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**Preliminary Description of Ground-water Conditions
at Sterling, Alaska**

By

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ABSTRACT

A collection and review of available ground-water data at Sterling, Alaska, has resulted in the creation of extensive well-log and water-quality databases. The databases are used to show that most wells tap glaciofluvial sand and gravel aquifers and that ground-water flows toward the Moose and Kenai Rivers under a water-table gradient ranging from 0.003 to 0.08. Some wells are also tentatively identified as tapping a Tertiary aquifer of sandstones and conglomerates.

Historic water-quality data show elevated concentrations of organic and inorganic constituents at the Sterling Special Waste Site as compared to data obtained from surrounding water wells. Some analyses also exceed state and federal drinking water standards. Elevated concentrations of benzene are noted near several known fuel leaks along the Sterling Highway east of the Moose River. Water wells used in the Sterling area commonly have high concentrations of iron and manganese. A few instances of arsenic, copper, and chloride exceeding maximum contaminant levels in water wells have been found.

ACKNOWLEDGMENTS

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INTRODUCTION

Sterling, Alaska, is a small rural community located near the confluence of the Moose and Kenai Rivers on the Kenai Peninsula in south-central Alaska (fig. 1). Water supplies in the area are mostly obtained from wells less than 60 m deep, tapping water-table and confined glacio-fluvial aquifers. Citizens in the area have become concerned about the possible effects of ground-water contamination from known fuel leaks or spills in the area or past waste disposal operations. These concerns have prompted an interest in developing a better understanding of existing ground-water conditions in the area. This study is intended to summarize available information about aquifers found in the area, ground-water flow directions, and the quality of ground water.

SOURCES OF INFORMATION

Sources of information for this report consist of drillers logs of local water wells, consultants reports of site investigations (commonly containing monitor well logs, water quality data and related information), and analyses of local well water by DEC and a few public water suppliers. Locations of reported data sites were determined with available site maps, plat maps, legal descriptions of properties, as-built diagrams of properties, and a few engineering surveys of well locations. None of the reported geologic, water-level, or water-quality data described above has been field-verified during this study. The primary intent of this report is to describe trends in existing data and establish a relatively complete historical database for use in subsequent studies. Appendix A contains a listing of all water data sites used in this study.

Ground-water records are available for 391 sites in the 15.9 sq mi area. This represents an average of 29 data sites per sq mi, excluding 2.4 sq mi of the study area contained in the Kenai

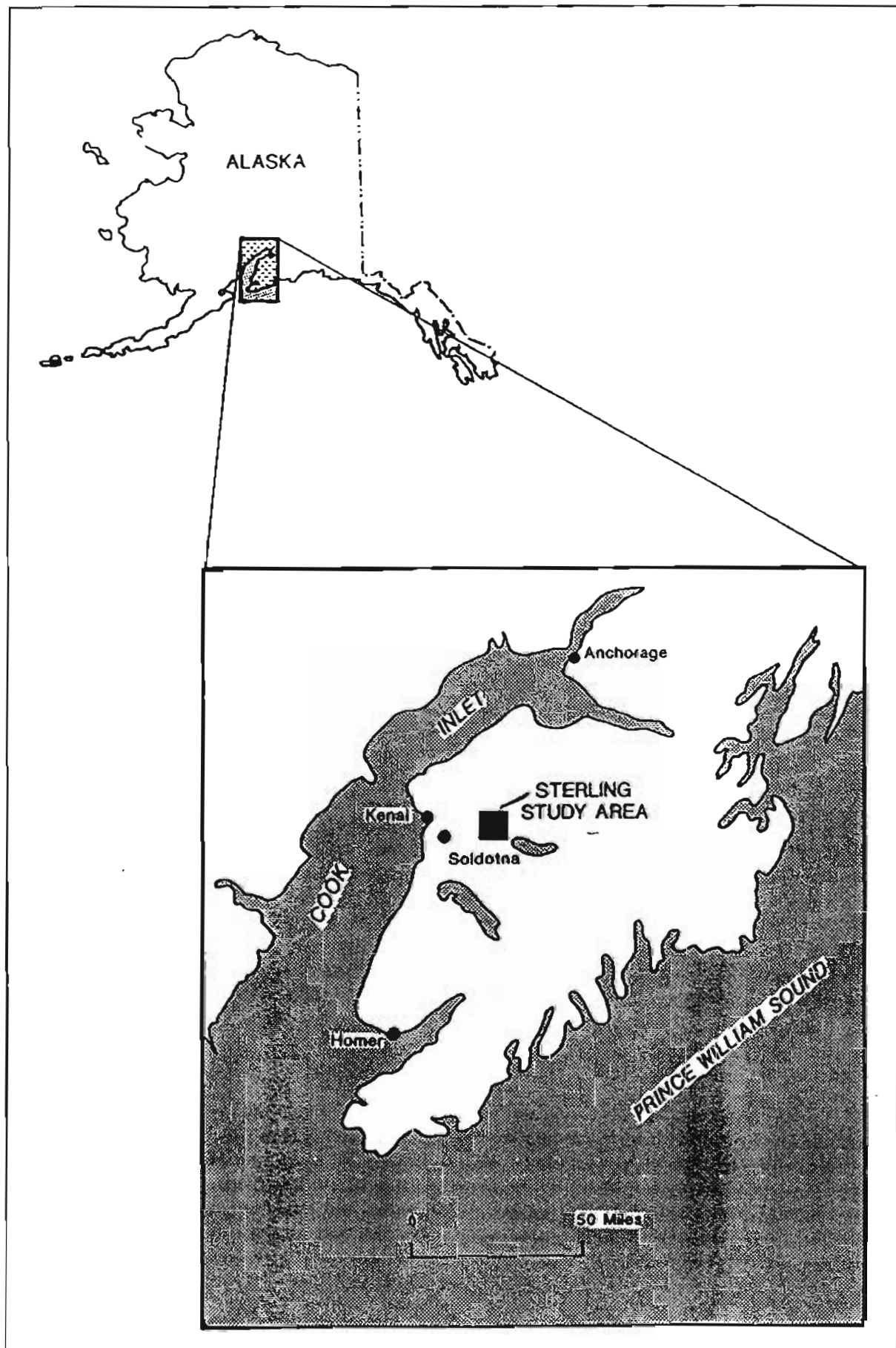


Figure 1. Location of the Sterling study area.

National Moose Range. All data site locations are determined to the nearest second of latitude and longitude and detailed well log data are stored in the Ground Water Site Inventory (GWSI) database of the U.S. Geological Survey.

GEOLOGIC SETTING

Sterling is located on the glaciated lowland plain of the Kenai Peninsula. The area has been subjected to repeated glacial advances from surrounding mountains, including mountains on the west side of Cook Inlet. Past glacial advances have also blocked lower Cook Inlet, causing large lakes to form and inundate the Kenai Peninsula lowland plain (Karlstrom, 1964). Surficial deposits in the Sterling area consist of glacial outwash in relict meltwater channels, terraces, and hummocky ablation deposits; till, mostly in end moraine complexes; lakebed deposits; and modern alluvial deposits. Glacial deposits in some areas are overlain by peat and loess.

Glacial deposits in the Sterling area are underlain by Tertiary sedimentary rocks of the Kenai Group. Two exploratory oil wells in the study area penetrated several thousand feet of Tertiary rocks. The uppermost formation of the Kenai group is the Sterling Formation, consisting of sandstone, interbedded silty claystone, conglomeratic sandstone, and lignitic coal (Calderwood and Fackler, 1972). Although they are not known to crop out anywhere in the study area, several water wells may have penetrated these rocks.

AQUIFERS

Sheet 1 shows the locations of known wells, boreholes and springs in the study area. Most wells tap water-bearing sand and gravel deposits in the glacial drift. These sand and gravel deposits, together with associated silty glacial deposits, are termed the Quaternary aquifer in this report. Saturated sand and gravel deposits occur under both confined and unconfined conditions in the area.

The composition of the Quaternary aquifer varies considerably over short distances in the Sterling area. Water wells tapping the Quaternary aquifer range from 5 to 113 ft deep. Reported yields from these wells range from 1 to 100 gallons per minute.

Some wells in the study area appear to penetrate Tertiary rocks. These rocks are termed the Tertiary aquifer. The Tertiary aquifer consists of sandstones and conglomerates in the Sterling Formation of the Kenai Group. The Tertiary aquifer is confined by silty claystones and coals in the Sterling formation and glacial drift.

GROUND-WATER FLOW SYSTEMS

Sheet 2 shows elevations of water levels in wells calculated using driller's reports and land surface elevations determined from 1:25,000 or 1:63,360 topographic maps. Surveyed well elevations were used for a few sites where they were available. Approximate water table contours were manually drawn based on the plotted water-level elevations and elevations of surface waters. The water-table contours do not perfectly reflect plotted water-level data because some wells tap confined or semi-confined portions of the aquifer and most well locations and elevations are imprecisely known.

Schematic ground-water flow arrows are also shown on sheet 2. These arrows were drawn perpendicular to the approximate water table contours and show the approximate horizontal direction of ground-water flow in the Quaternary aquifer. Existing data indicate that ground water

has a downward component of flow across most of the study area, except near the Kenai and Moose Rivers where flowing wells have been drilled.

The schematic flow arrows show that ground water generally flows toward the Moose and Kenai Rivers and Scout Lake. Ground water also discharges into a wetland and small stream system in the central part of the study area. Two springs (labelled '1S' on sheet 1) are mapped in this area.

GEOLOGIC CROSS SECTION

Sheet 3 is a geologic cross section through the study area that illustrates typical conditions in the area. The end moraine complex west of the Moose River is considered to have been deposited by glaciers originating on the West side of Cook Inlet, as opposed to the drift shown on the east end of the section that was deposited by ice emanating from the Kenai Mountains to the east (R.D. Reger, Alaska Division of Geological and Geophysical Surveys, written commun., 1991).

Numerous wells along the line of the cross section tap confined or semi-confined portions of the aquifer; sandy and gravelly deposits common at the land surface are too thin in places to serve as significant sources of water. In most cases, individual water-yielding strata are too thin and discontinuous to be correlated between wells. The depths of closely spaced wells are commonly dissimilar as a result of the irregular position of water-yielding strata within the Quaternary and Tertiary aquifers.

GROUND-WATER QUALITY

Database Content

Ground-water quality data are available from 92 wells and one spring in the study area (Sheet 1). All water quality data are contained in a microcomputer database that uses commercially available dBASE IV software from Ashton-Tate Corporation of Torrance, California. A printout or diskette of the data are available upon request from the authors at a nominal cost. The diskette includes a README file on database structure and file content.

All data included in the database are reported values on analytical reports from state, federal, and commercial laboratories. A precursor database was originally provided to the authors by the Alaska Department of Environmental Conservation (ADEC) and was formatted in POWERBASE. We subsequently converted and expanded this database to its current form and content.

Data entries made by ADEC were checked and confirmed with "hard copies" of the analytical reports. The data values for inorganic constituents on eight commercial laboratory analyses were not substantiated because the analytical reports were unlocatable.

Summary statistics on types and numbers of analyses are presented in Table 1. Approximately 75 percent of the inorganic and organic analyses in the database were performed by commercial laboratories, and about 25 percent were performed by the ADEC laboratory at Douglas, Alaska. Five inorganic analyses were performed by the U.S. Geological Survey at Denver, Colorado.

The computerized database is organized according to the laboratories performing the analysis because sampling and analytical documentation differs significantly among different laboratories. For example, the most common type of metal analysis performed by ADEC provides total or total recoverable, rather than dissolved, concentrations. Commercial laboratories, however, often do not differentiate between these three types of analysis. In this report ADEC-analyzed samples list total

Table 1. Types of analyses of water quality in the Sterling study area.

Types of Analyses	Number of analyses	Number of sites
Non-metallic inorganic constituents	227	82
Metallic constituents	210	77
Volatile organic compounds	202	151
Base, neutral, and acid extractable organic compounds	126	65

or total recoverable values, but this can not be assumed to be the case for commercial laboratories. The dBASE water quality database on diskette identifies which laboratory produced specific analytical values.

The accuracy of the values could not be verified for most analyses because a quality assurance plan was not written. Data validity was verified in a few cases when quality assurance reports were available. Quality assurance plans and reports are manually filed as part of the data documentation at the Division of Water office at Eagle River. Cation-anion balances were performed only on a single U.S. Geological Survey analysis. Ion balances could not be performed on other analyses because the laboratories did not do complete cation and anion analyses. The pH data were not examined in this report because field versus laboratory values could not be differentiated on most analytical reports.

Results and Discussion

The water quality data listed in appendices B, C and D present an overview of constituents exceeding maximum contaminant levels, rather than detectable concentrations. In many cases, constituents were detected below the maximum contaminant level, but except for a brief descriptive analysis of nonregulated organic compounds, these data are not further analyzed here.

In many cases, no immediate follow-up sampling of inorganic constituents exceeding maximum contaminant levels was done. For this reason these values are considered questionable and should be used with caution.

Inorganic Compounds Appendices B and C show all wells with reported values of inorganic constituents that exceed federal and state drinking water standards. These wells are identified by section and map number to facilitate location of the sites on sheet 1.

Appendix B shows the inorganic constituent concentrations that exceeded the maximum contaminant level (MCL) in the National primary drinking water regulations, 40 CFR Part 141 (National Archives and Records Administration [NARA], 1990). These elements are regulated for health concerns. The highest concentrations of arsenic, chromium and lead were found at Sterling Special Waste Site wells. Barium, cadmium, and nitrate exceeded the maximum contaminant level twice, each time at Sterling Special Waste Site wells. Mercury data were slightly above 0.002 milligrams per liter at two wells.

Appendix C shows the inorganic constituent concentrations exceeding the maximum contaminant level in the National secondary drinking water regulations, 40 CFR Part 143 (NARA, 1990). These

regulations control contaminants that primarily affect the aesthetic qualities relating to the public acceptance of drinking water. Iron and manganese concentrations occur throughout the study area at levels above the maximum contaminant level. The highest iron concentration measured was 10.9 milligrams per liter at a residential well in Section 15. Zinc concentrations have been measured above the maximum contaminant level at several Sterling Special Waste Site wells between 1980 and 1987. Chloride concentrations were observed above the maximum contaminant level at two Sterling Special Waste Site wells and one commercial well along the Sterling Highway. Copper concentrations were measured above the maximum contaminant level once at the Sterling Elementary School.

Organic Compounds Appendix D shows the regulated volatile organic compounds exceeding the maximum contaminant levels, 40 CFR Part 141.61 (NARA, 1990). Benzene was the only regulated volatile organic compound that has been found to exceed the maximum contaminant level of 0.005 milligrams per liter for benzene. The highest concentration of benzene found in the study area was 8.6 milligrams per liter from a gas station monitoring well located at a gas station on the Sterling Highway.

Nonregulated organic compounds reported more than once in concentrations below and above the reported detection limit at Sterling Special Waste Site wells were (in order of frequency) ethylbenzene, toluene, xylene, phenol, and 1,1,1-trichloroethane. Benzoic acid, benzyl alcohol, 4-chloro-3-methylphenol, and chrysene were reported once at Sterling Special Waste Site wells.

Detectable concentrations of nonregulated organic compounds were found at four residential wells. Toluene, phenol, and 2-butanone was reported in a well located at section 15 map no. 1-19. Toluene was measured twice in a well located at section 1 map no. 1-21. Chloroform was reported once in a well located at section 1 map no. 1-23; and 1,1,1-trichloroethane was measured once in a well located at section 6 map no. 1-9 (Sheet 1). Detectable concentrations of ethylbenzene, toluene, and xylene were reported in gas station monitoring wells along the Sterling Highway.

Summary

The most commonly encountered water quality constituents in the Sterling area exceeding primary or secondary maximum contaminant levels are iron and manganese, which are of concern for aesthetic reasons, such as taste, odor, and staining. Most inorganic constituents exceeding the maximum concentration levels were observed at the Sterling Special Waste Site. Arsenic is the only inorganic constituent found to exceed the maximum contaminant level at residential wells. Copper and chloride are the only inorganic constituents found to exceed the maximum contaminant level at public water supplies.

A disproportionate, greater amount of sampling effort was done in sections 2, 6, 7, 12 and 15, and particularly section 1, which accounts for these sections showing the most inorganic constituents exceeding maximum contaminant levels. Most sections in the study area were not sampled as intensively as the above mentioned sections and we can not assume that the above mentioned sections are the only areas with relatively high levels of iron and manganese.

Benzene concentrations exceeding the maximum contaminant level were measured only in ten monitoring wells located near several fuel leaks along the Sterling Highway east of the Moose River.

CONCLUSIONS

Ground-water at Sterling, Alaska, is obtained mostly from unconfined and confined glacio-fluvial sand and gravel deposits of the Quaternary aquifer. Most wells are less than 60 m deep and their locations are known with sufficient accuracy to permit contouring of an approximate water-table map. The water-table map is used to illustrate that ground water generally flows towards the Moose and Kenai Rivers, with some variability resulting from local aquifer heterogeneity and landform and surface water features. Well data indicates that ground water also has a downward component of flow across most of the study area.

A few wells are tentatively concluded to have penetrated Tertiary rocks and tapped sandstone or conglomerate beds within the Sterling Formation for water supplies. Limited data from these wells precludes detailed description of the characteristics of the Tertiary aquifer.

Existing ground-water quality data indicates that numerous water supply wells contain concentrations of iron and manganese in excess of recommended maximum contaminant levels. Copper, arsenic and chloride have also been detected at elevated levels in a few instances. Monitoring wells at known fuel spill sites along the Sterling highway have shown elevated concentrations of benzene. Monitoring wells at the Sterling Special Waste Site have shown concentrations of arsenic, barium, cadmium, chloride, chromium, lead, mercury, and nitrate that exceed maximum contaminant levels.

REFERENCES CITED

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- Karlstrom, T.N.V., 1964, Quaternary geology of the Kenai lowland and glacial history of the Cook Inlet region, Alaska: U.S. Geological Survey Professional Paper 443, 69 p.
- National Archives and Records Administration, 1990, Code of Federal Regulations, Title 40, Chapter 1 - Environmental Protection Agency (continued) (Parts 100-149): U.S. Government Printing Office, Washington DC, 1990, 969 p.

APPENDIX A

Listing of data sites.

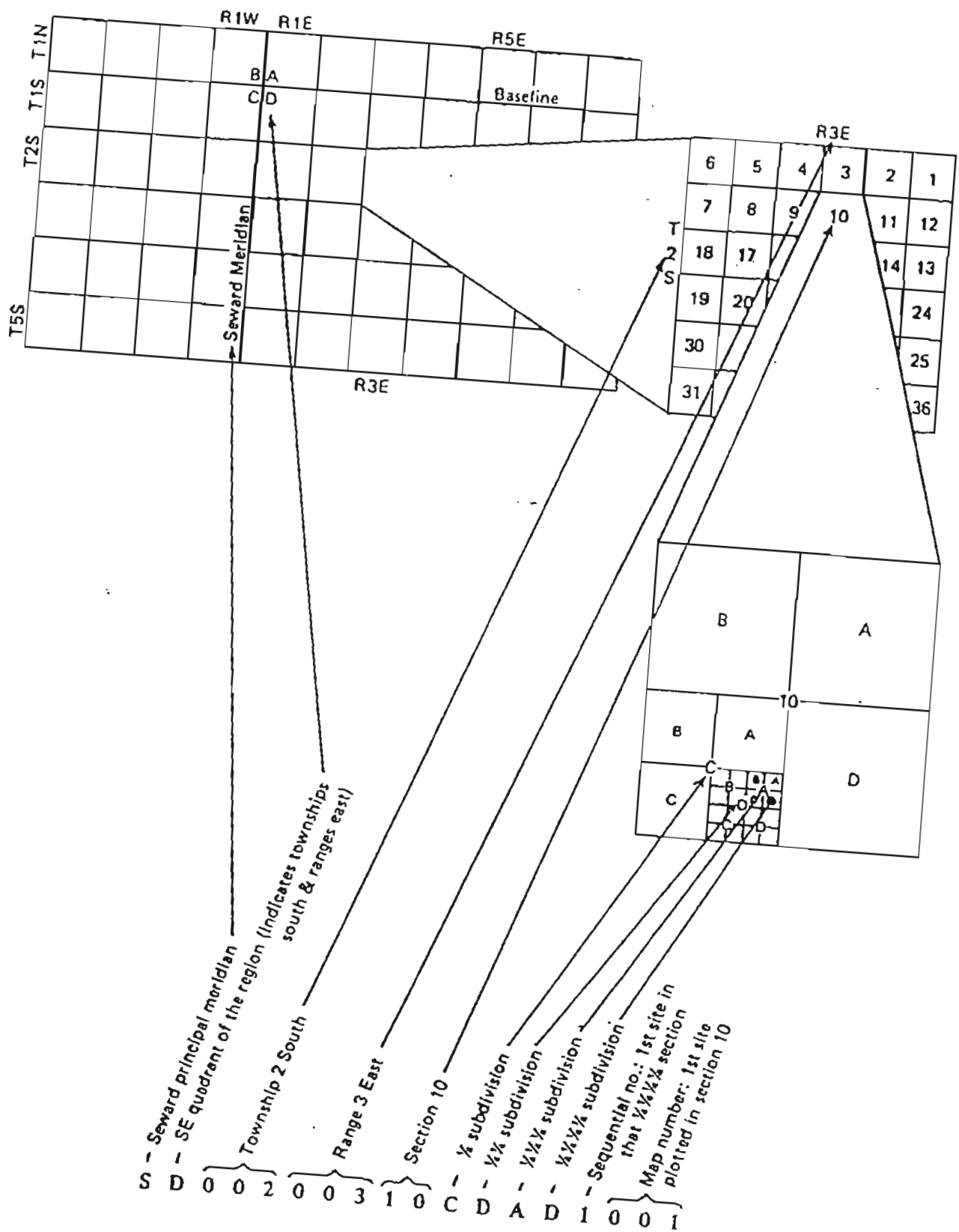


Diagram showing derivation of local number from the official rectangular subdivision of public lands.

LOCAL WELL NUMBER	OWNER	ALTITUDE OF LAND SURFACE (METERS)	DEPTH OF WELL (METERS)	WATER LEVEL (METERS)	DISCHARGE (GPM)	ASSIGNOR OF OTHER IDENTIFIER	OTHER IDENTIFIER
SB00500805ABAD1 002	KUIPER ROB	70.	17.	10.	40.	GOVT LOTS	LO2 NE1/4
	--				--	LAS	005173
SB00500805BBD1 003	FELLMAN JIM	52.	22.	14.	20.	VEIL OMIST 5	TR01
SB00500805BBD1 001	MOORE RONALD H	58.	61.	14.	30.	VEIL OMIST 6	TR02
	--				--	LAS	006135
SB00500806ADD1 001	COLLER AUSTIN E	52.	29.	9.	6.	VEIL OMIST 4	TR01
SB00500806CAAA1 002	BRINDEL JUDY&GEORGE	57.	50.	32.	30.	MOOSE RIVER HTS	L02B01
	--				--	LAS	002129
SB00500806CACC1 012	GORLAC STEVE	62.	--	--	--	SECTION 06 LOTS	UNSUBD LOT
SB00500806CADB1 011	WALTERS F A	58.	46.	17.	20.	MOOSE RIVER HTS	L09B02
SB00500806CCAB1 008	GILBERTSON DAVID K	67.	12.	--	12.	ELSA LOUISE SUB	L01B05
SB00500806CDAA1 003	TIMBES LAURA&JACK	50.	63.	3.	50.	LAS	004173
	--				--	GOVT LOTS	L12
	--				--	SECTION 06 LOTS	L12
SB00500806CDD1 009	PENDERSEN ELSA&WALTER	48.	40.	3.	--	SECTION 06 LOTS	UNSUBD LOT
SB00500806DAAD1 005	WEST WILLIAM O	58.	20.	20.	--	SWAN VIEW	TR03
SB00500806DACA1 007	STASAK MIKE	48.	14.	4.	30.	SWAN VIEW	TR05
	--				--	LAS	007808
SB00500806DACA2 007	STASAK MIKE	48.	15.	0.	30.	SWAN VIEW	TR05
	--				--	LAS	007808
SB00500806DADC1 006	LYNDLE HAL&RICE-WHITEFORD	58.	12.	--	--	SWAN VIEW	TR07
	RICE-WHITEFORD&HAL LYNDLE				--	--	--
SB00500806DBAB1 014	STANDINGER MARVIN	35.1	21.	6.	12.	MOOSE RIVER HTS	L01B03
SB00500806DBBB1 004	FLOTRE GAIL&PERRY	58.	38.	19.0	15.	MOOSE RIVER HTS	L01B02
	--				--	LAS	006097
SB00500806DBCA1 013	KIEBERT AUGIE&PAT	49.	16.	0.	10.	MOOSE RIVER HTS	L05B03
SB00500806DBCC1 010	GRANT SUE&PATRICK	50.	17.	2.	25.	MOOSE RIVER HTS	L07B02
SB00500807AACD1 019	SANDERS HOWARD	52.	57.	--	15.	OTTER CREEK SUB	L03B03
	S&B CONSTRUCTION				--	--	--
SB00500807AACD2 019	FISKE HANK	52.	27.	9.	12.	OTTER CREEK SUB	L04B03
SB00500807AADA1 033	MERKES KENNY	58.	21.95	6.	6.	OTTER CREEK SUB	L08B05
SB00500807AADB1 010	LORENZO ABURTO	58.	52.	--	40.	OTTER CREEK SUB	L02B05
	--				--	LAS	008217
SB00500807AADD1 013	SANDERS CONSTRUCTION	58.	54.	0.	50.	OTTER CREEK SUB	L09B05
	MARSTERS EVERETT L				--	LAS	003694
SB00500807ADDC1 020	MERKAS DENNIS	55.	16.	7.5	15.	OTTER CREEK SUB	L11B02
SB00500807ADDB1 002	BOGARD RICHARD	57.91	14.6	--	--	--	--
SB00500807BADB1 021	POOLER DAVID	52.	11.	--	--	ELSA LOUISE SUB	L04B03
SB00500807BBB1 022	POWELL HAROLD	58.	18.	5.	12.	GATTEN SUB	L18
SB00500807BCAD1 023	BOLZ PHYLLIS J&WILLIAM J	57.	20.	14.	6.	ELSA LOUISE SUB	L05B02
SB00500807BCCC1 032	TOLLEFSEN ERIC	52.	15.	9.	15.	ELSA LOUISE SUB	L08B01
SB00500807BDAB1 036	LEA JAMES&GERARD	58.	--	--	--	ELSA LOUISE SUB	L01B02
	GILBERTSON JANE				--	--	--
SB00500807BDBC1 024	KRAPP RICHARD	62.	19.	12.	6.	ELSA LOUISE SUB	L03B02
SB00500807BDCB1 025	POWELL HAROLD	58.	18.	--	--	ELSA LOUISE SUB	L04B02
SB00500807BDCC1 034	SHOWALTER	58.	--	--	--	ELSA LOUISE SUB	L08B02
SB00500807BDDB1 035	GILBERTSON KARROL	55.	--	--	--	PEDERSENS MR 1	L03
SB00500807BDDB2 035	CHIAPPONE ESTHER	55.	28.	12.	5.	PEDERSENS MR	L04
SB00500807CAAD1 007	NAPTOWNE BAR	56.39	21.0	--	--	--	--
SB00500807CABA1 026	FISKE THERESA E&HENRY E	52.	13.	--	--	PEDERSENS MR 3	L01
SB00500807CABD1 005	ADH	48.55	--	--	--	ADH BRDG 572	TH 01
SB00500807CABD2 005	ADH	49.99	16.8	--	--	ADH BRDG 672	TH 02
SB00500807CABD3 005	BLOOMWORTH HAROLD&BALD EAGLE BAR	50.	19.	12.73	6.5	SECTION 07 LOTS	L06
	BALD EAGLE BAR&BLOOMWORTH HAROLD				--	SECTION 07 LOTS	WELL 1 L06
SB00500807CACB1 003	MOOSE RIVER RESORT	53.34	30.	--	--	--	--
SB00500807CADB1 014	DNR ISAAC WALTON CHPGD	50.	26.	-3.	50.	SECTION 07 LOTS	L06
	ISAAC WALTON CHPGD DNR				--	LAS	002513
	AK DIV OF PARKS & REC				--	--	--
SB00500807CADD1 006	E&E UNION SERVICE	53.34	20.4	10.06	--	--	--
SB00500807CADD2 006	E&E UNION SERVICE	53.34	12.2	3.66	35.00	--	--
SB00500807DAAC1 015	MERKES LEON N	62.	16.	--	--	SECTION 07 LOTS	UNSUBD LOT
SB00500807DABD1 016	MERKES LEON N	62.	16.	--	--	SECTION 07 LOTS	UNSUBD LOT
SB00500807DAC1 017	MERKES LEON N	58.	46.	--	--	SECTION 07 LOTS	UNSUBD LOT
SB00500807DADC1 008	MERKES LEON	59.44	24.7	--	3.00	--	--
SB00500807DABD1 011	HILLS SEYMOUR	62.	45.	17.	--	GATTEN SUB	L64

LOCAL WELL NUMBER	OWNER	ALTITUDE OF LAND SURFACE (METERS)	DEPTH OF WELL (METERS)	WATER LEVEL (METERS)	DISCHARGE (GPM)	ASSIGNOR OF OTHER IDENTIFIER	OTHER IDENTIFIER
SB00500807DBC81 038	STERLING CHEVRON	58.	17.	15.	--	SECTION 07 LOTS	UNSUB LOT
SB00500807DBC81 027	STERLING CHEVRON CAFE-DONNA SCHWANKE	58.	78.	11.	20.	STERLING CHEV	WM-1
SB00500807DBC82 027	SCHWANKE DONNA-STERLING CHEVRON CAFE	58.	19.	12.	35.	SCHWANKE SUB	LO1A
SB00500807DBC83 027	STERLING CHEVRON	55.	17.	14.8	--	SCHWANKE SUB	LO1A02
SB00500807DBC84 027	STERLING CHEVRON	55.	17.	15.	--	STERLING CHEV	HW-2
SB00500807DBC85 027	STERLING CHEVRON	55.	16.	14.	--	SCHWANKE SUB	LO1A02
SB00500807DBC86 027	STERLING CHEVRON	55.	16.	14.	--	STERLING CHEV	HW-3A
SB00500807DBC87 027	STERLING CHEVRON	55.	16.	14.	--	SCHWANKE SUB	LO1A02
SB00500807DBC88 027	STERLING CHEVRON	55.	16.	14.	--	STERLING CHEV	VES-1
SB00500807DBC89 037	SCHWANKE RONALD-SEAFOODS OF AK 1	58.	19.	12.	35.	SCHWANKE SUB	LO1A02
SB00500807DBC90 037	SEAFOODS OF ALASKA 1-RONALD SCHWANKE	58.	21.	12.	35.	MOBBY HTS	VES-2
SB00500807DBC91 037	SCHWANKE RONALD-SEAFOODS OF AK 2	58.	21.	12.	35.	SCHWANKE SUB	LO1A02
SB00500807DBC92 037	SEAFOODS OF ALASKA 2-RONALD SCHWANKE	58.	21.	12.	35.	MOBBY HTS	WELL 01 LO1B01
SB00500807DBDA1 009	COOK JOHN	60.96	17.7	10.67	5.00	DOZER SUB	LO2B02
SB00500807DBDA2 009	COOKS TESORO	62.	11.27	8.7	--	COOKS CORNER	WELL 02 LO1B01
SB00500807DBDA3 009	COOK JOHN	52.	27.	14.	15.	DOZER SUB	LO2APT02
SB00500807DBDD1 039	COOK JOHN&CAROL	58.	11.	8.	--	DOZER SUB	B-15
SB00500807DBDD2 039	COOK JOHN&CAROL	58.	10.5	8.7	--	COOKS CORNER	LO1APT02
SB00500807DBDD3 039	COOK JOHN&CAROL	58.	11.	9.	--	COOKS CORNER	LO1BPT02
SB00500807DBDD4 039	COOKS TESORO	58.	9.04	6.2	--	COOKS CORNER	CC-8
SB00500807DBDD5 039	COOKS TESORO	58.	9.59	7.5	--	DOZER SUB	LO1BPT02
SB00500807DBDD6 039	COOKS TESORO	58.	9.74	8.	--	COOKS CORNER	CC-9
SB00500807DBDD7 039	COOKS TESORO	58.	12.28	11.	--	DOZER SUB	LO1BPT02
SB00500807DBDD8 039	COOKS TESORO	58.	9.22	7.5	--	COOKS CORNER	CC-10
SB00500807DCAB1 028	MCLANE&ASSOCIATES INC	58.	--	--	--	DOZER SUB	LO1BPT02
SB00500807DCAC1 040	COOKS TESORO	58.	13.25	12.	--	COOKS CORNER	B-1/SW01
SB00500807DCAC2 040	COOKS TESORO	58.	13.36	12.0	--	COOKS CORNER	LO1BPT02
SB00500807DCAC3 040	COOKS TESORO	58.	13.29	11.4	--	GOVT LOTS	B-3/SW03
SB00500807DCAD1 029	MCLANE&ASSOCIATES INC	58.	--	--	--	COOKS CORNER	L11
SB00500807DCAD2 029	COOKS TESORO	58.	13.45	12.	--	COOKS CORNER	B-4/SW04
SB00500807DCBA1 018	MCDOWELL SAM E	52.	24.	--	--	DOZER SUB	LO1BPT02
SB00500807DCBD1 012	BRAZINGTON MARVIN G SR	52.	27.	--	--	COOKS CORNER	B-5/SW05
SB00500807DCDA1 030	ABERTO CARLOS	58.	21.	--	--	MOBBY HTS	LO1B01NEAR
SB00500807DDAC1 031	NORTHERN LIGHTS SEAFOODS	58.	24.	11.	5.	STERLING PJ 83	BORING 02
SB00500807DDAC2 031	US POSTAL SERVICE	58.	30.	8.	30.	DRY	UNCONSOL
SB00500807DDBB1 004	NORTHERN LIGHTS SEAFOODS	60.35	11.0	8.53	15.00	MOBBY HTS	LO4B01
SB00500807DDBB2 004	HARDENBORGER DEAN	58.	30.	11.	60.	COOKS CORNER	B-12
						COOKS CORNER	LO3B01
						COOKS CORNER	B-13
						MOBBY HTS	LO5B01
						COOKS CORNER	B-14
						MOBBY HTS	LO5B01
						STERLING PJ 83	BORING 01
						DRY	UNCONSOL
						MOBBY HTS	LO7B01
						COOKS CORNER	B-11
						SCHWANKE SUB	LO3B02
						DOZER SUB	L11
						DOZER SUB	LO5
						MCFARLAND SUB	L20
						MCFARLAND SUB	WELL 01 L20
						MCFARLAND SUB	L20
						MCFARLAND SUB	WELL 02 L20
						--	--
						MCFARLAND SUB	TROF

LOCAL WELL NUMBER	OWNER	ALTITUDE OF LAND SURFACE (METERS)	DEPTH OF WELL (METERS)	WATER LEVEL (METERS)	DISCHARGE (GPM)	ASSIGNOR OF OTHER IDENTIFIER	OTHER IDENTIFIER
SB00500807DDBB2 004	MOM&DADS GROCERY	58.	30.	11.	--	MCFARLAND SUB	WELL 02 TROF
SB00500807DDBD1 001	BRINKLEY RALPH	60.35	22.3	8.59	--	--	--
SB00500808CBBB1 001	WALBER DAVE	58.	54.	11.	2.	SCROGGS SUB	TR0A
SB00500817BBAD1 009	GRAIKA JOAN	65.	18.	--	--	SECTION 17 LOTS	UNSUBD LOT
SB00500817BBCA1 019	PALMA VINCENT P	62.	12.	8.	10.	BOLSTRIDGE ADD1	L07B01
SB00500817BBCB1 027	ADEC	62.	9.86	8.	--	LAS	008445
SB00500817BBDA1 017	STERLING BUILDERS & HARDWARE HITT HARRY J&BELVA L	62.	9.	--	--	BOLSTRIDGE SUB	L14B02
SB00500817BBDA2 017	ALASKA STATE	62.	8.	7.	--	BORING NO	B81-90-1
SB00500817BBDA3 017	ADEC	62.	8.	7.	--	JIMBO SUB	L01B01
SB00500817BBDB1 022	ALASKA STATE	62.	9.	8.	--	ADEC SOIL GAS	TB04
SB00500817BBDC1 005	BOLSTRIDGE BASIL S	65.53	18.3	8.53	5.00	ADEC SOIL GAS	TB02
SB00500817BBDC2 005	BOLSTRIDGE BASIL S	65.53	18.3	5.49	3.50	JIMBO SUB	L01B01
SB00500817BBDC3 005	MOM&DAD GROCERY	62.	44.	--	--	JIMBO SUB	L01B01
SB00500817BBDD1 028	ADEC	62.	9.05	7.	--	ADEC SOIL GAS	TB01
SB00500817BCAA1 026	BOLSTRIDGE BASIL	62.	16.	7.	15.	TB	NO 3
SB00500817BCAD1 023	BOLSTRIDGE BASIL	62.	16.	7.	15.	BOLSTRIDGE ADD1	L05B01
SB00500817BCBD1 016	FENA JIM	62.	10.	4.	20.	BOLSTRIDGE ADD1	L04B01
SB00500817BDAA1 001	BROWN BING	68.58	45.	--	--	BOLSTRIDGE ADD1	L03B01
SB00500817BDBC1 006	EISCHEN JOYCE&NORMAN	65.	60.	12.	20.	BOLSTRIDGE SUB	L02AB01
SB00500817BDBC2 006	ADEC	65.	5.28	4.	--	BOLSTRIDGE SUB	L02AB01
SB00500817BDBD1 003	NAPTOWNE INN	65.53	109.	--	--	BORING NO	B81-90-4
SB00500817BDBD2 003	KING LES&NAPTOWN TRADING POST	62.	6.	4.4	--	BOLSTRIDGE SUB3	L01AB01
SB00500817BDBD3 003	NAPTOWN TRADING POST&KING LES	62.	6.	4.	--	BOLSTRIDGE ADD1	L01
SB00500817BDBD4 003	KING LES&NAPTOWN TRADING POST	62.	6.	4.	--	BOLSTRIDGE SUB	L25
SB00500817BDBD5 003	NAPTOWN TRADING POST&KING LES	62.	6.	4.	--	--	--
SB00500817BDBD6 003	KING LES&NAPTOWN TRADING POST	62.	6.6	5.0	--	GREGORY SUB NO4	L12B08
SB00500817BDBD7 003	NAPTOWN TRADING POST&KING LES	62.	6.	4.7	--	LAS	003996
SB00500817BDBD8 003	KING LES&NAPTOWN TRADING POST	62.	6.	4.4	--	UNKNOWN	UNCONSOL
SB00500817BDCC1 011	WORTHY CONRAD	62.	46.5	37.	--	GREGORY SUB NO4	L11B08
SB00500817BDDC1 020	LEFLER CLIFF	62.	9.	5.	15.	GREGORY SUB NO4	L11B08
SB00500817CBAA1 008	FALL FRANK R	57.91	24.7	1.	--	NAPTOWN POST	N-5
SB00500817CBAB1 029	FLOTHE GLEN	62.	26.	6.	2.	GREGORY SUB NO4	L11B08
SB00500817CBAB1 025	MELTON CECIL	48.	17.	11.	20.	NAPTOWN POST	N-6
SB00500817CBDB1 002	CONDE JOSEPH&EMILY	52.	17.	11.	15.	GREGORY SUB NO4	L11B08
SB00500817CCBA1 014	MORKUNAS AL	50.	11.	3.	50.	NAPTOWN POST	N-7
SB00500817CCBB1 015	LEWIS LEE K&PAULINE A	52.	9.	2.	25.	GREGORY SUB NO4	L11B08
SB00500817CCCA1 007	COLEMAN KEN	60.96	32.	13.72	40.	NAPTOWN POST	N-8
SB00500817CCCB1 012	NATIONAL BANK OF ALASKA	50.	--	--	--	GREGORY SUB NO4	L11B08
SB00500817CCDB1 004	MILLER JOHN	79.25	17.7	15.85	7.00	NAPTOWN POST	N-9
SB00500817DBAD1 013	PROUDFOOT CHESTER L	83.	43.	30.	20.	GREGORY SUB NO4	L11B08
SB00500817DBBD1 024	BUTT JACK	62.	28.	-3.	1.	NAPTOWN POST	N-10
SB00500817DCDD1 021	SIEBERT JOHN&JOSEPHINE	50.	36.	2.0	50.	GREGORY SUB NO4	L11B08
SB00500817DDCB1 010	TITUS GARY	67.	53.	12.	24.	NAPTOWN POST	N-11
	MAINS BRIAN					GREGORY SUB NO5	L03B13
						GREGORY SUB NO2	L14B02
						GREGORY SUB	L06B01
						EDGAR LAW	L01
						CONFINED	UNCONSOL
						EDGAR LAW ADD01	L01
						EDGAR LAW ADD01	L02
						BOLSTRIDGE SUB	L04
						BOLSTRIDGE SUB	L02
						RIVERWIND II	L06B01
						RIVERWIND II	L03B01
						RIVERWIND II	L03B02
						GREGORY SUB NO4	L10B06
						LAS	012402
						GREGORY SUB	L19B01
						--	--
						BINGS LANDING 1	L11B04
						LAS	009708
						BINGS LANDING 1	L21B05
						--	--

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SB00500817DDCC1 018	HODSON MIKE	27.	47.	9.	28.	BINGS LANDING 1	L15B03
SB00500818AAD1 010	ACKERMAN JOE	65.53	19.2	9.14	10.00	MCFARLAND SUB	L01TR0K
SB00500818AAB1 002	SMITH TERRANCE DAVID	62.	18.	--	--	MCFARLAND SUB	L01TR00
SB00500818AAB1 003	KNIGHT OTHEL	62.	42.	9.	--	MCFARLAND SUB	L17
SB00500818AAB1 001	MCDERMOTT W H	64.01	20.7	--	10.00	--	--
SB00500818AAB1 009	ACKERMAN JOE & TONI M	62.	30.	9.	4.	MCFARLAND SUB	L02TR0K
	--				--	MULTIPLE	UNCONSOL
SB00500818ABD1 015	BUCHER PETE	50.	60.	3.	18.	APACHE ACRES	TR0D
SB00500818ADAA1 005	SHELDON JAMES P	62.	18.	14.	--	HEATHER ADD	L03B01
	--				--	MCFARLAND SUB	L01TR0L
	--				--	LAS	008048
SB00500818ADB1 014	MCKELVEY CHARLES	55.	30.	--	--	GAGE SUB	L04A
	--				--	DRY	UNCONSOL
	--				--	GAGE SUB	WELL 1 L04A
SB00500818ADB2 014	MCKELVEY CHARLES	55.	22.	11.	8.	GAGE SUB	L04A
	--				--	GAGE SUB	WELL 2 L04A
SB00500818BCB1 011	GARNETT ED	52.	35.	12.	15.	TROTTER-GARNETT	L0B2
	VIOLET MUMM				--	--	--
SB00500818CDD1 012	JOHNSON MIKE	62.	10.	1.	20.	HOLIDAY PARK	L01B01
SB00500818DAB1 006	SHELDON JAMES P	55.	19.	12.	4.	MCFARLAND SUB	L14B01
	--				--	GOERIG ADD	L14
	--				--	LAS	005476
SB00500818DCB1 007	HEIM MARLENE	58.	53.	0.	30.	HOLIDAY PARK	L16B06
SB00500818DDA1 004	IOANIN GEORGE A	50.	9.	5.	9.	MCFARLAND SUB	L01
SB00500818DDBA1 013	VANDERVEUR NICK L	50.	41.	-3.	15.	MCFARLAND SUB	L08
	WELSON ROBERT & SALLY				--	--	--
SB00500818DDCC1 008	IMM LARRY	62.	65.	6.	20.	HOLIDAY PARK	L08B06
SB00500901BAAB1 004	KENAI PENINSULA BOROUGH	103.	6.	--	--	BORING NO	S001
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
SB00500901BAAB2 004	KENAI PENINSULA BOROUGH	102.82	5.3	4.2	--	BORING NO	HW1445B02
	STERLING WASTE DISPOSAL				--	BORING NO	SB024HW14
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAAB3 004	KENAI PENINSULA BOROUGH	102.77	37.	32.88	--	BORING NO	HW13
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAAB4 004	STERLING WASTE SITE	102.9	58.	32.88	--	BORING NO	HW19
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAAC1 005	KENAI PENINSULA BOROUGH	103.08	38.7	33.38	--	BORING NO	HW10
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAAD1 006	KENAI PENINSULA BOROUGH	92.	10.1	--	--	BORING NO	TW01
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
SB00500901BAAD2 006	KENAI PENINSULA BOROUGH	91.68	32.	21.9	9.	BORING NO	TW02
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAAD3 006	STERLING WASTE SITE	91.6	26.	21.86	--	BORING NO	HW17
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAAD4 006	STERLING WASTE SITE	91.6	48.	21.81	--	BORING NO	HW16
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAAD5 006	KENAI PENINSULA BOROUGH	94.6	49.6	23.9	9.	BORING NO	TW00
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAB1 025	STERLING WASTE SITE	106.0	62.	35.25	--	BORING NO	HW18
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BAB2 025	KENAI PENINSULA BOROUGH	105.5	38.	35.5	--	BORING NO	HW12
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
SB00500901BAC1 008	KENAI PENINSULA BOROUGH	103.52	36.7	33.53	--	BORING NO	HW15
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
SB00500901BAB1 009	KENAI PENINSULA BOROUGH	104.4	61.7	30.46	--	BORING NO	TW07
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003

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SB00500901BABD1 009	--	104.4	61.7	30.46	--	GOVT LOTS	L03
SB00500901BABD2 009	KENAI PENINSULA BOROUGH	102.	33.	24.	25.	SECTION 01 LOTS	L03
SB00500901BACA1 010	KENAI PENINSULA BOROUGH	91.8	11.89	12.	--	BORING NO	TH02
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BACC1 012	KENAI PENINSULA BOROUGH	96.5	27.	23.	--	WASTE SITE	AK0003
	STERLING SPECIAL WASTE SITE				--	GOVT LOTS	L03
SB00500901BACC2 012	STERLING WASTE SITE	92.6	26.	22.44	--	BORING NO	MW20
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BACC3 012	STERLING WASTE SITE	92.4	48.6	22.74	--	BORING NO	MW21
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BACD1 011	KENAI PENINSULA BOROUGH	89.86	22.4	20.88	--	BORING NO	MW11
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
SB00500901BACD2 011	STERLING WASTE DISPOSAL	87.	20.	17.	--	STERLING S W S	TH05
	KENAI PENINSULA BOROUGH				--	--	--
SB00500901BADA1 013	KENAI PENINSULA BOROUGH	85.3	18.0	--	--	BORING NO	TH04
	STERLING SPECIAL WASTE SITE				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BADA2 013	KENAI PENINSULA BOROUGH	86.07	21.	14.25	--	BORING NO	TH04
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BADA3 013	KENAI PENINSULA BOROUGH	84.6	11.	8.72	--	BORING NO	TH03
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BADB1 015	KENAI PENINSULA BOROUGH	91.7	21.7	--	--	BORING NO	TH03
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BADC1 016	KENAI PENINSULA BOROUGH	85.72	18.	15.99	--	BORING NO	MW09
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
SB00500901BADC2 016	KENAI PENINSULA BOROUGH	84.4	9.	--	--	BORING NO	TH01
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BADC3 016	KENAI PENINSULA BOROUGH	89.20	46.	19.2	--	BORING NO	TH06
	STERLING SPECIAL WASTE SITE				--	WASTE SITE	AK0003
SB00500901BADC4 016	KENAI PENINSULA BOROUGH	87.6	9.	--	--	BORING NO	TH05
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BADD1 026	STERLING WASTE SITE	85.9	43.	16.20	--	BORING NO	MW22
	--				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BADD2 026	KENAI PENINSULA BOROUGH	86.16	26.	16.44	--	BORING NO	MW08
	STERLING WASTE DISPOSAL				--	WASTE SITE	AK0003
	--				--	GOVT LOTS	L03
SB00500901BBBA1 024	ARCO ALASKA	123.	113.	--	50.	SECTION 01 LOTS	L04
	--				--	ARCO ALASKA	MR 1
SB00500901BBCC1 022	JOHNSON	108.	--	--	--	SECTION 01 LOTS	UNSUBD LOT
SB00500901CACCI 001	MURPHEE C C	76.20	12.2	--	--	--	--
SB00500901CBBD1 014	FRANZMANN CARL	83.	18.97	--	5.	FRANZMANN SUB	L03B01
SB00500901CDBB1 017	MCLANE&ASSOCIATES INC	73.	--	--	--	GRANDVIEW	L01A301
	--				--	STERLING PJ 85	BORING 01
	--				--	DRY	UNCONSOL
SB00500901CDBB2 017	BROW PATRICIA&SAMUEL	73.	20.	9.	50.	GRANDVIEW	L01A
SB00500901CDCB1 018	MCLANE&ASSOCIATES INC	73.	--	--	--	GRANDVIEW	L01C601
	--				--	STERLING PJ 85	BORING 02
	--				--	DRY	UNCONSOL
SB00500901CDCC1 019	MCLANE&ASSOCIATES INC	70.	--	--	--	GRANDVIEW	L01D901
	--				--	STERLING PJ 85	BORING 03
	--				--	DRY	UNCONSOL
SB00500901DCAA1 020	KISHBAUM ED	67.	22.	3.	15.	GRANDVIEW	L08A
SB00500901DCCC1 021	LARROW	67.	--	--	--	GRANDVIEW	L05
SB00500901DCDC1 002	GELLER GREG	68.58	22.6	6.10	20.00	GRANDVIEW	L07
SB00500901DCDD1 023	SHUEY	62.	--	--	--	GRANDVIEW	L08B
SB00500902DAAD1 003	POHL LEONARD B	121.92	64.	54.56	15.00	--	--

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SB00500902AAAD2 003	HARVEY PAUL	123.	78.	55.	--	SWANSON RIVER 2	TR02B
SB00500902ACDD1 005	JENSEN ROBERT F	108.	61.	55.	10.	SECTION 02 LOTS	UNSUBD LOT
	--				--	LAS	008809
SB00500902ADAD1 004	JENSEN GARY C	98.	30.	27.	10.	SLATE SUB	TR01
	--				--	LAS	005924
SB00500902BADC1 010	HANSEN JIM	92.	10.	--	--	JACOBSEN SUB 2	TR02
SB00500902BBAC1 007	YODER BILLY JEAN & WALTER H	96.	37.	--	--	SCHLERETH SUB	TR01
SB00500902CABA1 015	VASILIE DAVID	83.	105.	12.	4.	WHISPERING MDWS	L15B01
SB00500902CABC1 011	GRANGERS PREST R	83.	17.	--	20.	WHISPERING MDWS	L06B02
SB00500902CADB1 018	MCKENZIE CALLEN	75.	20.	10.	25.	WHISPERING MDWS	L13B01
SB00500902CBAC1 016	PISTILLI KAREN	83.	--	--	--	WHISPERING MDWS	L09B03
SB00500902CBCC1 014	BISHOP JOHN	83.	15.	9.	30.	WHISPERING MDWS	L10B03
SB00500902CCBC1 017	SANDBERG ERIC	77.	15.	10.	8.	WHISPERING MDWS	L12B03PT02
SB00500902CDAC1 012	SCHANKLE JOHN	77.	14.	11.	10.	WHISPERING MDWS	L02B03
SB00500902CDBB1 002	DAVIS LARRY	99.06	45.	12.19	30.00	WHISPERING MDWS	L03B01
SB00500902CDBB2 002	WEEKLEY CLAUDIA & CLAUD E	83.	18.	13.	15.	WHISPERING MDWS	L11B01
SB00500902CDBD1 006	HALL JOE	77.	52.	12.	--	WHISPERING MDWS	L04B01
	DENINSON MIKE & DOROTHY				--	--	--
SB00500902DAAA1 008	FRANZMANN LOUISE A	87.	18.	--	--	VALLEY VW SUB 2	L05
SB00500902DADC1 009	SLATE BOB	83.	18.3	15.4	37.5	VALLEY VW SUB 2	L04
SB00500902DBBD1 013	EBNET HARV	77.	21.	--	--	--	--
SB00500902DCDD1 001	SHAULES DAVID	76.20	18.3	--	--	DUTCH BASIN	TR0A1
SB00500903CBAA1 002	MCGHEE V E	87.	--	--	10	--	--
	TED FORSI & ASSOCIATES				--	BRUCE SUB	L04B02
	FORSI TED & ASSOCIATES				--	STERLING PJ 84	TH 01
SB00500903CDBB1 003	--	87.	--	--	--	DRY	UNCONSOL
	TED FORSI & ASSOCIATES				--	BRUCE SUB	L02B02
	FORSI TED & ASSOCIATES				--	STERLING PJ 84	TH 02
SB00500903CCAA1 004	--	92.	--	--	--	DRY	UNCONSOL
	TED FORSI & ASSOCIATES				--	BRUCE SUB	L04B01
SB00500903CCDA1 005	FORSI TED & ASSOCIATES	92.	--	--	--	STERLING PJ 84	TH 03
	TED FORSI & ASSOCIATES				--	BRUCE SUB	L02B01
	FORSI TED & ASSOCIATES				--	STERLING PJ 84	TH 04
SB00500903CCDC1 006	--	90.	27.	20.	16.	DRY	UNCONSOL
	PENNER DALE				--	BRUCE SUB	L01B02
SB00500903DCCD1 001	OREAGAN LEWIS	91.44	27.4	--	--	--	--
SB00500910AAAA1 002	TOLBERT JAMES W	83.	34.	11.	35.	BURBACK SUB	L01
SB00500910ACBB1 003	BURBACK ROBERT	83.	--	--	--	SHADY NOOK SUB	L07B01
	TED FORSI & ASSOCIATES				--	DRY	UNCONSOL
SB00500910ACBC1 004	FORSI TED & ASSOCIATES	83.	--	--	--	SHADY NOOK SUB	L05B01
	FORSI TED & ASSOCIATES				--	DRY	UNCONSOL
SB00500910ACBD1 005	TED FORSI & ASSOCIATES	83.	--	--	--	SHADY NOOK SUB	L05B02
	FORSI TED & ASSOCIATES				--	DRY	UNCONSOL
SB00500910ACCA1 006	TED FORSI & ASSOCIATES	85.	--	--	--	SHADY NOOK SUB	L03B02
SB00500910ACCC1 007	FORSI TED & ASSOCIATES	83.	--	--	--	DRY	UNCONSOL
	TED FORSI & ASSOCIATES				--	SHADY NOOK SUB	L01B01
	FORSI TED & ASSOCIATES				--	DRY	UNCONSOL
SB00500910ACCD1 008	TED FORSI & ASSOCIATES	87.	--	--	--	SHADY NOOK SUB	L01B02
	FORSI TED & ASSOCIATES				--	DRY	UNCONSOL
SB00500910ADBB1 009	BUSTER ALLEN	83.	65.	2.	8.	TOD NELSON SUB	L08B01
SB00500910BAAB1 012	MARKS LORI L & ROBERT M	87.	36.	11.	50.	LETIANT SUB	L01
SB00500910BBB1 010	WEAVER EUGENE	83.	29.	14.	30.	SECTION 10 LOTS	UNSUBD LOT
	--				--	LAS	000819
SB00500910DABA1 001	KOFFMEYER MORRICE	88.39	22.6	--	--	--	--
SB00500910DAB1 011	AK DIV PKS SCOOT LK	83.	18.	13.18	20.	SECTION 10 LOTS	UNSUBD LOT
	--				--	LAS	000401
	--				--	REC FACILITY	SCOOT LAKE
	--				--	AK DIV PKS	SCOOT LK REC FA
SB00500911AABB1 034	STERLING PENTECOSTAL CHURCH	83.	21.	8.	12.	STERLING HTS	L08B02
SB00500911AABC1 007	NICHOLSON WALTER D	97.	41.	18.	40.	STERLING HTS	L10B03
	--				--	LAS	009545
SB00500911AACC1 009	BUNTZ LEN	77.	18.	11.	12.	STERLING HTS	L09B07
SB00500911AACC2 009	BUNTZ DAVE	77.	17.	11.	15.	STERLING HTS	L10B07
SB00500911AACC3 009	BUNTZ LEN-MCLEOD BUILDERS	77.	16.	10.	40.	STERLING HTS	L11B07

LOCAL WELL NUMBER	OWNER	ALTITUDE OF LAND SURFACE (METERS)	DEPTH OF WELL (METERS)	WATER LEVEL (METERS)	DISCHARGE (GPM)	ASSIGNOR OF OTHER IDENTIFIER	OTHER IDENTIFIER
SB00500911AAC3 009	MCLEOD BUILDERS-LEN BUNTZ	77.	16.	10.	--	--	--
SB00500911AAC4 009	MCLEOD BUILDERS, BUNTZ BUNTZ, MCLEOD BUILDERS	77.	17.	10.	20.	STERLING HTS 2	L12B07
SB00500911AACD1 033	BUNTZ LEN	77.	18.	11.	12.	STERLING HTS	L04B07
SB00500911AAD1 032	LOVE JOHN	77.	16.	10.	12.	STERLING HTS	L07B08
SB00500911ABAA1 012	HOVIS BLANCH & JAMES HIDPSHAM REBECCA & TOM	83.	44.	20.	35.	STERLING HTS 2	L04B01
SB00500911ABAB1 013	SMITH CHARLENE DENNIS	73.	12.6	--	12.	STERLING HTS 2	L03B01
SB00500911ABD01 014	ANDERSON ROD	75.	14.	9.	10.	STERLING HTS 2	L08B01
SB00500911ACBB1 036	VOHS ART	77.	12.	9.	12.	STERLING HTS 3	L03AB01
SB00500911ACBD1 010	KIFFMEYER JEFFRY HERSHBERGER DALE & RICE-WHITFORD RICE-WHITFORD & DALE HERSHBERGER	77.	16.	10.	--	STERLING HTS 1	L01B01
SB00500911ACCD1 031	MCCALL THELMA F	77.	13.	--	--	STERLING HTS 1	L08B02
SB00500911ADAA1 015	DECKENWE DEBBIE	77.	16.	8.	10.	STERLING HTS 2	L07B02
SB00500911ADDA1 037	POWELL HAROLD & WASH OUT LAUNDRY WASH OUT LAUNDRY (POWELL HAROLD	77.	25.	12.	30.	STERLING HTS 2	L08B03
SB00500911ADDD1 011	MCCALL FRED	77.	16.	9.	10.	STERLING HTS 2	L09AB03
SB00500911BAAA1 016	WM J NELSON & ASSOCIATES NELSON WM J & ASSOCIATES	73.	--	--	--	WEAVER DRY	L06B01 UNCONSOL
SB00500911BAAB1 017	WM J NELSON & ASSOCIATES NELSON WM J & ASSOCIATES	73.	--	2.	--	STERLING PJ 03 WEAVER PT1	BORING 16 L05B01NEAR
SB00500911BACA1 018	ROBINSON DEAN	83.	17.	12.	30.	STERLING PJ 03 WEAVER	BORING 17 L01B02
SB00500911BAD1 019	NORTHERN TEST LAB	83.	3.	--	--	WEAVER	L03B02NEAR
SB00500911BADB1 020	RILER HOWARD	83.	14.	9.	8.	STERLING PJ 01 DRY	TK 08 UNCONSOL
SB00500911BADC1 021	NORTHERN TEST LAB	83.	--	--	--	WEAVER PT1 WEAVER	L05AB01 L02B02
SB00500911BADC2 021	TORO ELDRIDGE ROYAL	83.	20.	14.	12.	STERLING PJ 01 WEAVER	TK 09 UNCONSOL L02B02
SB00500911BCDC1 002	WEAVERS JACK	83.02	52.	15.24	--	--	--
SB00500911CBAA1 035	ELIISON LINDA M41 D	77.	--	--	--	SECTION 11 LOTS	L13
SB00500911CBBA1 008	PETERSON JAMES KENNEY LOUIS, STERLING BUILDERS STERLING BUILDERS, LOUIS KENNEY	83.	20.	13.	25.	PATTERSON M02	TR03
SB00500911CBBB1 022	STERLING BUILDERS OBRIEN NIKKI & DOUG	83.	20.	13.	20.	PATTERSON M02	TR01
SB00500911DAAB1 001	STERLING SCHOOL KENAI BOROUGH STERLING SCHOOL	76.20	21.3	--	20.00	SECTION 11 LOTS	GOVT LOT 2
SB00500911DAAB2 001	AK DEPT EDUC STERLING	76.20	9.8	8.38	--	--	--
SB00500911DABB1 006	CHUMLEY LEE	73.15	14.9	11.58	8.00	GOVT TRACTS	L12
SB00500911DABC1 023	STERLING FIRE STATION, KENAI BOROUGH	73.	12.	5.	100.	STRING FIRE STA	L02
SB00500911DACB1 024	KENAI BOROUGH, STERLING FIRE STATION TADRIAINEN MIKE	73.	--	--	--	BARKER RON SUB RON BARKER SUB STERLING PJ 78 TP 03 DRY	L02B02 L02B02 TP 03 UNCONSOL
SB00500911DAC1 025	BARKER ENTERPRISES	70.	11.	4.	10.	BARKER RON SUB RON BARKER SUB	L04B02 L04B02
SB00500911DADC1 026	TADRIAINEN MIKE	73.	--	--	--	BARKER RON SUB RON BARKER SUB STERLING PJ 78 TP 02	L06B02 L06B02 L06B02
SB00500911DADC1 027	TADRIAINEN MIKE	73.	--	--	--	BARKER RON SUB RON BARKER SUB STERLING PJ 78 TP 01 DRY	L08B02 L08B02 TP 01 UNCONSOL
SB00500911DADD1 028	BARKER RAYMOND H	73.	--	--	--	BARKER RON SUB	L09B02
SB00500911DBCA1 005	NAT BANK OF AK.	76.20	12.2	8.97	--	RON BARKER SUB	L09B02
SB00500911DBDB1 003	HANDLEY JOHN	76.20	10.4	--	--	--	--
SB00500911DBDD1 004	CLARK WED	76.20	9.	--	--	--	--
SB00500911DDAC1 029	ANDERSON RITA & MEL	70.	19.	7.	40.	COTTONWOOD SPRUCE	L07B01

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SB00500911DDAC1 029	BAHNER DONALD	70.	19.	7.	--	--	--
SB00500911DDBA1 030	ROBINETTE ED CONSTRUCTION	73.	18.	18.	12.	COTTONWOOD SPRUCE	L05B01
SB00500912ABBA1 022	CRAIG ENIO	67.	--	--	--	GRANDVIEW	L03
SB00500912ABBB1 012	BROWN ERIC	67.	24.	7.	10.	GRANDVIEW	L09B01
SB00500912ABCB1 007	THORPE WAYNE	62.	19.	--	40.	GRANDVIEW	L11A
SB00500912ABCC1 013	CHUMLEY HUGH	67.	18.	8.	8.	GRANDVIEW 5	L01
SB00500912ABCD1 008	CHUMLEY HUGH	65.	29.	8.	60.	GRANDVIEW 5	L03B03
	PALMA VINCENT P				--	LAS	008470
SB00500912ABDC1 014	CHUMLEY HUGH	67.	27.	9.	35.	GRANDVIEW 5	L05
SB00500912ABDC2 014	NATIONAL BANK OF ALASKA	67.	24.	--	--	GRANDVIEW 3	L11B-2
SB00500912ACAB1 015	MCDOWELL SAM	67.	26.	--	--	GRANDVIEW	L13
	--				--	LAS	008467
SB00500912ACCC1 016	GRIZZELL JIM	67.	16.	6.	35.	GRANDVIEW	L16A
SB00500912ACDC1 017	LYSKEY WAYNE	67.	23.	18.	--	GRANDVIEW	L16-C
SB00500912BCCB1 001	LEVANS KEN	76.20	12.8	--	--	--	--
	CARTER JAMES W				--	--	--
SB00500912BCCB2 001	CARTER JAMES W	76.20	15.2	7.92	5.00	--	--
SB00500912CBCB1 009	STERLING BAPTIST CHURCH	73.	12.	8.	12.	MISSION SUB	L02
SB00500912CBCD1 010	BROWNING JENNIFER&JAMES	70.	9.	5.	15.	ANOTHER RD SUB	L01
SB00500912CBCD1S	BROWNING JAMES&JENNIFER	70.	--	--	--	ANOTHER RD SUB	L01
SB00500912CBDB1S	UNKNOWN	67.	--	--	--	--	--
	BROWNING JAMES				--	--	--
SB00500912DAAD1 002	MOOSE RIVER BAR	68.58	18.3	--	--	--	--
SB00500912DABD1 019	FISKE HENRY H	62.	11.	--	--	GREATLAND EST 2	TR01
	MCDOWELL SAM				--	LAS	008466
SB00500912DADC1 003	WHITE COLLEEN	68.58	9.8	4.57	20.00	GREATLAND EST 2	L09B02
SB00500912DBBC1 023	BOLSTRIDGE BASIL	67.	17.	6.	30.	SUMPTER SUB	L03B02
SB00500912DCAA1 010	FISKE HANK	67.	16.	8.	20	SUMPTER SUB	L20B08
	--				--	LAS	011290
SB00500912DCAD1 020	FISKE HANK	67.	23.	5.	18.	SUMPTER SUB	L16B08
SB00500912DDBB1 021	ZOLLMAN KAREN PARRISH	65.	13.	6.	20.	GREATLAND EST 2	L07B02
	PARRISH KAREN ZOLLMAN				--	--	--
SB00500912DDBC1 006	GRIZZELL JIM	73.	14.	6.	20.	GREATLAND EST 2	L06B02
	LEESMAN VERN E				--	LAS	005951
SB00500912DDCC1 005	COLLINS JIM	68.58	20.7	14.63	12.00	GREATLAND EST 2	L02B02
SB00500912DDCD1 004	FISKE HANK	67.06	9.1	4.57	15.00	GREATLAND EST 2	L01B02
SB00500912DDCD2 004	FISKE HANK	67.06	34.	15.85	10.00	GREATLAND EST 2	L01B02
SB00500912DDDD1 011	HECHT PAUL	67.	10.	--	--	GREATLAND EST 2	L01B01
	--				--	LAS	008341
SB00500913AAAB1 008	LEQUIRE MICHAEL	62.	22.	11.	20.	MOOSE RIVER EST	L07B01
SB00500913AAAC1 020	PJEIFFER SHAWN J				--	--	--
	ENBERG CHRISTINE	58.	28.	12.	10.	MOOSE RIVER EST	L08B01
	--				10.	--	--
SB00500913AABA1 019	GRIZZELL JIM	62.	34.	-3.	60.	MOOSE RIVER EST	L11B01
SB00500913AABC1 010	GRIZZELL JIM	62.	17.	9.	8.	MOOSE RIVER EST	L03B02
SB00500913ACAA1 011	PALMER LLOYD L	48.	9.	--	--	MOOSE RIVER EST	L01B04
SB00500913ACAC1 003	HARRIS LEE	48.	9.	-1.	30.	MOOSE RIVER EST	L20B03
	--				30.	LAS	001403
SB00500913ACAC2 003	DOWLING&RICE ASSOCIATES	48.	--	.51	--	MOOSE RIVER EST	L21B03
	--				--	STERLING PJ 84	TH 01
SB00500913ACAD1 004	WELSON DAVE	48.	10.	--	25.	MOOSE RIVER EST	L17B03
	--				10.	LAS	001135
SB00500913ACCA1 012	PROFESSIONAL DESIGN ASSOCIATES	48.	--	--	--	MOOSE RIVER EST	L25B03
	--				--	STERLING PJ 83	BORING MR3
	--				--	DRY	UNCONSOL
SB00500913ACCA2 012	PROFESSIONS DESIGN ASSOCIATES	48.	--	1.	--	MOOSE RIVER EST	L25B03
	--				--	STERLING PJ 83	BORING MR1
SB00500913ACCA3 012	RICE-WHITFORD&ASSOCIATES	48.	--	.8	--	MOOSE RIVER EST	L25B03
	PFEIFFER PAUL				--	STERLING PJ 86	TH 01
SB00500913ACCA4 012	PFEIFFER PAUL J	48.	41.	--	15.	MOOSE RIVER EST	L25B03
	--				10.	--	--
SB00500913ADAB1 017	HIEBERT AUGIE&PAT	50.	16.	0.	10.	MOOSE RIVER EST	L05B03
SB00500913BBAA1 013	HANSEN JAN&PATRICIA	65.	45.3	11.	100.	WRANGLE SUB 2	TR09
SB00500913BBAC1 014	HANSEN SAM	73.	45.3	11.	100.	WRANGLE SUB 3	L03
SB00500913BBBD1 002	JAMES HOVIS	68.58	53.	8.84	--	--	--

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SB00500913BBCB1 018	AULDRIDGE DALE H	67.	16.	9.	8.	AULDRIDGE SUB	L01
SB00500913BBCC1 001	AULDRIDGE T H	68.58	18.0	--	7.00	--	--
SB00500913BCDC1 009	RICKETTS CLIFF	62.	35.	7.	20.	WRANGLE SUB	TR05
SB00500913BDAB1 005	DOWLING-RICE & ASSOCIATES	67.	3.	3.	--	WRANGLE SUB	TR0A
	--				--	WRANGLE Q R ADD	L04
	--				--	STERLING PJ 83	TH02
SB00500913BDAC1 006	--	65.	2.3	2.	--	WRANGLE SUB	TR0A
	--				--	WRANGLE Q R ADD	L05
	--				--	STERLING PJ 83	TH03
SB00500913BDAD1 007	DOWLING-RICE & ASSOCIATES	67.	3.	--	--	WRANGLE SUB	TR0A
	--				--	WRANGLE Q R ADD	L08
	--				--	STERLING PJ 83	TH01
	--				--	DRY	UNCONSOL
SB00500913CB8B1 015	DORCAS LEE E	62.	9.	--	--	DORCAS SUB	TR01
SB00500913CB8C1 016	LONDELL DALE	67.	36.	21.	8.	SECTION 13 LOTS	UNSUBD LOT
SB00500914ADAD1 004	RATLIEF WANDA & TERRY	73.	48.	9.	15.	SCOOT RIDGE SUB	L03
SB00500914BACB1 005	WHITE MARK	73.	12.	7.	10.	DAYTON SUB	L04
	--				--	LAS	008775
SB00500914BADC1 001	KIMBALL PHILIP E	67.	9.	4.	20.	DAYTON SUB	L01
	--				--	LAS	004085C
SB00500914BBA1 006	MCLANE & ASSOCIATES INC	67.	--	1.7	--	CARMICHAEL SUB	TR0A
	--				--	STERLING PJ 82	BORING 04
SB00500914BB8B1 007	MCLANE & ASSOCIATES INC	73.	--	--	--	CARMICHAEL SUB	L01B01
	--				--	STERLING PJ 82	BORING 03
	--				--	DRY	UNCONSOL
SB00500914BBCC1 008	MCLANE & ASSOCIATES INC	77.	--	3.	--	CARMICHAEL SUB	TR0B
	--				--	STERLING PJ 82	BORING 01
SB00500914BBDD1 009	MCLANE & ASSOCIATES INC	73.	--	--	--	CARMICHAEL SUB	TR0B
	--				--	STERLING PJ 82	BORING 02
SB00500914BCBB1 010	WHITE DAVID L	75.	17.	--	--	FORSTNER SUB	TR0A
SB00500914BDAB1 011	FORSTNER LOUIS G	67.	11.	9.	15.	FORSTNER SUB 2	L01B02
SB00500914BDAC1 012	FORSTNER LOUIS G	67.	35.	35.	--	FORSTNER SUB 2	L08B02
SB00500914BDAD1 013	PENINSULA ENGINEERING	62.	--	2.	--	FORSTNER SUB 2	L03B02
	--				--	STERLING PJ 79	TR 03
SB00500914BDBC1 014	PENINSULA ENGINEERING	73.	--	--	--	FORSTNER SUB 2	L08B01
	--				--	STERLING PJ 79	TH 01
	--				--	DRY	UNCONSOL
SB00500914BDBC2 014	STEEGER KEVIN	73.	13.	6.	8.	FORSTNER SUB 2	L08B01
SB00500914BD8D1 003	CALIGAN HAROLD	70.	14.	--	--	FORSTNER SUB 2	L03B01
	SANDERS HOWARD				--	LAS	009259
SB00500914BDCB1 015	RAMISEY ROBIN & CHARLES	77.	26.	7.	7.	FORSTNER SUB 2	L07B01
SB00500914BDCB2 015	PENINSULA ENGINEERING	77.	--	--	--	FORSTNER SUB 2	L07B01
	--				--	STERLING PJ 79	TH 02
	--				--	DRY	UNCONSOL
SB00500914BDDA1 016	PENINSULA ENGINEERING	62.	--	2.	--	FORSTNER SUB 2	L04B02
	--				--	STERLING PJ 79	TH 04
SB00500914BDD1 017	PENINSULA ENGINEERING	62.	--	--	--	FORSTNER SUB 2	L05B02NEAR
	--				--	STERLING PJ 79	TH 07
	--				--	DRY	UNCONSOL
SB00500914CAAB1 029	WEST MIKE & DONNA	67.	18.	--	--	FORSTNER SUB 3	L01B03
SB00500914CAAD1 028	PENINSULA ENGINEERING	67.	--	3.	--	FORSTNER SUB 3	L03B03
	--				--	STERLING PJ 79	TH 06
SB00500914CABB1 002	TYGER CARL	73.	55.	15.	--	FORSTNER SUB 3	L01B04
	--				--	LAS	006323
SB00500914CABB2 002	PENINSULA ENGINEERING	73.	--	3.	--	FORSTNER SUB 2	L01B04
	--				--	STERLING PJ 79	TH 05
SB00500914CABC1 018	PENINSULA ENGINEERING	67.	--	--	--	FORSTNER SUB 3	L08B04
	--				--	STERLING PJ 79	TR 09
	--				--	DRY	UNCONSOL
SB00500914CABD1 019	PENINSULA ENGINEERING	67.	--	--	--	STERLING PJ 79	TH 08
	--				--	FORSTNER SUB 3	L03B04
	--				--	DRY	UNCONSOL
SB00500914CACB1 020	PENINSULA ENGINEERING	67.	--	--	--	FORSTNER SUB 3	L07B04
	--				--	STERLING PJ 79	TH 10
	--				--	DRY	UNCONSOL

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SB00500914CADC1 021	PENINSOLA ENGINEERING --	62.	--	2.	--	FORSTNER SUB 3	L05B03
SB00500914DCBC1 023	FISKE HANK	65.	16.	12.	4.	STERLING PJ 79	TH 11
SB00500914DCCA1 024	FISKE HANK	62.	66.	7.	100.	MTN RIDGE HTS	L02B01
SB00500914DDAC1 025	ALASKA DEC SECTION 14 DOW SITE --	58.	8.45	3.2	--	MTN RIDGE HTS	L03B02
SB00500914DDCA1 026	ALASKA DEC SECTION 14 DOW SITE --	62.	9.35	7.70	--	SECTION 14 LOTS	UNSUBD LOT
SB00500914DDDA1 027	ALASKA DEC SECTION 14 DOW SITE --	55.	6.99	1.75	--	STERLING PJ 88	BORING B3
SB00500914DDDB1 022	ALASKA DEC SECTION 14 DOW SITE --	62.	9.40	4.4	--	SECTION 14 LOTS	UNSUBD LOT
SB00500915AABA1 005	LUPTON WILLIAM	76.20	5.2	--	--	STERLING PJ 88	BORING B2
SB00500915AABH1 001	CLEN JIMMY	76.20	19.2	--	--	--	--
SB00500915ABBB1 003	YOUNG ROY	76.20	6.1	--	--	--	--
SB00500915ABBC1 008	YOUNG RICK&KATHY HAWKINSON DOUGLAS C --	73.	20.	12.	10.	MCHUTT R A SUB2	L01B
SB00500915ACBB1 010	ORTH MARK	83.	35.	15.	15.	LAS 00151C	--
SB00500915ACBC1 011	ORTH LEROY C/O RICE-WHITFORD&ASSOCIAT --	83.	25.	15.	10.	R A MCHUTT SUB2	L01B
SB00500915ACCB1 012	RICE-WHITFORD&ASSOCIATES C/O LEROY OR DOWLING-RICE&ASSOCIATES DESMIDT JOE --	83.	--	--	--	VALERIE ACRES	TR0H
SB00500915ACCC1 007	DESMIDT J	83.82	33.	13.72	20.00	VALERIE ACRES	TR0H
SB00500915BADA1 013	MERKES LEON H	77.	12.	--	--	MERMAFF SUB	L01
SB00500915BBA1 009	ABURTO LORENZO --	80.	19.3	12.	25.	SCOOT LAKE SUB	L09B01
SB00500915BBA2 009	STONE KEN	80.	31.0	12.	17.	LAS	008218
SB00500915BBAD1 015	GEESLIN JAMES	77.	19.	10.	25.	SCOOT LAKE SUB	L11B01
SB00500915BBBC1 016	WRIGHT BOB	80.	--	15.	20.	SCOOT LAKE SUB	L07B01
SB00500915BBBD1 017	RATLIFF TERRY	73.	48.	9.	15.	SCOOT LAKE SUB	L03B01
SB00500915BBCB1 018	BARR PAUL J	83.	21.	--	--	SCOOT LAKE SUB	L01B02
SB00500915BCBB1 019	SISSON CLIF	73.	26.	14.	20.	NAFF SUB	TR01
SB00500915BCCC1 014	VANRYZIN CHRIS	73.	17.	10.	15.	NAFF SUB	TR04
SB00500915BDAB1 020	MCLANE&ASSOCIATES INC --	83.	--	--	--	NAFF SUB PT2	L03B01
SB00500915BDAD1 021	MCLANE&ASSOCIATES INC --	83.	--	--	--	STERLING PJ 84	BORING 04
SB00500915BDBD1 022	MCLANE&ASSOCIATES INC --	83.	--	--	--	DRY	UNCONSOL
SB00500915BDCC1 023	MCLANE&ASSOCIATES INC --	83.	--	--	--	NAFF SUB PT2	L04405B02
SB00500915BDD1 024	MCLANE&ASSOCIATES INC --	83.	--	--	--	STERLING PJ 84	BORING 01
SB00500915BDBD1 022	MCLANE&ASSOCIATES INC --	83.	--	--	--	DRY	UNCONSOL
SB00500915BDCC1 023	MCLANE&ASSOCIATES INC --	83.	--	--	--	NAFF SUB PT2	L07B01
SB00500915BDD1 024	MCLANE&ASSOCIATES INC --	83.	--	--	--	STERLING PJ 84	BORING 05
SB00500915BDBD1 025	R&M CONSULTANTS --	73.	--	--	--	DRY	UNCONSOL
SB00500915BDBD1 026	R&M CONSULTANTS --	73.	--	--	--	NAFF SUB PT2	L09B02
SB00500915BDBD1 027	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 84	BORING 02
SB00500915BDBD1 028	R&M CONSULTANTS --	73.	--	--	--	DRY	UNCONSOL
SB00500915BDBD1 029	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 030	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 04
SB00500915BDBD1 031	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 032	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 03
SB00500915BDBD1 033	R&M CONSULTANTS --	73.	--	--	--	DRY	UNCONSOL
SB00500915BDBD1 034	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 035	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 06
SB00500915BDBD1 036	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 037	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 05
SB00500915BDBD1 038	R&M CONSULTANTS --	73.	--	--	--	DRY	UNCONSOL
SB00500915BDBD1 039	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 040	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 01
SB00500915BDBD1 041	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 042	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 043	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 044	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 045	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 046	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 047	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 048	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 049	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 050	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 051	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 052	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 053	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 054	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 055	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 056	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 057	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 058	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 059	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 060	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 061	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 062	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 063	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 064	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 065	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 066	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 067	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 068	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 069	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 070	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 071	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 072	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 073	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 074	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 075	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 076	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 077	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 078	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 079	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 080	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 081	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 082	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 083	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 084	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 085	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 086	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 087	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 088	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 089	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 090	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 091	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 092	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 093	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 094	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 095	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 096	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 097	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 098	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 099	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 100	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 101	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 102	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 103	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 104	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 105	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 106	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 107	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 108	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 109	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 110	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 111	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 112	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 113	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 114	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 115	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 116	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 117	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 118	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 119	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 120	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 121	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 122	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 123	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 124	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 125	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 126	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 127	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 128	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 129	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 130	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 131	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 132	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 133	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 134	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 135	R&M CONSULTANTS --	73.	--	--	--	SECTION 15 LOTS	UNSUBD LOT
SB00500915BDBD1 136	R&M CONSULTANTS --	73.	--	--	--	STERLING PJ 77	TH 02
SB00500915BDBD1 137							

LOCAL WELL NUMBER	OWNER	ALTITUDE OF LAND SURFACE (METERS)	DEPTH OF WELL (METERS)	WATER LEVEL (METERS)	DISCHARGE (GPM)	ASSIGNOR OF OTHER IDENTIFIER	OTHER IDENTIFIER
SB0050091SCCAA1 038	--	83.	46.	24.	--	LAS	000614
SB0050091SCCC1 031	MCLANE & ASSOCIATES INC	77.	--	4.	--	WOODFIN SUB	L10
SB0050091SCDC1 032	MCLANE & ASSOCIATES INC	83.	--	--	--	STERLING PJ 83	BORING 02
	--				--	WOODFIN SUB	L13
	--				--	STERLING PJ 83	BORING 01
SB0050091SCDD1 033	FNMA C/O RICE-WHITFORD ASSOCIATES	80.	33.	21.4	--	DRY	UNCONSOL
	RICE-WHITFORD ASSOCIATES, FNMA				--	WOODFIN SUB	L14
SB0050091SCDA1 004	GORDON ARTHUR	76.20	45.	--	--	--	--
SB0050091SCDA1 039	--	--	45.	27.97	--	--	--
SB0050091SCDB1 002	BRADFORD RALPH	76.20	44.	--	--	--	--
SB0050091SDBA1 037	NORTHLAND MORTGAGE	83.	29.	--	5.	CUSTER SUB	L0A4
SB0050091SDBA1 034	SPURGEON RON	83.	27.	18.	8.	EAGLE SCOUT 2	L02
	CARROLL RHEBA & DELTON				--	--	--
SB0050091SDBB1 035	EVANS JAMES	83.	29.	--	--	EAGLE SCOUT 2	L01
SB0050091SDBC1 036	SPURGEON RON	83.	29.	20.	20.	EAGLE SCOUT 2	L04
	HODDOX BOBBY				--	--	--
SB0050091SDBC2 036	HADDOCK ROBERT S	83.	51.	36.	10.	EAGLE SCOUT 2	L04
	--				--	EAGLE SCOUT 2	WELL 2 L04
SB0050091SDCB1 006	TRINITY CH DRNG CO	83.82	--	--	--	--	--

Appendix B. Inorganic constituents exceeding the maximum contaminant level (MCL) in the National Primary Drinking Water Regulations¹

ARSENIC MCL = 0.05 mg/L			CHROMIUM MCL = 0.05 mg/L		
Section & Map No. ²	Date	Value (mg/L)	Section & Map No. ²	Date	Value (mg/L)
6 1-8	05/15/85	0.056	1 1-5*	12/15/85	0.052
1 1-16*	08/30/90	0.11	1 1-16*	08/30/90	120.
1 2-12*	09/05/90	0.124	1 2-4*	12/16/85	0.238
1 3-6*	09/05/90	0.138	1 2-12*	09/05/90	1.35
7 3-9	06/20/86	0.065	1 2-25*	12/16/85	0.066
7 3-28	06/19/86	0.073	1 3-6*	09/05/90	1.13

LEAD MCL = 0.05 mg/L		
Section & Map No. ²	Date	Value (mg/L)
1 1-16*	08/30/90	0.066
1 2-6*	01/15/80	0.88
1 2-12*	09/05/90	0.21
1 3-6*	09/05/90	0.28
1 3-16*	09/26/83	0.074

¹ Regulated for health concerns, Code of Federal Regulations, Title 40, Part 141, 1990.

² Map numbers with asterisks refer to wells at the Sterling Special Waste Site, NE¼ of NW¼ of Section 1, T5N R9W Seward Meridian.

Appendix B. (continued) Inorganic constituents exceeding the maximum contaminant level (MCL) in the National Primary Drinking Water Regulations¹

BARIUM MCL = 1.0 mg/L			CADMIUM MCL = 0.01 mg/L		
Section & Map No.²	Date	Value (mg/L)	Section & Map No.²	Date	Value (mg/L)
1 2-12*	09/05/90	4.0	1 2-6*	01/15/80	0.05
1 3-6*	09/05/90	2.3	1 2-26*	07/07/87	0.025

MERCURY MCL = 0.002 mg/L			NITRATE MCL = 10 mg/L		
Section & Map No.²	Date	Value (mg/L)	Section & Map No.²	Date	Value (mg/L)
1 1-1	11/03/83	0.0021	1 1-16*	08/30/90	12
1 3-6*	09/05/90	0.0022	1 3-6*	09/05/90	15

¹ Regulated for health concerns, Code of Federal Regulations, Title 40, Part 141, 1990.

² Map numbers with asterisks refer to wells at the Sterling Special Waste Site, NE¼ of NW¼ of Section 1, T5N R9W Seward Meridian.

Appendix C. Inorganic constituents exceeding the maximum contaminant levels (MCL) in the National Secondary Drinking Water Regulations¹

IRON MCL = 0.3 mg/L					MANGANESE MCL = 0.05 mg/L				
Section/ Map No. ²	Date	Value (mg/L)	Mean value (mg/L)	No. of analyses	Section/ Map No. ²	Date	Value (mg/L)	Mean value (mg/L)	No. of analyses
1 1-2	-	-	1.5	3	1 1-2	-	-	0.25	3
2 1-3	05/15/85	0.8	-	1	2 1-5	-	-	0.13	4
2 1-5	-	-	0.5	3	6 1-8	-	-	1.1	5
6 1-8	-	-	0.6	5	12 1-8	-	-	0.12	2
6 1-9	-	-	0.5	4	1 1-9*	07/22/82	0.21	-	1
1 1-9*	07/22/82	2.6	-	1	12 1-13	-	-	0.08	2
12 1-13	-	-	1.1	2	2 1-15	-	-	0.10	2
2 1-15	09/20/85	0.34	-	1	2 1-16	-	-	0.20	2
2 1-16	-	-	0.5	2	7 1-17	09/20/85	0.10	-	1
15 1-19	-	-	10.9	4	15 1-19	-	-	0.20	5
1 1-21	-	-	7.9	2	1 1-21	-	-	0.17	2
12 1-22	05/14/85	0.4	-	1	12 1-21	-	-	0.14	2
1 1-22	-	-	1.6	4	12 1-22	-	-	0.14	3
1 1-23	-	-	1.2	3	1 1-23	-	-	0.12	3
7 1-35	09/20/85	0.66	-	1	7 1-34	-	-	0.21	2
1 2-6*	-	-	4.2	26	7 1-35	09/20/85	0.08	-	1
1 2-13*	-	-	4.8	15	7 1-36	05/13/86	0.15	-	1
1 2-17	05/12/80	0.39	-	1	1 2-6*	-	-	0.10	23
1 3-16*	-	-	3.4	21	7 3-9	05/13/86	0.07	-	1
7 3-28	-	-	1.8	3	1 3-16*	-	-	0.19	19
1 6-6*	-	-	1.3	3	7 3-28	-	-	3.3	3
					1 5-6*	-	-	0.52	4

¹ Excluding pH (see text, p. 5). Inorganics regulated for aesthetic concerns, Code of Federal Regulations, Title 40, Part 143, 1990.

² Map numbers with asterisks refer to wells at the Sterling Special Waste Site, NE¼ of NW¼ of Section 1, T5N R9W Seward Meridian.

Appendix C. (continued) Inorganic constituents exceeding the maximum contaminant levels (MCL) in the National Secondary Drinking Water Regulations¹

ZINC MCL = 5.0 mg/L			CHLORIDE MCL = 250 mg/L		
Section & Map No. ²	Date	Value (mg/L)	Section & Map No. ²	Date	Value (mg/L)
1 2-6*	01/15/80	28	1 1-11*	09/05/90	298
1 2-26*	06/23/87	6.4	1 2-26*	09/05/90	481
1 3-16*2	04/11/83	8.8	7 3-28	10/11/85	600
1 3-16*	09/26/83	8.6			
1 5-6*	12/17/85	11.9			

COPPER MCL = 1.0 mg/L		
Section & Map No. ²	Date	Value (mg/L)
11 1-1	10/18/88	4.2

¹ Excluding pH (see text, p. 5). Inorganics regulated for aesthetic concerns, Code of Federal Regulations, Title 40, Part 143, 1990.

² Map numbers with asterisks refer to wells at the Sterling Special Waste Site, NE¼ of NW¼ of Section 1, T5N R9W Seward Meridian.

Appendix D. Regulated volatile organic compounds exceeding the maximum contaminant level (MCL) in the National Primary Drinking Water Regulations.¹

BENZENE MCL = 0.005 mg/L					
Section	Map No.	Date	Value or Mean Value (mg/L)	Range	No. of analyses
17	1-17	11/11/88 08/18/89	0.014	0.005-0.022	2
7	1-27	04/11/89	0.012	-	1
7	1-38	04/11/89 10/20/89	0.014	0.012-0.016	2
7	1-39	04/22/89 03/13/90 10/14/90	6.67	3.02-8.60	3
7	2-39	04/22/89 03/13/90 10/20/90	0.91	0.62-1.10	3
7	3-27	04/11/89 10/20/89	1.50	1.19-1.81	2
7	6-39	03/11/90 10/13/90	0.021	1.010-0.033	2
7	7-27	10/20/90	3.96	-	1
7	7-39	03/15/90	4.95	4.20-5.71	2
7	8-27	10/20/89	5.33	-	1

¹ Regulated for health concerns, Code of Federal Regulations, Title 40, Part 141, 1990.