

Appendix C:

Current Distribution

of Sanitation Technologies

Among Rural Alaskan Villages

and Native Population Served

Community	Population	Regional corporation	Existing potable water system	Existing sewer system
Chitina	49	Athna	Individual wells	Individual privy
Mentasta Lake	96	Athna	Individual wells	Individual privy
Chistochina	60	Athna	None	Individual privy
Gakona	25	Athna	Watering point	Individual privy
Tazlina	247	Athna	Watering point	Individual privy
Cantwell	45	Athna	Individual wells	Individual septic
Copper Center	449	Athna	Individual wells	Individual septic
Guikana	103	Athna	Circulation pipe	Community septic
Akutan	589	Aleutian	Conventional pipe	Piped gravity
Atka	98	Aleutian	Conventional pipe	Piped gravity
False Pass	68	Aleutian	Conventional pipe	Piped gravity
King Cove	451	Aleutian	Conventional pipe	Piped gravity
Saint George	138	Aleutian	Conventional pipe	Piped gravity
Saint Paul	763	Aleutian	Conventional pipe	Piped gravity
Sand Point	878	Aleutian	Conventional pipe	Piped gravity
Unalaska	3,089	Aleutian	Conventional pipe	Piped gravity
Nelson Lagoon	83	Aleutian	Conventional pipe	Individual septic
Nikolski	35	Aleutian	Conventional pipe	Individual septic
Barrow	2,763	North Slope	Circulation pipe	Piped gravity
Anaktuvuk Pass	259	North Slope	Washeteria	Truck haul
Atkasook	216	North Slope	Washeteria	Truck haul
Kaktovik	224	North Slope	Washeteria	Truck haul
Nuiqsut	354	North Slope	Washeteria	Truck haul
Point Hope	639	North Slope	Washeteria	Truck haul
Point Lay	139	North Slope	Washeteria	Truck haul
Wainwright	492	North Slope	Washeteria	Truck haul
Diomede	178	Bering Straits	Washeteria	Honey bucket bunker
Gambell	525	Bering Straits	Washeteria	Honey bucket bunker
Golovin	127	Bering Straits	Washeteria	Honey bucket bunker
Koyuk	231	Bering Straits	Washeteria	Honey bucket bunker
Brevig Mission	198	Bering Straits	Washeteria	Honey bucket haul

Appendix C: Current Distribution of Sanitation Technologies I 119

Community	Population	Regional corporation	Existing potable water system	Existing sewer system
Saint Michael	295	Bering Straits	Washeteria	Honey bucket haul
Savoonga	519	Bering Straits	Washeteria	Honey bucket haul
Shishmaref	456	Bering Straits	Washeteria	Honey bucket haul
Stebbins	400	Bering Straits	Washeteria	Honey bucket haul
Wales	161	Bering Straits	Washeteria	Honey bucket haul
Elim	264	Bering Straits	Circulation pipe	Piped gravity
Nome	3,500	Bering Straits	Circulation pipe	Piped gravity
Unalakleet	714	Bering Straits	Circulation pipe	Piped gravity
White Mountain	180	Bering Straits	Circulation pipe	Piped gravity
Council	8	Bering Straits	Watering point	Individual privvy
Shaktoolik	178	Bering Straits	Circulating pipe	Community septic system
Teller	151	Bering Straits	Washeteria	Truck haul
Portage Creek	5	Bristol Bay	Watering point	Honey bucket bunker
Koliganek	181	Bristol Bay	Circulation pipe	Piped gravity
Manokotak	385	Bristol Bay	Circulation pipe	Piped gravity
New Stuyahok	391	Bristol Bay	Circulation pipe	Piped gravity
Nondalton	178	Bristol Bay	Circulation pipe	Piped gravity
Togiak	613	Bristol Bay	Circulation pipe	Piped gravity
Twin Hills	66	Bristol Bay	Circulation pipe	Piped gravity
Chignik	188	Bristol Bay	Conventional pipe	Piped gravity
Clarks Point	60	Bristol Bay	Conventional pipe	Piped gravity
Egegik	122	Bristol Bay	Conventional pipe	Piped gravity
South Naknek	136	Bristol Bay	Conventional pipe	Piped gravity
Naknek	575	Bristol Bay	Individual wells	Piped gravity
Iglugig	33	Bristol Bay	Washeteria	Piped gravity
Ekwok	77	Bristol Bay	Individual wells	Piped Sewer
Ekuk	3	Bristol Bay	Individual wells	Individual privvy
Kokhonak	152	Bristol Bay	Watering point	Individual privvy
Ivanoff Bay	35	Bristol Bay	Conventional pipe	Individual septic
Perryville	108	Bristol Bay	Conventional pipe	Individual septic
Aleknaqik	185	Bristol Bay	Individual wells	Individual septic
Chignik Lagoon	53	Bristol Bay	Individual wells	Individual septic
Iliamna	94	Bristol Bay	Individual wells	Individual septic
Levelock	105	Bristol Bay	Individual wells	Individual septic
Pedro Bay	42	Bristol Bay	Individual wells	Individual septic
Pilot Point	53	Bristol Bay	Individual wells	Individual septic
Port Helden	119	Bristol Bay	Individual wells	Individual septic
Ugashik	7	Bristol Bay	Individual wells	Individual septic
Chignik Lake	133	Bristol Bay	Washeteria	Individual septic
Newhalen	160	Bristol Bay	Washeteria	Individual septic
Alakanuk	544	Yukon-Kuskokwim	Washeteria	Honey bucket bunker
Atmautluak	258	Yukon-Kuskokwim	Washeteria	Honey bucket bunker
Kwigillingok	278	Yukon-Kuskokwim	Washeteria	Honey bucket bunker
Tuluksak	358	Yukon-Kuskokwim	Washeteria	Honey bucket bunker
Tuntutuliak	300	Yukon-Kuskokwim	Washeteria	Honey bucket bunker
Tununak	316	Yukon-Kuskokwim	Washeteria	Honey bucket bunker
Meroryuk	177	Yukon-Kuskokwim	Watering point	Honey bucket bunker
Newtok	207	Yukon-Kuskokwim	Watering point	Honey bucket bunker
Oscarville	57	Yukon-Kuskokwim	Watering point	Honey bucket bunker
Platinum	64	Yukon-Kuskokwim	Watering point	Honey bucket bunker

120 | An Alaskan Challenge: Native Village Sanitation

Community	Population	Regional corporation	Existing potable water system	Existing sewer system
Upper Kalskag	172	Yukon-Kuskokwim	Watering Point	Honey bucket bunker
Crooked Creek	106	Yukon-Kuskokwim	Individual wells	Honey bucket haul
Akiachak	483	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Chevak	598	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Goodnews Bay	241	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Hooper Bay	845	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Kasigluk	425	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Kongiganak	294	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Kotlik	461	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Kwethluk	558	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Nunapitchuk	378	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Pitkas Point	135	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Quinhagak	501	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Sheldon Point	109	Yukon-Kuskokwim	Washeteria	Honey bucket haul
Chefornak	320	Yukon-Kuskokwim	Watering Point	Honey bucket haul
Chuathbaluk	97	Yukon-Kuskokwim	Watering Point	Honey bucket haul
Kipnuk	470	Yukon-Kuskokwim	Watering Point	Honey bucket haul
Napakiak	318	Yukon-Kuskokwim	Watering Point	Honey bucket haul
Napaskiak	328	Yukon-Kuskokwim	Watering point	Honey bucket haul
Nightmute	153	Yukon-Kuskokwim	Watering point	Honey bucket bunker
Bethel	4,674	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Lower Kalskag	291	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Marshall	273	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Mt. Village	674	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Pilot Station	463	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Russian Mission	246	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Saint Mary's	441	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Scammon Bay	343	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Toksook Bay	420	Yukon-Kuskokwim	Circulation pipe	Piped gravity
Aniak	540	Yukon-Kuskokwim	Individual wells	Piped gravity
Emmonak	642	Yukon-Kuskokwim	Circulation pipe	Piped vacuum
Red Devil	53	Yukon-Kuskokwim	Individual wells	Individual privy
Sleetmute	106	Yukon-Kuskokwim	Individual wells	Individual privy
Stony River	51	Yukon-Kuskokwim	Individual wells	Individual privy
Lime Village	42	Yukon-Kuskokwim	Watering Point	Individual privy
Akiak	285	Yukon-Kuskokwim	individual wells	Individual septic
Chenega	94	North Pacific Rim	Conventional pipe	Piped gravity
English Bay	158	North Pacific; Rim	Conventional pipe	Piped gravity
Port Graham	166	North Pacific Rim	Conventional pipe	Piped gravity
Tatitlek	119	North Pacific Rim	Conventional pipe	Piped gravity
Tyonek	154	Chugach	Conventional pipe	Piped gravity
Eklutna	381	Chugach	Conventional pipe	Individual septic
Chickaloon	147	Chugach	Individual wells	Individual septic
Ninilchick	425	Chugach	Watering point	Individual septic
Grayling	208	Tanana Chiefs	Circulation pipe	Piped gravity
Holy Cross	277	Tanana Chiefs	Circulation pipe	Piped gravity
Kaltag	240	Tanana Chiefs	Circulation pipe	Piped gravity
Ninto	218	Tanana Chiefs	Circulation pipe	Piped gravity
Nenana	393	Tanana Chiefs	Circulation pipe	Piped gravity
Huslia	207	Tanana Chiefs	Washeteria	Piped gravity

Appendix C: Current Distribution of Sanitation Technologies I 121

Community	Population	Regional corporation	Existing potable water system	Existing sewer system
Nikolai	109	Tanana Chiefs	Washeteria	Piped sewer
Anvik	82	Tanana Chiefs	Individual wells	Individual privy
Allakaket	138	Tanana Chiefs	Washeteria	Individual privy
Arctic Village	96	Tanana Chiefs	Washeteria	Individual privy
Beaver	103	Tanana Chiefs	Washeteria	Individual privy
Birch Creek	42	Tanana Chiefs	Washeteria	Individual privy
Circle	73	Tanana Chiefs	Washeteria	Individual privy
Eagle Village	35	Tanana Chiefs	Washeteria	Individual privy
Hughes	54	Tanana Chiefs	Washeteria	Individual privy
Koyukuk	126	Tanana Chiefs	Washeteria	Individual privy
Nulato	359	Tanana Chiefs	Washeteria	Individual privy
Rampart	68	Tanana Chiefs	Washeteria	Individual privy
Ruby	170	Tanana Chiefs	Washeteria	Individual privy
Shageluk	139	Tanana Chiefs	Washeteria	Individual privy
Takotna	38	Tanana Chiefs	Washeteria	Individual privy
Tanana	345	Tanana Chiefs	Washeteria	Individual privy
Tetlin	87	Tanana Chiefs	Washeteria	Individual privy
Alatna	31	Tanana Chiefs	Watering point	Individual privy
Chalkyitsik	90	Tanana Chiefs	Watering point	Individual privy
Healy Lake	47	Tanana Chiefs	Watering point	Individual privy
Manley Hot Springs	96	Tanana Chiefs	Watering point	Individual privy
Northway	113	Tanana Chiefs	Watering point	Individual privy
Stevens Village	102	Tanana Chiefs	Watering point	Individual privy
Tel Ida	11	Tanana Chiefs	Watering point	Individual privy
Venetie	182	Tanana Chiefs	Watering point	Individual privy
Evansville	7	Tanana Chiefs	None	Individual septic
McGrath	528	Tanana Chiefs	Circulation pipe	Community septic
Tan across	106	Tanana Chiefs	Circulation pipe	Community septic
Dot Lake	53	Tanana Chiefs	Washeteria	Community septic
Fort Yukon	580	Tanana Chiefs	Circulation pipe	Vacuum truck haul
Galena	833	Tanana Chiefs	Washeteria	Vacuum truck haul
Akhiok	77	Kodiak	Conventional pipe	Piped gravity
Karluk	71	Kodiak	Conventional pipe	Piped gravity
Larsen Bay	147	Kodiak	Conventional pipe	Piped gravity
Old Harbor	284	Kodiak	Conventional pipe	Piped gravity
Duzinkie	209	Kodiak	Conventional pipe	Piped gravity
Port Lions	222	Kodiak	Conventional pipe	Piped gravity
Selawik	596	Northwest Arctic	Washeteria	Honey bucket bunker
Kivalina	317	Northwest Arctic	Watering point	Honey bucket bunker
Buckland	318	Northwest Arctic	Washeteria	Honey bucket haul
Deering	157	Northwest Arctic	Washeteria	Honey bucket haul
Ambler	311	Northwest Arctic	Circulation pipe	Piped gravity
Klana	385	Northwest Arctic	Circulation pipe	Piped gravity
Kotzebue	2,751	Northwest Arctic	Circulation pipe	Piped gravity
Noatak	333	Northwest Arctic	Circulation pipe	Piped gravity
Shungnak	223	Northwest Arctic	Circulation pipe	Piped gravity
Noorvik	531	Northwest Arctic	Circulation pipe	Piped vacuum
Kobuk	69	Northwest Arctic	Washeteria	Individual privy
Angoon	638	Southeast	Conventional pipe	Piped gravity
Annette	40	Southeast	Conventional pipe	Piped gravity

122 | An Alaskan Challenge: Native Village Sanitation

Community	Population	Regional corporation	Existing potable water system	Existing sewer system
Craig	1,260	Southeast	Conventional pipe	Piped gravity
Hoonah	795	Southeast	Conventional pipe	Piped gravity
Hydaburg	384	Southeast	Conventional pipe	Piped gravity
Kake	700	Southeast	Conventional pipe	Piped gravity
Kasaan	54	Southeast	Conventional pipe	Piped gravity
Klawock	722	Southeast	Conventional pipe	Piped gravity
Klukwan	195	Southeast	Conventional pipe	Piped gravity
Metlakatla	1234	Southeast	Conventional pipe	Piped gravity
Saxman	369	Southeast	Conventional pipe	Piped gravity
Yakutat	534	Southeast	Conventional pipe	Piped gravity

NOTES

Water Supply System Types

Watering point—Single community source available—homes served by hauled water.

Washeteria—Community served by washeteria with Watering point. Homes served with hauled water.

Individual wells—Homes served by conventional wells with piped water.

Conventional pipe—Homes served by conventional piped water distribution system.

Circulation pipe—Homes served by circulating piped water distribution system with added heat features.

Sewer System Types

Individual privy—Homes have individual privy for waste disposal; graywater may or may not have a seepage pit.

Honey bucket bunker—Honey bucket waste is taken by individuals to privy, bunker, or lagoon for disposal.

Honey bucket haul—Individuals take honey bucket waste to a nearby disposal container, which is then hauled by small vehicles to a disposal site.

Truck haul—Individuals carry honey bucket waste to disposal containers which are then hauled to disposal sites by trucks.

Vacuum truck haul—Homes have flush toilets and outside storage tanks. Haul service transports waste from the tank to disposal site, (used in communities with gravel roads).

Individual septic—Homes have flush toilets with individual septic tanks and drain fields.

Community septic—Homes have flush toilets draining to community collection systems served by a community septic tank and drain field; sewage lift stations may be used.

Piped gravity—Homes have flush toilets draining to a community collection system served by some form of treatment; sewage lift stations may be used.

Piped vacuum—Homes have special flush toilets that discharge to a vacuum sewer system. The vacuum system discharges to a sewage treatment system.

SOURCE: Jim Crum, Division of Sanitation Facilities, Alaska Area Native Health Service, Anchorage, "Waste Disposal in Rural Alaskan Villages: Data Analysis," Nov. 9, 1993.