Division of Geological & Geophysical Surveys

PUBLIC-DATA FILE 93-82

SUMMARY OF WATER-USE DATA IN ALASKA, 1992

By

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November 1993

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STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
Division of Geological & Geophysical Surveys
794 University Avenue, Suite 200
Fairbanks, Alaska 99709-3645

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INTRODUCTION

by William A. Petrik[1]

Alaska contains more than 40 percent of the nation's surface water resources, with the three main rivers among the ten largest in the United States. Large amounts of water are stored in over three million lakes ranging in area from pond size, to about 1,000 square miles (U.S. Geological Survey, 1987). The use of these resources require good data collection and management. Data on water use is currently being collected by the Department of Natural Resources (DNR), Division of Water (DOW) and the United States Geological Survey (USGS).

Water-use data in Alaska are useful for conducting water resources investigations, planning, adjudicating water rights, and facilitating sound economic development. The Alaska Water-Use Data System (AKWUDS), operated by the DOW, collects, stores, evaluates, and distributes these data. The DOW cooperates closely with the USGS in operating AKWUDS.

The goals of AKWUDS are to: 1) establish and operate a statewide site-specific water-use database for most types of water use in Alaska; 2) to coordinate with other water-use databases; and 3) and to publish yearly water-use data. This report presents site-specific data reported from 166 active water-use take points in Alaska for calendar year 1992 (Appendix A). This is a decrease of 6 take points over 1991 data. The total water use for the 166 points was 283,310 million gallons (MG). The water-use data were collected from 18 different categories (Appendix B) as defined by the Standard Industrial Classification (SIC) Code list (Appendix C). Public-water supplied by 44 private or municipal agencies accounted for 27 percent of the water-use data points contained in this report, and accounted for 7 percent of the total water used. Hydrocarbon development (crude petroleum and natural gas related use) supplied 31 water-use data points (19 percent), but accounted for less than one percent of the total water use. Hydroelectric facilities only supplied nine water-use data points (5 percent), but accounted for 87 percent of the water use. Other data in water-use categories such as agricultural, commercial, or industrial water supply are limited because such use is covered by municipalities or is not reported. This report also describes the location and accessibility of other publicly-available water-use data in Alaska.

LOCATION OF ALASKAN WATER-USE DATA

Statewide summaries of water use in Alaska are published at 5-year intervals by the USGS (U.S. Geological Survey, 1983, 1985). These summaries include both reported data and estimates for all types of water use in the state. The Alaska Oil and Gas Conservation Commission (AOGCC) Bulletin is a monthly publication which has summaries of all oil, gas, and water production (including injection wells) serving the oil and gas industry in Alaska. This information is available from the early 1960's to the present, encompassing virtually the entire history of oil and gas production in Alaska. Annual summaries appear in the February issues. The oil and gas-related water-use data that appear in this report are collected from sources other than the AOGCC Bulletin. They are compiled from water rights related reports.

Hydroelectric power generation water-use data are also available from facilities in Alaska. The Alaska Energy Administration and the Alaska Energy Authority have water-use data available in manual files for hydroelectric projects. The USGS publishes an annual report series entitled "Water Resources Data - Alaska" that contains hydroelectric power water use. The remainder of the hydroelectric water-use data was obtained directly from power plant managers.

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The DNR Division of Mining has water-use estimates available from approximately 500 active State placer mining claim applications per year. These claim applications are entered in the LAS mining subsystem and reviewed by the DOW for water rights issuance. There are no reported mining water-use data in this summary. Most of the reliable water-use data for mining in Alaska is calculated as part of the DOW's water rights adjudication process, based on the type of mining equipment used. Information on pending water rights applications can be obtained from the local Division of Water, Water Management and Development section in Juneau, Anchorage, and Fairbanks.

Most water-use data in Alaska are obtained through the water rights system which is administered by the DOW. Numerous water users are required to submit water-use data to the DOW as a condition of their water-use permits. The DOW maintains computer files of all water rights holders on a Land Administration System (LAS) database. The water-rights and water-use subsystems are parts of numerous LAS databases. Water-use data have been entered in a separate, but related, working area of the LAS prior to 1990, and maintained by AKWUDS personnel.

A new personal computer (PC) based system is in the early development stage to replace the LAS for water-use data storage and retrieval. The LAS system has proven to be too slow and relatively inaccessible for database retrievals and manipulations. Currently, Microsoft FoxPro database software is used for the water-use database storage. This database software facilitates easy accessibility and availability for query by project managers and other personnel adept at database software manipulation.

DATA ACQUISITION

AKWUDS water-use data are acquired in three ways:

1) by obtaining photocopies of raw water-use records submitted to the DOW;
2) by requesting monthly water-use data from selected water users through questionnaire packets mailed at the beginning of each calendar year; and
3) by telephone conversations requesting water-use information from individuals, businesses, or other government agencies.

The first method of obtaining water-use data makes effective use of existing data collection activities of the DOW. The DOW requires metered water-use records from water rights permittees using 30,000 gal/day of water or more. Water-rights permittees using between 500 gal/day and 30,000 gal/day of water may be required to submit water-use records at the discretion of the adjudicator (Petrik, 1990). The DNR produces a monthly printout which lists all permitted or certified water rights holders that are required to submit water-use data. This printout is used to determine which of these applicants have water-use records available in the DOW's manual files and the potential to be used by the AKWUDS.

The second method of collecting water-use data is by sending a questionnaire packet directly to the water user asking for voluntary submittal of water-use data. The questionnaire packet requests submittal of information on the type and location of water sources and historic water-use data not yet submitted. By mid-January of each calendar year all water-use questionnaire packets for that calendar year are mailed to selected communities of water users by the AKWUDS staff. The questionnaire packets include 12 monthly water-use forms and 12 stamped self-addressed envelopes for use in returning water-use information to the DOW during the calendar year. Criteria used to select water users to receive packets include: 1) they have received questionnaires in previous years; 2) they are a community with its own public water-supply system; or 3) they are in an area of hydrologic interest to the State.

A third method of obtaining water-use data is used if water-use data cannot be collected through the DOW Water Management and Development Section or the questionnaire packet. This method

involves making personal contact by telephone or mail. Sometimes water-use information is more effectively obtained over the telephone because the feedback is immediate. When monthly water-use reports are missing, or monthly water-use questionnaire mailers lost or delinquent, mail or telephone inquiries are made to fill these gaps in data.

DATA COLLECTION METHODS

Water-use data are most commonly quantified by the use of water meters, weir techniques, pumping rate and time measurements, and reservoir level change calculations. Data are usually collected at well heads or at inlets or outlets of storage tanks, or water or wastewater treatment facilities. Water use is most commonly recorded and reported monthly. For some systems, daily, quarterly, semi-annual, or annual reports are made.

DATA VERIFICATION AND STORAGE

During 1993, commercially-available spreadsheet computer software (LOTUS 1-2-3, by Lotus Development Corp.) was used to calculate calendar year 1992 monthly and yearly water-use averages. Reports that are extremely irregular are custom calculated. Results of data compiled on these spreadsheets are checked for obvious clerical or reporting errors and stored in the PC database as monthly totals. Additionally, information such as the number of days per month the data is available, location, water source, water rights number, and Alaska Department of Environmental Conservation (DEC) Public Water Supply Inventory (PWSI) number are entered. Data prior to 1990 are stored in LAS and are available to any LAS user familiar with water rights computer files. 1990 through 1992 data are PC based, and requests can be directed to the project manager or other personnel familiar with Lotus 1-2-3 or Microsoft FoxPro database software.

An important feature of water-use data storage is the appropriate classification of types of water use. The AKWUDS utilizes the Standard Industrial Classification (SIC) system, which is described by the U.S. Office of Management and Budget (1987) as follows:

> *The Standard Industrial Classification was developed for use in the classification of establishments by type of activity in which they are engaged; for purposes of facilitating the collection, tabulation, presentation, and analysis of data relating to establishments; and for promoting uniformity and comparability in the presentation of statistical data collected by various agencies of the United States government, State agencies, trade associations, and private research organizations. To be recognized as an industry, the group of establishments constituting the proposed classification must be statistically significant in the number of persons employed, the volume of business conducted, and other measures of economic activity.*

The SIC system provides for the correlation of unique 4-digit codes to different types of business activities (Appendix C). These codes are assigned to each water user and entered into the AKWUDS database.

RESULTS

Table 1 summarizes types of reported water-use data in Alaska for 1992. In frequency, the dominant category is public water suppliers, representing data from all major communities in Alaska and many smaller ones from all geographic areas. Water-use data are available from a diverse array of water-using establishments.

A summary of data contained in this report is presented by facility in Appendix A. Appendix A provides a cross reference between commonly used facility names, water rights file numbers, and DEC PWSI identification numbers. Appendix B contains a complete data listing ordered by SIC

code and facility name. Appendix B contains totals in million gallons and acre feet for each SIC code. Appendix F is a cross reference of water rights numbers to facility name and water source.

TABLE 1. Types of reported water-use in Alaska, 1992.

SIC Category	Number of Sources	Percentage of Total Users
Public Water Supply	93	56
Crude Petroleum and Natural Gas	31	19
Aquaculture	9	5
Hydroelectric Power Generation	9	5
Fresh and Frozen Seafood	5	3
Chemical Refining	3	2
Petroleum Refining	3	2
University and Secondary Schools	3	2
Other	10	6
TOTAL	**166**	**100**

Total reported water use in Alaska, 1992, listed here was 283,310 MG. Hydroelectric power generation is the largest reported water use (Appendix B) in Alaska in 1992 (247,444 MG). Hydroelectric water usage varies seasonally as a result of low summer and high winter electrical demand patterns.

The second largest and most frequently reported use of water is public water supplies (18,963 MG), which is at least partly a result of the emphasis of the AKWUDS program to collect these types of data. To avoid confusion, it must be pointed out that the DNR has not formally defined the meaning of a public water supplier. As part of water rights adjudication, the DOW uses the criteria of five or more homes on a single water system to assign the SIC code 4941 for a public water supplier (Petrik, 1990). The SIC manual defines water supply as: *"Establishments primarily engaged in distributing water for sale for domestic, commercial, and industrial use."* The DOW definition used in this report differs from the definition of a "public water system" used by SIC and DEC. The DEC defines a public water system as:

> *...any source of water, intake works, collection system, treatment works, storage facility, or distribution system from which water is available for human consumption; the term includes, but is also not limited to, systems providing water to more than one residential dwelling unit, or to a factory, office building, restaurant, school or other similar facility, but does not include a system serving only a single-family residence. (Alaska Department of Environmental Conservation, 1982).*

The DEC lists 2,231 active public water systems in Alaska (L.M. Cochrane, DEC, oral commun., 1993). The large number (2,129) of public water systems not contained in this report are mostly relatively small systems. This illustrates, however, that even in a water-use category that has received emphasis from the AKWUDS program, a significant amount of water use may be unreported.

DISCUSSION

Water-use data reported here do not always accurately represent actual or complete water use in Alaska. Field verification by AKWUDS personnel of water-users' data collection procedures does not occur. Water meters are commonly uncalibrated, especially in smaller communities, and leaky water-supply lines occur. Many of the water users with large leakage problems are smaller communities with inadequate funding for maintenance and communities with shallow-buried water supply lines that are subject to freezing and bursting. Additionally, even though public water supplies are usually used year-round, data are partially missing for many sources listed in Appendix A and B.

As previously mentioned, this report does not describe all water use in Alaska in 1992. In addition to omitting data available elsewhere, water is estimated to have been used in Alaska in significantly greater quantities than are reported here for public water-supply, agriculture, seafood processing, manufacturing, and retail trade (Solley, 1993). Considering all uses of fresh water (instream and offstream), the USGS estimated that 757,010 MG of water was used during 1990. Assuming that water use has not significantly changed between 1990 and 1992, this indicates that only approximately 37 percent of all Alaskan water use is reported here.

ACKNOWLEDGEMENTS

This report was funded through a cooperative program with the U.S. Geological Survey. Stan Carrick of the DOW provided review and comments.

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APPENDIX A

WATER-USE DATA IN ALASKA, 1992, ARRANGED BY FACILITY NAME

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
ADF&G Big Lake Fish Hatchery	Well 7	LAS 11255		325.008	366	1.066	921
	Wells 1, 2, 4, & 5	LAS 11248		118.800	366	0.325	921
ADF&G Pillar Creek Fish Hatchery	Pillar Creek	LAS 7247		270.788	366	0.740	921
Alaska Electric Light & Power	Salmon Creek	ADL 45780		14,144.214	366	38.645	4911
Alaska Energy Authority	Bradley Lake Hydro Generation	LAS 2836		126,425.300	366	345.424	4911
	Solomon Gulch Hydro Generation	ADL 67278	292666 C	26,534.601	366	72.499	4911
	Terror Lake Hydro Generation	ADL 201559		30,087.645	366	82.207	4911
	Tyee Lake Hydro Generation	ADL 100887		14,609.129	366	39.916	4911
Alaska Power & Telephone Co.	Dewey Lake Hydro Generation	LAS 12268		3,522.542	366	9.624	4911
Aleut Corp. - Midtown Estates	Well #2	LAS 2183	227204 A	6.810	366	0.019	4941
Alyeska Pipeline Service Co.	Allison Creek	LAS 11813	291944 B	83.010	366	0.227	4612
Anchorage School District	Ravenwood Well	LAS 636		0.603	366	0.002	8211
Anchorage Water & Wastewater Utl.	Eagle River #4, Eagle River Hts. N.	ADL 51573		2.509	366	0.007	4941
	Eagle River #8, Eagle Crest	ADL 209828		0.893	335	0.003	4941
	Eklutna Lake	LAS 2569		3,969.404	366	10.845	4941
	Girdwood Wells	ADL 44626		83.987	366	0.229	4941
	Ship Creek	LAS 1051	210906 A	4,206.261	366	11.493	4941
	Well # 3, 3rd Ave.	ADL 44626	210930 C	7.539	305	0.025	4941
	Well # 4, Commercial Drive	ADL 44626	210948 C	27.582	366	0.075	4941
	Well # 7, 40th Ave. & Denali St.	ADL 65787	210956 C	48.586	366	0.133	4941
	Well # 9, Centennial Park	ADL 67201	210972 C	14.102	366	0.039	4941
	Well #10A, Chugach Foothills	ADL 54850	210980 C	237.048	366	0.648	4941
	Well #11B, Chugach Foothills	ADL 54850		162.476	366	0.444	4941

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
	Well #12, 40th Ave. & B St.	ADL 202997		115.996	366	0.317	4941
	Well #13, Spruce and E. 64th Sts.	LAS 246		224.462	366	0.613	4941
	Well #20, Creekside Park	ADL 50906		1.523	306	0.005	4941
	Well #25, Military #1	ADL 62222		16.475	305	0.054	4941
	Well #29, Service Hanshew H.S.	ADL 201920	210087 A	14.595	366	0.040	4941
	Well #31, Huffman Hills	ADL 203956		10.279	336	0.031	4941
	Well #35, ALAGCO	ADL 201555		9.832	366	0.027	4941
	Well #38, Spenard Builders	ADL 201921		4.866	336	0.014	4941
ARCO Alaska, Inc.		LAS 12166		21.668	305	0.071	1311
		LAS 12167		1.776	123	0.014	1311
		LAS 12169		3.889	153	0.025	1311
		LAS 12170		0.029	31	0.001	1311
		LAS 12172		0.114	61	0.002	1311
		LAS 12175		7.527	153	0.049	1311
		LAS 12176		1.127	122	0.009	1311
		LAS 12177		5.107	153	0.033	1311
		LAS 12178		0.733	61	0.012	1311
		LAS 12179		0.954	122	0.008	1311
		LAS 12180		0.029	61	0.000	1311
		LAS 12181		0.254	92	0.003	1311
		LAS 12182		0.175	92	0.002	1311
		LAS 12183		0.043	31	0.001	1311
		LAS 12184		0.914	92	0.010	1311
		LAS 12186		0.113	30	0.004	1311
		LAS 12187		0.357	92	0.004	1311
	Pingo Lake	LAS 12188		4.889	152	0.032	1311
	TWUP	LAS 13795		0.892	61	0.015	1311
	Unnamed Lake	LAS 12168		0.752	61	0.012	1311
	Unnamed Lake	LAS 12174		0.405	153	0.003	1311
	Webster Reservoir	ADL 67781		84.264	366	0.230	1311
B & J Ventures, Inc.	Well	LAS 780	213352 A	3.066	366	0.008	4941
British Petroleum	16 Shallow Lakes	LAS 13629		3.544	275	0.013	1311
	6 Impoundments	LAS 13628		9.156	183	0.050	1311

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
	Big Lake	ADL 66177	333013 B	23.118	366	0.063	1311
	DIU Pit #1	LAS 13290		2.320	275	0.008	1311
	DS-7 Lake	LAS 12177		0.420	183	0.002	1311
	Kuparuk Reservoirs 1-3	ADL 75979		21.243	366	0.058	1311
	Kuparuk Reservoirs 4-5	ADL 75979		23.280	366	0.064	1311
	Patti Lake, Sag. Site C	LAS 7611		20.974	366	0.057	1311
	Vern Lake	LAS 12166		8.564	275	0.031	1311
Chugach Electric	Cooper Lake	ADL 39886		22,853.495	366	62.441	4911
Chugiak - Eagle River Industries	180' Well	LAS 1947		0.608	366	0.002	4941
Chugiak Utilities	225' Well	ADL 74176	213001 A	14.454	365	0.040	4941
Cook Inlet Processing	Well	ADL 39829	241826 B	24.373	366	0.067	2092
Cordova Electric Cooperative, Inc.	Humpback Creek	LAS 3445		9,266.700	366	25.319	4911
Craig, City of	North Fork Lake	ADL 62346	120193 A	106.979	275	0.389	4941
	Sunnahae Mt. Spring	ADL 62346	120193 A	29.137	121	0.241	4941
Crestbrook Water Association, Inc.	Well	ADL 206632	210867 A	3.919	366	0.011	4941
Dillingham, City of	Wells 1, 2, & 3	ADL 46054	260197 A	32.077	366	0.088	4941
Eagle View Car Wash (W. Ortner)	Well	LAS 2102		0.972	366	0.003	7542
Eek, City of	Eek River	LAS 11320	270281 A	0.538	366	0.001	4941

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
Eklutna Utilities, Inc.	Eagleridge, Parkview Terrace & East	LAS 2811	213077 A	50.876	366	0.139	4941
	Eklutna Gate Water System	LAS 2811	211156 A	1.570	366	0.004	4941
	Thunderbird Heights	LAS 2811	213077 A	22.106	366	0.060	4941
	Twin Peaks Subdivision	LAS 2811	227539 A	1.460	366	0.004	4941
Elim, Village of	Well	ADL 75895	340345 A	6.093	366	0.017	4941
Fairbanks, City of	Fire Well #3	ADL 53813	310730 A	1,076.675	366	4.413	4941
	Well #1	ADL 53813	310730 A	964.708	276	3.495	4941
	Well #3	ADL 53813	310730 A	15.970	122	0.131	4941
Fort Yukon, Village of	Main Well	LAS 11321	360256 A	6.741	366	0.018	4941
Grayling, Village of	29' Well	ADL 75980	280066 A	5.619	366	0.015	4941
Hillside Park Homeowner's Assoc.	283' Well	LAS 9731	212461 A	3.866	366	0.011	4941
Hilltop Ski Area	79' Well	LAS 1026	213548 B	10.608	52	0.204	7999
Homer Electric Association, Inc.	Well	LAS 2530		0.016	6	0.003	4911
Homestead Apartments & Trailer Ct.	Homestead Creek	LAS 4070	120046 A	14.553	366	0.131	4941
Inlet Salmon	Kasilof Well	LAS 12139	244177 B	1.833	366	0.005	2092
	Kenai Well	LAS 3024	241444 B	17.454	266	0.066	2092
	Naknek Well	LAS 12424	262292 B	5.095	236	0.022	2092

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
Johnson Development	2-101' Wells	LAS 2082		0.431	366	0.001	6512
Juneau, City and Borough	New Salmon Creek Tailrace	LAS 1942	110342 A	508.898	306	1.663	4941
	Well #3	ADL 100066	110342 A	79.359	366	0.217	4941
	Wells 1, 2, 4, 5 & 3 Bypass	ADL 44439	110342 A	961.248	366	2.626	4941
Kasaan, City of	Linkum Creek	LAS 11329	120606 A	9.188	356	0.025	4941
Kenai, City of	Well #1	ADL 53282	240448 A	99.980	366	0.273	4941
	Well #2	ADL 53282	240448 A	183.113	354	0.517	4941
King Cove, City of	Ram Creek	ADL 42595	260244 A	25.837	366	0.071	4941
Kodiak, City of	Monashka Creek	LAS 1145	250011 A	1,914.156	366	5.230	4941
	Pillar Creek	ADL 39747	250011 A	74.600	182	0.410	4941
Kotzebue, City of	Devil's Lake, Vortac Reservoir	ADL 401827	340060 A	66.391	366	0.243	4941
McGrath, City of	Kuskokwim River	LAS 969	280155 A	11.433	365	0.031	4941
Nome, City of	Moonlight Springs - Anvil Mt.	ADL 42993	340599 A	3.823	366	0.010	9223
	Moonlight Springs - Beltz H.S.	ADL 42993	340638 B	4.131	366	0.011	8211
	Moonlight Springs - FAA	ADL 42993		5.775	366	0.016	4583
	Moonlight Springs - Nat'l Guard Arm	ADL 42993		0.091	366	0.000	9711
	Moonlight Springs - WTP	ADL 42993	340010 A	172.902	366	0.472	4941
Noorvik, Village of	Kobuk River	ADL 75902	340109 A	2.504	366	0.007	4941
Offshore Systems, Inc.-Dutch Harbor	Unnamed stream	LAS 342		34.212	366	0.093	4463

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
Offshore Systems, Inc.-Kenai	2 - 186' Wells	LAS 12953	244997 B	32.194	366	0.088	4941
Palmer, City of	Well #1, 624'	ADL 201324	226020 A	169.103	277	0.610	4941
	Well #3	LAS 3017	226020 A	2.405	32	0.075	4941
	Well #4, 186'	LAS 9889	226020 A	51.668	132	0.391	4941
Petersburg Water Treatment Plant	Stream	LAS 6550	130148 A	292.100	366	0.798	4941
Phillips Petroleum Co.	PW 3, 264' Well	ADL 42983	240969 B	118.586	366	0.329	2911
Port Graham, Village of	Unnamed Stream, WTP	LAS 11965	240498 A	22.213	366	0.061	4941
Port Lions, City of	Branchwater Creek	ADL 39835	250045 A	27.709	366	0.076	4941
Prince Wm. Sound Aquaculture, Inc.	Esther Lake Hydro	LAS 1312		11,460.988	366	31.314	921
Royal Pacific Fisheries, Inc.	Well	LAS 1117	242953 B	6.489	366	0.018	2092
Sand Point, City of	Humboldt Creek	LAS 11795	260294 A	84.740	366	0.232	4941
Saxman, City of	Saxman Creek	ADL 44121	120127 A	27.712	366	0.082	4941
Scammon Bay, Village of	Lines 1 and 2	ADL 46364	270184 A	2.952	366	0.008	4941
Seward, City of	Ft. Raymond Well #1	ADL 39936	240757 A	62.451	366	0.516	4941
	Ft. Raymond Well #3	ADL 39936	240757 A	202.452	366	0.553	4941

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FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
	Ft. Raymond Well #4	ADL 39936	240757 A	72.266	366	0.295	4941
	Ft. Raymond Well #5	ADL 39936	240757 A	13.961	90	0.153	4941
	Marathon Creek	ADL 210826	240757 A	93.379	366	0.383	4941
	SMIC Well A, Marine Indust. Center	LAS 11311	240757 A	21.204	366	0.058	4941
	SMIC Well B, Marine Indust. Center	LAS 11311	240757 A	24.184	366	0.066	4941
Soldotna, City of	Well A	ADL 52342	241054 A	38.112	366	0.104	4941
	Well B	ADL 40315	241054 A	18.250	366	0.050	4941
	Well C	ADL 206983	241054 A	214.368	366	0.586	4941
	Well D	ADL 214896	241054 A	1.473	182	0.008	4941
	Well E	LAS 11215	240939 B	0.033	366	0.000	4941
Southcentral Utilities	280' and 543' Wells	LAS 6516	214706 A	5.950	366	0.016	4941
Southpark Terrace	Little Rabbit Creek	ADL 209628	213475 A	8.798	366	0.024	4941
Tatitlek, Village of	Pumphouse	ADL 76071	291130 A	12.438	366	0.034	4941
Tesoro Alaska Petroleum	Well 1	ADL 42906	241745 B	2.289	34	0.067	2911
	Well 2	ADL 42906	241745 B	162.177	366	0.447	2911
Thorne Bay, City of	Water Lake	LAS 11465	120216 A	62.594	366	0.171	4941
U.S.D.A. Forest Service - Tongass	Old Frank's Creek	LAS 12694		986.082	184	5.359	921
U.S.D.O.T. F.A.A. Elmendorf A.F.B.	160' Well	LAS 11600		12.371	366	0.034	4583
Unalaska, City of	Icy (Pyramid) Creek	LAS 2394	260309 A	768.780	366	2.100	4941
	Unalaska Creek	LAS 2394	260309 A	396.360	366	1.083	4941
	Wells 1 and 1A	LAS 2394	260309 A	161.130	336	0.480	4941

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FACILITY NAME	WATER SOURCE	FILE NUMBER	DEC PWSI NUMBER	TOTAL (million gallons)	DAYS OF USE	MILLION GALLONS per DAY	SIC CODE
	Wells 2 and 2A	LAS 2394	260309 A	109.760	336	0.327	4941
University of Alaska	Palmer Exp. Station Well	LAS 12588		14.145	366	0.039	139
	UAA - 2 Bldg. "K" Wells	ADL 57174	310683 A	1.150	92	0.013	8221
UNOCAL Chemicals Division	Well 6	ADL 203480	240919 B	140.145	366	0.383	2873
	Well 7, 15, and 16	ADL 42514	240919 B	504.275	366	1.378	2873
	Well 1 and 5B	ADL 78075	240919 B	259.110	366	0.708	2873
Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch 24" Main	LAS 1142	292005 C	1,631.730	318	5.131	921
	Solomon Gulch Falls Creek	LAS 1142	292005 C	188.364	64	2.943	921
	Solomon Gulch High Pressure	LAS 1142	292005 C	217.022	183	1.186	921
	Solomon Gulch Warm Water	LAS 1142	292005 C	43.014	167	0.258	921
Viewpoint Ventures, Inc.	295' Well	LAS 2393	214730 A	6.285	366	0.017	4941
Wasilla, City of	Iditarod Wells, 136' and 154'	ADL 209104	223137 A	42.373	366	0.116	4941
	Lacy Laine Well	LAS 1541	224109 A	0.279	366	0.001	4941
	Mission Hills Sub Phases 2&3 - Well	LAS 1141	223763 A	6.361	366	0.017	4941
	Spruce Ave Wells, 236' and 240'	LAS 5204	224646 A	91.296	366	0.249	4941
Whittier, City of	Well 1, 80'	LAS 2531	211952 A	39.483	327	0.121	4941
	Well 2, 80'	LAS 2532	211952 A	27.962	366	0.076	4941
	Well 3, 80'	LAS 2533	211952 A	40.416	366	0.110	4941
Yakutat, City of	Back-up (ARCO) Well	ADL 43340	130172 A	33.944	184	0.184	4941
	Main Well, A, 325'	ADL 43340	130172 A	37.994	366	0.104	4941

Total for all Facilities	283,310.197

APPENDIX B

1992 WATER-USE DATA SORTED BY SIC CODES

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
139	Agricultural Crops	University of Alaska	Palmer Exp. Station Well	14.145	43.409
			Total for SIC Group	14.145	43.409
921	Aquaculture	ADF&G Big Lake Fish Hatchery	Well 7	325.008	997.413
921		ADF&G Big Lake Fish Hatchery	Wells 1, 2, 4, & 5	118.800	364.584
921		ADF&G Pillar Creek Fish Hatchery	Pillar Creek	270.788	831.018
921		Prince Wm. Sound Aquaculture, Inc.	Esther Lake Hydro	11,460.988	35,172.481
921		U.S.D.A. Forest Service - Tongass	Old Frank's Creek	986.082	3,026.175
921		Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch 24" Main	1,631.730	5,007.595
921		Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch Falls Creek	188.364	578.068
921		Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch High Pressure	217.022	666.016
921		Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch Warm Water	43.014	132.005
			Total for SIC Group	15,241.796	46,775.355
1311	Crude Petroleum & Natural Gas	ARCO Alaska, Inc.		21.668	66.497
1311		ARCO Alaska, Inc.		1.776	5.450
1311		ARCO Alaska, Inc.		3.889	11.935
1311		ARCO Alaska, Inc.		0.029	0.089
1311		ARCO Alaska, Inc.		0.114	0.350
1311		ARCO Alaska, Inc.		7.527	23.100
1311		ARCO Alaska, Inc.		1.127	3.459
1311		ARCO Alaska, Inc.		5.107	15.673
1311		ARCO Alaska, Inc.		0.733	2.249
1311		ARCO Alaska, Inc.		0.954	2.928
1311		ARCO Alaska, Inc.		0.029	0.089
1311		ARCO Alaska, Inc.		0.254	0.779
1311		ARCO Alaska, Inc.		0.175	0.537
1311		ARCO Alaska, Inc.		0.043	0.132
1311		ARCO Alaska, Inc.		0.914	2.805
1311		ARCO Alaska, Inc.		0.113	0.347
1311		ARCO Alaska, Inc.		0.357	1.096

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
1311		ARCO Alaska, Inc.	Pingo Lake	4.889	15.004
1311		ARCO Alaska, Inc.	TWUP	0.892	2.737
1311		ARCO Alaska, Inc.	Unnamed Lake	0.752	2.308
1311		ARCO Alaska, Inc.	Unnamed Lake	0.405	1.243
1311		ARCO Alaska, Inc.	Webster Reservoir	84.264	258.597
1311		British Petroleum	16 Shallow Lakes	3.544	10.876
1311		British Petroleum	6 Impoundments	9.156	28.099
1311		British Petroleum	Big Lake	23.118	70.947
1311		British Petroleum	DIU Pit #1	2.320	7.120
1311		British Petroleum	DS-7 Lake	0.420	1.289
1311		British Petroleum	Kuparuk Reservoirs 1-3	21.243	65.192
1311		British Petroleum	Kuparuk Reservoirs 4-5	23.280	71.444
1311		British Petroleum	Patti Lake, Sag. Site C	20.974	64.367
1311		British Petroleum	Vern Lake	8.564	26.282
			Total for SIC Group	248.630	763.020
2092	Fresh and Frozen Seafood	Cook Inlet Processing	Well	24.373	74.798
2092		Inlet Salmon	Kasilof Well	1.833	5.625
2092		Inlet Salmon	Kenai Well	17.454	53.564
2092		Inlet Salmon	Naknek Well	5.095	15.636
2092		Royal Pacific Fisheries, Inc.	Well	6.489	19.914
			Total for SIC Group	55.244	169.537
2873	Nitrogenous Fertilizers	UNOCAL Chemicals Division	Well 1 and 5B	259.110	795.179
2873		UNOCAL Chemicals Division	Well 6	140.145	430.089
2873		UNOCAL Chemicals Division	Well 7, 15, and 16	504.275	1,547.563

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
			Total for SIC Group	903.530	2,772.831
2911	Petroleum Refining	Phillips Petroleum Co.	PW 3, 264' Well	118.586	363.927
2911		Tesoro Alaska Petroleum	Well 1	2.289	7.025
2911		Tesoro Alaska Petroleum	Well 2	162.177	497.703
			Total for SIC Group	283.052	868.655
4463	Marine Cargo Handling	Offshore Systems, Inc.-Dutch Harbor	Unnamed stream	34.212	104.993
			Total for SIC Group	34.212	104.993
4583	Airport Terminal Services	Nome, City of	Moonlight Springs - FAA	5.775	17.723
4583		U.S.D.O.T. F.A.A. Elmendorf A.F.B.	160' Well	12.371	37.965
			Total for SIC Group	18.146	55.688
4612	Petroleum Pipeline Services	Alyeska Pipeline Service Co.	Allison Creek	83.010	254.748
			Total for SIC Group	83.010	254.748
4911	Hydroelectric Power Generation	Alaska Electric Light & Power	Salmon Creek	14,144.214	43,406.999
4911		Alaska Energy Authority	Bradley Lake Hydro Generation	126,425.300	387,984.999

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
4911		Alaska Energy Authority	Solomon Gulch Hydro Generation	26,534.601	81,431.700
4911		Alaska Energy Authority	Terror Lake Hydro Generation	30,087.645	92,335.592
4911		Alaska Energy Authority	Tyee Lake Hydro Generation	14,609.129	44,833.771
4911		Alaska Power & Telephone Co.	Dewey Lake Hydro Generation	3,522.542	10,810.284
4911		Chugach Electric	Cooper Lake	22,853.495	70,134.801
4911		Cordova Electric Cooperative, Inc.	Humpback Creek	9,266.700	28,438.458
4911		Homer Electric Association, Inc.	Well	0.016	0.049
			Total for SIC Group	247,443.642	759,376.653
4941	Public Water Supply	Aleut Corp. - Midtown Estates	Well #2	6.810	20.899
4941		Anchorage Water & Wastewater Utl.	Eagle River #4, Eagle River Hts. N.	2.509	7.700
4941		Anchorage Water & Wastewater Utl.	Eagle River #8, Eagle Crest	0.893	2.741
4941		Anchorage Water & Wastewater Utl.	Eklutna Lake	3,969.404	12,181.654
4941		Anchorage Water & Wastewater Utl.	Girdwood Wells	83.987	257.747
4941		Anchorage Water & Wastewater Utl.	Ship Creek	4,206.261	12,908.541
4941		Anchorage Water & Wastewater Utl.	Well # 3, 3rd Ave.	7.539	23.136
4941		Anchorage Water & Wastewater Utl.	Well # 4, Commercial Drive	27.582	84.646
4941		Anchorage Water & Wastewater Utl.	Well # 7, 40th Ave. & Denali St.	48.586	149.105
4941		Anchorage Water & Wastewater Utl.	Well # 9, Centennial Park	14.102	43.277
4941		Anchorage Water & Wastewater Utl.	Well #10A, Chugach Foothills	237.048	727.474
4941		Anchorage Water & Wastewater Utl.	Well #11B, Chugach Foothills	162.476	498.621
4941		Anchorage Water & Wastewater Utl.	Well #12, 40th Ave. & B St.	115.996	355.979
4941		Anchorage Water & Wastewater Utl.	Well #13, Spruce and E. 64th Sts.	224.462	688.849
4941		Anchorage Water & Wastewater Utl.	Well #20, Creekside Park	1.523	4.674
4941		Anchorage Water & Wastewater Utl.	Well #25, Military #1	16.475	50.560
4941		Anchorage Water & Wastewater Utl.	Well #29, Service Hanshew H.S.	14.595	44.790
4941		Anchorage Water & Wastewater Utl.	Well #31, Huffman Hills	10.279	31.545
4941		Anchorage Water & Wastewater Utl.	Well #35, ALAGCO	9.832	30.173
4941		Anchorage Water & Wastewater Utl.	Well #38, Spenard Builders	4.866	14.933
4941		B & J Ventures, Inc.	Well	3.066	9.409
4941		Chugiak - Eagle River Industries	180' Well	0.608	1.866
4941		Chugiak Utilities	225' Well	14.454	44.358
4941		Craig, City of	North Fork Lake	106.979	328.306
4941		Craig, City of	Sunnahae Mt. Spring	29.137	89.418
4941		Crestbrook Water Association, Inc.	Well	3.919	12.027

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
4941		Dillingham, City of	Wells 1, 2, & 3	32.077	98.441
4941		Eek, City of	Eek River	0.538	1.651
4941		Eklutna Utilities, Inc.	Eagleridge, Parkview Terrace & East	50.876	156.133
4941		Eklutna Utilities, Inc.	Eklutna Gate Water System	1.570	4.818
4941		Eklutna Utilities, Inc.	Thunderbird Heights	22.106	67.841
4941		Eklutna Utilities, Inc.	Twin Peaks Subdivision	1.460	4.481
4941		Elim, Village of	Well	6.093	18.699
4941		Fairbanks, City of	Fire Well #3	1,076.675	3,304.194
4941		Fairbanks, City of	Well #1	964.708	2,960.580
4941		Fairbanks, City of	Well #3	15.970	49.010
4941		Fort Yukon, Village of	Main Well	6.741	20.687
4941		Grayling, Village of	29' Well	5.619	17.244
4941		Hillside Park Homeowner's Assoc.	283' Well	3.866	11.864
4941		Homestead Apartments & Trailer Ct.	Homestead Creek	14.553	44.662
4941		Juneau, City and Borough	New Salmon Creek Tailrace	508.898	1,561.751
4941		Juneau, City and Borough	Well #3	79.359	243.544
4941		Juneau, City and Borough	Wells 1, 2, 4, 5 & 3 Bypass	961.248	2,949.962
4941		Kasaan, City of	Linkum Creek	9.188	28.197
4941		Kenai, City of	Well #1	99.980	306.827
4941		Kenai, City of	Well #2	183.113	561.953
4941		King Cove, City of	Ram Creek	25.837	79.291
4941		Kodiak, City of	Monashka Creek	1,914.156	5,874.329
4941		Kodiak, City of	Pillar Creek	74.600	228.939
4941		Kotzebue, City of	Devil's Lake, Vortac Reservoir	66.391	203.746
4941		McGrath, City of	Kuskokwim River	11.433	35.087
4941		Nome, City of	Moonlight Springs - WTP	172.902	530.617
4941		Noorvik, Village of	Kobuk River	2.504	7.684
4941		Offshore Systems, Inc.-Kenai	2 - 186' Wells	32.194	98.800
4941		Palmer, City of	Well #1, 624'	169.103	518.958
4941		Palmer, City of	Well #3	2.405	7.381
4941		Palmer, City of	Well #4, 186'	51.668	158.563
4941		Petersburg Water Treatment Plant	Stream	292.100	896.422
4941		Port Graham, Village of	Unnamed Stream, WTP	22.213	68.169
4941		Port Lions, City of	Branchwater Creek	27.709	85.036
4941		Sand Point, City of	Humboldt Creek	84.740	260.058
4941		Saxman, City of	Saxman Creek	27.712	85.045
4941		Scammon Bay, Village of	Lines 1 and 2	2.952	9.059
4941		Seward, City of	Ft. Raymond Well #1	62.451	191.655
4941		Seward, City of	Ft. Raymond Well #3	202.452	621.302

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
4941		Seward, City of	Ft. Raymond Well #4	72.266	221.776
4941		Seward, City of	Ft. Raymond Well #5	13.961	42.845
4941		Seward, City of	Marathon Creek	93.379	286.570
4941		Seward, City of	SMIC Well A, Marine Indust. Center	21.204	65.073
4941		Seward, City of	SMIC Well B, Marine Indust. Center	24.184	74.218
4941		Soldotna, City of	Well A	38.112	116.961
4941		Soldotna, City of	Well B	18.250	56.007
4941		Soldotna, City of	Well C	214.368	657.871
4941		Soldotna, City of	Well D	1.473	4.520
4941		Soldotna, City of	Well E	0.033	0.101
4941		Southcentral Utilities	280' and 543' Wells	5.950	18.260
4941		Southpark Terrace	Little Rabbit Creek	8.798	27.000
4941		Tatitlek, Village of	Pumphouse	12.438	38.171
4941		Thorne Bay, City of	Water Lake	62.594	192.094
4941		Unalaska, City of	Icy (Pyramid) Creek	768.780	2,359.299
4941		Unalaska, City of	Unalaska Creek	396.360	1,216.384
4941		Unalaska, City of	Wells 1 and 1A	161.130	494.490
4941		Unalaska, City of	Wells 2 and 2A	109.760	336.841
4941		Viewpoint Ventures, Inc.	295' Well	6.285	19.288
4941		Wasilla, City of	Iditarod Wells, 136' and 154'	42.373	130.038
4941		Wasilla, City of	Lacy Laine Well	0.279	0.856
4941		Wasilla, City of	Mission Hills Sub Phases 2&3 - Well	6.361	19.521
4941		Wasilla, City of	Spruce Ave Wells, 236' and 240'	91.296	280.177
4941		Whittier, City of	Well 1, 80'	39.483	121.169
4941		Whittier, City of	Well 2, 80'	27.962	85.812
4941		Whittier, City of	Well 3, 80'	40.416	124.032
4941		Yakutat, City of	Back-up (ARCO) Well	33.944	104.170
4941		Yakutat, City of	Main Well, A, 325'	37.994	116.599
			Total for SIC Group	18,962.981	58,195.251
6512	Non-Resident. Bldg. Operations	Johnson Development	2-101' Wells	0.431	1.323

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
			Total for SIC Group	0.431	1.323
7542	Carwash	Eagle View Car Wash (W. Ortner)	Well	0.972	2.983
			Total for SIC Group	0.972	2.983
7999	Amusement & Recreation Service	Hilltop Ski Area	79' Well	10.608	32.555
			Total for SIC Group	10.608	32.555
8211	Secondary School	Anchorage School District	Ravenwood Well	0.603	1.851
8211		Nome, City of	Moonlight Springs - Beltz H.S.	4.131	12.678
			Total for SIC Group	4.734	14.529
8221	University	University of Alaska	UAA - 2 Bldg. "K" Wells	1.150	3.529
			Total for SIC Group	1.150	3.529
9223	Public Safety	Nome, City of	Moonlight Springs - Anvil Mt.	3.823	11.732

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

SIC CODE	USE TYPE	FACILITY NAME	WATER SOURCE	USE IN MILLION GALLONS	USE IN ACRE FEET
			Total for SIC Group	3.823	11.732
9711	National Security	Nome, City of	Moonlight Springs - Nat'l Guard Arm	0.091	0.279
			Total for SIC Group	0.091	0.279
			Total for all SIC Groups	283,310.197	869,447.070

APPENDIX C

STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE LISTING

Standard Industrial Classification (S.I.C.) Code List

1. Select the "Division" from the list below.

DIVISION A - AGRICULTURE, FORESTRY & FISHING
DIVISION B - MINING
DIVISION C - CONSTRUCTION
DIVISION D - MANUFACTURING
DIVISION E - TRANSPORTATION, COMMUNICATIONS, ELECTRIC, GAS & SANITARY SVCS.
DIVISION F - WHOLESALE TRADE
DIVISION G - RETAIL TRADE
DIVISION H - FINANCE, INSURANCE & REAL ESTATE
DIVISION I - SERVICES
DIVISION J - PUBLIC ADMINISTRATION
DIVISION K - NONCLASSIFIABLE ESTABLISHMENTS

2. Check the sub-heading as set out under each "division" on the list.
3. Select the title under the sub-heading which best describes your business activity.
4. Write the four-digit number that appears in front of your selection in the space provided on your application.
5. Numbers ending with 99 will indicate "nec," which means "not elsewhere classified."
6. If the S.I.C. Code that describes your business is printed in bold italics, you must meet additional regulatory requirements. Please see the Instructions on the Alaska Business License Application.

DIVISION A. AGRICULTURE, FORESTRY, & FISHING

0100 Agricultural Production-Crops
- 0134 Potatoes
- 0160 Vegetables & Melons
- 0170 Fruits & Tree Nuts
- 0180 Horticultural Specialties
- 0190 General Farms

0200 Agricultural Production-Livestock
- 0211 Beef Cattle
- 0213 Hogs
- 0214 Sheep & Goats
- 0219 General Livestock
- 0240 Dairy Farms
- 0250 Poultry & Eggs
- 0270 Animal Specialties
- 0271 Fur Animals & Rabbits
- 0272 Horses & Other Equines

0700 Agricultural Services
- 0710 Soil Preparation Services
- 0729 Crop Services
- 0722 Crop Harvesting
- 0729 General Crop Services
- 0740 *Veterinary Services*
- 0741 *Veterinary Svcs. Farm Livestock*
- 0752 Animal Specialty Services
- 0780 Landscape & Horticultural Svcs.
- 0781 Landscape Counseling & Planning
- 0782 Lawn & Garden Services

0800 Forestry
- 0820 Forest Nurseries
- 0850 Forest Services

0900 Fishing, Hunting, & Trapping
- 0910 Fish Buyer
- 0911 *Commercial Fishing*
- 0912 Finfish
- 0913 Shellfish
- 0919 Misc. Marine Products
- 0920 Fish Hatcheries & Preserves
- 0970 Hunt. Trap, Game Propagation

DIVISION B. MINING

1000 Metal Mining
- 1010 Iron Ores
- 1020 Copper Ores
- 1030 Lead & Zinc Ores
- 1040 Gold & Silver Ores
- 1080 Metal Mining Services
- 1099 Metal Ores, nec.

1100 Anthracite Mining

1200 Bituminous Coal & Lignite Mining

1300 Oil & Gas Extraction
- 1310 Crude Petroleum & Natural Gas
- 1320 Natural Gas Liquids
- 1380 Oil & Gas Field Services
- 1381 Drilling Oil & Gas Wells
- 1382 Oil & Gas Exploration Services
- 1389 Oil & Gas Field Services, nec.

1400 Nonmetallic Minerals, Except Fuels
- 1410 Dimension Stone
- 1420 Crushed & Broken Stone
- 1440 Sand & Gravel
- 1450 Clay & Related Minerals
- 1470 Chemical & Fertilizer Minerals
- 1490 Misc. Nonmetallic Minerals
- 1499 Nonmetallic Minerals, nec.

DIVISION C. CONSTRUCTION

1500 *General Building Contractors*
- 1520 *Residential Bldg. Construction*
- 1522 *Residential Construction, nec.*
- 1530 *Operative Builders*
- 1540 *Nonresidential Bldg. Construction*
- 1542 *Nonresidential Construction, nec.*

1600 *Heavy Construction Contractors*
- 1610 *Highway & Street Construction*
- 1620 *Heavy Construction, Except Highway*
- 1622 *Bridge, Tunnel, & Elevated Highway*
- 1623 *Water, Sewer, & Utility Lines*
- 1629 *Heavy Construction, nec.*

1700 *Special Trade Contractors*
- 1710 *Plumbing, Heating, Air Conditioning*
- 1720 *Painting, Paper Hanging, Decorating*
- 1730 *Electrical Work*
- 1740 *Masonry, Stonework, & Plastering*
- 1750 *Carpentering & Flooring*
- 1751 *Carpentering*
- 1752 *Floor Laying & Floor Work, nec.*
- 1760 *Roofing & Sheet Metal Work*
- 1770 *Concrete Work*
- 1780 *Water Well Drilling*
- 1790 *Misc. Special Trade Contractors*
- 1799 *Special Trade Contractors, nec.*

DIVISION D. MANUFACTURING

2000 Food & Kindred Products
- 2010 Meat Products
- 2020 Dairy Products
- 2030 Preserved Fruits & Vegetables
- 2040 Grain Mill Products
- 2050 Bakery Products
- 2060 Sugar & Confectionary Products
- 2070 Fats & Oils
- 2080 Beverages
- 2082 Malt Beverages
- 2084 Wines, Brandy & Spirits
- 2085 Distilled Liquor, Except Brandy
- 2086 Bottled and Canned Soft Drinks
- 2087 Flavoring Extracts & Syrups, nec.
- 2090 Misc. Foods & Kindred Products
- 2091 Canned & Cured Seafoods
- 2092 Fresh or Frozen Packaged Fish
- 2097 Manufactured Ice
- 2099 Food Preparations, nec.

2100 Tobacco Manufacturers

2200 Textile Mill Products
- 2270 Floor Covering Mills
- 2280 Yarn & Thread Mills
- 2290 Misc. Textile Goods
- 2299 Textile Goods, nec

2300 Apparel & Other Textile Products
- 2380 Misc. Apparel & Accessories
- 2390 Misc. Fabricated Textile Products

2400 Lumber & Wood Products
- 2410 Logging Camps & Contractors
- 2420 Sawmills & Planning Mills
- 2430 Millwork, Plywood, Structural
- 2440 Wood Containers
- 2450 Wood Buildings & Mobile Homes
- 2451 Mobile Homes
- 2452 Prefabricated Wood Buildings
- 2490 Misc. Wood Products
- 2499 Wood Products, nec.

2500 Furniture & Fixtures
- 2510 Household Furniture
- 2520 Office Furniture
- 2540 Partitions & Fixtures
- 2590 Misc. Furniture & Fixtures
- 2599 Furniture & Fixtures, nec.

2600 Paper & Allied Products
- 2610 Pulp Mills
- 2620 Paper Mills, Except Bldg. Paper
- 2630 Paperboard Mills
- 2640 Misc. Converted Paper Products
- 2650 Paperboard Containers & Boxes
- 2660 Building Paper & Board Mills

2700 Printing & Publishing
- 2710 Newspapers
- 2720 Periodicals
- 2731 Book Publishing
- 2732 Book Printing
- 2740 Miscellaneous Publishing
- 2750 Commercial Printing
- 2760 Manifold Business Forms
- 2790 Printing Trade Services

2800 Chemicals and Like Products
- 2810 Industrial Inorganic Chemicals
- 2820 Plastics and Synthetics
- 2830 Drugs
- 2840 Soap, Cleaners, & Toilet Goods
- 2860 Industrial Organic Chemicals
- 2870 Agricultural Chemicals
- 2890 Misc. Chemicals Products

2900 Petroleum and Coal Products
- 2910 Petroleum Refining
- 2950 Paving & Roofing Material
- 2990 Misc. Petroleum & Coal Products

3000 Rubber & Misc. Plastics Products
- 3070 Misc. Plastics Products

3100 Leather and Leather Products
- 3110 Leather Tanning and Finishing
- 3130 Boot & Shoe Cut Stock & Findings
- 3140 Footwear, Except Rubber
- 3150 Leather Gloves & Mittens
- 3170 Handbags & Personal Leather Goods
- 3199 Leather Goods, nec.

3200 Stone, Clay, and Glass Products
- 3260 Pottery and Related Products
- 3270 Concrete Gypsum & Plaster Products
- 3280 Cut Stone & Stone Products
- 3299 Nonmetallic Mineral Products, nec.

3300 Primary Metal Industries

3400 Fabricated Metal Products

3500 Machinery, Except Electrical

3600 Electric and Electronic Equipment

3700 Transportation Equipment
- 3710 Motor Vehicles & Equipment
- 3720 Aircraft & Parts
- 3730 Ship & Boat Building & Repairing
- 3750 Motorcycles, Bicycles, & Parts
- 3790 Misc. Transportation Equipment
- 3792 Travel Trailers & Campers

3800 Instruments and Related Products

3900 Miscellaneous Manufacturing Industries
- 3910 Jewelry, Silverware, & Plated Ware
- 3911 Jewelry, Precious Metal
- 3915 Jewelers' Materials & Lapidary Work
- 3930 Musical Instruments
- 3940 Toys & Sporting Goods
- 3960 Costume Jewelry & Notions
- 3990 Misc. Manufactures

DIVISION E. TRANSPORTATION & PUBLIC UTILITIES

4000 Railroad Transportation

4100 Local & Interurban Passenger Transit
- 4110 Local & Suburban Transportation
- 4120 Taxicabs
- 4130 Intercity Highway Transportation
- 4140 Transportation Charter Service
- 4151 School Buses
- 4170 Bus Terminal & Service Facilities

4200 Trucking & Warehousing
- 4210 Trucking, Local & Long Distance
- 4220 Public Warehousing
- 4230 Trucking Terminal Facilities

4300 U.S. Postal Service

4400 Water Transportation
- 4410 Deep Sea Foreign Transportation
- 4420 Deep Sea Domestic Transportation
- 4450 Local Water Transportation
- 4454 Towing & Tugboat Service
- 4459 Local Water Transportation, nec.
- 4460 Water Transportation Services
- 4463 Marine Cargo Handling
- 4469 Water Transportation Svcs., nec.

4500 Air Transportation
- 4510 Certificated Air Transportation
- 4520 Noncertificated Air Transportation
- 4580 Air Transportation Services
- 4582 Airports & Flying Fields
- 4583 Airport Terminal Services

4600 Pipelines, Except Natural Gas
- 4610 Pipelines, Except Natural Gas
- 4612 Crude Petroleum Pipelines
- 4613 Refined Petroleum Pipelines
- 4619 Pipelines, nec.

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4700 Transportation Services
- 4712 Freight Forwarding
- 4720 Transportation Arrangement
- 4780 Misc. Transportation Services

4800 Communication
- 4810 Telephone Communication
- 4820 Telegraph Communication
- 4832 Radio Broadcasting
- 4833 TV Broadcasting
- 4899 Communication Service, nec.

4900 Electric, Gas & Sanitary Services
- 4911 Electric Services
- 4920 Gas Production & Distribution
- 4930 Combination Utility Services
- 4940 Water Supply
- 4950 Sanitary Services
- 4952 Sewerage Systems
- 4953 Refuse Systems

DIVISION F. WHOLESALE TRADE

5000 Wholesale Trade Durable Goods
- 5010 Motor Vehicles & Auto Equipment
- 5013 Automotive Parts & Supplies
- 5014 Tires & Tubes
- 5020 Furniture & Home furnishings
- 5030 Lumber & Construction Materials
- 5040 Sporting Goods, Toys & Hobby Goods
- 5060 Electrical Goods
- 5070 Hardware, Plumbing & Heating Equip.
- 5080 Machinery, Equipment, & Supplies
- 5090 Misc. Durable Goods
- 5094 Jewelry, Watches, & Precious Stones
- 5099 Durable Goods, nec.

5100 Wholesale Trade-Nondurable Goods
- 5110 Paper & Paper Products
- 5122 Drugs, Proprietaries, & Sundries
- 5130 Apparel, Piece Goods, & Notions
- 5140 Groceries & Related Products
- 5150 Farm-Products Raw Materials
- 5160 Chemicals & Allied Products
- 5170 Petroleum & Petroleum Products
- 5180 Beer, Wine, & Distilled Beverages
- 5190 Misc. Nondurable Goods

DIVISION G. RETAIL TRADE

5200 Building Materials & Garden Supplies
- 5210 Lumber & Other Building Materials
- 5230 Paint, Glass, & Wallpaper Stores
- 5250 Hardware Stores
- 5260 Retail Nurseries & Garden Stores
- ***5270 Mobile Home Dealers***

5300 General Merchandise Stores
- 5310 Department Stores
- 5330 Variety Stores
- 5399 Misc. General Merchandise Stores

5400 Food Stores
- 5410 Grocery Stores
- 5420 Meat Markets & Freezer Provisioners
- 5430 Fruit Stores & Vegetables Markets
- 5440 Candy, Nut & Confectionary Stores
- 5450 Dairy Products Stores
- 5460 Retail Bakeries
- 5499 Misc. Food Stores

5500 Automotive Dealers & Service Stations
- ***5510 New & Used Car Dealers***
- ***5520 Used Car Dealers***
- 5530 Auto & Home Supply Stores
- 5540 Gas Service Stations
- 5550 Boat Dealers
- ***5560 Recreation and Utility Trailer Dealers***
- ***5570 Motorcycle Dealers***

5600 Apparel & Accessory Stores
- 5610 Men's & Boy's Clothing & Furnishings
- 5620 Women's Ready to Wear Stores
- 5630 Women's Accessory & Specialty Stores
- 5640 Children's & Infants' Wear Stores
- 5650 Family Clothing Stores
- 5660 Shoe Stores
- 5680 Furriers & Fur Shops
- 5699 Misc. Apparel & Accessories

5700 Furniture & Home Furnishings Stores
- 5712 Furniture Stores
- 5713 Floor Covering Stores
- 5714 Drapery & Upholstery Stores
- 5719 Misc. Home Furnishing Stores
- 5722 Household Appliance Stores
- 5730 Radio, Television, & Music Stores

5800 Eating & Drinking Places
- 5812 Eating Places
- 5813 Drinking Places

5900 Miscellaneous Retail
- ***5912 Drug & Proprietary Stores***
- 5920 Liquor Stores
- 5930 Used Merchandise Stores
- 5940 Misc. Shopping Goods Stores
- 5941 Sporting Goods & Bicycle Shops
- 5942 Book Stores
- 5943 Stationery Stores
- 5944 Jewelry Stores
- 5945 Hobby, Toy, & Game Shops
- 5946 Camera, & Photographic Supply Stores
- 5947 Gift, Novelty, & Souvenir Shops
- 5948 Luggage & Leather Goods Stores
- 5949 Sewing, Needlework, & Piece Goods
- 5960 Nonstore Retailers
- 5961 Mail Order Houses
- 5963 Direct Selling Organizations
- 5983 Fuel Oil Dealers
- 5984 Liquefied Petroleum Gas Dealers
- 5992 Florists
- 5993 Cigar Stores & Stands
- 5994 News Dealers & Newsstands
- 5999 Misc. Retail Stores, Nec.

DIVISION H. FINANCE, INSURANCE, & REAL ESTATE

6000 Banking
- 6010 Federal Reserve Banks
- 6020 Commercial & Stock Savings Banks
- 6022 State Banks, Federal Reserve
- 6025 National Banks, Federal Reserve
- 6030 Mutual Savings Banks
- 6040 Trust Companies, Nondeposit
- 6050 Functions Closely Related to Banking

6100 Credit Agencies Other Than Banks
- 6110 Rediscount & Financing Institutions
- 6120 Savings & Loan Associations
- 6130 Agricultural Credit Institutions
- 6140 Personal Credit Institutions
- 6150 Business Credit Institutions
- 6160 Mortgage Bankers & Brokers

6200 Security, Commodity Brokers & Services

6300 Insurance Carriers
- 6310 Life Insurance
- 6320 Medical Service & Health Insurance
- 6330 Fire, Marine, & Casualty Insurance
- 6350 Surety Insurance
- 6360 Title Insurance
- 6370 Pension, Health, & Welfare Funds
- 6390 Insurance Carriers, nec.

6400 Insurance Agents, Brokers & Service

6500 Real Estate
- 6510 Real Estate Operators & Lessors
- 6512 Nonresidential Building Operators
- 6513 Apartment Building Operators
- 6514 Dwelling Operators, exc. Apt.
- 6515 Mobile Home Site Operators
- ***6530 Real Estate Agents Managers***
- 6540 Title Abstract Offices
- 6550 Subdividers & Developers

6600 Combined Real Estate, Insurance, etc

6700 Holding & Other Investment Offices
- 6710 Holding Offices
- 6720 Investment Offices
- 6730 Trusts
- 6790 Misc. Investing

DIVISION I. SERVICES

7000 Hotels, & Other Lodging Places
- 7010 Hotels, Motels, & Tourist Courts
- 7020 Rooming & Boarding Houses
- 7030 Camps & Trailer Parks

7200 Personal Services
- 7210 Laundry, Cleaning, & Garment Svcs.
- 7215 Coin-op Laundry & Cleaning
- 7216 Dry Cleaning Plants, except Rug
- 7217 Carpet & Upholstery Cleaning
- 7220 Photo Studios, Portrait
- ***7230 Beauty Shops***
- ***7240 Barber Shops***
- 7250 Shoe Repair
- 7260 Funeral Service & Crematories
- 7299 Misc. Personal Services

7300 Business Services
- 7310 Advertising
- ***7320 Credit Reporting & Collection***
- 7330 Mailing, Reproduction, Steno
- 7333 Commercial Photography & Art
- 7340 Services to Buildings
- 7341 Window Cleaning
- 7342 Disinfecting & Exterminating
- 7349 Building Maintenance Svcs, nec.
- 7350 News Syndicates
- 7360 Personnel Supply Services
- 7370 Computer & Data Processing Svcs.
- 7390 Misc. Business Services
- 7392 Management & Public Relations
- 7393 Detective & Protective Services
- 7394 Equipment Rental & Leasing
- 7395 Photofinishing Labs
- 7399 Business Services, Nec.

7500 Auto Repair, Services & Garages
- 7512 Passenger Car Rental & Leasing
- 7513 Truck Rental & Leasing
- 7520 Automobile Parking
- 7530 Auto Repair Shops
- 7540 Auto Services, except Repair
- 7542 Car Washes

7600 Misc. Repair Services
- 7620 Electrical Repair Shops
- 7622 Radio & TV Repair
- 7630 Watch, Clock, & Jewelry Repair
- 7640 Reupholstery & Furniture Repair
- 7690 Misc. Repair Shops
- 7692 Welding Repair

7800 Motion Pictures
- 7810 Motion Picture Production & Services
- 7813 Motion Picture Production, except TV
- 7814 Motion Picture Production for TV
- 7819 Services Allied to Motion Pictures
- 7820 Motion Picture Dist. & Services
- 7830 Motion Picture Theaters
- 7833 Drive-In Motion Picture Theaters

7900 Amusement & Recreation Services
- 7910 Dance Halls, Studios, & Schools
- 7920 Producers, Orchestras, Entertainers
- 7929 Entertainers & Entertainment Groups
- 7932 Billiard, Pool Establishments
- 7933 Bowling Alleys
- 7940 Commercial Sports
- ***7990 Misc. Amusement, Recreational Svcs.***
- 7993 Coin-op Amusement Devices

8000 Health Services
- ***8010 Offices of Physicians***
- ***8020 Offices of Dentists***
- ***8030 Offices of Osteopathic Physicians***
- 8040 Offices of Other Health Practitioners
- ***8041 Offices of Chiropractors***
- ***8042 Offices of Optometrists***
- 8049 Offices of Health Practitioners, nec
- ***8050 Nursing & Personal Care Facilities***
- 8060 Hospitals
- 8062 General Medical & Surgical Hospitals
- 8063 Psychiatric Hospitals
- 8069 Specialty Hospitals, exc. Psych
- 8070 Medical & Dental Laboratories
- 8071 Medical Laboratories
- 8072 Dental Laboratories
- 8080 Outpatient Care Facilities
- 8090 Health & Allied Services, nec

8100 Legal Services

8200 Educational Services
- 8210 Elementary & Secondary Schools
- 8220 Colleges & Universities
- 8230 Libraries & Information Centers
- 8241 Correspondence Schools
- 8243 Data Processing Schools
- 8244 Business & Secretarial Schools
- 8249 Vocational Schools, nec.

8300 Social Services
- 8320 Individual & Family Services
- 8330 Job Training & Related Services
- 8350 Child Day Care Services
- 8399 Social Services, nec.

8400 Museums, Botanical, Zoological Gardens

8600 Membership Organizations
- 8610 Business Associations
- 8620 Professional Associations
- 8630 Labor Organizations
- 8640 Civic & Social Associations
- 8650 Political Organizations
- 8660 Religious Organizations

8800 Private Households

8900 Miscellaneous Services
- ***8910 Engineering & Architectural Svcs.***
- 8920 Noncommercial Research Organizations
- 8930 Accounting, Auditing & Bookkeeping
- 8999 Services, nec.

DIVISION J. PUBLIC ADMINISTRATION

9100 Executive Legislative, & General

9200 Justice, Public Order, & Safety

9300 Finance, Taxation & Monetary Policy

9400 Administration of Human Resources

9500 Environmental Quality & Housing

9600 Administration of Economic Programs

9700 National Security & Intl. Affairs

DIVISION K. NONCLASSIFIABLE ESTABLISHMENTS

9900 Nonclass Establishments

APPENDIX D

NIKISKI INDUSTRIAL AREA WATER-USE DATA

Appendix D. Nikiski Industrial area water-use data.

		1992			JANUARY				
NAME	WELL	YEARLY AVG. GPD	MAX. MONTH	MIN. MONTH	JANUARY AVG. GPD	MAX DAY	MAX. AVG. GPD	MIN DAY	MIN. AVG. GPD
CHEVRON	1	<500			<500				
	2	<500			<500				
	3	<500			<500				
	4	~60,000			~60,000				
CHUGACH ELECTRIC	1								
	2	150			150				
	3	150			150				
COOK INLET PROCESSING, INC.	1	66,593			66,593				
	2								
KENAI PIPELINE	1	<500			<500				
	2								
	3								
OFFSHORE SYSTEMS	1	87,962			77,419				
	2	< 500			< 500				
PHILLIPS PETROLEUM CO.	1								
	2								
	3	333,988	JUL	SEP	320,735	14	364,714	7	220,320
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000			? 1,000				
	2	? 500			? 500				
	3	? 500			? 500				
	4	? 500			? 500				
	5	NA			NA		NA		NA
	6								
	?	< 500			< 500				
SHELL WESTERN	1	< 500							
	2	< 100							
TESORO	1	67,321	DEC	JAN	0				
	2	446,767	JUN	MAY	426,265	9	495,200	6	337,710
UNOCAL	1	707,951	JUL	AUG	720,065	22	793,000	10	632,000
	5B	(Metered with well #1)							
	6	382,910	SEP	JUN	324,742	26	387,000	23	157,000
	7P	1,377,801	JAN	AUG	1,488,452	23	1,708,000	14	1,336,000
	10	0			0		0		0
	12	(Metered with well #10)							
	14	(Metered with well #10)							
	15	(Metered with well #7P)							
	16	(Metered with well #7P)							

Appendix D. (continued)

		FEBRUARY 1992				
NAME	WELL	FEBRUARY AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	79,414				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	314,286	11	342,857	18	255,714
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	7	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	462	1	6,800	2	0
	2	382,159	1	447,700	28	307,100
UNOCAL	1	690,552	23	737,000	15	564,000
	5B	(Metered with well #1)				
	6	395,448	29	609,000	2	235,000
	7P	1,477,069	17	1,622,000	1	1,268,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

		MARCH 1992				
NAME	WELL	MARCH AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1					
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	313,514	18	389,143	9	277,571
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	935	26	29,000	1	0
	2	388,097	20	448,700	19	334,600
UNOCAL	1	725,161	5	1,205,000	31	552,000
	5B	(Metered with well #1)				
	6	376,742	7	519,000	1	222,000
	7P	1,439,548	2	1,612,000	5	1,318,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

APRIL 1992

NAME	WELL	APRIL AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	95,931				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	334,426	21	397,286	13	277,571
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	7	< 500				
SHELL WESTERN	1					
	2					
TESORO	1	0				
	2	419,607	16	502,900	5	365,100
UNOCAL	1	736,200	23	849,000	3	432,000
	5B	(Metered with well #1)				
	6	374,967	9	475,000	6	260,000
	7P	1,385,800	22	1,548,000	16	1,294,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

		MAY 1992				
NAME	WELL	MAY AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	127,656				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	398,783	25	457,143	4	375,571
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	487	21	14,400	1	0
	2	377,174	27	506,400	21	189,300
UNOCAL	1	685,484	3	916,000	30	336,000
	5B	(Metered with well #1)				
	6	362,774	28	515,000	4	275,000
	7P	1,430,226	29	1,656,000	2	1,253,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

JUNE 1992

NAME	WELL	JUNE AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	146,885				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	393,257	16	525,286	8	311,167
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	14,510	29	411,300	1	0
	2	499,530	6	576,200	28	344,300
UNOCAL	1	772,100	18	909,000	1	411,000
	5B	(Metered with well #1)				
	6	290,900	1	512,000	14	71,000
	7P	1,374,467	1	1,594,000	20	1,150,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

		JULY 1992				
NAME	WELL	JULY AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	147,958				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	447,928	13	489,857	21	424,571
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	1,355	23	42,000	1	0
	2	488,542	1	576,900	23	430,000
UNOCAL	1	776,097	16	872,000	31	636,000
	5B	(Metered with well #1)				
	6	343,290	28	427,000	6	107,000
	7P	1,291,677	30	1,466,000	4	1,143,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

AUGUST 1992

NAME	WELL	AUGUST AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	83,540				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	436,514	1	1,079,333	28	265,231
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	7	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	65	30	1,000	1	0
	2	469,413	6	606,600	23	379,300
UNOCAL	1	523,516	5	749,000	2	650,000
	5B	(Metered with well #1)				
	6	411,484	19	668,000	22	39,000
	7P	1,213,323	26	1,838,000	12	765,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

		SEPTEMBER 1992				
NAME	WELL	SEPTEMBER AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	55,949				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	163,390	4	266,714	30	0
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	4,680	29	47,600	1	0
	2	491,263	23	540,700	2	325,400
UNOCAL	1	737,767	17	828,000	12	636,000
	5B	(Metered with well #1)				
	6	506,233	23	586,000	27	441,000
	7P	1,241,933	30	1,378,000	28	1,060,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

		OCTOBER 1992				
NAME	WELL	OCTOBER AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	55,877				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	220,265	12	359,143	1	0
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	19,387	14	229,366	4	0
	2	479,345	5	958,700	6	0
UNOCAL	1	738,742	10	836,000	28	644,000
	5B	(Metered with well #1)				
	6	392,935	9	535,000	21	273,000
	7P	1,422,742	7	1,770,000	31	1,224,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

NOVEMBER 1992

NAME	WELL	NOVEMBER AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	49,543				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	273,452	9	367,429	25	194,300
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	953	20	27,900	2	0
	2	488,460	30	536,600	2	429,500
UNOCAL	1	746,967	18	924,000	20	456,000
	5B	(Metered with well #1)				
	6	376,600	19	552,000	1	207,000
	7P	1,332,133	17	1,623,000	8	1,113,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

Appendix D. (continued)

		DECEMBER 1992				
NAME	WELL	DECEMBER AVG. GPD	MAX. DAY	MAX. AVG. GPD	MIN. DAY	MIN. AVG. GPD
CHEVRON	1	<500				
	2	<500				
	3	<500				
	4	~60,000				
CHUGACH ELECTRIC	1					
	2	150				
	3	150				
COOK INLET PROCESSING, INC.	1	66,593				
	2					
KENAI PIPELINE	1	<500				
	2					
	3					
OFFSHORE SYSTEMS	1	59,929				
	2	< 500				
PHILLIPS PETROLEUM CO.	1					
	2					
	3	329,387	2	671,500	15	217,714
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	? 1,000				
	2	? 500				
	3	? 500				
	4	? 500				
	5	NA		NA		NA
	6					
	?	< 500				
SHELL WESTERN	1	< 500				
	2	< 100				
TESORO	1	31,681	29	325,600	1	0
	2	407,555	5	504,600	25	215,000
UNOCAL	1	646,839	23	870,000	10	454,000
	5B	(Metered with well #1)				
	6	440,161	15	595,000	9	340,000
	7P	1,436,935	19	1,626,000	30	1,245,000
	10	0		0		0
	12	(Metered with well #10)				
	14	(Metered with well #10)				
	15	(Metered with well #7P)				
	16	(Metered with well #7P)				

APPENDIX E

WELL DATA FOR NIKISKI INDUSTRIAL AREA WATER-USE

Appendix E. Well data for Nikiski area industrial water-use.

NAME	WELL	USGS NUMBER	DEC ID.	WATER RIGHTS No.	DATE	WELL DEPTH	WELL DIA.	SWL	GPM	SIZE SCREEN	SCREENED INTERVAL	USE TYPE
CHEVRON	1	SB 7-12-16 DCAB 1-03	241729 C	ADL 40432	5-28-62	176	6	124	90	.014	156-166	
										.010	166-176	INDUSTRIAL
	2	SB 7-12-16 DCAB 2-03	241729 C	ADL 40435	7-11-62	169	6	124	90	.014	149-159	
										.010	159-169	INDUSTRIAL
	3	SB 7-12-16 DCAA 1-05	241729 C		8-08-62	170	6	124	50	.014	150-160	
										.010	160-170	INDUSTRIAL
	4	SB 7-12-16 DBCD	241729 C		10-27-82	260	6	123	180	.015	230-240	INDUSTRIAL
										.010	240-260	
CHUGACH ELECTRIC	1	SB 7-12-16 DCAA 2-05	212576 C	ADL 40432	11-08-62	174	12	122	60			COMMERCIAL
	2	SB 7-12-16 DDBB 1-07	212576 C	ADL 40432	11-08-62	174	6	123	63			COMMERCIAL
	3	SB 7-12-16 DBDD 1-08	212576 C	ADL 40432	1-22-65	182	10	124	175	.010	162-172	
										.014	172-182	COMMERCIAL
COOK INLET	1	SB 7-12-01 ACCB 1-07		LAS 6640	5-14-78	140			70	10' STAINLESS		COMMERCIAL
PROCESSING, INC.	2	SB 7-12-01 ACCB	241826 B	LAS 11223	5-04-84	168			100	YES	158-168	COMMERCIAL
KENAI PIPELINE	1	SB 7-12-16 ADBB 1-07		ADL 40250	5-31-61	260	6	40.4	60	.020	79-87	
										PERF.	201-208	
										OPEN H.	240-260	INDUSTRIAL
	2	SB 7-12-21 ABDC 1-06		ADL 40250	2-00-61	87	6	36.9		PERF.	82-87	ABANDONED
	3	SB 7-12-21 ABBB 2-07			67	79	6	39	70	.020	69-79	INDUSTRIAL
OFFSHORE SYSTEM	1	SB 8-12-36 CAAA PAD 3	244997 B	NONE	5-16-68	162	8	101	535	.035	139-154	COMMERCIAL
	2	SB 8-12-36 CAAD	244997 B	NONE	6-11-91	186	8	101	550	.030	161-166	COMMERCIAL
										.025	166-171	
										.020	171-181	
										.018	181-186	
	4	SB 8-12-36 ACCD PAD 2	245008 C	OFFICE WELL	12-12-66	41	6	NA	20	PERF.	15-18	COMMERCIAL
PHILLIPS	1	SB 7-12-22 CBAA 2-02	240969 B	ADL 42983	<68	215	12	40	700	.036	125-133	INDUSTRIAL
PETROLEUM CO.								58		.018	133-143	
										.036	143-145	
										.065	145-148	
										.035	148-150	
										.018	160-180	
										.018	205-215	
	2	SB 7-12-22 CBBD 2-05	240969 B	ADL 42983	<68	254	12	45	450	PERF.	196-210	INDUSTRIAL
										PERF.	216-220	
										PERF.	226-230	
										PERF.	249-254	
	3	SB 7-12-22 CBBD 3-05	240969 B	ADL 42983	5-00-69	308	12	28	700	.080	289-294	
										.010	294-305	
										.080	305-308	
PUGET SOUND TUG	1	SB 7-12-21 ACBB 1-03	244696 B	ADL 40387	67	70	6	11	135			COMMERCIAL
AND BARGE CO.	2	SB 7-12-21 ACBB 2-03	244395 C	ADL 40387	67	60	12	26	200			COMMERCIAL
(Rig Tenders)	3	SB 7-12-21 ABCC 1-14	244400 C	ADL 40387	67	46	10	15	100			ABANDONED
	4	SB 7-12-21 ABCC 2-14		ADL 40387	67	56	10	18				ABANDONED

NAME	WELL	USGS NUMBER	DEC ID.	WATER RIGHTS No.	DATE	WELL DEPTH	WELL DIA.	SWL	GPM	SIZE SCREEN	SCREENED INTERVAL	USE TYPE

Appendix E. (continued)

NAME	WELL	USGS NUMBER	DEC ID.	WATER RIGHTS No.	DATE	WELL DEPTH	WELL DIA.	SWL	GPM	SIZE SCREEN	SCREENED INTERVAL	USE TYPE
PUGET SOUND TUG AND BARGE CO. (Rig Tenders) (con't)	5	SB 7-12-21 ABCD 1-05	241371 A	ADL 42979	10-25-67	158	10	42	625	PACKER	103-104	
										.050	104-106	
										.020	106-117	
										.020	117-127	
										.020	127-137	
										.012	137-147	
										.012	147-158	COMMERCIAL
	6	SB 7-12-21 ACBA 1-04		ADL 42979	10-25-67	152	10	54	285	PACKER	123-123+	
										.050	123+-133	
										.016	133-152	COMMERCIAL
	?	SB 7-12-21 ABBC 1-02		ADL 40295	<78	272						DOMESTIC
SHELL WESTERN	1	SB 8-12-34 DCDB		LAS 12420	89					INCINERATOR		COMMERCIAL
	2	SB 8-12-34 DDDB 1-01	244832 C		11-10-65	156	6	137	25	.030	146-156	DOMESTIC
TESORO	1	SB 7-12-22 BCAA 2-09	NA	ADL 42906	3-18-69	140	12	50	525	.040	92-102	INDUSTRIAL
										.010	120-124	
										.018	124-126	
										.035	126-129	
										.040	130-134	
										.012	134-140	
	2	SB 7-12-22 BDAB 2-08	NA	ADL 42906	69	119	10	62.5	305		110-119	INDUSTRIAL
UNOCAL	1	SB 7-12-21 DDBC 2-08	240919 B	ADL 78075	5-06-77	371	16	110	4000	.180	340-370	INDUSTRIAL
	5B	SB 7-12-22 CCCA	240919 B	ADL 78075								
	6	SB 7-12-21 ADDD 2-09	240919 B	ADL 78075	8-00-76	160	16	61.8	1200	.125	101-136	INDUSTRIAL
				ADL 203480						.035	136-151	INDUSTRIAL
	7P	SB 7-12-26 BAAA 8-03	240919 B	ADL 42514 ADL 78075 ADL 211142	74	157	16	27	1400		132-157	INDUSTRIAL
	10	SB 7-12-26 BADD	240919 B	ADL 42514	6-16-67	75	16	15	1250	.070	39-47	INDUSTRIAL
										.050	57-62	
										.015	62-72	
										.030	72-75	
	12	SB 7-12-26 BADB 1-01	240919 B	ADL 42514	6-24-67	68	16	27	725	.050	48-62	INDUSTRIAL
										.070	62-64	
										.100	64-68	
	14	SB 7-12-26 BAAA	240919 B	ADL 42514	6-14-67	92?	16	8	NA	UNCONFINED AQ.		INDUSTRIAL
	15	SB 7-12-26 BAAB	240919 B	ADL 42514 ADL 78075 ADL 211142	1-15-82	160	8	66.5	300	.025	117-145	INDUSTRIAL
	16	SB 7-12-23 CDDC	240919 B	ADL 42514 ADL 78075 ADL 211142	10-21-82	136	10	65	520	.100	110-136	INDUSTRIAL

NAME	WELL	USGS NUMBER	DEC ID.	WATER RIGHTS No.	DATE	WELL DEPTH	WELL DIA.	SWL	GPM	SIZE SCREEN	SCREENED INTERVAL	USE TYPE

Appendix E. (continued)

NAME	WELL	USGS NUMBER	AQ.	USE TYPE	REMARKS	CONTACT PERSON	PHONE NUMBER	AVERAGE YEARLY GPD
CHEVRON	1	SB 7-12-16 DCAB 1-03	LC?	DOMESTIC	DRINKING WATER ONLY	GENE JACKSON	776-8711	<500
	2	SB 7-12-16 DCAB 2-03	LC?	DOMESTIC	LAB, EMERGENCY B.U.			<500
	3	SB 7-12-16 DCAA 1-05	LC?	DOMESTIC	SHOP, EMERGENCY B.U.			<500
	4	SB 7-12-16 DBCD	LC	INDUSTRIAL	STEAM BOILER			~60,000
CHUGACH ELECTRIC	1	SB 7-12-16 DCAA 2-05	LC?	DOMESTIC	ABANDONED -'64 QUAKE	GLENN DAVIDSON	776-8467	~150
	2	SB 7-12-16 DDBB 1-07	LC	DOMESTIC	USE CHEV. CONDENSATE	CARL HARMON	762-4739	~150
	3	SB 7-12-16 DBDD 1-08	LC	DOMESTIC	FOR NOX SCRUBBING AND ATOMIZING			~150
COOK INLET PROCESSING, INC.	1	SB 7-12-01 ACCB 1-07	LC?	COMMERCIAL	FISH PROCESSING		776-8174	66,593
	2	SB 7-12-01 ACCB	LC?	COMMERCIAL	FISH PROCESSING			
KENAI PIPELINE	1	SB 7-12-16 ADBB 1-07	UC? LC? DC?	DOMESTIC	POTABLE USES	GENE JACKSON	776-8711	<500
	2	SB 7-12-21 ABDC 1-06	UC?	DOMESTIC	ABANDONED?			
	3	SB 7-12-21 ABBB 2-07	UC?	DOMESTIC	RESIDENCE			
OFFSHORE SYSTEM	1	SB 8-12-36 CAAA PAD 3	UC?	COMMERCIAL	BARGED TO PLATFORMS	FRED NEWTON	776-5551	93,372
	2	SB 8-12-36 CAAD	UC?		UNKNOWN USE			
	4	SB 8-12-36 ACCD PAD 2	UNC	DOMESTIC	WATER TO OFFICE			~500
PHILLIPS PETROLEUM CO.	1	SB 7-12-22 CBAA 2-02	UC UC UC UC UC UC LC	INDUSTRIAL	LNG PLANT ON STANDBY BECAUSE OF POTENTIAL CONTAMINATION T=40,000 GPD/FT S=.0008	FRITZ (LESLIE) KRUSEN	776-8166	
	2	SB 7-12-22 CBBD 2-05	UC UC UC LC	INDUSTRIAL	ON STANDBY BECAUSE OF POTENTIAL CONTAMINATION			
	3	SB 7-12-22 CBBD 3-05	LC LC LC	INDUSTRIAL	CURRENTLY USED			329,319
PUGET SOUND TUG AND BARGE CO. (Rig Tenders)	1	SB 7-12-21 ACBB 1-03	UNC	COMMERCIAL	RIG TENDERS WELL #1	DAN; LEE McCOY	776-8880	1,000?
	2	SB 7-12-21 ACBB 2-03	UNC	COMMERCIAL	RIG TENDERS WELL #2			500?
	3	SB 7-12-21 ABCC 1-14	UNC	COMMERCIAL	RIG TENDERS WELL #3			500?
	4	SB 7-12-21 ABCC 2-14	UNC	COMMERCIAL	RIG TENDERS WELL #4			500?

NAME	WELL	USGS NUMBER	AQ.	USE TYPE	REMARKS	CONTACT PERSON	PHONE NUMBER	AVERAGE YEARLY GPD

Appendix E. (continued)

NAME	WELL	USGS NUMBER	AQ.	USE TYPE	REMARKS	CONTACT PERSON	PHONE NUMBER	AVERAGE YEARLY GPD
PUGET SOUND TUG AND BARGE CO. (con't.)	5	SB 7-12-21 ABCD 1-05	UC UC UC UC UC UC UC	COMMERCIAL SUPPLY COOK INLET PLATFORMS	R. T.'S MAIN WELL, USGS R. T.'S WELL #5. LOCATED ON KENAI PIPELINE PROPERTY, BUT MAINTAINED BY PUGET SOUND TUG & BARGE.			NA
	6	SB 7-12-21 ACBA 1-04	UC UC UC	COMMERCIAL	ABANDONED? LOCATED ON KENAI PL. LAND, P.S.T.& B. MAINTND.			
	?	SB 7-12-21 ABBC 1-02	LC	DOMESTIC	COMPANY RESIDENCE			100
SHELL WESTERN	1	SB 8-12-34 DCDB	?	COMMERCIAL	INCINERATOR COOLING	LUKE FRANKLIN	263-9617	<500
	2	SB 8-12-34 DDDB 1-01	UC?	DOMESTIC	COMPANY RESIDENCES		776-8473	<100
TESORO	1	SB 7-12-22 BCAA 2-09	UC UC UC UC UC UC	INDUSTRIAL	WELL #1, BACKUP	DAMON KING	776-8191	6,254
	2	SB 7-12-22 BDAB 2-08	UC	INDUSTRIAL	MAIN WELL, #2			443,105
UNOCAL	1	SB 7-12-21 DDBC 2-08	LC	INDUSTRIAL	WELL #1, TANIC ACID	MIKE GAHR	776-8121	707,951
	5B	SB 7-12-22 CCCA	LC	INDUSTRIAL	WELL #5B, TANIC ACID			SEE WELL 1
	6	SB 7-12-21 ADDD 2-09	UC UC	INDUSTRIAL	WELL #6, PLUME NEAR METERED UNIQUELY			382,910
	7P	SB 7-12-26 BAAA 8-03	UC UC UC	INDUSTRIAL DRINKING	WELL #7P, CABIN LAKE WELLS 7P, 15, & 16 METERED TOGETHER			1,377,801
	10	SB 7-12-26 BADD	UNC UNC UNC UNC	INDUSTRIAL	WELL #10, HIGH IRON WELLS 10, 12, & 14 METERED TOGETHER, SYSTEM CONNECTED			0
	12	SB 7-12-26 BADB 1-01	UNC UNC UNC	INDUSTRIAL	WELL #12, HIGH IRON WELLS 10, 12, & 14 EMERGENCY BACKUP			SEE WELL 10
	14	SB 7-12-26 BAAA	UNC	INDUSTRIAL	WELL #14, HIGH IRON			SEE WELL 10
	15	SB 7-12-26 BAAB	UC UC UC	INDUSTRIAL DRINKING	WELL #15, BACKUP TO WELL 7P			SEE WELL 7P
	16	SB 7-12-23 CDDC	UC UC UC	INDUSTRIAL DRINKING	WELL #16, BACKUP TO WELL 7P			SEE WELL 7P

NAME	WELL	USGS NUMBER	AQ.	USE TYPE	REMARKS	CONTACT PERSON	PHONE NUMBER	AVERAGE YEARLY GPD

APPENDIX F

CROSS REFERENCE OF FILE NUMBER TO FACILITY NAME AND WATER SOURCE

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FILE NUMBER		FACILITY NAME	WATER SOURCE
ADL	39747	Kodiak, City of	Pillar Creek
ADL	39829	Cook Inlet Processing	Well
ADL	39835	Port Lions, City of	Branchwater Creek
ADL	39886	Chugach Electric	Cooper Lake
ADL	39936	Seward, City of	Ft. Raymond Well #1
ADL	39936	Seward, City of	Ft. Raymond Well #3
ADL	39936	Seward, City of	Ft. Raymond Well #4
ADL	39936	Seward, City of	Ft. Raymond Well #5
ADL	40315	Soldotna, City of	Well B
ADL	42514	UNOCAL Chemicals Division	Well 7, 15, and 16
ADL	42595	King Cove, City of	Ram Creek
ADL	42906	Tesoro Alaska Petroleum	Well 1
ADL	42906	Tesoro Alaska Petroleum	Well 2
ADL	42983	Phillips Petroleum Co.	PW 3, 264' Well
ADL	42993	Nome, City of	Moonlight Springs - Anvil Mt.
ADL	42993	Nome, City of	Moonlight Springs - Beltz H.S.
ADL	42993	Nome, City of	Moonlight Springs - FAA
ADL	42993	Nome, City of	Moonlight Springs - Nat'l Guard
ADL	42993	Nome, City of	Moonlight Springs - WTP
ADL	43340	Yakutat, City of	Back-up (ARCO) Well
ADL	43340	Yakutat, City of	Main Well, A, 325'
ADL	44121	Saxman, City of	Saxman Creek
ADL	44439	Juneau, City and Borough	Wells 1, 2, 4, 5 & 3 Bypass
ADL	44626	Anchorage Water & Wastewater Utl.	Girdwood Wells
ADL	44626	Anchorage Water & Wastewater Utl.	Well # 3, 3rd Ave.
ADL	44626	Anchorage Water & Wastewater Utl.	Well # 4, Commercial Drive
ADL	45780	Alaska Electric Light & Power	Salmon Creek
ADL	46054	Dillingham, City of	Wells 1, 2, & 3
ADL	46364	Scammon Bay, Village of	Lines 1 and 2
ADL	50906	Anchorage Water & Wastewater Utl.	Well #20, Creekside Park
ADL	51573	Anchorage Water & Wastewater Utl.	Eagle River #4, Eagle River Hts.
ADL	52342	Soldotna, City of	Well A
ADL	53282	Kenai, City of	Well #1
ADL	53282	Kenai, City of	Well #2
ADL	53813	Fairbanks, City of	Fire Well #3
ADL	53813	Fairbanks, City of	Well #1
ADL	53813	Fairbanks, City of	Well #3
ADL	54850	Anchorage Water & Wastewater Utl.	Well #10A, Chugach Foothills
ADL	54850	Anchorage Water & Wastewater Utl.	Well #11B, Chugach Foothills
ADL	57174	University of Alaska	UAA - 2 Bldg. "K" Wells
ADL	62222	Anchorage Water & Wastewater Utl.	Well #25, Military #1
ADL	62346	Craig, City of	North Fork Lake
ADL	62346	Craig, City of	Sunnahae Mt. Spring
ADL	65787	Anchorage Water & Wastewater Utl.	Well # 7, 40th Ave. & Denali St.
ADL	66177	British Petroleum	Big Lake
ADL	67201	Anchorage Water & Wastewater Utl.	Well # 9, Centennial Park
ADL	67278	Alaska Energy Authority	Solomon Gulch Hydro Generation
ADL	67781	ARCO Alaska, Inc.	Webster Reservoir
ADL	74176	Chugiak Utilities	225' Well
ADL	75895	Elim, Village of	Well
ADL	75902	Noorvik, Village of	Kobuk River
ADL	75979	British Petroleum	Kuparuk Reservoirs 1-3
ADL	75979	British Petroleum	Kuparuk Reservoirs 4-5
ADL	75980	Grayling, Village of	29' Well
ADL	76071	Tatitlek, Village of	Pumphouse
ADL	78075	UNOCAL Chemicals Division	Well 1 and 5B
ADL	100066	Juneau, City and Borough	Well #3

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FILE NUMBER	FACILITY NAME	WATER SOURCE
ADL 100887	Alaska Energy Authority	Tyee Lake Hydro Generation
ADL 201324	Palmer, City of	Well #1, 624'
ADL 201555	Anchorage Water & Wastewater Utl.	Well #35, ALAGCO
ADL 201559	Alaska Energy Authority	Terror Lake Hydro Generation
ADL 201920	Anchorage Water & Wastewater Utl.	Well #29, Service Hanshew H.S.
ADL 201921	Anchorage Water & Wastewater Utl.	Well #38, Spenard Builders
ADL 202997	Anchorage Water & Wastewater Utl.	Well #12, 40th Ave. & B St.
ADL 203480	UNOCAL Chemicals Division	Well 6
ADL 203956	Anchorage Water & Wastewater Utl.	Well #31, Huffman Hills
ADL 206632	Crestbrook Water Association, Inc.	Well
ADL 206983	Soldotna, City of	Well C
ADL 209104	Wasilla, City of	Iditarod Wells, 136' and 154'
ADL 209628	Southpark Terrace	Little Rabbit Creek
ADL 209828	Anchorage Water & Wastewater Utl.	Eagle River #8, Eagle Crest
ADL 210826	Seward, City of	Marathon Creek
ADL 214896	Soldotna, City of	Well D
ADL 401827	Kotzebue, City of	Devil's Lake, Vortac Reservoir
LAS 246	Anchorage Water & Wastewater Utl.	Well #13, Spruce and E. 64th Sts.
LAS 342	Offshore Systems, Inc.-Dutch	Unnamed stream
LAS 636	Anchorage School District	Ravenwood Well
LAS 780	B & J Ventures, Inc.	Well
LAS 969	McGrath, City of	Kuskokwim River
LAS 1026	Hilltop Ski Area	79' Well
LAS 1051	Anchorage Water & Wastewater Utl.	Ship Creek
LAS 1117	Royal Pacific Fisheries, Inc.	Well
LAS 1141	Wasilla, City of	Mission Hills Sub Phases 2&3 -
LAS 1142	Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch 24" Main
LAS 1142	Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch Falls Creek
LAS 1142	Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch High Pressure
LAS 1142	Valdez Fisheries Dev. Assoc., Inc.	Solomon Gulch Warm Water
LAS 1145	Kodiak, City of	Monashka Creek
LAS 1312	Prince Wm. Sound Aquaculture, Inc.	Esther Lake Hydro
LAS 1541	Wasilla, City of	Lacy Laine Well
LAS 1942	Juneau, City and Borough	New Salmon Creek Tailrace
LAS 1947	Chugiak - Eagle River Industries	180' Well
LAS 2082	Johnson Development	2-101' Wells
LAS 2102	Eagle View Car Wash (W. Ortner)	Well
LAS 2183	Aleut Corp. - Midtown Estates	Well #2
LAS 2393	Viewpoint Ventures, Inc.	295' Well
LAS 2394	Unalaska, City of	Icy (Pyramid) Creek
LAS 2394	Unalaska, City of	Unalaska Creek
LAS 2394	Unalaska, City of	Wells 1 and 1A
LAS 2394	Unalaska, City of	Wells 2 and 2A
LAS 2530	Homer Electric Association, Inc.	Well
LAS 2531	Whittier, City of	Well 1, 80'
LAS 2532	Whittier, City of	Well 2, 80'
LAS 2533	Whittier, City of	Well 3, 80'
LAS 2569	Anchorage Water & Wastewater Utl.	Eklutna Lake
LAS 2811	Eklutna Utilities, Inc.	Eagleridge, Parkview Terrace &
LAS 2811	Eklutna Utilities, Inc.	Eklutna Gate Water System
LAS 2811	Eklutna Utilities, Inc.	Thunderbird Heights
LAS 2811	Eklutna Utilities, Inc.	Twin Peaks Subdivision
LAS 2836	Alaska Energy Authority	Bradley Lake Hydro Generation
LAS 3017	Palmer, City of	Well #3
LAS 3024	Inlet Salmon	Kenai Well
LAS 3445	Cordova Electric Cooperative, Inc.	Humpback Creek
LAS 4070	Homestead Apartments & Trailer Ct.	Homestead Creek

1992 ALASKA WATER-USE DATA SYSTEM SUMMARY

FILE NUMBER		FACILITY NAME	WATER SOURCE
LAS	5204	Wasilla, City of	Spruce Ave Wells, 236' and 240'
LAS	6516	Southcentral Utilities	280' and 543' Wells
LAS	6550	Petersburg Water Treatment Plant	Stream
LAS	7247	ADF&G Pillar Creek Fish Hatchery	Pillar Creek
LAS	7611	British Petroleum	Patti Lake, Sag. Site C
LAS	9731	Hillside Park Homeowner's Assoc.	283' Well
LAS	9889	Palmer, City of	Well #4, 186'
LAS	11215	Soldotna, City of	Well E
LAS	11248	ADF&G Big Lake Fish Hatchery	Wells 1, 2, 4, & 5
LAS	11255	ADF&G Big Lake Fish Hatchery	Well 7
LAS	11311	Seward, City of	SMIC Well A, Marine Indust. Center
LAS	11311	Seward, City of	SMIC Well B, Marine Indust. Center
LAS	11320	Eek, City of	Eek River
LAS	11321	Fort Yukon, Village of	Main Well
LAS	11329	Kasaan, City of	Linkum Creek
LAS	11465	Thorne Bay, City of	Water Lake
LAS	11600	U.S.D.O.T. F.A.A. Elmendorf A.F.B.	160' Well
LAS	11795	Sand Point, City of	Humboldt Creek
LAS	11813	Alyeska Pipeline Service Co.	Allison Creek
LAS	11965	Port Graham, Village of	Unnamed Stream, WTP
LAS	12139	Inlet Salmon	Kasilof Well
LAS	12166	ARCO Alaska, Inc.	
LAS	12166	British Petroleum	Vern Lake
LAS	12167	ARCO Alaska, Inc.	
LAS	12168	ARCO Alaska, Inc.	Unnamed Lake
LAS	12169	ARCO Alaska, Inc.	
LAS	12170	ARCO Alaska, Inc.	
LAS	12172	ARCO Alaska, Inc.	
LAS	12174	ARCO Alaska, Inc.	Unnamed Lake
LAS	12175	ARCO Alaska, Inc.	
LAS	12176	ARCO Alaska, Inc.	
LAS	12177	ARCO Alaska, Inc.	
LAS	12177	British Petroleum	DS-7 Lake
LAS	12178	ARCO Alaska, Inc.	
LAS	12179	ARCO Alaska, Inc.	
LAS	12180	ARCO Alaska, Inc.	
LAS	12181	ARCO Alaska, Inc.	
LAS	12182	ARCO Alaska, Inc.	
LAS	12183	ARCO Alaska, Inc.	
LAS	12184	ARCO Alaska, Inc.	
LAS	12186	ARCO Alaska, Inc.	
LAS	12187	ARCO Alaska, Inc.	
LAS	12188	ARCO Alaska, Inc.	Pingo Lake
LAS	12268	Alaska Power & Telephone Co.	Dewey Lake Hydro Generation
LAS	12424	Inlet Salmon	Naknek Well
LAS	12588	University of Alaska	Palmer Exp. Station Well
LAS	12694	U.S.D.A. Forest Service - Tongass	Old Frank's Creek
LAS	12953	Offshore Systems, Inc.-Kenai	2 - 186' Wells
LAS	13290	British Petroleum	DIU Pit #1
LAS	13628	British Petroleum	6 Impoundments
LAS	13629	British Petroleum	16 Shallow Lakes
LAS	13795	ARCO Alaska, Inc.	TWUP

ADDENDUM

1992 WATER-USE DATA
ANCHOR POINT SAFE WATER CORPORATION

The following monthly water-use data from the Anchor Point Safe Water Corporation water treatment facility were received and processed after the report was completed. The data contained in this addendum are not included elsewhere in this report. Daily usage data are available upon request from the AKWUDS project manager.

1992 AKWUDS Monthly and Yearly Water-Use Calculations Worksheet

Facility Name: Anchor Point Safe Water Corporation — Water Treatment Building

File Type and Number: NA — Sequence Number: 01 W — DEC PWSI#: 247490 A

REPORT DATE	ACTUAL DAYS	MONTH	MONTH DATES	NORMAL DAYS	DAY FACTOR	METER READING	GALLONS	MGD	ADJUSTED GALLONS	NEW GALLONS	ADJUSTED MGD
11/30/91			11/30/91		0	447,575			0		
12/30/91	30	DEC '91	12/31/91	31	-1	617,493	169,918	0.005664	2,585	172,503	0.005565
12/30/91			12/31/91		1	617,493			(2,585)		
1/31/92	32	JAN	1/31/92	31	0	700,201	82,708	0.002585	0	80,123	0.002585
1/31/92			1/31/92		0	700,201			0		
2/29/92	29	FEB	2/29/92	29	0	755,035	54,834	0.001891	0	54,834	0.001891
2/29/92			2/29/92		0	755,035			0		
4/1/92	32	MAR	3/31/92	31	1	902,329	147,294	0.004603	(4,603)	142,691	0.004603
4/1/92			3/31/92		-1	902,329			4,603		
4/30/92	29	APR	4/30/92	30	0	976,722	74,393	0.002565	0	78,996	0.002633
4/30/92			4/30/92		0	976,722			0		
5/31/92	31	MAY	5/31/92	31	0	1,117,904	141,182	0.004554	0	141,182	0.004554
5/31/92			5/31/92		0	1,117,904			0		
6/30/92	30	JUN	6/30/92	30	0	1,287,978	170,074	0.005669	0	170,074	0.005669
6/30/92			6/30/92		0	1,287,978			0		
7/30/92	30	JUL	7/31/92	31	-1	1,474,321	186,343	0.006211	2,867	189,210	0.006104
7/30/92			7/31/92		1	1,474,321			(2,867)		
9/1/92	33	AUG	8/31/92	31	1	1,568,926	94,605	0.002867	(2,867)	88,871	0.002867
9/1/92			8/31/92		-1	1,568,926			2,867		
9/30/92	29	SEP	9/30/92	30	0	1,791,361	222,435	0.007670	0	225,302	0.007510
9/30/92			9/30/92		0	1,791,361			0		
10/25/92	25	OCT	10/31/92	31	-6	1,910,953	119,592	0.004784	8,172	127,764	0.004121
10/25/92			10/31/92		6	1,910,953			(8,172)		
11/30/92	36	NOV	11/30/92	30	0	1,959,986	49,033	0.001362	0	40,861	0.001362
11/30/92			11/30/92		0	1,959,986			0		
12/31/92	31	DEC	12/31/92	31	0	2,026,047	66,061	0.002131	0	66,061	0.002131
12/31/92			12/31/92		0	2,026,047			0		
1/30/93	30	JAN '93	1/31/93	31	-1	2,093,922	67,875	0.002263	0	67,875	0.002190
TOTALS:	367			366	1	1,408,554	1,408,554	0.003838	(2,585)	1,405,969	0.003841
		1992							1,408,554		
					MAX:	0.007510	MIN.	0.001362	1,405,969	0.003841	