment and storage tank systems were installed in the 1960s. Well water production averages about 30,000 gallons per day.

**Sanitary Wastewater:** Wastewater is collected onsite in a sewer collection system consisting of approximately 18,000 feet of mostly 4-6 year old 6-inch and 8-inch concrete pipe mains. Wastewater is treated on-base in an aerated lagoon treatment system and treated effluent is discharged to Eskimo Creek. The wastewater treatment system includes two lined aerated lagoons with a capacity of 2,500,000 gallons and an effluent chlorination and dechlorination system. Wastewater flows range from 10,000 gallons per day to 50,000 gallons per day, depending on the number of personnel on Base. The wastewater treatment system was installed in the early 1970s and is currently being refurbished.

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