

Hydrogeology

Advance and retreat of Ice Age continental and alpine glaciers have had profound effects on the physiography, topography, and hydrogeologic character of the Okanogan River watershed. The most recent glaciation ended about 10,000 years ago, when the Okanogan Lobe of the Vashon continental glacier retreated from the valley. The resulting Pleistocene glacial deposits and the subsequent Holocene alluvial deposits form the primary aquifers in the watershed.

Bedrock

Bedrock in the watershed is composed mostly of granitic and andesitic rocks, and metamorphosed sedimentary rocks (Walters, 1974). Basalt underlies the Omak Plateau, the relatively flat, roughly triangular area between the Okanogan River, Omak Lake, and the Columbia River. This basalt is a northern extension of the lava flows, which form the Columbia Plateau.

Although fractured bedrock can yield ground water in small amounts for local, small-scale consumption, it is a relatively insignificant source of ground water in the watershed. In most areas the bedrock is nearly devoid of water, is effectively impermeable, and can be regarded as the bottom of the ground-water reservoir (Walters, 1974).

Principal Aquifers

The majority of ground water in the watershed is obtained from glacial and alluvial deposits in the valleys of the Okanogan River and its tributaries.

As is typical in alluvial and glacial deposits, well yield and total depth are extremely variable within the watershed, depending upon numerous hydrogeologic factors. Well depths in the valleys commonly range from 20 to 80 feet, but well depths of 200 feet or greater are not uncommon (Walters, 1974; Ebbert, 1984). Well yields ranging from “marginal” to as much as 5,000 gallons per minute (gpm) have been reported (Walters, 1974). Well yields in the Okanogan River valley average about 300 gpm, but yields tend to be lower in tributary valleys where aquifers are not as extensive (Walters, 1974).

In a general sense, depths to the water table tend to be shallower near the rivers and streams and deeper near the valley margins (Walters, 1974). Overall, though, the depth to water varies tremendously throughout the watershed, ranging from a few feet to greater than 200 feet.

There are numerous, disconnected glaciofluvial terraces along the flanks of the Okanogan River valley which, except for isolated perched aquifers, tend to be dry. Larger terraces, such as those on Pogue Flat and Wagonroad Coulee, have yielded significant, sustained ground-water supplies (Walters, 1974).

Surface-Water/Ground-Water Interaction

Ground water within the alluvial and glacial deposits in the Okanogan Watershed is, for the most part, in direct hydraulic continuity with surface water. Some aquifers may appear to be confined locally, but local aquitards of interbedded clay, silt, and till are relatively inconsequential when

compared to the regional aquifer system. It is best to assume, unless there is strong evidence to the contrary, that essentially all ground water contained in the alluvial/glacial aquifers, including that in tributary valleys, is in hydraulic continuity with surface water.

Surface-water flows are dependent on ground-water occurrence and movement. This is particularly true during the dry months of the year when stream discharge is made up almost entirely from baseflow.

Ground-Water Quality

Ground-water quality in the Okanogan watershed is generally good and suitable for most purposes (Walters, 1974; Ebbert, 1984). Ground water in the Okanogan River drainage system appears to be of two predominant water types, calcium bicarbonate and calcium-magnesium bicarbonate (Ebbert, 1984). Ground-water hardness ranges from soft to very hard. Ebbert (1984) reported some wells where concentrations of TDS, iron, manganese, sulfate, and/or selenium exceeded maximum contaminant levels (MCL) specified by the U.S. Environmental Protection Agency (EPA). In all cases, the wells sampled were scattered throughout the Okanogan region indicating local water-quality influences rather than regional problems.

Methods

Data Capture Procedures

Data sources were identified through direct contact with data holders. Data in published and unpublished reports was reviewed and referenced. Data held in electronic format were copied directly if they were in a Microsoft-compatible format. If they were not, then they were downloaded as ASCII files, which were then imported into Microsoft Excel spreadsheets.

Information Sources

The Following sources were checked for data in the Okanogan watershed.

- U.S. Geological Survey reports and unpublished records
- U.S. Geological Survey database records (Ecology)
- Washington State Department of Ecology published reports and unpublished records
- U.S. Environmental Protection Agency reports and STORET database records
- Okanogan County Health District data records
- British Columbia Ministry of the Environment, Water Quality Branch published reports and unpublished information
- Colville Confederated Tribes data records
- Washington State Department of Health data records
- Reports and studies by consultants

Data Quality Objectives

The data quality objectives are to maintain accuracy and precision of the source data and to document the accuracy of each data source.

Data

U.S. Geological Survey (USGS)

Data obtained from USGS are shown in Appendix A and on the floppy disk as a Microsoft Excel spreadsheet file named "usgsdata.xls". Water quality parameters include temperature, pH, specific conductance, major ions, metals, nitrate-N, fecal coliform bacteria, and solids.

Public water supply wells, domestic wells, and irrigation wells were all sampled to obtain these data. The data listed results from sampling that occurred from 1958 through 1979. In 1971, five wells were sampled for physical, chemical, and biological parameters. In 1979, seventeen wells were tested for major anions and cations, nitrate+nitrite, iron, manganese, temperature, specific conductance, and pH; five wells were tested for fecal coliform bacteria; and three wells were tested for trace metals. The rest of the data results from scattered sampling events.

Descriptions of these data are published in Ebbert (1984) and Packard et al. (1983).

Washington State Department of Health (WDOH)

Data obtained from WDOH are shown in Appendix B and C. Appendix B contains chloride data and related information. Appendix C contains the nitrate data. Related files on the floppy disk are named "wdoh_cl.xls" and "wdoh_no3.xls", respectively. Data for other water-quality parameters including conductivity, TDS, synthetic organics, volatile organics, and metals (As, Ba, Cd, Cr, Fl, Pb, Hg, Se, Ag, Na, Cu, Fe Mn, Zn, and sulfate) are available from the WDOH database.

All data were obtained by sampling Class A and B public water supply systems. Class A and B systems include all public supply wells that have more than two connections. The data listed are from 1982 through 1997.

The primary contact at WDOH for this data is Ginne Stern (360) 236-3134.

Ecology–Toxics Cleanup Program

Ecology's Toxics Cleanup Program has 25 cleanup sites in the Okanogan watershed with impacts to ground water. These sites and the associated data are listed in Appendix D and on the floppy disk under the file name, "wdoe_tcp.xls".

The water-quality parameters listed include conventional organics and inorganics, base neutrals, halogenated organics, metals, non-halogenated solvents, PCBs, pesticides, and phenols. The sampling dates and periods of record are project-dependent and vary greatly.

Debra Kroon (509) 454-7842 in Ecology's Central Regional Office (CRO) is the contact for information about this TCP data.

Ecology–Water Quality Program

Ecology's Water Quality Program has two study sites in the Okanogan watershed. These are the Tonasket municipal effluent lagoon and the Omak Wood Products plant. Data for these sites are in the Water Quality Program files at CRO. Bob Rafterth, (509) 457-7113, at CRO is the contact for information about these WQP data.

Ecology–Water Resources Program

Ecology's Water Resources Program at the CRO monitors ground-water level in 30 to 35 wells in the Okanogan watershed. These wells are part of a regional water-level monitoring network.

Water levels are measured annually in the spring prior to the beginning of the irrigation season. This timing provides static water levels before irrigation pumps are turned on for the irrigation season.

Prior to 1990, all wells in the water-level monitoring network were measured twice per year: once prior to the irrigation pumps being turned on, and again just after the irrigation season. This provided the static water levels in the spring and pumping drawdown levels in the fall.

Domestic wells, irrigation wells, and public supply wells are all included in the water-level monitoring network. The data are contained, for the most part, on paper copies in the CRO files. Some of the data are described in Walters (1974).

Anna Hoselton (509) 454-7887 and Todd Kirk (509) 457-7146 of the Water Resources Program CRO are the contacts for information about these data.

Ecology–Miscellaneous

SCS Engineers (1980) conducted an apple packing effluent study for the Ecology and the U.S. Environmental Protection Agency. SCS monitored ten wells in Oroville and Tonasket for Diphenylamine (DPA), benomyl, thiabendazole (TBZ), sodium orthophenylphenate (SOPP), chemical oxygen demand (COD), 5-day biochemical oxygen demand (BOD₅), dissolved oxygen, total suspended solids, turbidity, phenols, and chlorine residuals. The results are contained in the published report (see *References Cited*) available through the Department of Ecology library.

Washington State Department of Natural Resources, Division of Geology and Earth Resources

The Division of Geology and Earth Resources has published a number of geologic maps and studies in the Okanogan watershed (see *References Cited and Other References*, below).

Okanogan County Health District

The Okanogan County Health District has data from numerous wells in the county. Ground-water samples from private and public water supply wells have been analyzed for fecal and total coliform bacteria, E.coli, and nitrate-N. The data are being entered into a database.

John Callen and Jacquelyn Bellinger of the Okanogan County Health District (509) 422-7140 are the contacts for information about these data.

Colville Confederated Tribes

The Colville Confederated Tribes were contacted, but they have no ground water data available. Gary Passmore (509) 634-8844 is the contact for the tribes.

British Columbia

The British Columbia Ministry of Environment has ground-water data for numerous wells in the Okanogan watershed. In 1985, they sampled ground water and measured water levels in 100 wells in the watershed. Twenty-three of those wells, on the west side of Lake Osoyoos in Osoyoos, B.C., have been used for ongoing, annual monitoring since 1987. Sixteen of the wells are piezometers and seven are domestic wells.

The wells have been tested for nutrients, major ions, trace metals, TDS, and temperature. Six wells have been monitored for continuous water-level data since 1989.

Two published reports by York (1994) and Hodge (1985) describe the ground-water-quality-assessment program and the data obtained.

Bill Hodge (250) 387-9463 with the B.C. Ministry of Environment is the contact for information about these data.

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Contacts

Robert S. Garrigues/ Washington State Department of Ecology
Barbara Carey Environmental Assessment Program
(360) 407-6638/407-6769

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Appendix A

Appendix A

U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	DATES	TIMES	LATITUDE	LONGITUDE	LOCAL	Depth of Well	Elev_ LSD
480220119404201	1970.11.12		480220	1194042	29N/25E-03L01	140	860
480220119404201	1971.05.27		480220	1194042	29N/25E-03L01	140	860
480600120010801	1979.07.10	1305	480559	1200112	30N/22E-13G01	52	1050
480741120000601	1970.11.12		480741	1200006	30N/23E-06K02	75	1130
480741120000601	1971.05.27		480741	1200006	30N/23E-06K02	75	1130
480628119410901	1979.06.28	1315	480630	1194058	30N/25E-10N01	61	780
480748118581101	1972.07.10		480748	1185811	30N/31E-06E02	292	1770
480908120031501	1979.07.10	1135	480907	1200319	31N/22E-26N01	40	1220
481120119405101	1979.06.28	1505	481120	1194051	31N/25E-15C01	223	795
480927119450801	1971.10.08	1050	480927	1194508	31N/25E-30M01	143	1270
481214118591401	1972.07.11		481214	1185914	31N/30E-12F01	22	1860
481002118584201	1959.10.21		481002	1185842	31N/30E-24R01	27	1900
481002118584201	1960.05.18		481002	1185842	31N/30E-24R01	27	1900
481235118540301	1970.11.16		481235	1185403	31N/31E-03P01	199	2595
481235118540301	1971.05.26		481235	1185403	31N/31E-03P01	199	2600
481305118575001	1972.07.11		481305	1185750	31N/31E-06G01	14	1875
481244118575201	1972.07.10		481244	1185752	31N/31E-06P01	18	1870
481050118522001	1972.07.11		481050	1185220	31N/31E-23B01	300	2439
481045118523501	1972.07.11		481045	1185235	31N/31E-23C01	360	2480
481720120041501	1979.07.10	1030	481720	1200415	32N/22E-10F01	105	1490
481829119385301	1979.06.28	800	481829	1193853	32N/25E-02A01	88	850
481744119421101	1979.06.28	925	481744	1194211	32N/25E-04P01	237	1030
481456119434001	1979.06.28	1030	481456	1194340	32N/25E-29D01	142	860
481329119172001	1972.07.11		481329	1191720	32N/28E-34P01	154	
482203120071201	1959.10.20		482203	1200712	33N/22E-08N01	52	1580
482203120071201	1960.05.18		482203	1200712	33N/22E-08N01	52	1580
482154120070701	1979.07.09	1525	482154	1200707	33N/22E-17D01	100	1609
482240119340001	1979.06.27	1405	482240	1193400	33N/26E-09B01	117	840
482144119342601	1958.03.27		482144	1193426	33N/26E-16F01	118	880
481936119370401	1979.06.27	1530	481936	1193704	33N/26E-30L01	78	870
482109119263001	1972.07.11		482109	1192630	33N/27E-21C04	48	1160
482105119263101	1972.07.11		482105	1192631	33N/27E-21C05	1	1150
481923119255000	1972.09.20	1400	481923	1192550	33N/27E-33A02	25.7	957
482832119315001	1971.10.08	915	482832	1193150	34N/26E-02L01	118	1330
482812119315001	1979.06.27	1130	482812	1193150	34N/26E-02P01	117	1320
482802119315801	1971.05.27		482802	1193158	34N/26E-11D02	113	1320
482443119313101	1959.10.21		482443	1193131	34N/26E-26Q01	30	835
482443119313101	1960.05.17		482443	1193131	34N/26E-26Q01	30	835
482443119313101	1960.10.20		482443	1193131	34N/26E-26Q01	30	835
482612119274701	1979.06.27	1310	482612	1192747	34N/27E-20F01	73	880
482919120141701	1979.07.10	815	482919	1201417	35N/21E-32K01	103	1840
483040119445601	1961.01.10		483040	1194456	35N/25E-06M01	50	2320

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	Water Temp. deg C	P00059 = Flow Rate	P00080 = Color (PT-CO units)	Specific Conductance	pH	P00405	P00410 = P00440 = T. Alk, as Bicarb. As		P00445
							CaCO ₃ (mg/L)	HCO ₃ (mg/L)	
480220119404201	14		0	570	7.8	6.6	214	260	0
480220119404201	14.5			581	8.3	2.2	230	280	
480600120010801	11			215	7.8	2.7	89	110	0
480741120000601	9.5		0	230	7.7	4.1	105	130	0
480741120000601	11			113	7.9	1.4	57	70	0
480628119410901	14			610	7.7	9.3	240	290	0
480748118581101	12			47	7.6				
480908120031501	11			240	7.6	5.3	110	130	0
481120119405101	14			540	7.6	8.8	180	220	0
480927119450801	13		5	405	8	3.9	199	240	0
481214118591401				124					
481002118584201	11		0	416	7.7	6.3	164	200	0
481002118584201	11			406	7.7	6.2	160	200	0
481235118540301			0	246	8	2.2	116	140	0
481235118540301	10.5			252	8.3	1.3	130	160	
481305118575001	8.5			206					
481244118575201	12			219					
481050118522001	11.5			313	7.4				
481045118523501	13.5			624					
481720120041501	12.5			290	7.8	2.5	81	99	0
481829119385301	13.5			545	7.5	11	180	220	0
481744119421101	13			675	7.5	13	220	270	0
481456119434001	14			530	7.8	6.7	220	270	0
481329119172001	12.5			325					
482203120071201	11		0	215	7.2	11	91	110	0
482203120071201	8			190	7.2	11	89	110	0
482154120070701	9			176	7.4	5.5	71	87	0
482240119340001	15			670	7.5	9.8	160	200	0
482144119342601	14.5		0	567	7.8	5.7	186	230	0
481936119370401	15			690	7.5	12	199	240	0
482109119263001	11			226					
482105119263101	16			203					
481923119255000		5	20	482	7.5	16	260	320	0
482832119315001	11		5	866	7.7	8	207	250	0
482812119315001	11			718	7.2	29	240	290	0
482802119315801	10		5	608	7.8	6.4	209	250	0
482443119313101	15.5		0	519	8	3.9	200	240	0
482443119313101	11.5		0	412	7.8	4.9	159	190	0
482443119313101	13.5			532	7.9	5	204	250	0
482612119274701	12.5			430	7.4	15	190	230	0
482919120141701	10.5			160	7.3	7.2	75	91	0
483040119445601			5	253	7.3	10	103	130	0

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Okanogan Watershed

Station ID	P00630 =		Filtered	Hardness,	P00902 =			
	NO ₂ +NO ₃ , N-total (mg/L)	R_Filtered NO ₂ +NO ₃ (qualifier)			Hardness, Non-carb (mg/L)	Calcium	Magnesium	Sodium
480220119404201				270	57	69	24	15
480220119404201				270	41	69	24	
480600120010801			0.77	89	0	28	4.7	5.4
480741120000601				110	2	33	5.8	6
480741120000601				46	0	14	2.8	
480628119410901			1	250	10	63	23	28
480748118581101				12		3.5	0.8	
480908120031501			0.85	100	0	31	6.2	6.6
481120119405101		<	0.1	210	30	55	18	27
480927119450801	1.5			150	0	42	10	29
481214118591401				49		14	3.5	
481002118584201				190	24	46	18	16
481002118584201				180	24			
481235118540301				110	0	30	8.2	9.1
481235118540301				110	0	31	8.7	
481305118575001				92		24	7.7	
481244118575201				96		25	8.1	
481050118522001				98		38	0.8	
481045118523501				140		43	8.3	
481720120041501			0.55	82	1	21	7.1	4.6
481829119385301			3	260	80	71	19	8.6
481744119421101			0.52	300	80	82	24	21
481456119434001		<	0.1	260	40	66	24	9.8
481329119172001				140		40	9.2	
482203120071201				99	9	33	4.1	4.3
482203120071201				98	9			
482154120070701			0.53	74	3	23	4.1	3
482240119340001			0.09	300	140	64	33	20
482144119342601				230	43	54	23	34
481936119370401			0.68	320	120	92	23	17
482109119263001				86		24	6.3	
482105119263101				73		20	5.7	
481923119255000	0.04			200	0	57	14	21
482832119315001	1.8			400	190	110	29	28
482812119315001			1.1	330	90	94	24	20
482802119315801	0.37			330	120	92	23	15
482443119313101				260	56	55	29	13
482443119313101				190	37	40	23	10
482443119313101				260				
482612119274701			0.82	190	0	43	19	15
482919120141701			0.09	71	0	21	4.4	2.7
483040119445601				110	11	34	7.1	4.9

Appendix A

U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	Sodium adsorption	Sodium, percent	P00933	Potassium	Chloride	Sulfate	Fluoride	Silica	R01000 (qualifier)	P01000 = As, diss. (ug/L)
480220119404201	0.4	11		5	6.3	64	0.2	26		
480220119404201					6.1					
480600120010801	0.2	11	6.7	1.3	1	10	0.2	13		
480741120000601	0.3	11		1	0.6	13	0.1	13		
480741120000601					1					
480628119410901	0.8	19	33	5.3	4.6	80	0.2	19		5
480748118581101					0.7					
480908120031501	0.3	12	7.8	1.2	0.8	11	0.2	15		
481120119405101	0.8	21	32	5	4.1	96	0.4	20		
480927119450801	1	30		3.5	5.2	14	0.3	25		
481214118591401					1.3					
481002118584201	0.5	15		2.8	1.8	48	0.7	23		
481002118584201										
481235118540301	0.4	15		1.2	0.5	13	0.4	21		
481235118540301					0.7					
481305118575001					0.3					
481244118575201					0.4					
481050118522001					1.4					
481045118523501					8.1					
481720120041501	0.2	11	6	1.4	1.1	17	0.2	14		
481829119385301	0.2	7	14	5.3	2.9	65	0.1	20		
481744119421101	0.5	13	28	6.5	2.9	140	0.3	21		
481456119434001	0.3	7	14	4.2	3	62	0.3	23		
481329119172001					1.3					
482203120071201	0.2	8		1.2	0.8	14	0	13		
482203120071201										
482154120070701	0.2	8	3.5	0.5	1.3	9.4	0.1	11	<	1
482240119340001	0.5	12	27	7.1	2.7	190	0.6	23		6
482144119342601	1	24		4.4	3	110	0.5	19		
481936119370401	0.4	10	25	7.8	15	150	0.3	19		
482109119263001					1.4					
482105119263101					1.2					
481923119255000	0.6	18		3.3	2.1	3.4	1	60		
482832119315001	0.6	13		5.9	4.5	260	0.1	23		
482812119315001	0.5	11	26	6.3	4.2	130	0.3	22		
482802119315801	0.4	9		5.5	2.1	130	0.2	24		
482443119313101	0.4	10		5.2	1.8	75	0.5	28		
482443119313101	0.3	10		4	2	55	0.4	23		
482443119313101										
482612119274701	0.5	15	18	3.4	3.2	33	0.3	18		
482919120141701	0.1	8	3.2	0.5	0.5	6	0.1	9.9		
483040119445601	0.2	8		2.7	0.8	24	0.1	15		

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	P01025 =				P01040 =		P01045 =	
	Barium	R01025 (qualifier)	Cd, diss. (ug/L)	R_Chromium, dis. (qualifier)	Chromium, dis.	R01040 (qualifier)	Cu, diss. (ug/L)	Fe, total (ug/)
480220119404201				<	30	<	50	10
480220119404201								
480600120010801								
480741120000601				<	30	<	50	20
480741120000601								
480628119410901	50	<	2	U	0		3	
480748118581101								
480908120031501								
481120119405101								
480927119450801				<	30	<	50	40
481214118591401								
481002118584201								10
481002118584201								
481235118540301								
481235118540301				<	30	<	50	20
481305118575001								
481244118575201								
481050118522001								
481045118523501								
481720120041501								
481829119385301								
481744119421101								
481456119434001								
481329119172001								
482203120071201								20
482203120071201								
482154120070701	10	<	2	U	0	U	0	
482240119340001	40	<	2	U	0		2	
482144119342601								440
481936119370401								
482109119263001								
482105119263101								
481923119255000								
482832119315001				<	30	<	50	200
482812119315001								
482802119315801				<	30	<	50	20
482443119313101								190
482443119313101								410
482443119313101								
482612119274701								
482919120141701								
483040119445601								350

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	R_Iron (qualifier)	Iron	P01049 = R01049 (qualifier)	Pb, diss. (ug/L)	P01055 = R01055 (qualifier)	Mn, diss. (ug/L)	R_Manganese (qualifier)	Manganese	R_Nickel (qualifier)
480220119404201			<	100	<	20			<
480220119404201									
480600120010801	<	10					<	1	
480741120000601			<	100	<	20			<
480741120000601									
480628119410901	<	10	U	0				30	
480748118581101									
480908120031501	<	10					<	1	
481120119405101		60						140	
480927119450801			<	100	<	20			
481214118591401									
481002118584201									
481002118584201									
481235118540301									
481235118540301			<	100		300			
481305118575001									
481244118575201									
481050118522001									
481045118523501									
481720120041501	<	0					<	1	
481829119385301	<	10					<	1	
481744119421101	<	10					<	1	
481456119434001		110						90	
481329119172001									
482203120071201									
482203120071201									
482154120070701	<	10	U	0				2	
482240119340001	<	10	U	0				100	
482144119342601									
481936119370401	<	10					<	1	
482109119263001									
482105119263101									
481923119255000									
482832119315001			<	100		40			
482812119315001		20					<	1	
482802119315801			<	100	<	20			
482443119313101									
482443119313101									
482443119313101									
482612119274701	<	10						4	
482919120141701	<	10					<	1	
483040119445601									

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Okanogan Watershed

Station ID	Nickel	R_Silver (qualifier)	Silver	R_Strontium (qualifier)	Strontium	R01090 (qualifier)	P01090 = Zn, diss. (ug/L)	R01105 (qualifier)	P01105 = Al, total (ug/L)
480220119404201	50				100		450	110	
480220119404201									
480600120010801									
480741120000601	50				50	<	10	70	
480741120000601									
480628119410901		U	0				3		
480748118581101									
480908120031501									
481120119405101									
480927119450801					440	<	10	30	
481214118591401									
481002118584201									
481002118584201									
481235118540301									
481235118540301					250	<	10	< 10	
481305118575001									
481244118575201									
481050118522001									
481045118523501									
481720120041501									
481829119385301									
481744119421101									
481456119434001									
481329119172001									
482203120071201									
482203120071201									
482154120070701		U	0			<	20		
482240119340001		U	0			<	3		
482144119342601									
481936119370401									
482109119263001									
482105119263101									
481923119255000									
482832119315001					790	<	10	50	
482812119315001									
482802119315801					900	<	10	< 10	
482443119313101									
482443119313101									
482443119313101									
482612119274701									
482919120141701									
483040119445601									

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U.S. Geological Survey Ground-Water Quality Data

Okanogon Watershed

Station ID	R_Aluminum (qualifier)	Aluminum	R_Lithium	Lithium	R_Selenium	Selenium	R31625 (qualifier)	P31625 = Fecal Col. (CAGAD/100M)
480220119404201			<	20				
480220119404201								
480600120010801							<	1
480741120000601			<	20				
480741120000601								
480628119410901		10				12		
480748118581101								
480908120031501							<	1
481120119405101								
480927119450801			<	20				
481214118591401								
481002118584201								
481002118584201								
481235118540301								
481235118540301			<	20				
481305118575001								
481244118575201								
481050118522001								
481045118523501								
481720120041501								
481829119385301								
481744119421101								
481456119434001							<	1
481329119172001								
482203120071201								
482203120071201								
482154120070701	<	100			<	1	<	1
482240119340001		20				1	<	1
482144119342601								
481936119370401							<	1
482109119263001								
482105119263101								
481923119255000								
482832119315001			<	20				
482812119315001								
482802119315801			<	20				
482443119313101								
482443119313101								
482443119313101								
482612119274701								
482919120141701							<	1
483040119445601								

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Okanogan Watershed

Station ID	Residue, 180 Celsius	Solids, sum of constituents	Solids, dis. tons/ac-ft	R70507 (qualifier)	P70507	P71850	R71890 (qualifier)	P71890 = Hg, diss. (ug/L)	P72001
480220119404201	376	338	0.51			22			
480220119404201									
480600120010801		121	0.16						
480741120000601	138	135	0.19			2.5			
480741120000601									
480628119410901		372	0.51				<	0.1	
480748118581101									
480908120031501		142	0.19						
481120119405101		334	0.45						
480927119450801	208	249	0.28						
481214118591401									
481002118584201	255	255	0.35			6.7			
481002118584201									
481235118540301	155	153	0.21			0			
481235118540301									
481305118575001									
481244118575201									
481050118522001									
481045118523501									
481720120041501		118	0.16						
481829119385301		313	0.43						
481744119421101		432	0.59						
481456119434001		324	0.44						
481329119172001									
482203120071201	127	125	0.17			2.1			
482203120071201									
482154120070701		98	0.13				<	0.1	
482240119340001		437	0.59				<	0.1	
482144119342601		359	0.49	<	0.01	0.7			
481936119370401		447	0.61						
482109119263001									
482105119263101									
481923119255000	296	318	0.4						26
482832119315001	488	585	0.66						
482812119315001		450	0.61						
482802119315801	380	418	0.52						
482443119313101	320	327	0.44			1.6			
482443119313101	257	253	0.35		0.06	0.5			
482443119313101									
482612119274701		253	0.34						
482919120141701		90	0.12						
483040119445601	156	151	0.21			0.3			

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Okanogan Watershed

Station ID	P72002	P72003	P72004	P72015	P72016
480220119404201					
480220119404201					
480600120010801					
480741120000601					
480741120000601					
480628119410901					
480748118581101					
480908120031501					
481120119405101					
480927119450801					
481214118591401					
481002118584201					
481002118584201					
481235118540301	114	199		183	198
481235118540301					
481305118575001					
481244118575201					
481050118522001					
481045118523501					
481720120041501					
481829119385301					
481744119421101					
481456119434001					
481329119172001					
482203120071201	48	50		48	50
482203120071201					
482154120070701					
482240119340001					
482144119342601	74	95		74	95
481936119370401					
482109119263001					
482105119263101					
481923119255000	25	26	30	25	26
482832119315001	108			111	118
482812119315001					
482802119315801	84	107		103	113
482443119313101	4	26		4	26
482443119313101					
482443119313101					
482612119274701					
482919120141701					
483040119445601	30	50		30	50

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	DATES	TIMES	LATITUDE	LONGITUDE	LOCAL	Depth of Well	Elev_ LSD
483345119330901	1979.06.27	915	483408	1193307	35N/26E-03C01	82	1020
483559120261601	1959.09.16		483559	1202616	36N/19E-26B01	50	
483916119332801	1971.10.08	745	483916	1193328	36N/26E-03D01	68	1900
483705119300501	1979.06.27	755	483710	1193015	36N/26E-13K02	172	1120
484237119261901	1959.10.20		484237	1192619	37N/27E-16C02	155	950
484237119261901	1960.05.17		484237	1192619	37N/27E-16C02	155	950
484229119255001	1959.10.20		484229	1192550	37N/27E-16H01	130	
484229119255001	1960.05.17		484229	1192550	37N/27E-16H01	130	
484214119263001	1979.06.26	1445	484214	1192630	37N/27E-16L03	72	900
484110119272801	1979.06.26	1605	484115	1192735	37N/27E-20K01	52	920
484801119253401	1970.11.12		484801	1192534	38N/27E-10N01	365	
484801119253401	1971.05.27		484801	1192534	38N/27E-10N01	365	
485122119392101	1979.06.26	935	485122	1193921	39N/25E-26B02	78	1245
485032119390301	1979.06.26	835	485032	1193903	39N/25E-35A01	90	1195
485056119254301	1979.06.26	1355	485056	1192543	39N/27E-28J01	25	920
484942119121301	1971.10.07		484942	1191213	39N/29E-32N01	95	3520
484942119121301	1971.10.07	1745	484942	1191213	39N/29E-32N01	95	3500
485844119425501	1979.06.26	1110	485844	1194255	40N/25E-08J02	110	1180
485607119264201	1959.10.20		485607	1192642	40N/27E-28L02	33	950
485607119264201	1960.05.17		485607	1192642	40N/27E-28L02	33	950

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	Water Temp. deg C	P00059 = Flow Rate	P00080 = Color (PT- CO units)	Specific Conductance	pH	P00405	P00410 = T. Alk, as CaCO ₃ (mg/L)	P00440 = Bicarb. As HCO ₃ (mg/L)	P00445
483345119330901	11			770	7.5	16	260	320	0
483559120261601			5	111	7.1	7.8	51	62	0
483916119332801	9		5	788	7.9	5.8	237	290	0
483705119300501	12.5			585	7.4	18	230	280	0
484237119261901	10.5		0	555	7.8	7	229	280	0
484237119261901	11.5			571	7.6	11	230	280	0
484229119255001	12		5	709	7.2	40	331	400	0
484229119255001	11.5			672	7.3	30	312	380	0
484214119263001	11			620	7.4	19	250	300	0
484110119272801	12			690	7.5	18	290	350	0
484801119253401	15		0	1460	7.5	12	194	240	0
484801119253401	16.5			1390	8.2	2.5	207	250	0
485122119392101	12			460	7.4	15	200	240	0
485032119390301	8			224	7.3	9.6	98	120	0
485056119254301	13			790	7.3	24	250	300	0
484942119121301									
484942119121301	9		5	576	7.7	7.8	203	250	0
485844119425501	10			245	7.6	5.3	110	130	0
485607119264201	13.5		0	543	7.7	8.1	208	250	0
485607119264201				515	7.7	7.8	202	250	0

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	P00630 =		Filtered NO ₂ +NO ₃	Hardness, total	P00902 =		Calcium	Magnesium	Sodium
	NO ₂ +NO ₃ , N-total (mg/L)	R_Filtered NO ₂ +NO ₃ (qualifier)			Hardness, Non-carb (mg/L)				
483345119330901			2.2	370	110	96	31	24	
483559120261601				49	0	18	1	1.9	
483916119332801	4.5			380	140	97	33	16	
483705119300501			1.2	270	40	65	26	15	
484237119261901				250	21	70	19	23	
484237119261901				260	28				
484229119255001				340	7	100	21	26	
484229119255001				320	13				
484214119263001			0.45	240	0	68	17	28	
484110119272801			0.05	290	0	81	21	27	
484801119253401				38	0	10	3.2	314	
484801119253401				9	0	3.4	0.2		
485122119392101			0.95	190	0	53	15	15	
485032119390301			0.03	98	0	28	6.7	5.2	
485056119254301			2.1	340	90	80	33	31	
484942119121301									
484942119121301	1.6			160	0	36	18	23	
485844119425501		<	0.1	110	0	36	4.8	4.1	
485607119264201				230	20	65	16	27	
485607119264201				220	19				

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Okanogan Watershed

Station ID	Sodium adsorption	Sodium, percent	P00933	Potassium	Chloride	Sulfate	Fluoride	Silica	P01000 = R01000 (qualifier)	As, diss. (ug/L)
483345119330901	0.5	12	29	5.4	5	160	0.4	22		
483559120261601	0.1	8		0.5	0	3.7	0	9		
483916119332801	0.4	8		3.1	5.7	160	0.3	25		
483705119300501	0.4	11	18	3.4	2.7	72	0.4	20		
484237119261901	0.6	16		4	8.8	52	0.4	23		
484237119261901										
484229119255001	0.6	14		4	3.5	58	0.4	32		
484229119255001										
484214119263001	0.8	20	33	4.5	17	49	0.5	23		2
484110119272801	0.7	17	32	5.4	5.8	48	0.6	39		
484801119253401	22	94		1.5	1.9	490	0.6	17		
484801119253401					2.8					
485122119392101	0.5	14	20	5.1	3.4	41	0.2	19		
485032119390301	0.2	10	7.4	2.2	0.9	15	0.1	18		
485056119254301	0.7	16	37	6.4	3.2	240	0.5	26		
484942119121301										
484942119121301	0.8	23		3.3	4.9	98	0.4	19		
485844119425501	0.2	7	5.4	1.3	0.7	16	0.1	16		
485607119264201	0.8	20		4.6	3.5	67	0.3	22		
485607119264201										

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	P01025 =				P01040 =		P01045 =	
	Barium	R01025 (qualifier)	Cd, diss. (ug/L)	R_Chromium, dis. (qualifier)	Chromium, dis.	R01040 (qualifier)	Cu, diss. (ug/L)	Fe, total (ug/)
483345119330901								
483559120261601								20
483916119332801				<	30	<	50	30
483705119300501								
484237119261901								40
484237119261901								
484229119255001								1600
484229119255001								
484214119263001	40	<	2	U	0	<	2	
484110119272801								
484801119253401				<	30	<	50	50
484801119253401								
485122119392101								
485032119390301								
485056119254301								
484942119121301								
484942119121301				<	30	<	50	80
485844119425501								
485607119264201								20
485607119264201								

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U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	R_Iron (qualifier)	Iron	P01049 = Pb, diss. (ug/L)	R01049 (qualifier)	P01055 = Mn, diss. (ug/L)	R01055 (qualifier)	R_Manganese (qualifier)	Manganese	R_Nickel (qualifier)
483345119330901	<	10					<	1	
483559120261601									
483916119332801			<	100	<	20			
483705119300501		40						20	
484237119261901									
484237119261901									
484229119255001									
484229119255001									
484214119263001	<	10	U	0			<	1	
484110119272801		130						330	
484801119253401			<	100	<	20			<
484801119253401									
485122119392101	<	10					<	1	
485032119390301		340						60	
485056119254301	<	10					<	1	
484942119121301									
484942119121301			<	100	<	20			
485844119425501	<	10					<	1	
485607119264201									
485607119264201									

Appendix A

U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	R_Silver Nickel (qualifier)	Silver	R_Strontium (qualifier)	Strontium (qualifier)	R01090 (qualifier)	P01090 = Zn, diss. (ug/L)	R01105 (qualifier)	P01105 = Al, total (ug/L)
483345119330901								
483559120261601								
483916119332801				1100	<	10		90
483705119300501								
484237119261901								
484237119261901								
484229119255001								
484229119255001								
484214119263001		U	0			5		
484110119272801								
484801119253401	50			<	50	70		30
484801119253401								
485122119392101								
485032119390301								
485056119254301								
484942119121301								
484942119121301				430	<	10		50
485844119425501								
485607119264201								
485607119264201								

Appendix A

U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	R_Aluminum (qualifier)	Aluminum	R_Lithium	Lithium	R_Selenium	Selenium	R31625 (qualifier)	P31625 = Fecal Col. (CAGAD/100M)
483345119330901								
483559120261601								
483916119332801			<	20				
483705119300501							<	1
484237119261901								
484237119261901								
484229119255001								
484229119255001								
484214119263001		10			<	1	<	1
484110119272801								
484801119253401			<	20				
484801119253401								
485122119392101								
485032119390301								
485056119254301								
484942119121301								
484942119121301			<	20				
485844119425501								
485607119264201								
485607119264201								

Appendix A

U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	Residue, 180 Celsius	Solids, sum of constituents	Solids, dis. tons/ac-ft	R70507 (qualifier)	P70507	P71850	R71890 (qualifier)	P71890 = Hg, diss. (ug/L)	P72001
483345119330901		509	0.69						
483559120261601	65	65	0.09			0.5			
483916119332801	576	483	0.78						
483705119300501		348	0.47						
484237119261901	337	337	0.46			4.9			
484237119261901									
484229119255001	434	443	0.59			0.3			
484229119255001									
484214119263001		359	0.49				<	0.1	
484110119272801		403	0.55						
484801119253401	983	955	1.34			4.3			
484801119253401									
485122119392101		276	0.38						
485032119390301		136	0.18						
485056119254301		579	0.79						
484942119121301									
484942119121301	340	324	0.46						
485844119425501		145	0.2						
485607119264201	328	330	0.45			4.8			
485607119264201									

Appendix A

U.S. Geological Survey Ground-Water Quality Data

Okanogan Watershed

Station ID	P72002	P72003	P72004	P72015	P72016
483345119330901					
483559120261601	31	50		31	50
483916119332801				62	68
483705119300501					
484237119261901	145	155		145	155
484237119261901					
484229119255001					
484229119255001					
484214119263001					
484110119272801					
484801119253401					
484801119253401					
485122119392101					
485032119390301					
485056119254301					
484942119121301				85	94
484942119121301					
485844119425501					
485607119264201					
485607119264201					

Appendix B

Appendix B

Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	SFX	System Name	SRC	MSRC
00084	4	CHEWACK NORTH WATER SYSTEM	01	
00403	2	CHIEF JOSEPH DAM ORIENTATION AREA	01	
00603	A	APPLEWAY TRAILER COURT	01	
00603	A	APPLEWAY TRAILER COURT	01	
00603	A	APPLEWAY TRAILER COURT	01	
00603	A	APPLEWAY TRAILER COURT	01	
00603	A	APPLEWAY TRAILER COURT	90	
00780	Y	VALLEY VIEW PARK SUBDIVISON	01	
00943	Q	LIBERTY BELL HIGH SCHOOL	01	
01258	Q	ARBUCKLE WATER SYSTEM	01	
01576	L	HOMESTEAD MOBILE HOME PARK	01	
02257	9	GIBSON'S NORTH FORK LODGE	01	
02526	C	FENISON WATER SYSTEM	01	
02756	D	SCHALLER HOMES WATER SYSTEM	01	
02983	W	UNGER/WYATT WATER SYSTEM	01	
02983	W	UNGER/WYATT WATER SYSTEM	01	
03018	K	DAWN SONG ORCHARD	01	
03272	9	WALTON, BOYD WATER SYSTEM	01	
03383	6	OLIVER/EDWARDS SHORT PLAT	01	
03499	N	MC DANIEL, ROBERT WTR. SYS.	01	
03503	C	SAGE RIDGE #3&4 WATER SYSTEM	01	
03504	W	SAGE RIDGE # 1&2 WATER SYSTEM	01	
03522	C	NORRIS WATER SYSTEM	01	
03566	F	METHOW VALLEY ESTATES WTR. SYS.	01	
03657	V	CARIBOO TRACTS WATER SYSTEM	01	
03764	P	LOTTIE STREET WELL	01	
03842	9	FISHER, GREG WATER SYSTEM	01	
03892	K	HAGELL, BARNETT WATER SYSTEM	01	
03893	3	LAKEVIEW PROPERTIES #1	01	
03921	C	COPPLE ROAD WATER SYSTEM	01	
03998	T	WANNACUT LAKE VIEW ESTATES #1	01	
04007	V	VISTA VIEW ESTATES #1	01	
04109	1	EARLY WINTERS CABINS	01	
04280	K	WILSON RANCH PD WATER SYSTEM	01	
04381	7	OKANOGAN CO. ELECTRIC CO-OP INC.	01	
04427	W	VOGLI GUEST LODGE	01	
04506	0	WESTVUE RANCHETTES #1	01	
04519	T	BROOKS ACRES W.S.	01	
04528	J	BERGH, JEFF SHORTPLAT	01	
04561	Y	JOHNSON SHORT PLAT	01	
04578	U	ROSE WATER SYSTEM	01	
04619	X	CHEWUCH RIVER GUEST HOUSE	92	
04670	U	MANY LAKES MOBILE HOME PARK	01	
04685	N	METHOW VALLEY UNITED METHODIST	01	

Appendix B

Chloride Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
00084	07/25/1990	0021	LT	5	051	12620	C
00403	09/19/1990	0021	LT	5	051	12735	C
00603	11/03/1992	0021	LT	29	111	11001	C
00603	08/12/1986	0021	LT	5	051	09179	C
00603	08/12/1986	0021	LT	5	051	09178	C
00603	11/21/1983	0021	LT	5	051	06774	C
00603	05/24/1989	0021	LT	5	051	11695	C
00780	08/17/1993	0021	LT	20	109	81805	C
00943	10/08/1995	0021	LT	20	109	31332	C
01258	10/30/1991	0021	LT	5	051	13717	C
01576	03/10/1992	0021	LT	5	051	13865	C
02257	04/16/1996	0021		0.5	105	02517	C
02526	06/02/1993	0021		7	111	06002	C
02756	08/17/1993	0021	ND	0	109	91805	C
02983	09/21/1993	0021	ND	0	051	14705	C
02983	09/20/1993	0021	LT	5	051	14705	C
03018	07/22/1993	0021		2	105	04052	C
03272	03/14/1994	0021	ND	0	109	34503	C
03383	11/16/1993	0021		5	051	14775	C
03499	02/28/1994	0021		21.2	105	00943	C
03503	04/13/1994	0021	ND	0	109	41407	C
03504	04/11/1994	0021	ND	0	109	41204	C
03522	06/02/1994	0021		6.4	105	03082	C
03566	04/12/1994	0021	ND	0	051	14969	C
03657	06/15/1994	0021	ND	0	051	15024	C
03764	05/31/1994	0021	ND	0	109	53114	C
03842	05/26/1994	0021	ND	0	109	52702	C
03892	08/10/1994	0021		20.6	109	81003	C
03893	08/30/1994	0021	ND	0	109	83003	C
03921	11/01/1993	0021	ND	0	051	14750	C
03998	07/13/1994	0021		29.5	109	71507	C
04007	07/13/1994	0021	ND	0	109	71506	C
04109	11/14/1994	0021	ND	0	109	30018	C
04280	05/30/1995	0021	LT	20	109	30496	C
04381	10/26/1994	0021	ND	0	109	02703	C
04427	02/08/1995	0021	ND	0	109	30184	C
04506	03/20/1995	0021	ND	0	051	15226	C
04519	04/27/1995	0021		4.75	108	59482	C
04528	09/07/1994	0021	ND	0	109	90801	C
04561	04/25/1995	0021	LT	5	051	15245	C
04578	03/24/1995	0021		50	108	58322	C
04619	04/16/1995	0021	ND	0	051	15242	C
04670	09/01/1994	0021	LT	20	112	15089	C
04685	05/02/1995	0021	LT	5	051	15253	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
00084	U	UNKNOWN	B		OKANOGAN	
00403	U	UNKNOWN	A	TNC	OKANOGAN	
00603	U		A	COMM	OKANOGAN	
00603	U		A	COMM	OKANOGAN	
00603	U		A	COMM	OKANOGAN	
00603	U		A	COMM	OKANOGAN	
00603	U		A	COMM	OKANOGAN	
00780	U		B		OKANOGAN	
00943	B		A	NTNC	OKANOGAN	
01258	U		B		OKANOGAN	
01576	U		A	COMM	OKANOGAN	
02257	B	UNKNOWN	B		OKANOGAN	
02526	U		B		OKANOGAN	
02756	B		B		OKANOGAN	
02983	B		B		OKANOGAN	
02983	U		B		OKANOGAN	
03018	U		B		OKANOGAN	
03272	B		B		OKANOGAN	
03383	B		B		OKANOGAN	
03499	B		B		OKANOGAN	
03503	B		B		OKANOGAN	
03504	B		B		OKANOGAN	
03522	B		B		OKANOGAN	
03566	B		B		OKANOGAN	
03657	B		B		OKANOGAN	
03764	B		B		OKANOGAN	
03842	B		B		OKANOGAN	
03892	B		B		OKANOGAN	
03893	B		B		OKANOGAN	
03921	B		B		OKANOGAN	
03998	B	WELL 1	B		OKANOGAN	
04007	B		B		OKANOGAN	
04109	B		B		OKANOGAN	
04280	B	UNKNOWN	A	COMM	OKANOGAN	
04381	B		B		OKANOGAN	
04427	B		B		OKANOGAN	
04506	B		B		OKANOGAN	
04519	B		B		OKANOGAN	
04528	B		B		OKANOGAN	
04561	B		B		OKANOGAN	
04578	B		B		OKANOGAN	
04619	A	366 B WEST CHEV	B		OKANOGAN	
04670	B		B		OKANOGAN	
04685	B		B		OKANOGAN	

Appendix B

Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	SFX	System Name	SRC	MSRC
04690	B	HOBART WATER SYSTEM	01	
04696	E	LONESOME DOVE	01	
04876	6	WOLF HOLLOW CABIN WATER SYSTEM	01	
05020	U	BROWN, GARY WATER SYSTEM	01	
05061	C	LESTER FARM HOME WATER SYSTEM	01	
05185	3	TICE RANCH #1	01	
05186	L	TICE RANCH #2	92	
05284	P	CENTRAL LANDFILL	01	
05307	A	WODA WOODS #2	01	
05314	1	BEHRENS METHOW RIVER WATER ASSN.	01	
05324	9	COBURN SHORT PLAT	01	
05435	6	VALLEY VIEW B & B	01	
05524	J	WESTVUE RANCHETTES #3	01	
05558	C	JENSEN SHORT PLAT	01	
05663	6	WILLOWS WATER ASSOCIATION	01	
05909	4	LOS PALOS BED & BREAKFAST	01	
06086	J	LAKE OSOYOOS SHORT PLAT	01	
07100	K	BIRCH SPRING WTR USERS	01	
08246	W	JOHNNY APPLESEED OF WASHINGTON	02	
08246	W	JOHNNY APPLESEED OF WASHINGTON	02	
08246	W	JOHNNY APPLESEED OF WASHINGTON	04	
08246	W	JOHNNY APPLESEED OF WASHINGTON	06	
08246	W	JOHNNY APPLESEED OF WASHINGTON	07	
08246	W	JOHNNY APPLESEED OF WASHINGTON	07	
08246	W	JOHNNY APPLESEED OF WASHINGTON	08	
08246	W	JOHNNY APPLESEED OF WASHINGTON	90	
08246	W	JOHNNY APPLESEED OF WASHINGTON	99	
08246	W	JOHNNY APPLESEED OF WASHINGTON	99	
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	01	
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	01	
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	04	
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	05	
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	90	
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	99	
08300	W	BREWSTER, CITY OF	01	
08300	W	BREWSTER, CITY OF	01	
08300	W	BREWSTER, CITY OF	01	
08300	W	BREWSTER, CITY OF	02	
08300	W	BREWSTER, CITY OF	03	
08300	W	BREWSTER, CITY OF	05	
08300	W	BREWSTER, CITY OF	90	
08300	W	BREWSTER, CITY OF	90	
09064	6	SANDFLAT WATER ASSOCIATION	01	
09064	6	SANDFLAT WATER ASSOCIATION	01	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
04690	11/21/1993	0021	LT	5	051	14777	C
04696	03/14/1995	0021	LT	5	051	15212	C
04876	07/18/1995	0021	LT	5	051	15297	C
05020	10/11/1995	0021		3.8	105	08840	C
05061	01/05/1996	0021		5	089	23724	C
05185	08/30/1995	0021	LT	5	051	15314	C
05186	08/30/1995	0021	LT	5	051	15315	C
05284	03/05/1996	0021		5.8	105	91317	C
05307	10/24/1995	0021	LT	20	109	31423	C
05314	03/11/1996	0021		1.3	017	01404	C
05324	07/08/1994	0021		2.8	105	03908	C
05435	07/11/1996	0021	LT	0.5	105	04693	C
05524	08/21/1995	0021		5.1	105	05726	C
05558	02/16/1995	0021		5.2	105	00734	C
05663	04/24/1996	0021		1.7	017	02375	C
05909	10/09/1996	0021	LT	0.5	105	09431	C
06086	04/21/1997	0021	LT	20	066	05319	C
07100	08/22/1984	0021		5	051	07496	C
08246	10/17/1996	0021		5.8	105	09820	C
08246	12/12/1990	0021	LT	5	051	12967	C
08246	12/19/1995	0021	LT	20	109	31755	C
08246	12/19/1995	0021	LT	20	109	31756	C
08246	10/17/1996	0021		12.4	105	09819	C
08246	12/19/1995	0021	LT	20	109	31757	C
08246	03/29/1993	0021	LT	5	051	14428	C
08246	05/07/1982	0021		15	051	05546	C
08246	03/03/1987	0021	LT	5	051	09552	C
08246	02/19/1985	0021		5	051	07974	C
08290	10/05/1992	0021		5	051	14142	C
08290	09/30/1985	0021		6	051	08503	C
08290	10/22/1996	0021	ND	0	125	36910	C
08290	08/30/1995	0021	LT	20	109	31159	C
08290	06/14/1988	0021		5	051	10889	C
08290	12/27/1982	0021		10	051	06261	C
08300	09/24/1991	0021	LT	5	051	13630	C
08300	08/01/1988	0021		6	030	31743	C
08300	10/21/1985	0021	LT	5	051	08580	C
08300	08/01/1988	0021		6	030	31744	C
08300	09/24/1997	0021	ND	0	125	47272	C
08300	09/24/1997	0021	ND	0	125	47271	C
08300	06/02/1982	0021	LT	5	051	05693	C
08300	06/20/1977	0021		4	051	02740	C
09064	03/21/1996	0021	LT	1	010	07332	B
09064	09/06/1994	0021	ND	0	051	15062	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
04690	B		B		OKANOGAN	
04696	B		B		OKANOGAN	
04876	B		B		OKANOGAN	
05020	B		B		OKANOGAN	
05061	B		B		OKANOGAN	
05185	B	WELLHEAD HOSE	B		OKANOGAN	
05186	B	LODGE MECHANIC	B		OKANOGAN	
05284	B	UNKNOWN	B		OKANOGAN	
05307	B	UNKNOWN	B		OKANOGAN	
05314	B	WELL #1	B		OKANOGAN	
05324	B	UNKNOWN	B		OKANOGAN	
05435	B	WELL 1	B		OKANOGAN	
05524	B	74 CRUMBACHER	B		OKANOGAN	
05558	B	W	B		OKANOGAN	
05663	U	WELL 1	B		OKANOGAN	
05909	U	WELL	B		OKANOGAN	
06086	B	WELL 1	B		OKANOGAN	
07100	U		B		OKANOGAN	
08246	B	GORDON SPRING	A	COMM	OKANOGAN	
08246	U	B & O ROAD	A	COMM	OKANOGAN	
08246	B		A	COMM	OKANOGAN	
08246	B		A	COMM	OKANOGAN	
08246	B	TURNER SPRING	A	COMM	OKANOGAN	
08246	B		A	COMM	OKANOGAN	
08246	U		A	COMM	OKANOGAN	
08246	U		A	COMM	OKANOGAN	
08246	U		A	COMM	OKANOGAN	
08246	U		A	COMM	OKANOGAN	
08246	U		A	COMM	OKANOGAN	
08290	U		A	COMM	OKANOGAN	
08290	U		A	COMM	OKANOGAN	
08290	B	WELL FIELD	A	COMM	OKANOGAN	
08290	B		A	COMM	OKANOGAN	
08290	U		A	COMM	OKANOGAN	
08290	U		A	COMM	OKANOGAN	
08300	U		A	COMM	OKANOGAN	
08300	U		A	COMM	OKANOGAN	
08300	U		A	COMM	OKANOGAN	
08300	U		A	COMM	OKANOGAN	
08300	U	WELL FIELD	A	COMM	OKANOGAN	
08300	U	WELL FIELD	A	COMM	OKANOGAN	
08300	U		A	COMM	OKANOGAN	
08300	U		A	COMM	OKANOGAN	
09064	U	SAND FLATS H2O	A	COMM	OKANOGAN	
09064	B		A	COMM	OKANOGAN	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	SFX	System Name	SRC	MSRC
09066	7	ASTON ESTATES	90	
09066	7	ASTON ESTATES	90	
09066	7	ASTON ESTATES	92	
09066	7	ASTON ESTATES	99	
13909	1	PINECREST WATER SYSTEM	01	
13909	1	PINECREST WATER SYSTEM	01	
13909	1	PINECREST WATER SYSTEM	01	
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	01	
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	01	
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	90	
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	99	
13940	D	COLEMAN BUTTE WATER ASSOC	01	
13940	D	COLEMAN BUTTE WATER ASSOC	01	
13940	D	COLEMAN BUTTE WATER ASSOC	01	
13940	D	COLEMAN BUTTE WATER ASSOC	01	
13940	D	COLEMAN BUTTE WATER ASSOC	01	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
15400	V	COULEE DAM WATER DEPT	02	
16311	K	OMAK WOOD PRODUCTS INC	02	
16311	K	OMAK WOOD PRODUCTS INC	02	
16311	K	OMAK WOOD PRODUCTS INC	03	
16311	K	OMAK WOOD PRODUCTS INC	90	
17624	U	WESTVUE RANCHETTES #2	01	
17631	J	JOHN'S LANDING MOBILE HOME PARK	01	
17631	J	JOHN'S LANDING MOBILE HOME PARK	01	
17631	J	JOHN'S LANDING MOBILE HOME PARK	01	
17631	J	JOHN'S LANDING MOBILE HOME PARK	01	
19204	X	ALTA LAKE GOLF COURSE PLAT	01	
19204	X	ALTA LAKE GOLF COURSE PLAT	02	
19204	X	ALTA LAKE GOLF COURSE PLAT	90	
20200	A	DUCK LAKE WATER ASSOCIATION	01	
20200	A	DUCK LAKE WATER ASSOCIATION	01	
20200	A	DUCK LAKE WATER ASSOCIATION	01	
20200	A	DUCK LAKE WATER ASSOCIATION	01	
20200	A	DUCK LAKE WATER ASSOCIATION	90	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
09066	01/11/1988	0021	LT	5	051	10370	C
09066	05/25/1982	0021	LT	5	051	05688	C
09066	12/16/1991	0021	LT	5	051	13761	C
09066	03/01/1985	0021	LT	5	051	08064	C
13909	07/19/1994	0021	ND	0	051	15041	C
13909	05/29/1991	0021	LT	5	051	13347	C
13909	07/16/1988	0021	LT	5	051	10961	C
13916	06/22/1994	0021	ND	0	109	62304	C
13916	05/21/1991	0021	LT	5	051	13318	C
13916	10/06/1987	0021	LT	5	051	10138	C
13916	04/03/1984	0021	LT	5	051	07053	C
13940	11/06/1995	0021		4.5	105	10099	C
13940	05/29/1991	0021		5	051	13349	C
13940	11/10/1987	0021		5	051	10217	C
13940	10/26/1984	0021		5	051	07700	C
13940	03/03/1981	0021	LT	5	051	04458	C
15400	11/27/1995	0021	LT	5	051	15339	C
15400	05/07/1991	0021	LT	5	051	13283	C
15400	12/26/1989	0021	LT	5	051	12171	C
15400	09/15/1989	0021		6	030	32934	C
15400	09/13/1988	0021		6	030	31824	C
15400	09/16/1987	0021		3	030	33624	C
15400	10/01/1986	0021		2	030	02381	C
15400	09/27/1985	0021	LT	5	051	08502	C
15400	06/19/1984	0021	LT	5	051	07229	C
15400	09/23/1983	0021	LT	5	051	06675	C
15400	09/29/1982	0021	LT	5	051	06088	C
16311	10/19/1993	0021		20	109	01909	C
16311	10/18/1993	0021		31	109	01910	C
16311	10/18/1993	0021		26.7	109	01911	C
16311	04/29/1982	0021		10	052	07958	C
17624	03/20/1995	0021	LT	5	051	15227	C
17631	07/25/1994	0021	ND	0	051	15044	C
17631	05/06/1991	0021	LT	5	051	13277	C
17631	02/16/1988	0021	LT	5	051	10530	C
17631	02/26/1985	0021	LT	5	051	08012	C
19204	07/21/1993	0021	LT	20	112	05736	C
19204	10/23/1985	0021	LT	5	051	08607	C
19204	10/03/1989	0021	LT	5	051	11990	C
20200	02/10/1992	0021	LT	5	051	13814	C
20200	07/22/1985	0021	LT	5	051	08322	C
20200	08/31/1982	0021		5	051	05927	C
20200	05/01/1979	0021		5	033	00653	C
20200	05/02/1988	0021		5	051	10730	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	SFX	System Name	SRC	MSRC
20226	X	VISTA VU WATER USERS, ASSO.	01	
20226	X	VISTA VU WATER USERS, ASSO.	01	
20226	X	VISTA VU WATER USERS, ASSO.	01	
20226	X	VISTA VU WATER USERS, ASSO.	01	
20226	X	VISTA VU WATER USERS, ASSO.	01	
22340	L	EDELWEISS MAINTENANCE COMMISSION	01	
22340	L	EDELWEISS MAINTENANCE COMMISSION	02	
22340	L	EDELWEISS MAINTENANCE COMMISSION	03	
23120	W	ELMER CITY WATER SYST	01	
23120	W	ELMER CITY WATER SYST	01	
23120	W	ELMER CITY WATER SYST	01	
26707	Y	EAST LAKE WATER ASSOCIATION	01	
26707	Y	EAST LAKE WATER ASSOCIATION	01	
26707	Y	EAST LAKE WATER ASSOCIATION	03	
26707	Y	EAST LAKE WATER ASSOCIATION	03	
26707	Y	EAST LAKE WATER ASSOCIATION	99	
26916	Y	EMANUEL HEIGHTS WATER SYSTEM	01	
26916	Y	EMANUEL HEIGHTS WATER SYSTEM	01	
26916	Y	EMANUEL HEIGHTS WATER SYSTEM	01	
27739	U	WAUCONDA CAFE	01	
31351	B	NICKELL ORCHARD	01	
31351	B	NICKELL ORCHARD	01	
31351	B	NICKELL ORCHARD	01	
31351	B	NICKELL ORCHARD	90	
34101	O	BREWSTER SDA SCHOOL	01	
38576	5	MALOTT GRADE SCHOOL	92	
39411	Y	JOHNSON CREEK WATER USERS ASSN	01	
39411	Y	JOHNSON CREEK WATER USERS ASSN	02	
41703	M	B.J.'S MOBILE HOME COURT WATER SYS	01	
41703	M	B.J.'S MOBILE HOME COURT WATER SYS	01	
47840	M	DON'S MOBILE HOME COURT	01	
47840	M	DON'S MOBILE HOME COURT	01	
47840	M	DON'S MOBILE HOME COURT	01	
47840	M	DON'S MOBILE HOME COURT	90	
47900	Q	LONE PINE WATER CO-OP INC	01	
47900	Q	LONE PINE WATER CO-OP INC	01	
47900	Q	LONE PINE WATER CO-OP INC	01	
48200	W	LOOMIS WATER USERS ASSN INC	01	
48200	W	LOOMIS WATER USERS ASSN INC	01	
48200	W	LOOMIS WATER USERS ASSN INC	01	
48200	W	LOOMIS WATER USERS ASSN INC	01	
48200	W	LOOMIS WATER USERS ASSN INC	01	
48348	6	LOST RIVER AIRPORT ASSOCIATION	92	
49515	6	M-J TRAILER RANCH	01	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
20226	07/12/1993	0021	LT	5	051	14619	C
20226	07/30/1990	0021	LT	5	051	12621	C
20226	06/21/1990	0021	LT	5	051	12565	C
20226	01/21/1987	0021	LT	5	051	09460	C
20226	04/16/1984	0021	LT	5	051	07088	
22340	04/18/1994	0021	ND	0	109	41925	C
22340	04/18/1994	0021	ND	0	109	41927	C
22340	04/18/1994	0021	ND	0	109	41926	C
23120	03/09/1993	0021	LT	5	051	14401	C
23120	07/26/1988	0021	LT	5	051	11001	C
23120	10/01/1985	0021	LT	5	051	08599	C
26707	05/28/1991	0021		10	051	13339	C
26707	07/25/1988	0021	LT	5	051	10996	C
26707	12/18/1997	0021		7.1	125	50391	C
26707	06/28/1994	0021	ND	0	109	62905	C
26707	10/24/1985	0021	LT	5	051	08613	C
26916	04/20/1994	0021		9.5	105	02117	C
26916	10/10/1990	0021		5	051	12781	C
26916	10/04/1985	0021		6	051	08531	C
27739	09/27/1993	0021	LT	20	112	07209	C
31351	12/19/1995	0021	LT	20	046	04569	C
31351	11/30/1992	0021		5	051	14252	C
31351	04/01/1986	0021	LT	5	051	08930	C
31351	02/27/1989	0021	LT	5	051	11456	
34101	02/07/1995	0021	LT	20	095	02339	C
38576	11/21/1994	0021	ND	0	109	30031	C
39411	10/13/1987	0021		5	051	10149	C
39411	09/13/1993	0021		5	051	14690	C
41703	11/09/1992	0021		5	051	14218	C
41703	01/10/1989	0021		5	051	11348	C
47840	04/30/1991	0021		5	051	13259	C
47840	04/11/1988	0021	LT	5	051	10665	C
47840	07/02/1985	0021	LT	5	051	08260	C
47840	09/29/1982	0021		5	051	06031	C
47900	05/10/1994	0021	ND	0	109	51018	C
47900	10/31/1988	0021		5	051	11233	C
47900	01/23/1985	0021		10	051	07873	C
48200	12/05/1995	0021	ND	0	112	57270	C
48200	07/01/1991	0021	LT	5	051	13428	C
48200	06/09/1988	0021	LT	5	051	10863	C
48200	08/20/1985	0021	LT	5	051	08419	C
48200	10/20/1982	0021	LT	5	051	06109	C
48348	10/04/1994	0021		2.3	105	08404	C
49515	11/16/1992	0021	LT	5	051	14236	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
20226	U		A	COMM	OKANOGAN	
20226	U		A	COMM	OKANOGAN	
20226	U		A	COMM	OKANOGAN	
20226	U		A	COMM	OKANOGAN	
20226	U		A	COMM	OKANOGAN	
22340	A		A	COMM	OKANOGAN	
22340	B		A	COMM	OKANOGAN	
22340	B		A	COMM	OKANOGAN	
23120	U		A	COMM	OKANOGAN	
23120	U		A	COMM	OKANOGAN	
23120	U		A	COMM	OKANOGAN	
26707	U		A	COMM	OKANOGAN	
26707	U		A	COMM	OKANOGAN	
26707	B	BR FAUCET	A	COMM	OKANOGAN	
26707	B		A	COMM	OKANOGAN	
26707	U		A	COMM	OKANOGAN	
26916	B		A	COMM	OKANOGAN	
26916	U	UNKNOWN	A	COMM	OKANOGAN	
26916	U		A	COMM	OKANOGAN	
27739	U		A	TNC	OKANOGAN	
31351	B		A	COMM	OKANOGAN	
31351	U		A	COMM	OKANOGAN	
31351	U		A	COMM	OKANOGAN	
31351	U		A	COMM	OKANOGAN	
34101	B		A	NTNC	OKANOGAN	
38576	B	MALOTT SCHOOL	A	NTNC	OKANOGAN	
39411	U		A	COMM	OKANOGAN	
39411	B		A	COMM	OKANOGAN	
41703	U		A	COMM	OKANOGAN	
41703	U		A	COMM	OKANOGAN	
47840	U	UNKNOWN	B		OKANOGAN	
47840	U		B		OKANOGAN	
47840	U		B		OKANOGAN	
47840	U		B		OKANOGAN	
47900	B		A	COMM	OKANOGAN	
47900	U		A	COMM	OKANOGAN	
47900	U		A	COMM	OKANOGAN	
48200	B		A	COMM	OKANOGAN	
48200	U		A	COMM	OKANOGAN	
48200	U		A	COMM	OKANOGAN	
48200	U		A	COMM	OKANOGAN	
48200	U		A	COMM	OKANOGAN	
48348	B	68541 LOST RIVER	B		OKANOGAN	
49515	U		A	COMM	OKANOGAN	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
49515	04/19/1988	0021	LT	5	051	10710	C
49515	04/29/1982	0021	LT	5	051	05520	C
49515	03/05/1985	0021	LT	5	051	08067	C
54370	11/11/1992	0021	LT	5	051	14219	C
54370	07/13/1989	0021	LT	5	051	11813	C
54370	02/05/1997	0021		0.69	111	97052	C
54370	12/13/1994	0021	ND	0	109	30073	C
54370	02/04/1986	0021	LT	5	051	08819	C
54370	07/06/1982	0021	LT	5	051	05809	C
55630	03/29/1991	0021		45	051	13203	C
59000	11/19/1992	0021	LT	11	111	11012	C
59000	12/05/1988	0021		6	030	32085	C
59000	11/14/1997	0021		1.43	111	97558	C
59000	02/03/1986	0021	LT	5	051	08841	C
59000	01/09/1984	0021	LT	5	051	06866	C
60450	05/04/1987	0021	LT	5	051	09768	C
60450	07/26/1982	0021	LT	5	051	05874	C
62363	09/21/1988	0021	LT	5	051	11142	C
63200	12/28/1987	0021		10	051	10310	C
63200	02/06/1985	0021	LT	5	051	08060	C
63200	04/01/1997	0021	ND	0	046	01410	C
63200	07/12/1995	0021	LT	20	046	92413	C
63200	11/03/1992	0021	LT	5	051	14211	C
63200	12/28/1987	0021		5	051	10311	C
63200	02/06/1985	0021	LT	5	051	08061	C
63200	04/01/1997	0021	ND	0	046	01411	C
63200	07/12/1995	0021	LT	20	046	92414	C
63200	11/03/1992	0021		5	051	14212	C
63200	12/28/1987	0021		5	051	10312	C
63200	02/06/1985	0021	LT	5	051	08062	C
63200	04/01/1997	0021	ND	0	046	01412	C
63200	07/12/1995	0021	LT	20	046	92412	C
63200	11/03/1992	0021	LT	5	051	14208	C
63200	12/28/1987	0021	LT	5	051	10314	C
63200	02/06/1985	0021	LT	5	051	08063	C
63200	04/01/1997	0021	ND	0	046	01413	C
63200	07/12/1995	0021	LT	20	046	92416	C
63200	11/03/1992	0021	LT	5	051	14210	C
63200	12/28/1987	0021	LT	5	051	10313	C
63200	02/06/1985	0021	LT	5	051	08059	C
63200	07/12/1995	0021	LT	20	046	92415	C
63200	11/03/1992	0021		5	051	14209	C
63200	04/04/1989	0021		10	051	11563	C
63200	04/26/1982	0021	LT	5	051	05515	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
49515	U		A	COMM	OKANOGAN	
49515	U		A	COMM	OKANOGAN	
49515	U		A	COMM	OKANOGAN	
54370	U		A	COMM	OKANOGAN	
54370	U		A	COMM	OKANOGAN	
54370	B	WELL	A	COMM	OKANOGAN	
54370	B		A	COMM	OKANOGAN	
54370	U		A	COMM	OKANOGAN	
54370	U		A	COMM	OKANOGAN	
55630	U	UNKNOWN	A	TNC	OKANOGAN	
59000	U		A	COMM	OKANOGAN	
59000	U		A	COMM	OKANOGAN	
59000	B	PH TAP	A	COMM	OKANOGAN	
59000	U		A	COMM	OKANOGAN	
59000	U		A	COMM	OKANOGAN	
60450	U		A	COMM	OKANOGAN	19891101
60450	U		A	COMM	OKANOGAN	19891101
62363	U		B		OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	B	WELL HOUSE	A	COMM	OKANOGAN	
63200	U	EASTSIDE	A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	B	WELL HOUSE	A	COMM	OKANOGAN	
63200	U	WELL HOUSE SAM	A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	B	WELL VAULT	A	COMM	OKANOGAN	
63200	B	WELL 4	A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	B	WELL HOUSE	A	COMM	OKANOGAN	
63200	U	DISTRIBUTION BO	A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U	WELL VAULT SAM	A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	
63200	U		A	COMM	OKANOGAN	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water				
System ID	SFX	System Name	SRC	MSRC
63750	K	OMAK, CITY OF	01	
63750	K	OMAK, CITY OF	01	
63750	K	OMAK, CITY OF	02	
63750	K	OMAK, CITY OF	02	
63750	K	OMAK, CITY OF	03	
63750	K	OMAK, CITY OF	03	
63750	K	OMAK, CITY OF	04	
63750	K	OMAK, CITY OF	04	
63750	K	OMAK, CITY OF	06	
63750	K	OMAK, CITY OF	07	
63750	K	OMAK, CITY OF	90	
63750	K	OMAK, CITY OF	90	
63750	K	OMAK, CITY OF	90	
63750	K	OMAK, CITY OF	90	
63750	K	OMAK, CITY OF	90	
63750	K	OMAK, CITY OF	90	
63750	K	OMAK, CITY OF	99	
64400	Y	OROVILLE, TOWN OF	01	
64400	Y	OROVILLE, TOWN OF	01	
64400	Y	OROVILLE, TOWN OF	01	
64400	Y	OROVILLE, TOWN OF	02	
64400	Y	OROVILLE, TOWN OF	02	
64400	Y	OROVILLE, TOWN OF	02	
64400	Y	OROVILLE, TOWN OF	03	
64400	Y	OROVILLE, TOWN OF	04	
64400	Y	OROVILLE, TOWN OF	04	
64400	Y	OROVILLE, TOWN OF	90	
64400	Y	OROVILLE, TOWN OF	90	
66450	C	PATEROS WATER DEPARTMENT	01	
66450	C	PATEROS WATER DEPARTMENT	02	
66450	C	PATEROS WATER DEPARTMENT	03	
66450	C	PATEROS WATER DEPARTMENT	03	
66450	C	PATEROS WATER DEPARTMENT	90	
69650	U	PROGRESSIVE FLAT WATER ASSN	01	
69650	U	PROGRESSIVE FLAT WATER ASSN	01	
69650	U	PROGRESSIVE FLAT WATER ASSN	01	
69650	U	PROGRESSIVE FLAT WATER ASSN	02	
72751	2	RIVERBEND RV PARK	90	
72751	2	RIVERBEND RV PARK	90	
72751	2	RIVERBEND RV PARK	99	
72850	N	RIVERSIDE, TOWN OF	01	
72850	N	RIVERSIDE, TOWN OF	01	
72850	N	RIVERSIDE, TOWN OF	02	
72850	N	RIVERSIDE, TOWN OF	02	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
63750	07/16/1996	0021	LT	20	109	32678	C
63750	06/09/1993	0021	ND	0	109	61001	C
63750	07/16/1996	0021	LT	20	109	32679	C
63750	06/09/1993	0021	ND	0	109	61002	C
63750	07/16/1996	0021	LT	20	109	32680	C
63750	06/09/1993	0021	ND	0	109	61003	C
63750	07/16/1996	0021	LT	20	109	32681	C
63750	06/09/1993	0021	ND	0	109	61004	C
63750	07/16/1996	0021	LT	20	109	32682	C
63750	10/18/1993	0021		20.6	109	01909	C
63750	02/05/1990	0021		10	051	12288	C
63750	10/10/1989	0021		10	051	12007	C
63750	07/20/1988	0021		10	051	10972	C
63750	10/03/1985	0021		8	051	08525	C
63750	10/03/1985	0021	LT	5	051	08526	C
63750	10/03/1985	0021	LT	5	051	08524	C
63750	08/27/1996	0021	LT	20	109	32880	C
64400	08/24/1993	0021	LT	20	109	92503	C
64400	09/02/1986	0021		5	051	09212	C
64400	11/29/1983	0021		5	051	06794	C
64400	06/12/1990	0021	LT	5	051	12543	C
64400	09/02/1986	0021	LT	5	051	09213	C
64400	11/29/1983	0021		5	051	06796	C
64400	09/02/1986	0021		5	051	09214	C
64400	08/24/1993	0021	LT	20	109	92504	C
64400	06/12/1990	0021		5	051	12544	C
64400	08/11/1987	0021		6.7	033	12478	C
64400	11/29/1983	0021		5	051	06795	C
66450	01/25/1988	0021	LT	5	051	10425	C
66450	01/07/1991	0021		5	051	13002	C
66450	03/18/1997	0021		5.6	105	02037	C
66450	02/02/1995	0021	ND	0	109	30155	C
66450	08/21/1984	0021		5	051	07487	C
69650	12/19/1988	0021		10	051	11324	C
69650	01/11/1986	0021		15	051	09238	C
69650	12/12/1983	0021		10	051	06818	C
69650	09/11/1992	0021		10	051	14221	C
72751	10/23/1988	0021	LT	5	051	11216	C
72751	11/07/1985	0021	LT	5	051	08644	C
72751	01/22/1983	0021	LT	5	051	06344	C
72850	09/04/1996	0021	LT	20	109	32932	C
72850	09/19/1989	0021		5	051	11953	C
72850	09/04/1996	0021	LT	20	109	32933	C
72850	11/19/1992	0021		5	051	14244	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
63750	A	UNKNOWN	A	COMM	OKANOGAN	
63750	A		A	COMM	OKANOGAN	
63750	A	UNKNOWN	A	COMM	OKANOGAN	
63750	A		A	COMM	OKANOGAN	
63750	A	UNKNOWN	A	COMM	OKANOGAN	
63750	A		A	COMM	OKANOGAN	
63750	A	UNKNOWN	A	COMM	OKANOGAN	
63750	A		A	COMM	OKANOGAN	
63750	A	UNKNOWN	A	COMM	OKANOGAN	
63750	B	UNKNOWN	A	COMM	OKANOGAN	
63750	U		A	COMM	OKANOGAN	
63750	U		A	COMM	OKANOGAN	
63750	U		A	COMM	OKANOGAN	
63750	U		A	COMM	OKANOGAN	
63750	U		A	COMM	OKANOGAN	
63750	U		A	COMM	OKANOGAN	
63750	B	NG	A	COMM	OKANOGAN	
64400	B	NG	A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	B	NG	A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
64400	U		A	COMM	OKANOGAN	
66450	U		A	COMM	OKANOGAN	
66450	U	PUMP HOUSE	A	COMM	OKANOGAN	
66450	A	CITY OF PATEROS	A	COMM	OKANOGAN	
66450	B		A	COMM	OKANOGAN	
66450	U		A	COMM	OKANOGAN	
69650	U		A	COMM	OKANOGAN	
69650	U		A	COMM	OKANOGAN	
69650	U		A	COMM	OKANOGAN	
69650	U		A	COMM	OKANOGAN	
72751	U		A	TNC	OKANOGAN	
72751	U		A	TNC	OKANOGAN	
72751	U		A	TNC	OKANOGAN	
72850	B	TOWN OF RIVERSI	A	COMM	OKANOGAN	
72850	U		A	COMM	OKANOGAN	
72850	B	TOWN OF RIVERSI	A	COMM	OKANOGAN	
72850	U		A	COMM	OKANOGAN	

Appendix B

Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	SFX	System Name	SRC	MSRC
72850	N	RIVERSIDE, TOWN OF	12	
72850	N	RIVERSIDE, TOWN OF	90	
72850	N	RIVERSIDE, TOWN OF	90	
72850	N	RIVERSIDE, TOWN OF	90	
77000	N	SEATONS GROVE COMPANY	01	
77000	N	SEATONS GROVE COMPANY	01	
77000	N	SEATONS GROVE COMPANY	02	
82935	W	SPECTACLE LAKE RESORT	01	
85125	T	SUN COVE RESORT	01	
85207	E	SUNCREST PLAT WATER SYSTEM	01	
85207	E	SUNCREST PLAT WATER SYSTEM	01	
85207	E	SUNCREST PLAT WATER SYSTEM	01	
85207	E	SUNCREST PLAT WATER SYSTEM	01	
85207	E	SUNCREST PLAT WATER SYSTEM	02	
88700	N	TONASKET WATER SYSTEM	01	
88700	N	TONASKET WATER SYSTEM	01	
88700	N	TONASKET WATER SYSTEM	01	
88700	N	TONASKET WATER SYSTEM	02	
88700	N	TONASKET WATER SYSTEM	02	
88700	N	TONASKET WATER SYSTEM	02	
88700	N	TONASKET WATER SYSTEM	03	
88700	N	TONASKET WATER SYSTEM	05	
88700	N	TONASKET WATER SYSTEM	90	
88700	N	TONASKET WATER SYSTEM	99	
90050	K	TWISP, TOWN OF	01	
90050	K	TWISP, TOWN OF	01	
90050	K	TWISP, TOWN OF	02	
90050	K	TWISP, TOWN OF	02	
90050	K	TWISP, TOWN OF	02	
90050	K	TWISP, TOWN OF	02	
90050	K	TWISP, TOWN OF	03	
90050	K	TWISP, TOWN OF	03	
90050	K	TWISP, TOWN OF	03	
90050	K	TWISP, TOWN OF	03	
90050	K	TWISP, TOWN OF	03	
90050	K	TWISP, TOWN OF	99	
97750	X	WINTHROP, TOWN OF	01	
97750	X	WINTHROP, TOWN OF	01	
97750	X	WINTHROP, TOWN OF	01	
97750	X	WINTHROP, TOWN OF	03	
97750	X	WINTHROP, TOWN OF	03	
97750	X	WINTHROP, TOWN OF	99	
FS028	A	BALANCED ROCK SPRING	01	
FS036	J	BEAVER LAKE CAMPGROUND	01	
FS049	B	BLACKPINE LAKE CAMPGROUND	01	

Appendix B

Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
72850	12/17/1986	0021	LT	5	051	09399	C
72850	03/28/1984	0021		10	051	07041	C
72850	01/11/1984	0021		5	051	06874	C
72850	11/18/1977	0021		6	051	02942	C
77000	01/24/1991	0021		6	030	34337	C
77000	09/18/1989	0021		11	030	32939	C
77000	09/11/1995	0021		4.3	105	07468	C
82935	08/10/1993	0021	LT	20	112	06174	C
85125	10/21/1997	0021	ND	0	081	49437	C
85207	11/17/1992	0021	LT	5	051	14240	C
85207	07/27/1989	0021	LT	5	051	11845	C
85207	11/01/1985	0021	LT	5	051	08634	C
85207	01/19/1983	0021	LT	5	051	06321	C
85207	06/28/1995	0021	LT	20	109	30689	C
88700	11/04/1992	0021		45	051	14213	C
88700	05/10/1988	0021		40	051	10747	C
88700	01/15/1985	0021		35	051	07854	C
88700	11/12/1996	0021		79.93	109	33430	C
88700	12/21/1993	0021		38	109	92211	C
88700	05/10/1988	0021		55	051	10745	C
88700	05/10/1988	0021		5	051	10746	C
88700	12/21/1993	0021		43.5	109	93309	C
88700	05/10/1988	0021		5	051	10748	C
88700	11/12/1996	0021		22.3	109	33431	B
90050	12/01/1992	0021	LT	5	051	14272	C
90050	06/16/1988	0021		3	030	31556	C
90050	08/28/1997	0021		2.62	111	97416	C
90050	12/05/1995	0021	LT	20	109	31590	C
90050	12/01/1992	0021	LT	5	051	14273	C
90050	06/01/1988	0021		3	030	31557	C
90050	08/27/1997	0021		0.84	111	97417	C
90050	12/05/1995	0021	LT	20	109	31589	C
90050	12/01/1992	0021	LT	5	051	14271	C
90050	06/16/1988	0021		2	030	31558	C
90050	10/29/1997	0021		0.46	111	97523	C
97750	08/08/1988	0021	LT	5	051	11031	C
97750	07/28/1987	0021	LT	5	051	09959	C
97750	02/24/1984	0021	LT	5	051	06980	C
97750	12/18/1995	0021	LT	0.5	105	11042	C
97750	07/29/1991	0021	LT	5	051	13515	C
97750	02/28/1983	0021	LT	5	051	06424	C
FS028	08/15/1983	0021	LT	5	051	07453	C
FS036	07/30/1984	0021	LT	5	051	07393	C
FS049	07/06/1982	0021	LT	5	052	08180	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
72850	U		A	COMM	OKANOGAN	
72850	U		A	COMM	OKANOGAN	
72850	U		A	COMM	OKANOGAN	
72850	U		A	COMM	OKANOGAN	
77000	U	UNKNOWN	A	COMM	OKANOGAN	
77000	U		A	COMM	OKANOGAN	
77000	B	PETER DAN CR WE	A	COMM	OKANOGAN	
82935	U		A	TNC	OKANOGAN	
85125	B	WELL 1	A	TNC	OKANOGAN	
85207	U		A	COMM	OKANOGAN	
85207	U		A	COMM	OKANOGAN	
85207	U		A	COMM	OKANOGAN	
85207	U		A	COMM	OKANOGAN	
85207	B		A	COMM	OKANOGAN	
88700	U		A	COMM	OKANOGAN	
88700	U		A	COMM	OKANOGAN	
88700	U		A	COMM	OKANOGAN	
88700	U	500 RAILROAD AV	A	COMM	OKANOGAN	
88700	U	NG	A	COMM	OKANOGAN	
88700	U		A	COMM	OKANOGAN	
88700	U		A	COMM	OKANOGAN	
88700	U	NG	A	COMM	OKANOGAN	
88700	U		A	COMM	OKANOGAN	
88700	U	500 RAILRD AVE	A	COMM	OKANOGAN	
90050	U		A	COMM	OKANOGAN	
90050	U		A	COMM	OKANOGAN	
90050	B	PH TAP	A	COMM	OKANOGAN	
90050	B		A	COMM	OKANOGAN	
90050	U		A	COMM	OKANOGAN	
90050	U		A	COMM	OKANOGAN	
90050	B	PH TAP	A	COMM	OKANOGAN	
90050	B		A	COMM	OKANOGAN	
90050	U		A	COMM	OKANOGAN	
90050	U		A	COMM	OKANOGAN	
90050	B	PUMP HOUSE TAP	A	COMM	OKANOGAN	
97750	U		A	COMM	OKANOGAN	
97750	U		A	COMM	OKANOGAN	
97750	U		A	COMM	OKANOGAN	
97750	B		A	COMM	OKANOGAN	
97750	U		A	COMM	OKANOGAN	
97750	U		A	COMM	OKANOGAN	
FS028	U		B		OKANOGAN	19930329
FS036	U		A	TNC	OKANOGAN	
FS049	U		B		OKANOGAN	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water				
System ID	SFX	System Name	SRC	MSRC
FS075	2	BUCK LAKE CAMPGROUND	01	
FS135	5	CONCONULLY UIS	01	
FS142	V	COTTONWOOD CAMPGROUND	01	
FS204	0	EARLY WINTERS WATER SYSTEM	01	
FS204	0	EARLY WINTERS WATER SYSTEM	92	
FS228	K	FALLS CREEK CAMPGROUND	01	
FS265	2	FLAT CAMPGROUND	01	
FS265	2	FLAT CAMPGROUND	01	
FS265	2	FLAT CAMPGROUND	01	
FS471	H	KLIPCHUCK CAMPGROUND	01	
FS471	H	KLIPCHUCK CAMPGROUND	92	
FS571	M	LONE FIR CAMPGROUND	01	
FS571	M	LONE FIR CAMPGROUND	01	
FS571	M	LONE FIR CAMPGROUND	92	
FS585	Y	LOST LAKE CAMPGROUND	01	
FS598	R	LOUP LOUP & JR CAMPGROUNDS	01	
FS720	3	ORIOLE CAMPGROUND	01	
FS752	W	POPLAR FLAT CAMPGROUND	01	
FS812	0	SALMON MEADOWS CAMPGROUND	01	
FS886	V	SUGARLOAF CAMPGROUND	01	
FS911	L	SWEAT CREEK CAMPGROUND	01	
FS973	6	WAR CREEK CAMPGROUND	01	
FS974	P	WASHINGTON PASS WELL	92	
FW030	5	SINLAHEKIN WILDLIFE AREA HDQS.W.S.	01	
HD011	6	OKANOGAN WSDOT MAINT. FACILITY #2	01	
HD014	Q	WSDOT OKANOGAN MAINTENANCE FACILITY	01	
HD061	F	BREWSTER D O T MAINTENANCE SITE	01	
HD530	U	OKANOGAN MAINTENANCE BLDG/D.O.T.	02	
HD820	Y	TONASKET MAINTENANCE SITE	01	
HD891	9	TWISP MAINT/SITE	01	
IH133	5	COLVILLE INDIAN AGENCY	01	
IH133	5	COLVILLE INDIAN AGENCY	01	
IH136	P	COLVILLE - ALBERT ORR WATER SYSTEM	01	
IH136	P	COLVILLE - ALBERT ORR WATER SYSTEM	02	
IH138	Q	COLVILLE MALOTT COMMUNITY WT SYS	01	
IH138	Q	COLVILLE MALOTT COMMUNITY WT SYS	02	
IH163	X	DISAUTEL COMMUNITY	01	
IH163	X	DISAUTEL COMMUNITY	01	
IH579	T	OMAK HUD TRAILER COURT	01	
IH579	T	OMAK HUD TRAILER COURT	01	
IH579	T	OMAK HUD TRAILER COURT	02	
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01	
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01	
SP010	U	ALTA LAKE STATE PARK	01	

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Chloride Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
FS075	08/31/1982	0021	LT	5	051	05933	C
FS135	08/06/1984	0021	LT	5	051	07423	C
FS142	08/06/1984	0021	LT	5	051	07422	C
FS204	08/31/1982	0021	LT	5	051	05937	C
FS204	07/23/1996	0021	LT	0.5	105	05200	C
FS228	08/31/1982	0021	LT	5	051	05935	C
FS265	07/11/1983	0021		20	052	09286	C
FS265	08/31/1982	0021		35	051	05936	C
FS265	08/29/1978	0021		34	051	03233	C
FS471	06/14/1983	0021	LT	5	052	09122	C
FS471	07/23/1996	0021	LT	0.5	105	05199	C
FS571	06/14/1983	0021	LT	5	052	09121	C
FS571	08/25/1977	0021		2	051	02840	C
FS571	07/23/1996	0021	LT	0.5	105	05197	C
FS585	07/30/1984	0021	LT	5	051	07398	C
FS598	07/06/1982	0021	LT	5	052	08184	C
FS720	08/06/1984	0021	LT	5	051	07419	C
FS752	07/06/1982	0021	LT	5	052	08179	C
FS812	08/06/1984	0021	LT	5	051	07421	C
FS886	08/06/1984	0021	LT	5	051	07420	C
FS911	07/30/1984	0021	LT	5	051	07400	C
FS973	07/06/1982	0021	LT	5	051	05844	C
FS974	07/23/1996	0021		0.5	105	05198	C
FW030	09/29/1994	0021		4.5	108	50581	C
HD011	08/23/1995	0021		3	107	03151	C
HD014	05/26/1995	0021		7	107	09593	C
HD061	10/22/1991	0021		5	051	13682	C
HD530	10/22/1991	0021		5	051	13684	C
HD820	10/22/1991	0021		40	051	13685	C
HD891	10/22/1991	0021	LT	5	051	13683	C
IH133	01/29/1990	0021		7	030	33289	C
IH133	08/19/1987	0021	LT	5	051	10028	C
IH136	08/20/1991	0021	LT	5	051	13571	C
IH136	08/20/1991	0021	LT	5	051	13572	C
IH138	08/20/1991	0021	LT	5	051	13573	C
IH138	08/20/1991	0021	LT	5	051	13574	C
IH163	08/19/1991	0021	LT	5	051	13564	C
IH163	03/23/1987	0021	LT	5	051	09633	C
IH579	08/20/1991	0021	LT	5	051	13575	C
IH579	03/23/1987	0021	LT	5	051	09635	C
IH579	08/20/1991	0021	LT	5	051	13576	C
IH611	08/02/1993	0021		0	093	00101	C
IH611	06/14/1979	0021		0.9	030	01226	C
SP010	06/17/1984	0021		5	051	07210	C

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
FS075	U		B		OKANOGAN	
FS135	U		B		OKANOGAN	
FS142	U		B		OKANOGAN	
FS204	U		A	TNC	OKANOGAN	
FS204	B	SINK FAUCET	A	TNC	OKANOGAN	
FS228	U		B		OKANOGAN	
FS265	U		A	TNC	OKANOGAN	
FS265	U		A	TNC	OKANOGAN	
FS265	U		A	TNC	OKANOGAN	
FS471	U		A	TNC	OKANOGAN	
FS471	B	FAUCET BY SITE #	A	TNC	OKANOGAN	
FS571	U		A	TNC	OKANOGAN	
FS571	U		A	TNC	OKANOGAN	
FS571	B	FAUCET BY SITE #	A	TNC	OKANOGAN	
FS585	U		A	TNC	OKANOGAN	
FS598	U		B		OKANOGAN	
FS720	U		A	TNC	OKANOGAN	
FS752	U		B		OKANOGAN	
FS812	U		A	TNC	OKANOGAN	
FS886	U		B		OKANOGAN	19930415
FS911	U		B		OKANOGAN	19930415
FS973	U		B		OKANOGAN	
FS974	B	FAUCET OUTSIDE	A	TNC	OKANOGAN	
FW030	B		B		OKANOGAN	
HD011	B	WELL 3	B		OKANOGAN	
HD014	B		B		OKANOGAN	
HD061	U		B		OKANOGAN	
HD530	U		B		OKANOGAN	19920929
HD820	U		B		OKANOGAN	19920929
HD891	U		B		OKANOGAN	
IH133	U		A	COMM	OKANOGAN	
IH133	U		A	COMM	OKANOGAN	
IH136	U		A	COMM	OKANOGAN	
IH136	U		A	COMM	OKANOGAN	
IH138	U		A	COMM	OKANOGAN	
IH138	U		A	COMM	OKANOGAN	
IH163	U		A	COMM	OKANOGAN	
IH163	U		A	COMM	OKANOGAN	
IH579	U		A	COMM	OKANOGAN	
IH579	U		A	COMM	OKANOGAN	
IH579	U		A	COMM	OKANOGAN	
IH611	U		A	COMM	OKANOGAN	
IH611	U		A	COMM	OKANOGAN	
SP010	U		A	TNC	OKANOGAN	

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water				
System ID	SFX	System Name	SRC	MSRC
SP010	U	ALTA LAKE STATE PARK	02	
SP010	U	ALTA LAKE STATE PARK	03	
SP018	Y	CONCONULLY STATE PK PRIMITIVE AREA	01	
SP018	Y	CONCONULLY STATE PK PRIMITIVE AREA	01	
SP019	F	CONCONULLY STATE PARK BOAT LAUNCH	01	
SP019	F	CONCONULLY STATE PARK BOAT LAUNCH	01	
SP100	P	BRIDGEPORT STATE PARK	01	
SP170	H	CONCONULLY STATE PARK	90	
SP170	H	CONCONULLY STATE PARK	90	
SP295	Q	FORT OKANOGAN STATE PARK	90	
SP660	W	PEARRYGIN LAKE STATE PARK	01	Median = Number =

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water System ID	Collection Date	PARAM. (0021 = Chloride)	A_LVL	Chloride Conc. (mg/l)	LAB.	SAM.	S_purp
SP010	06/17/1984	0021		5	051	07209	C
SP010	05/12/1993	0021	ND	0	109	51301	C
SP018	06/21/1995	0021	ND	0	109	30623	C
SP018	02/02/1994	0021	ND	0	109	20402	C
SP019	06/21/1995	0021	ND	0	109	30622	C
SP019	01/12/1994	0021	ND	0	109	11317	C
SP100	06/08/1984	0021	LT	5	051	07184	C
SP170	06/09/1984	0021	LT	5	051	07186	C
SP170	01/18/1984	0021	LT	5	051	06889	C
SP295	06/06/1984	0021	LT	5	051	07185	C
SP660Mediæ	01/10/1984	0021	LT	5	051	06870	C

Max = 79.9
 Min = 0
 Mean = 7.6
 Median = 5.0
 Number = 363

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Chloride Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

Public Water						
System ID	S_type	Sample_LOC	grp	PWS-TYPE-CODE	COUNTY	PWS-INACT-DATE
SP010	U		A	TNC	OKANOGAN	
SP010	B		A	TNC	OKANOGAN	
SP018	A		A	TNC	OKANOGAN	
SP018	B		A	TNC	OKANOGAN	
SP019	A		A	TNC	OKANOGAN	
SP019	B		A	TNC	OKANOGAN	
SP100	U		A	TNC	OKANOGAN	
SP170	U		A	TNC	OKANOGAN	
SP170	U		A	TNC	OKANOGAN	
SP295	U		B		OKANOGAN	
SP660Medic	U		A	TNC	OKANOGAN	

Appendix C

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
00084	4	CHEWACK NORTH WATER SYSTEM	01		07/25/1990
00085	M	BROWN'S FARM WATER SYSTEM	01		08/20/1990
00157	1	FAIRWAY ACRES 3RD ADDITION	01		06/27/1990
00158	J	TIMBERLINE MEADOWS P.D. #92	01		08/01/1990
00159	2	MOUNTAIN VALLEY P.D. #91	01		08/01/1990
00161	6	TALUS WATER SYSTEM	01		11/20/1990
00162	P	STILLWATER RANCH P.D.	01		11/27/1990
00163	7	RIVERFRONT PARTNERS PUD	01		10/18/1993
00163	7	RIVERFRONT PARTNERS PUD	01		11/27/1990
00168	T	BROWNLEE P.D. WATER SYSTEM	01		11/20/1990
00169	A	WINDHAVEN WATER SYSTEM #1	01		08/20/1990
00171	E	THOMAS WATER SYSTEM	01		04/27/1993
00171	E	THOMAS WATER SYSTEM	01		08/27/1990
00189	U	RANCHO HELL P.D.	01		12/04/1990
00190	E	BURKE-LEHMAN WATER SYSTEM	01		11/27/1990
00190	E	BURKE-LEHMAN WATER SYSTEM	01		11/27/1990
00191	Y	GOAT CREEK NORTH #1 WTR. SYS.	01		01/11/1994
00191	Y	GOAT CREEK NORTH #1 WTR. SYS.	01		09/20/1990
00193	0	GOAT CREEK NORTH #3 WTR. SYS.	01		01/11/1994
00193	0	GOAT CREEK NORTH #3 WTR. SYS.	01		09/20/1990
00266	W	TWIN LAKES NO. 1	01		01/03/1995
00266	W	TWIN LAKES NO. 1	01		11/20/1990
00267	D	WOLLEY WATER SYSTEM	01		12/10/1990
00267	D	WOLLEY WATER SYSTEM	01		12/10/1990
00285	W	BURKHART RANCH P.D.	01		12/04/1990
00286	D	CROSBY P.D. WATER SYSTEM	01		12/04/1990
00287	X	GREENLAKE PARDNERS P.D.	01		11/27/1990
00288	E	ROUGE RANCH WATER SYSTEM	01		11/27/1990
00289	Y	SHUCK RANCH WATER SYSTEM	01		11/20/1990
00290	K	WINDHAVEN WATER SYSTEM #2	01		08/20/1990
00308	H	L-9 WATER SYSTEM	01		11/27/1990
00345	0	DI FRANCO-CRANE-MANLEY WTR. SYS.	01		02/07/1991
00361	E	BEAR CREEK RANCH WTR. SYS.	01		11/20/1990
00362	Y	FOUR SUNS P.D. WTR. SYS.	01		01/11/1993
00362	Y	FOUR SUNS P.D. WTR. SYS.	01		10/23/1990
00365	H	GRAY, OLIVE WATER SYSTEM	01		03/04/1991
00402	J	DURTCHI FAMILY P.D. WTR. SYS.	01		02/13/1991
00403	2	CHIEF JOSEPH DAM ORIENTATION AREA	01		09/15/1994
00403	2	CHIEF JOSEPH DAM ORIENTATION AREA	01		09/19/1990
00463	L	HAWLEY/BEKENDAM WATER SYSTEM	01		03/04/1991
00482	L	CHIEF JOSEPH ORCHARD	01		01/31/1991
00590	Y	GARDINIER WATER SYSTEM	01		03/25/1991
00592	0	GOLD CREEK ACRES WATER SYSTEM	01		02/13/1991

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
00084	0020	LT	0.2	051	12620	C	U
00085	0020	LT	0.2	052	21027	C	U
00157	0020	LT	0.2	030	33748	C	U
00158	0020		0.4	052	20949	C	U
00159	0020		0.5	052	20948	C	U
00161	0020	LT	0.2	052	21376	C	U
00162	0020	LT	0.2	052	21427	C	U
00163	0020		1.5	093	00153	C	U
00163	0020	LT	0.2	052	21428	C	U
00168	0020	LT	0.2	052	21375	C	U
00169	0020		0.4	052	21026	C	U
00171	0020		0.3	093	00049	C	U
00171	0020		0.3	052	21045	C	U
00189	0020		3.7	052	21459	C	U
00190	0020	LT	0.2	082	21432	C	U
00190	0020	LT	0.2	052	21422	C	U
00191	0020		1.4	093	00006	C	B
00191	0020	LT	0.2	052	21140	C	U
00193	0020		0.83	093	00005	C	B
00193	0020	LT	0.2	052	21139	C	U
00266	0020		0.54	093	90002	C	B
00266	0020		1.7	052	21373	C	U
00267	0020		2.4	052	21595	C	U
00267	0020		2.4	052	71595	C	U
00285	0020	LT	0.2	052	21460	C	U
00286	0020		3.6	052	21456	C	U
00287	0020	LT	0.2	052	21425	C	U
00288	0020	LT	0.2	052	21431	C	U
00289	0020	LT	0.2	052	21374	C	U
00290	0020		0.4	052	29027	C	U
00308	0020	LT	0.2	052	21433	C	U
00345	0020	LT	0.2	052	21851	C	U
00361	0020	LT	0.2	052	21377	C	U
00362	0020		0.93	093	00007	C	B
00362	0020	LT	0.2	052	21308	C	U
00365	0020		2	052	21986	C	U
00402	0020	LT	0.2	052	21884	C	U
00403	0020		1.5	052	28613	C	B
00403	0020		2.5	051	12735	C	U
00463	0020		0.2	052	21988	C	U
00482	0020		2	052	21823	C	U
00590	0020		0.2	052	22093	C	U
00592	0020	LT	0.2	052	21885	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
00084	UNKNOWN	B		EA	OKANOGAN	
00085	UNKNOWN	B		EA	OKANOGAN	
00157	UNKNOWN	B		EA	OKANOGAN	
00158	UNKNOWN	B		EA	OKANOGAN	
00159	UNKNOWN	B		EA	OKANOGAN	
00161	UNKNOWN	B		EA	OKANOGAN	
00162	WELL CASING	B		EA	OKANOGAN	
00163		B		EA	OKANOGAN	
00163	WELL CASING	B		EA	OKANOGAN	
00168	UNKNOWN	B		EA	OKANOGAN	
00169	UNKNOWN	B		EA	OKANOGAN	
00171		B		EA	OKANOGAN	
00171	UNKNOWN	B		EA	OKANOGAN	
00189	KITCHEN TAP	B		EA	OKANOGAN	
00190	HOSE BIB NEAR WELL	B		EA	OKANOGAN	
00190	HOSE BIB	B		EA	OKANOGAN	
00191		B		EA	OKANOGAN	
00191	UNKNOWN	B		EA	OKANOGAN	
00193		B		EA	OKANOGAN	
00193	UNKNOWN	B		EA	OKANOGAN	
00266		B		EA	OKANOGAN	
00266	COLEMAN HOUSE TWIN L/	B		EA	OKANOGAN	
00267	UNKNOWN	B		EA	OKANOGAN	
00267	UNKNOWN	B		EA	OKANOGAN	
00285	KITCHEN TAP	B		EA	OKANOGAN	
00286	UNKNOWN	B		EA	OKANOGAN	
00287	AT HOSE BIB	B		EA	OKANOGAN	
00288	KITCHEN TAP	B		EA	OKANOGAN	
00289	UNKNOWN	B		EA	OKANOGAN	
00290	UNKNOWN	B		EA	OKANOGAN	
00308	UNKNOWN	B		EA	OKANOGAN	
00345	HENTEN HOMESTEAD SUB	B		EA	OKANOGAN	
00361	UNKNOWN	B		EA	OKANOGAN	
00362		B		EA	OKANOGAN	
00362	UNKNOWN	B		EA	OKANOGAN	
00365	UNKNOWN	B		EA	OKANOGAN	
00402	UNKNOWN	B		EA	OKANOGAN	
00403		A	TNC	EA	OKANOGAN	
00403	UNKNOWN	A	TNC	EA	OKANOGAN	
00463	UNKNOWN	B		EA	OKANOGAN	
00482	UNKNOWN	B		EA	OKANOGAN	
00590		B		EA	OKANOGAN	
00592		B		EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
00597	K	HEATH SHORT PLAT WATER SYSTEM	01		03/04/1991
00598	3	KOCH WATER SYSTEM	01		04/27/1991
00603	A	APPLEWAY TRAILER COURT	01		05/07/1997
00603	A	APPLEWAY TRAILER COURT	01		11/03/1992
00603	A	APPLEWAY TRAILER COURT	01		08/12/1986
00603	A	APPLEWAY TRAILER COURT	01		08/12/1986
00603	A	APPLEWAY TRAILER COURT	01		11/21/1983
00603	A	APPLEWAY TRAILER COURT	01		02/17/1981
00603	A	APPLEWAY TRAILER COURT	90		05/24/1989
00635	4	STOREY WATER SYSTEM	01		03/19/1991
00639	6	SORG SHORT PLAT WATER SYSTEM	01		03/19/1991
00780	Y	VALLEY_VIEW PARK SUBDIVISON	01		08/17/1993
00780	Y	VALLEY_VIEW PARK SUBDIVISON	01		02/17/1989
00823	3	DEERING WATER SYSTEM	01		08/22/1994
00823	3	DEERING WATER SYSTEM	01		05/12/1991
00838	X	PASLAY-GOBLE WATER SYSTEM	01		07/16/1991
00908	9	NICKELL ORCHARDS HOME WELL	01		08/20/1991
00929	A	MICHAEL, SALLY WATER SYSTEM	01		09/23/1991
00943	Q	LIBERTY BELL HIGH SCHOOL	01		10/08/1995
00943	Q	LIBERTY BELL HIGH SCHOOL	03		04/07/1997
01062	M	DAVIS LAKE WATER SYSTEM	01		10/29/1991
01177	L	WALLEY SHORT PLAT WATER SYSTEM	01		10/22/1991
01258	Q	ARBUCKLE WATER SYSTEM	01		10/21/1994
01258	Q	ARBUCKLE WATER SYSTEM	01		10/30/1991
01262	W	BURKE-LEHMAN ORCHARD TRACTS #3	01		11/04/1991
01282	D	SHELDON WATER SYSTEM	01		01/07/1992
01337	U	KINCAID WATER SYSTEM	01		05/19/1994
01337	U	KINCAID WATER SYSTEM	01		04/07/1992
01575	3	LESLIE WATER SYSTEM	01		05/26/1992
01576	L	HOMESTEAD MOBILE HOME PARK	01		04/11/1994
01576	L	HOMESTEAD MOBILE HOME PARK	01		03/10/1992
01593	K	SMITH, ELWOOD WATER SYSTEM	01		05/11/1992
01593	K	SMITH, ELWOOD WATER SYSTEM	92		10/05/1993
01676	Q	MADGE SHORT PLAT	01		08/04/1992
01678	R	WILSON ACRES WATER SYSTEM	01		08/17/1992
02144	B	VERBECK SHORT PLAT WATER SYSTEM	01		10/08/1992
02177	N	HOMESTEAD WATER SYSTEM	01		02/04/1993
02186	D	EARL PHEASANT SHORT PLAT WTR SYSTEM	01		02/10/1993
02192	L	FISHER, GUY SHORT PLAT	01		02/10/1993
02218	R	FIELD, RUBY WELL	01		03/16/1993
02257	9	GIBSON'S NORTH FORK LODGE	01		04/16/1996
02366	5	RANCH HOUSE WATER SYSTEM	01		04/15/1993
02409	9	HARRIS-JEFFERTS WATER SYSTEM	01		04/06/1993

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
00597	0020		0.5	052	21987	C	U
00598	0020		1.2	052	22387	C	U
00603	0020		0.3	089	28923	C	A
00603	0020	LT	0.1	111	11001	C	U
00603	0020	LT	0.2	051	09179	C	U
00603	0020	LT	0.2	051	09178	C	U
00603	0020	LT	0.2	051	06774	C	U
00603	0020	LT	0.2	051	04438	C	U
00603	0020	LT	0.2	051	11695	C	U
00635	0020	LT	0.2	052	22027	C	U
00639	0020	LT	0.2	052	22028	C	U
00780	0020		0.8	109	81805	C	U
00780	0020	LT	0.2	052	18125	C	U
00823	0020	ND		093	00204	C	B
00823	0020	LT	0	016	00101	C	U
00838	0020		7	014	33319	C	U
00908	0020		5.4	052	22959	C	U
00929	0020	LT	0.2	052	23118	C	U
00943	0020		1.54	109	31332	C	B
00943	0020		4.69	109	34337	C	U
01062	0020		2	052	23276	C	U
01177	0020	LT	0.2	052	23252	C	U
01258	0020	ND		093	00264	C	B
01258	0020	LT	0.2	051	13717	C	U
01262	0020	LT	0.2	052	23283	C	U
01282	0020		3.6	052	23513	C	U
01337	0020		1.95	093	00125	C	B
01337	0020		0.5	109	00808	C	U
01575	0020		0.2	052	23951	C	U
01576	0020		0.56	093	00070	C	B
01576	0020		0.7	051	13865	C	U
01593	0020		0.5	052	23917	C	U
01593	0020		0.4	093	00131	C	U
01676	0020		0.2	109	20805	C	U
01678	0020		1.1	105	01418	C	U
02144	0020		0.8	109	21008	C	U
02177	0020		0.1	093	00007	C	U
02186	0020	LT	0.1	093	00010	C	U
02192	0020	LT	0.1	093	00009	C	U
02218	0020		0.4	093	00021	C	U
02257	0020	LT	0.07	105	02517	C	B
02366	0020		0.1	093	00040	C	U
02409	0020		1.8	093	00031	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
00597		B		EA	OKANOGAN	
00598		B		EA	OKANOGAN	
00603	APPLEQAY TRAILS PARK	A	COMM	EA	OKANOGAN	
00603		A	COMM	EA	OKANOGAN	
00603		A	COMM	EA	OKANOGAN	
00603		A	COMM	EA	OKANOGAN	
00603		A	COMM	EA	OKANOGAN	
00603		A	COMM	EA	OKANOGAN	
00603		A	COMM	EA	OKANOGAN	
00635		B		EA	OKANOGAN	
00639		B		EA	OKANOGAN	
00780		B		EA	OKANOGAN	
00780		B		EA	OKANOGAN	
00823		B		EA	OKANOGAN	
00823		B		EA	OKANOGAN	
00838		B		EA	OKANOGAN	
00908		B		EA	OKANOGAN	
00929		B		EA	OKANOGAN	
00943		A	NTNC	EA	OKANOGAN	
00943	MECHANICAL ROOM #125	A	NTNC	EA	OKANOGAN	
01062		B		EA	OKANOGAN	
01177		B		EA	OKANOGAN	
01258		B		EA	OKANOGAN	
01258		B		EA	OKANOGAN	
01262		B		EA	OKANOGAN	
01282		B		EA	OKANOGAN	
01337		B		EA	OKANOGAN	
01337		B		EA	OKANOGAN	
01575		B		EA	OKANOGAN	
01576		A	COMM	EA	OKANOGAN	
01576		A	COMM	EA	OKANOGAN	
01593		B		EA	OKANOGAN	04/12/1994
01593		B		EA	OKANOGAN	04/12/1994
01676		B		EA	OKANOGAN	
01678		B		EA	OKANOGAN	
02144		B		EA	OKANOGAN	
02177		B		EA	OKANOGAN	
02186		B		EA	OKANOGAN	
02192		B		EA	OKANOGAN	
02218		B		EA	OKANOGAN	
02257	UNKNOWN	B		EA	OKANOGAN	
02366		B		EA	OKANOGAN	
02409		B		EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
02479	3	OROVILLE CONG.OF JEHOVAHS WITNESSES	01		05/17/1993
02508	W	OKANOGAN CO.PUBLIC WORKS SHOP	01		06/25/1993
02526	C	FENISON WATER SYSTEM	01		06/02/1993
02578	P	FOX FAMILY WELL	01		07/06/1993
02747	N	NORTH COUNTRY CHRISTIAN SCHOOL & CG	01		05/16/1993
02756	D	SCHALLER HOMES WATER SYSTEM	01		08/17/1993
02983	W	UNGER/WYATT WATER SYSTEM	01		09/21/1993
02983	W	UNGER/WYATT WATER SYSTEM	01		09/20/1993
03018	K	DAWN SONG ORCHARD	01		07/22/1993
03272	9	WALTON, BOYD WATER SYSTEM	01		03/14/1994
03383	6	OLIVER/EDWARDS SHORT PLAT	01		11/16/1993
03499	N	MC DANIEL, ROBERT WTR. SYS.	01		02/28/1994
03503	C	SAGE RIDGE #3&4 WATER SYSTEM	01		04/13/1994
03504	W	SAGE RIDGE # 1&2 WATER SYSTEM	01		04/11/1994
03522	C	NORRIS WATER SYSTEM	01		06/02/1994
03566	F	METHOW VALLEY ESTATES WTR. SYS.	01		04/12/1994
03657	V	CARIBOO TRACTS WATER SYSTEM	01		06/15/1994
03718	F	CRAMER CABIN WATER SYSTEM	01		06/22/1994
03764	P	LOTTIE STREET WELL	01		05/31/1994
03842	9	FISHER, GREG WATER SYSTEM	01		05/26/1994
03892	K	HAGELL, BARNETT WATER SYSTEM	01		08/10/1994
03893	3	LAKEVIEW PROPERTIES #1	01		08/30/1994
03921	C	COPPLE ROAD WATER SYSTEM	01		11/01/1993
03947	O	GOAT WALL CABIN	01		10/24/1993
03998	T	WANNACUT LAKE VIEW ESTATES #1	01		07/13/1994
04007	V	VISTA VIEW ESTATES #1	01		07/13/1994
04109	1	EARLY WINTERS CABINS	01		11/14/1994
04280	K	WILSON RANCH PD WATER SYSTEM	01		05/30/1995
04381	7	OKANOGAN CO. ELECTRIC CO-OP INC.	01		10/26/1994
04427	W	VOGLI GUEST LODGE	01		02/08/1995
04506	O	WESTVUE RANCHETTES #1	01		03/20/1995
04519	T	BROOKS ACRES W.S.	01		04/27/1995
04528	J	BERGH, JEFF SHORTPLAT	01		09/07/1994
04561	Y	JOHNSON SHORT PLAT	01		04/25/1995
04578	U	ROSE WATER SYSTEM	01		03/24/1995
04619	X	CHEWUCH RIVER GUEST HOUSE	92		04/16/1995
04670	U	MANY LAKES MOBILE HOME PARK	01		02/25/1997
04670	U	MANY LAKES MOBILE HOME PARK	01		04/18/1996
04670	U	MANY LAKES MOBILE HOME PARK	01		11/02/1994
04670	U	MANY LAKES MOBILE HOME PARK	01		09/01/1994
04685	N	METHOW VALLEY UNITED METHODIST	01		05/02/1995
04690	B	HOBART WATER SYSTEM	01		11/21/1993
04690	B	HOBART WATER SYSTEM	01		10/20/1993

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
02479	0020		0.7	093	00064	C	U
02508	0020		0.1	093	00081	C	U
02526	0020		0.8	111	06002	C	U
02578	0020		0.1	093	00090	C	U
02747	0020		0.3	093	00061	C	U
02756	0020		0.8	109	91805	C	B
02983	0020		1.1	051	14705	C	B
02983	0020		1.1	051	14705	C	U
03018	0020		2.6	105	04052	C	U
03272	0020		2.44	109	34503	C	B
03383	0020		7.9	051	14775	C	B
03499	0020	LT	0.07	105	00943	C	B
03503	0020	ND		109	41407	C	B
03504	0020	ND		109	41204	C	B
03522	0020	ND		105	03082	C	B
03566	0020		0.7	051	14969	C	B
03657	0020	ND		051	15024	C	B
03718	0020	ND		093	00161	C	B
03764	0020		1.39	109	53114	C	B
03842	0020	ND		109	52702	C	B
03892	0020		2.65	109	81003	C	B
03893	0020		1.09	109	83003	C	B
03921	0020	ND		051	14750	C	B
03947	0020	LT	0.05	055	99321	C	B
03998	0020	LT	0.5	109	71507	C	B
04007	0020	ND		109	71506	C	B
04109	0020	ND		109	30018	C	B
04280	0020	LT	0.5	109	30496	C	B
04381	0020		0.79	109	02703	C	B
04427	0020		0.64	109	30184	C	B
04506	0020	ND		051	15226	C	B
04519	0020		1.3	108	59482	C	B
04528	0020	ND		109	90801	C	B
04561	0020	LT	0.2	051	15245	C	B
04578	0020		0.6	108	58322	C	B
04619	0020	ND		051	15242	C	A
04670	0020		9.02	093	00014	C	U
04670	0020		9.75	093	00030	C	B
04670	0020		8.9	093	00271	C	B
04670	0020		10.2	112	15089	C	B
04685	0020		0.7	051	15253	C	B
04690	0020		4.4	051	14777	C	B
04690	0020		5.65	093	00150	C	B

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
02479		B		EA	OKANOGAN	
02508		B		EA	OKANOGAN	
02526		B		EA	OKANOGAN	
02578		B		EA	OKANOGAN	
02747		B		EA	OKANOGAN	
02756		B		EA	OKANOGAN	
02983		B		EA	OKANOGAN	
02983		B		EA	OKANOGAN	
03018		B		EA	OKANOGAN	
03272		B		EA	OKANOGAN	
03383		B		EA	OKANOGAN	
03499		B		EA	OKANOGAN	
03503		B		EA	OKANOGAN	
03504		B		EA	OKANOGAN	
03522		B		EA	OKANOGAN	
03566		B		EA	OKANOGAN	
03657		B		EA	OKANOGAN	
03718		B		EA	OKANOGAN	
03764		B		EA	OKANOGAN	
03842		B		EA	OKANOGAN	
03892		B		EA	OKANOGAN	
03893		B		EA	OKANOGAN	
03921		B		EA	OKANOGAN	
03947		B		EA	OKANOGAN	
03998	WELL 1	B		EA	OKANOGAN	
04007		B		EA	OKANOGAN	
04109		B		EA	OKANOGAN	
04280	UNKNOWN	A	COMM	EA	OKANOGAN	
04381		B		EA	OKANOGAN	
04427		B		EA	OKANOGAN	
04506		B		EA	OKANOGAN	
04519		B		EA	OKANOGAN	
04528		B		EA	OKANOGAN	
04561		B		EA	OKANOGAN	
04578		B		EA	OKANOGAN	
04619	366 B WEST CHEWUCH RI	B		EA	OKANOGAN	
04670	#2 KT	B		EA	OKANOGAN	
04670	OUTSIDE TAP	B		EA	OKANOGAN	
04670		B		EA	OKANOGAN	
04670		B		EA	OKANOGAN	
04685		A	TNC	EA	OKANOGAN	
04690		B		EA	OKANOGAN	
04690		B		EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
04696	E	LONESOME DOVE	01		03/14/1995
04876	6	WOLF HOLLOW CABIN WATER SYSTEM	01		07/18/1995
05020	U	BROWN, GARY WATER SYSTEM	01		10/11/1995
05061	C	LESTER FARM HOME WATER SYSTEM	01		01/05/1996
05185	3	TICE RANCH #1	01		08/30/1995
05186	L	TICE RANCH #2	92		08/30/1995
05206	N	CHECHAQUO RANCH 1A	01		05/23/1995
05209	7	CHECHAQUO RANCH 1B	01		05/23/1995
05211	B	CHECHAQUO RANCH 2	01		05/23/1995
05212	V	CHECHAQUO RANCH 3	01		05/23/1995
05214	W	CHECHAQUO RANCH 4	01		05/23/1995
05284	P	CENTRAL LANDFILL	01		03/05/1996
05307	A	WODA WOODS #2	01		10/24/1995
05314	1	BEHRENS METHOW RIVER WATER ASSN.	01		03/11/1996
05324	9	COBURN SHORT PLAT	01		07/08/1994
05435	6	VALLEY VIEW B & B	01		07/11/1996
05524	J	WESTVUE RANCHETTES #3	01		08/21/1995
05558	C	JENSEN SHORT PLAT	01		02/16/1995
05663	6	WILLOWS WATER ASSOCIATION	01		04/24/1996
05909	4	LOS PALOS BED & BREAKFAST	01		10/09/1996
07100	K	BIRCH SPRING WTR USERS	01		12/05/1984
07100	K	BIRCH SPRING WTR USERS	01		08/22/1984
08246	W	JOHNNY APPLESEED OF WASHINGTON	02		10/17/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	02		09/26/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	02		04/18/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	02		02/21/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	02		12/19/1995
08246	W	JOHNNY APPLESEED OF WASHINGTON	02		12/12/1990
08246	W	JOHNNY APPLESEED OF WASHINGTON	04		02/21/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	04		12/19/1995
08246	W	JOHNNY APPLESEED OF WASHINGTON	06		02/21/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	06		12/19/1995
08246	W	JOHNNY APPLESEED OF WASHINGTON	07		10/17/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	07		09/26/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	07		04/18/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	07		02/21/1996
08246	W	JOHNNY APPLESEED OF WASHINGTON	07		12/19/1995
08246	W	JOHNNY APPLESEED OF WASHINGTON	08		03/29/1993
08246	W	JOHNNY APPLESEED OF WASHINGTON	90		05/07/1982
08246	W	JOHNNY APPLESEED OF WASHINGTON	99		03/03/1987
08246	W	JOHNNY APPLESEED OF WASHINGTON	99		02/19/1985
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	01		10/05/1992
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	01		09/30/1985

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
04696	0020	LT	0.2	051	15212	C	B
04876	0020		0.3	051	15297	C	B
05020	0020	LT	0.07	105	08840	C	B
05061	0020		1	089	23724	C	B
05185	0020		1.9	051	15314	C	B
05186	0020		1.7	051	15315	C	B
05206	0020		0.2	051	15262	C	B
05209	0020		0.2	051	15263	C	B
05211	0020	LT	0.2	051	15264	C	B
05212	0020	LT	0.2	051	15265	C	B
05214	0020		0.5	051	15266	C	B
05284	0020		0.41	105	91317	C	B
05307	0020		5.1	109	31423	C	B
05314	0020		0.69	093	00019	C	A
05324	0020	LT	0.07	105	03908	C	B
05435	0020		0.85	105	04693	C	B
05524	0020		0.08	105	05726	C	B
05558	0020	LT	0.07	105	00734	C	B
05663	0020	ND		017	02375	C	U
05909	0020		0.1	105	09431	C	U
07100	0020		3.8	052	11063	C	U
07100	0020		3.6	051	07496	C	U
08246	0020		1.46	105	09820	C	B
08246	0020		1.27	105	08749	C	B
08246	0020		3.82	105	02607	C	B
08246	0020		3.91	105	01002	C	B
08246	0020		3.87	109	31761	C	B
08246	0020		0.3	051	12967	C	U
08246	0020		5.42	105	01003	C	B
08246	0020		3.87	109	31755	C	B
08246	0020		0.11	105	01004	C	B
08246	0020	LT	1.63	109	31756	C	B
08246	0020		1.52	105	09819	C	B
08246	0020		1.35	105	08748	C	B
08246	0020		3.83	105	02608	C	B
08246	0020		4.02	105	01005	C	B
08246	0020		4.02	109	31757	C	B
08246	0020	LT	0.2	051	14428	C	U
08246	0020		3.3	051	05546	C	U
08246	0020		2.2	051	09552	C	U
08246	0020		0.6	051	07974	C	U
08290	0020		1.8	051	14142	C	U
08290	0020		1.9	051	08503	C	U

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
04696		B		EA	OKANOGAN	
04876		B		EA	OKANOGAN	
05020		B		EA	OKANOGAN	
05061		B		EA	OKANOGAN	
05185	WELLHEAD HOSE BIB	B		EA	OKANOGAN	
05186	LODGE MECHANICAL ROO	B		EA	OKANOGAN	
05206	UNKNOWN	B		EA	OKANOGAN	
05209	UNKNOWN	B		EA	OKANOGAN	
05211	UNKNOWN	B		EA	OKANOGAN	
05212	UNKNOWN	B		EA	OKANOGAN	
05214	UNKNOWN	B		EA	OKANOGAN	
05284	UNKNOWN	B		EA	OKANOGAN	
05307	UNKNOWN	B		EA	OKANOGAN	
05314	WH	B		EA	OKANOGAN	
05324	UNKNOWN	B		EA	OKANOGAN	
05435	WELL 1	B		EA	OKANOGAN	
05524	74 CRUMBACHER RD	B		EA	OKANOGAN	
05558	W	B		EA	OKANOGAN	
05663	WELL 1	B		EA	OKANOGAN	
05909	WELL	B		EA	OKANOGAN	
07100		B		EA	OKANOGAN	
07100		B		EA	OKANOGAN	
08246	GORDON SPRING	A	COMM	EA	OKANOGAN	
08246	TR 2 RESERVOIR	A	COMM	EA	OKANOGAN	
08246	GORDON SPRING	A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246	B & O ROAD	A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246	TURNER SPRING	A	COMM	EA	OKANOGAN	
08246	TR 2 RESERVOIR	A	COMM	EA	OKANOGAN	
08246	TURNER SPRING	A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08246		A	COMM	EA	OKANOGAN	
08290		A	COMM	EA	OKANOGAN	
08290		A	COMM	EA	OKANOGAN	

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	04		10/22/1996
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	04		04/22/1996
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	04		12/20/1993
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	05		08/30/1995
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	90		06/14/1988
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	90		06/12/1979
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	96	010204	11/18/1997
08290	3	BREWSTER FLAT DOMESTIC WATER ASSN.	99		12/27/1982
08300	W	BREWSTER, CITY OF	01		09/24/1991
08300	W	BREWSTER, CITY OF	01		08/01/1988
08300	W	BREWSTER, CITY OF	01		10/21/1985
08300	W	BREWSTER, CITY OF	02		08/01/1988
08300	W	BREWSTER, CITY OF	03		09/24/1997
08300	W	BREWSTER, CITY OF	05		09/24/1997
08300	W	BREWSTER, CITY OF	90		06/02/1982
08300	W	BREWSTER, CITY OF	90		03/06/1978
08300	W	BREWSTER, CITY OF	90		06/20/1977
09064	6	SANDFLAT WATER ASSOCIATION	01		09/06/1994
09064	6	SANDFLAT WATER ASSOCIATION	99		03/21/1996
09066	7	ASTON ESTATES	90		01/11/1988
09066	7	ASTON ESTATES	90		05/25/1982
09066	7	ASTON ESTATES	92		12/16/1991
09066	7	ASTON ESTATES	99		03/01/1985
13909	1	PINECREST WATER SYSTEM	01		07/19/1994
13909	1	PINECREST WATER SYSTEM	01		05/29/1991
13909	1	PINECREST WATER SYSTEM	01		07/16/1988
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	01		09/24/1997
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	01		06/22/1994
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	01		05/21/1991
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	90		10/06/1987
13916	Q	CRUMBACHER ESTATES WATER SYSTEM	99		04/03/1984
13940	D	COLEMAN BUTTE WATER ASSOC	01		11/06/1995
13940	D	COLEMAN BUTTE WATER ASSOC	01		05/29/1991
13940	D	COLEMAN BUTTE WATER ASSOC	01		11/10/1987
13940	D	COLEMAN BUTTE WATER ASSOC	01		10/26/1984
13940	D	COLEMAN BUTTE WATER ASSOC	01		03/03/1981
15400	V	COULEE DAM WATER DEPT.	02		11/27/1995
15400	V	COULEE DAM WATER DEPT.	02		05/07/1991
15400	V	COULEE DAM WATER DEPT.	02		12/26/1989
15400	V	COULEE DAM WATER DEPT.	02		09/15/1989
15400	V	COULEE DAM WATER DEPT.	02		09/13/1988
15400	V	COULEE DAM WATER DEPT.	02		09/16/1987
15400	V	COULEE DAM WATER DEPT.	02		10/01/1986

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
08290	0020		1.5	125	36910	C	B
08290	0020		1.9	125	34861	C	B
08290	0020		1.8	052	27375	C	U
08290	0020		3.41	109	31159	C	B
08290	0020		2.3	051	10889	C	U
08290	0020		2	051	03626	C	U
08290	0020		1.6	125	49191	C	B
08290	0020		1.4	051	06261	C	U
08300	0020		0.6	051	13630	C	U
08300	0020		0.7	030	31743	C	U
08300	0020		0.9	051	08580	C	U
08300	0020		0.7	030	31744	C	U
08300	0020		1.2	125	47272	C	U
08300	0020		1.8	125	47271	C	U
08300	0020		1.7	051	05693	C	U
08300	0020		0.6	059	00220	C	U
08300	0020		1.3	051	02740	C	U
09064	0020	ND		051	15062	C	B
09064	0020	LT	0.1	010	07332	C	B
09066	0020	LT	0.2	051	10370	C	U
09066	0020		0.2	051	05688	C	U
09066	0020	LT	0.2	051	13761	C	U
09066	0020		0.7	051	08064	C	U
13909	0020		0.4	051	15041	C	A
13909	0020		0.3	051	13347	C	U
13909	0020		0.3	051	10961	C	U
13916	0020	LT	0.5	111	97461	C	B
13916	0020	ND		109	62304	C	B
13916	0020		0.4	051	13318	C	U
13916	0020		0.5	051	10138	C	U
13916	0020		0.3	051	07053	C	U
13940	0020		1.68	105	10099	C	B
13940	0020		1.4	051	13349	C	U
13940	0020		1.4	051	10217	C	U
13940	0020		2.1	051	07700	C	U
13940	0020		1.5	051	04458	C	U
15400	0020	LT	0.2	051	15339	C	A
15400	0020	LT	0.2	051	13283	C	U
15400	0020		0.2	051	12171	C	U
15400	0020	LT	0.2	030	32934	C	U
15400	0020	LT	0.2	030	31824	C	U
15400	0020	LT	0.2	030	33624	C	U
15400	0020	LT	0.2	030	02381	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
08290	WELL FIELD	A	COMM	EA	OKANOGAN	
08290	UNKNOWN	A	COMM	EA	OKANOGAN	
08290		A	COMM	EA	OKANOGAN	
08290		A	COMM	EA	OKANOGAN	
08290		A	COMM	EA	OKANOGAN	
08290		A	COMM	EA	OKANOGAN	
08290	WELL	A	COMM	EA	OKANOGAN	
08290		A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
08300	WELL FIELD	A	COMM	EA	OKANOGAN	
08300	WELL FIELD	A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
08300		A	COMM	EA	OKANOGAN	
09064		A	COMM	EA	OKANOGAN	
09064	SAND FLATS H2O ASSOC	A	COMM	EA	OKANOGAN	
09066		A	COMM	EA	OKANOGAN	
09066		A	COMM	EA	OKANOGAN	
09066		A	COMM	EA	OKANOGAN	
09066		A	COMM	EA	OKANOGAN	
13909		A	COMM	EA	OKANOGAN	
13909		A	COMM	EA	OKANOGAN	
13909		A	COMM	EA	OKANOGAN	
13916	5 PONDEROSA DR KITCHEN	A	COMM	EA	OKANOGAN	
13916		A	COMM	EA	OKANOGAN	
13916		A	COMM	EA	OKANOGAN	
13916		A	COMM	EA	OKANOGAN	
13916		A	COMM	EA	OKANOGAN	
13940		A	COMM	EA	OKANOGAN	
13940		A	COMM	EA	OKANOGAN	
13940		A	COMM	EA	OKANOGAN	
13940		A	COMM	EA	OKANOGAN	
13940		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400	EAST SIDE VALVE HOUSE	A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
15400	V	COULEE DAM WATER DEPT.	02		09/27/1985
15400	V	COULEE DAM WATER DEPT.	02		06/19/1984
15400	V	COULEE DAM WATER DEPT.	02		09/23/1983
15400	V	COULEE DAM WATER DEPT.	02		09/29/1982
15400	V	COULEE DAM WATER DEPT.	02		09/16/1981
15400	V	COULEE DAM WATER DEPT.	02		09/11/1978
16311	K	OMAK WOOD PRODUCTS INC	02		10/19/1993
16311	K	OMAK WOOD PRODUCTS INC	02		10/18/1993
16311	K	OMAK WOOD PRODUCTS INC	03		10/18/1993
16311	K	OMAK WOOD PRODUCTS INC	90		04/29/1982
17624	U	WESTVUE RANCHETTES #2	01		03/20/1995
17631	J	JOHN'S LANDING MOBILE HOME PARK	01		10/03/1994
17631	J	JOHN'S LANDING MOBILE HOME PARK	01		07/25/1994
17631	J	JOHN'S LANDING MOBILE HOME PARK	01		12/20/1993
17631	J	JOHN'S LANDING MOBILE HOME PARK	01		05/06/1991
17631	J	JOHN'S LANDING MOBILE HOME PARK	01		02/16/1988
17631	J	JOHN'S LANDING MOBILE HOME PARK	01		02/26/1985
19204	X	ALTA LAKE GOLF COURSE PLAT	01		11/21/1996
19204	X	ALTA LAKE GOLF COURSE PLAT	01		07/21/1993
19204	X	ALTA LAKE GOLF COURSE PLAT	02		11/21/1996
19204	X	ALTA LAKE GOLF COURSE PLAT	02		10/23/1985
19204	X	ALTA LAKE GOLF COURSE PLAT	90		10/03/1989
19204	X	ALTA LAKE GOLF COURSE PLAT	90		09/06/1979
19204	X	ALTA LAKE GOLF COURSE PLAT	90		09/06/1979
19400	4	DISAUTEL WATER SYSTEM	90		09/01/1980
20200	A	DUCK LAKE WATER ASSOCIATION	01		02/10/1992
20200	A	DUCK LAKE WATER ASSOCIATION	01		07/22/1985
20200	A	DUCK LAKE WATER ASSOCIATION	01		08/31/1982
20200	A	DUCK LAKE WATER ASSOCIATION	01		05/01/1979
20200	A	DUCK LAKE WATER ASSOCIATION	90		05/02/1988
20226	X	VISTA VU WATER USERS, ASSO.	01		07/12/1993
20226	X	VISTA VU WATER USERS, ASSO.	01		07/30/1990
20226	X	VISTA VU WATER USERS, ASSO.	01		06/21/1990
20226	X	VISTA VU WATER USERS, ASSO.	01		01/21/1987
20226	X	VISTA VU WATER USERS, ASSO.	01		04/16/1984
22340	L	EDELWEISS MAINTENANCE COMMISSION	01		04/18/1994
22340	L	EDELWEISS MAINTENANCE COMMISSION	01		12/08/1993
22340	L	EDELWEISS MAINTENANCE COMMISSION	02		04/18/1994
22340	L	EDELWEISS MAINTENANCE COMMISSION	02		12/08/1993
22340	L	EDELWEISS MAINTENANCE COMMISSION	03		04/18/1994
22340	L	EDELWEISS MAINTENANCE COMMISSION	03		12/08/1993
23120	W	ELMER CITY WATER SYST	01		05/21/1997
23120	W	ELMER CITY WATER SYST	01		11/16/1995

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
15400	0020	LT	0.2	051	08502	C	U
15400	0020	LT	0.2	051	07229	C	U
15400	0020	LT	0.2	051	06675	C	U
15400	0020	LT	0.2	051	06088	C	U
15400	0020	LT	0.2	051	04829	C	U
15400	0020	LT	0.2	051	03245	C	U
16311	0020		0.5	109	01909	C	U
16311	0020		0.5	109	01910	C	U
16311	0020	LT	0.5	109	01911	C	B
16311	0020	LT	0.2	052	07958	C	U
17624	0020	LT	0.2	051	15227	C	B
17631	0020	ND		093	00249	C	B
17631	0020	ND		051	15044	C	B
17631	0020	LT	0.2	052	27390	C	U
17631	0020	LT	0.2	051	13277	C	U
17631	0020		0.2	051	10530	C	U
17631	0020	LT	0.2	051	08012	C	U
19204	0020	LT	0.5	111	96426	C	B
19204	0020		0.1	112	05736	C	U
19204	0020	LT	0.5	111	96425	C	B
19204	0020	LT	0.2	051	08607	C	U
19204	0020	LT	0.2	051	11990	C	U
19204	0020	LT	0.2	051	03816	C	U
19204	0020	LT	0.2	051	03815	C	U
19400	0020		0.2	051	04173	C	U
20200	0020		2	051	13814	C	U
20200	0020		1.5	051	08322	C	U
20200	0020		0.7	051	05927	C	U
20200	0020		2	033	00653	C	U
20200	0020		1.7	051	10730	C	U
20226	0020		0.2	051	14619	C	U
20226	0020	LT	0.2	051	12621	C	U
20226	0020	LT	0.2	051	12565	C	U
20226	0020	LT	0.2	051	09460	C	U
20226	0020	LT	0.2	051	07088		U
22340	0020	ND		109	41925	C	A
22340	0020		0.1	093	00173	C	U
22340	0020	ND		109	41927	C	B
22340	0020		0.2	093	00172	C	U
22340	0020	ND		109	41926	C	B
22340	0020		0.3	093	00171	C	U
23120	0020	LT	0.28	109	34927	C	B
23120	0020		1.46	051	11627	C	B

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
15400		A	COMM	EA	OKANOGAN	
16311		A	NTNC	EA	OKANOGAN	
16311		A	NTNC	EA	OKANOGAN	
16311	HOT POND	A	NTNC	EA	OKANOGAN	
16311		A	NTNC	EA	OKANOGAN	
17624		B		EA	OKANOGAN	
17631		A	COMM	EA	OKANOGAN	
17631		A	COMM	EA	OKANOGAN	
17631		A	COMM	EA	OKANOGAN	
17631	VALVE IN PUMP HOUSE	A	COMM	EA	OKANOGAN	
17631		A	COMM	EA	OKANOGAN	
17631		A	COMM	EA	OKANOGAN	
19204	NG	A	COMM	EA	OKANOGAN	
19204		A	COMM	EA	OKANOGAN	
19204	NG	A	COMM	EA	OKANOGAN	
19204		A	COMM	EA	OKANOGAN	
19204		A	COMM	EA	OKANOGAN	
19204		A	COMM	EA	OKANOGAN	
19204		A	COMM	EA	OKANOGAN	
19204		A	COMM	EA	OKANOGAN	
19400		B		EA	OKANOGAN	03/01/1982
20200		A	COMM	EA	OKANOGAN	
20200		A	COMM	EA	OKANOGAN	
20200		A	COMM	EA	OKANOGAN	
20200		A	COMM	EA	OKANOGAN	
20200		A	COMM	EA	OKANOGAN	
20226		A	COMM	EA	OKANOGAN	
20226		A	COMM	EA	OKANOGAN	
20226		A	COMM	EA	OKANOGAN	
20226		A	COMM	EA	OKANOGAN	
20226		A	COMM	EA	OKANOGAN	
20226		A	COMM	EA	OKANOGAN	
22340		A	COMM	EA	OKANOGAN	
22340		A	COMM	EA	OKANOGAN	
22340		A	COMM	EA	OKANOGAN	
22340		A	COMM	EA	OKANOGAN	
22340		A	COMM	EA	OKANOGAN	
22340		A	COMM	EA	OKANOGAN	
22340		A	COMM	EA	OKANOGAN	
23120	WHD	A	COMM	EA	OKANOGAN	
23120	Unknown	A	COMM	EA	OKANOGAN	

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
23120	W	ELMER CITY WATER SYST	01		03/09/1993
23120	W	ELMER CITY WATER SYST	01		07/26/1988
23120	W	ELMER CITY WATER SYST	01		10/01/1985
26707	Y	EAST LAKE WATER ASSOCIATION	01		05/28/1991
26707	Y	EAST LAKE WATER ASSOCIATION	01		07/25/1988
26707	Y	EAST LAKE WATER ASSOCIATION	03		06/28/1994
26707	Y	EAST LAKE WATER ASSOCIATION	99		10/24/1985
26916	Y	EMANUEL HEIGHTS WATER SYSTEM	01		04/20/1994
26916	Y	EMANUEL HEIGHTS WATER SYSTEM	01		10/10/1990
26916	Y	EMANUEL HEIGHTS WATER SYSTEM	01		03/07/1990
26916	Y	EMANUEL HEIGHTS WATER SYSTEM	01		10/04/1985
27739	U	WAUCONDA CAFE	01		09/27/1993
27809	6	ROADWAY STORES INC	01		12/16/1997
30333	T	MAZAMA COUNTRY INN	01		05/06/1996
30333	T	MAZAMA COUNTRY INN	01		10/18/1993
30865	8	SPRUCE CORNER SHORT PLAT	01		08/15/1985
31351	B	NICKELL ORCHARD	01		12/16/1997
31351	B	NICKELL ORCHARD	01		12/19/1996
31351	B	NICKELL ORCHARD	01		12/19/1995
31351	B	NICKELL ORCHARD	01		12/13/1994
31351	B	NICKELL ORCHARD	01		12/21/1993
31351	B	NICKELL ORCHARD	01		11/30/1992
31351	B	NICKELL ORCHARD	01		04/01/1986
31351	B	NICKELL ORCHARD	90		02/27/1989
31846	A	PETITT ACRES WATER SYSTEM	01		07/26/1994
32101	V	COUNTRY TOWN MOTEL & RV	01		12/05/1994
32101	V	COUNTRY TOWN MOTEL & RV	01		07/19/1985
32740	5	HIGHLAND FIRE CAMP	01		08/02/1983
34041	W	EAGLE PINE CHALETs	01		05/17/1995
34041	W	EAGLE PINE CHALETs	01		09/14/1988
34101	0	BREWSTER SDA SCHOOL	01		02/07/1995
34522	J	HIDDEN HILLS GUEST RANCH	02		05/23/1994
34838	9	RIVER RUN INN	90		08/01/1990
36465	4	JACK'S RV PARK #1	01		12/08/1997
38576	5	MALOTT GRADE SCHOOL	01		09/24/1995
38576	5	MALOTT GRADE SCHOOL	01		12/20/1993
38576	5	MALOTT GRADE SCHOOL	92		11/21/1994
39411	Y	JOHNSON CREEK WATER USERS ASSN	01		10/13/1987
39411	Y	JOHNSON CREEK WATER USERS ASSN	02		09/13/1993
39411	Y	JOHNSON CREEK WATER USERS ASSN	03		01/13/1997
39501	U	BARRINGER WATER SYSTEM	01		02/21/1986
41703	M	B.J.'S MOBILE HOME COURT WATER SYS	01		11/14/1997
41703	M	B.J.'S MOBILE HOME COURT WATER SYS	01		12/15/1993

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
23120	0020		1.2	051	14401	C	U
23120	0020	LT	0.2	051	11001	C	U
23120	0020		0.8	051	08599	C	U
26707	0020		6.3	051	13339	C	U
26707	0020		5.8	051	10996	C	U
26707	0020		3.02	109	62905	C	B
26707	0020		4.8	051	08613	C	U
26916	0020		3.08	105	02117	C	B
26916	0020		3.6	051	12781	C	U
26916	0020		3.7	052	20312	C	U
26916	0020		2.8	051	08531	C	U
27739	0020	LT	0.5	112	07209	C	U
27809	0020		0.15	093	00191	C	U
30333	0020	LT	0.1	093	00042	C	B
30333	0020		0	093	00146	C	U
30865	0020		1.8	052	12041	C	U
31351	0020		2.98	093	00187	C	U
31351	0020		3.7	093	00185	C	B
31351	0020		4	046	04569	C	B
31351	0020		6.05	093	00295	C	B
31351	0020		2.25	093	00182	C	B
31351	0020		5.2	051	14252	C	U
31351	0020		3	051	08930	C	U
31351	0020		4	051	11456		U
31846	0020		1.4	093	00187	C	B
32101	0020	ND		093	00291	C	B
32101	0020		2.2	052	11965	C	U
32740	0020		0.2	030	01431	C	U
34041	0020		1.82	093	00077	C	B
34041	0020		2.2	052	16977	C	U
34101	0020		2	095	02339	C	B
34522	0020	ND		093	00133	C	B
34838	0020	LT	0.2	052	21018	C	U
36465	0020		0.61	093	00186	C	U
38576	0020		1.56	109	92627	C	B
38576	0020		4.3	109	22108	C	U
38576	0020		4.93	109	30031	C	B
39411	0020		1.9	051	10149	C	U
39411	0020		0.4	051	14690	C	B
39411	0020		1.45	111	97009	C	B
39501	0020		6.5	052	12607	C	U
41703	0020	LT	0.1	093	00175	C	U
41703	0020		0.1	093	00179	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
23120		A	COMM	EA	OKANOGAN	
23120		A	COMM	EA	OKANOGAN	
23120		A	COMM	EA	OKANOGAN	
26707		A	COMM	EA	OKANOGAN	
26707		A	COMM	EA	OKANOGAN	
26707		A	COMM	EA	OKANOGAN	
26707		A	COMM	EA	OKANOGAN	
26916		A	COMM	EA	OKANOGAN	
26916	UNKNOWN	A	COMM	EA	OKANOGAN	
26916		A	COMM	EA	OKANOGAN	
26916		A	COMM	EA	OKANOGAN	
27739		A	TNC	EA	OKANOGAN	
27809	STORE TAP	A	TNC	EA	OKANOGAN	
30333	KT	B		EA	OKANOGAN	
30333		B		EA	OKANOGAN	
30865		B		EA	OKANOGAN	
31351	SHOP BR	A	COMM	EA	OKANOGAN	
31351	SHOP RR	A	COMM	EA	OKANOGAN	
31351		A	COMM	EA	OKANOGAN	
31351		A	COMM	EA	OKANOGAN	
31351		A	COMM	EA	OKANOGAN	
31351		A	COMM	EA	OKANOGAN	
31351		A	COMM	EA	OKANOGAN	
31351		A	COMM	EA	OKANOGAN	
31846		B		EA	OKANOGAN	
32101		B		EA	OKANOGAN	
32101		B		EA	OKANOGAN	
32740		B		EA	OKANOGAN	
34041		B		EA	OKANOGAN	
34041		B		EA	OKANOGAN	
34101		A	NTNC	EA	OKANOGAN	
34522		B		EA	OKANOGAN	
34838		B		EA	OKANOGAN	
36465	KT	A	TNC	EA	OKANOGAN	
38576		A	NTNC	EA	OKANOGAN	
38576		A	NTNC	EA	OKANOGAN	
38576	MALOTT SCHOOL KITCHEN	A	NTNC	EA	OKANOGAN	
39411		A	COMM	EA	OKANOGAN	
39411		A	COMM	EA	OKANOGAN	
39411	WELL HEAD	A	COMM	EA	OKANOGAN	
39501		B		EA	OKANOGAN	
41703	KT TAP	A	COMM	EA	OKANOGAN	
41703		A	COMM	EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
41703	M	B.J.'S MOBILE HOME COURT WATER SYS	01		11/09/1992
41703	M	B.J.'S MOBILE HOME COURT WATER SYS	01		01/10/1989
47095	F	LIARS COVE	01		05/28/1997
47840	M	DON'S MOBILE HOME COURT	01		04/30/1991
47840	M	DON'S MOBILE HOME COURT	01		04/11/1988
47840	M	DON'S MOBILE HOME COURT	01		07/02/1985
47840	M	DON'S MOBILE HOME COURT	90		09/29/1982
47840	M	DON'S MOBILE HOME COURT	90		05/20/1982
47900	Q	LONE PINE WATER CO-OP INC	01		05/10/1994
47900	Q	LONE PINE WATER CO-OP INC	01		10/31/1988
47900	Q	LONE PINE WATER CO-OP INC	01		01/23/1985
48200	W	LOOMIS WATER USERS ASSN., INC.	01		08/18/1997
48200	W	LOOMIS WATER USERS ASSN., INC.	01		12/05/1995
48200	W	LOOMIS WATER USERS ASSN., INC.	01		07/01/1991
48200	W	LOOMIS WATER USERS ASSN., INC.	01		06/09/1988
48200	W	LOOMIS WATER USERS ASSN., INC.	01		08/20/1985
48200	W	LOOMIS WATER USERS ASSN., INC.	01		10/20/1982
48348	6	LOST RIVER AIRPORT ASSOCIATION	01		05/10/1994
48348	6	LOST RIVER AIRPORT ASSOCIATION	92		10/04/1994
49515	6	M-J TRAILER RANCH	01		12/17/1997
49515	6	M-J TRAILER RANCH	01		12/20/1993
49515	6	M-J TRAILER RANCH	01		11/16/1992
49515	6	M-J TRAILER RANCH	90		04/19/1988
49515	6	M-J TRAILER RANCH	90		04/29/1982
49515	6	M-J TRAILER RANCH	99		03/05/1985
51114	N	DEER RUN PUD W.S.	01		01/11/1995
51114	N	DEER RUN PUD W.S.	01		09/12/1994
51114	N	DEER RUN PUD W.S.	02		01/11/1995
51114	N	DEER RUN PUD W.S.	02		09/12/1994
51201	O	COOK ORCHARD SYSTEM	01		11/12/1997
54370	L	METHOW WATER SYSTEM, INC.	01		11/11/1992
54370	L	METHOW WATER SYSTEM, INC.	01		07/13/1989
54370	L	METHOW WATER SYSTEM, INC.	02		02/05/1997
54370	L	METHOW WATER SYSTEM, INC.	03		02/05/1997
54370	L	METHOW WATER SYSTEM, INC.	03		12/13/1994
54370	L	METHOW WATER SYSTEM, INC.	90		02/04/1986
54370	L	METHOW WATER SYSTEM, INC.	90		07/06/1982
55630	1	MOLSON WATER USERS	01		03/29/1991
56316	9	ROCK CREEK WELL	01		11/01/1989
56610	K	WOLF RIDGE RANCH	01		04/07/1993
56610	K	WOLF RIDGE RANCH	01		02/09/1990
59000	Q	NESPELEM WATER DEPT	01		11/19/1992
59000	Q	NESPELEM WATER DEPT	01		12/05/1988

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
41703	0020	LT	0.2	051	14218	C	U
41703	0020	LT	0.2	051	11348	C	U
47095	0020	ND		093	00052	C	B
47840	0020		1.1	051	13259	C	U
47840	0020		0.7	051	10665	C	U
47840	0020		1.4	051	08260	C	U
47840	0020		1.2	051	06031	C	U
47840	0020		1.2	052	08004	C	U
47900	0020		3.18	109	51018	C	B
47900	0020		3.3	051	11233	C	U
47900	0020		7.2	051	07873	C	U
48200	0020		0.29	093	00119	C	U
48200	0020		0.6	112	57270	C	B
48200	0020		0.3	051	13428	C	U
48200	0020		1.2	051	10863	C	U
48200	0020		0.5	051	08419	C	U
48200	0020	LT	0.2	051	06109	C	U
48348	0020		0.15	093	00111	C	B
48348	0020	LT	0.07	105	08404	C	B
49515	0020		1.59	093	00192	C	U
49515	0020		2.4	052	27414	C	B
49515	0020		1.9	051	14236	C	U
49515	0020		0.7	051	10710	C	U
49515	0020		1	051	05520	C	U
49515	0020		1.5	051	08067	C	U
51114	0020		0.18	093	00008	C	B
51114	0020	ND		093	00231	C	B
51114	0020		0.16	093	00009	C	B
51114	0020	ND		093	00230	C	B
51201	0020		1.53	093	00173	C	U
54370	0020		0.3	051	14219	C	U
54370	0020		0.5	051	11813	C	U
54370	0020		0.63	111	97052	C	B
54370	0020		0.5	111	97054	C	A
54370	0020	ND		109	30073	C	B
54370	0020		0.5	051	08819	C	U
54370	0020		0.2	051	05809	C	U
55630	0020		4.5	051	13203	C	U
56316	0020		0.4	052	19761	C	U
56610	0020		0.4	093	00029	C	U
56610	0020	LT	0.2	030	33327	C	U
59000	0020	LT	0.4	111	11012	C	U
59000	0020		0.3	030	32085	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
41703		A	COMM	EA	OKANOGAN	
41703		A	COMM	EA	OKANOGAN	
47095	CABIN	A	TNC	EA	OKANOGAN	
47840	UNKNOWN	B		EA	OKANOGAN	
47840		B		EA	OKANOGAN	
47840		B		EA	OKANOGAN	
47840		B		EA	OKANOGAN	
47840		B		EA	OKANOGAN	
47900		A	COMM	EA	OKANOGAN	
47900		A	COMM	EA	OKANOGAN	
47900		A	COMM	EA	OKANOGAN	
48200	65 S BROADWAY	A	COMM	EA	OKANOGAN	
48200		A	COMM	EA	OKANOGAN	
48200		A	COMM	EA	OKANOGAN	
48200		A	COMM	EA	OKANOGAN	
48200		A	COMM	EA	OKANOGAN	
48200		A	COMM	EA	OKANOGAN	
48348		B		EA	OKANOGAN	
48348	68541 LOST RIVER RD	B		EA	OKANOGAN	
49515	M-J OFFICE	A	COMM	EA	OKANOGAN	
49515		A	COMM	EA	OKANOGAN	
49515		A	COMM	EA	OKANOGAN	
49515		A	COMM	EA	OKANOGAN	
49515		A	COMM	EA	OKANOGAN	
49515		A	COMM	EA	OKANOGAN	
51114		B		EA	OKANOGAN	
51114		B		EA	OKANOGAN	
51114		B		EA	OKANOGAN	
51114		B		EA	OKANOGAN	
51201	KT TAP	A	TNC	EA	OKANOGAN	
54370		A	COMM	EA	OKANOGAN	
54370		A	COMM	EA	OKANOGAN	
54370	WELL	A	COMM	EA	OKANOGAN	
54370	HEALTH HOME-1ST TAP A	A	COMM	EA	OKANOGAN	
54370		A	COMM	EA	OKANOGAN	
54370		A	COMM	EA	OKANOGAN	
54370		A	COMM	EA	OKANOGAN	
54370		A	COMM	EA	OKANOGAN	
55630	UNKNOWN	A	TNC	EA	OKANOGAN	
56316		B		EA	OKANOGAN	
56610		B		EA	OKANOGAN	
56610		B		EA	OKANOGAN	
59000		A	COMM	EA	OKANOGAN	
59000		A	COMM	EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
59000	Q	NESPELEM WATER DEPT	03		11/14/1997
59000	Q	NESPELEM WATER DEPT	04		02/03/1986
59000	Q	NESPELEM WATER DEPT	90		01/09/1984
59000	Q	NESPELEM WATER DEPT	90		10/01/1979
59000	Q	NESPELEM WATER DEPT	99		03/02/1981
60450	O	NORTH END WATER USERS	01		05/04/1987
60450	O	NORTH END WATER USERS	01		07/26/1982
60450	O	NORTH END WATER USERS	01		06/26/1979
62363	T	PINEY WOODS PHD	01		09/21/1988
62389	D	THOMAS PLAT WATER ASSOC.	01		05/30/1990
62402	V	PACIFIC CREST OUTWARD BOUND SCHOOL	01		06/15/1993
62402	V	PACIFIC CREST OUTWARD BOUND SCHOOL	01		05/30/1990
62552	9	RANDY'S RECYCLING	01		07/10/1990
62664	P	QUAKING ASPEN WATER SYSTEM #1	01		08/13/1990
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	01		12/28/1987
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	01		02/06/1985
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	02		04/01/1997
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	02		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	02		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	02		09/22/1994
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	02		11/03/1992
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	02		12/28/1987
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	02		02/06/1985
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	03		04/01/1997
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	03		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	03		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	03		09/22/1994
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	03		11/03/1992
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	03		12/28/1987
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	03		02/06/1985
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	04		04/01/1997
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	04		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	04		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	04		09/22/1994
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	04		11/03/1992
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	04		12/28/1987
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	04		02/06/1985
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	05		04/01/1997
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	05		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	05		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	05		09/22/1994
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	05		11/03/1992
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	05		12/28/1987

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
59000	0020	LT	0.5	111	97558	C	B
59000	0020	LT	0.2	051	08841	C	U
59000	0020	LT	0.2	051	06866	C	U
59000	0020	LT	0.2	052	02707	C	U
59000	0020		0.2	051	04461	C	U
60450	0020		2.2	051	09768	C	U
60450	0020	LT	0.2	051	05874	C	U
60450	0020	LT	0.2	051	03733	C	U
62363	0020		1.9	051	11142	C	U
62389	0020		0.7	052	20691	C	U
62402	0020		0	093	00076	C	U
62402	0020		0.3	052	20688	C	U
62552	0020		2.5	052	20859	C	U
62664	0020	LT	0.2	052	20985	C	U
63200	0020		0.8	051	10310	C	U
63200	0020		0.3	051	08060	C	U
63200	0020		0.9	046	01410	C	B
63200	0020		1.03	093	00134	C	B
63200	0020		1	046	92413	C	U
63200	0020		0.65	093	00233	C	B
63200	0020		1.1	051	14211	C	U
63200	0020		1.3	051	10311	C	U
63200	0020		0.9	051	08061	C	U
63200	0020	ND		046	01411	C	B
63200	0020	LT	0.5	046	92414	C	U
63200	0020		0.14	093	00130	C	B
63200	0020	ND		093	00236	C	B
63200	0020		1.3	051	14212	C	U
63200	0020		0.4	051	10312	C	U
63200	0020		0.2	051	08062	C	U
63200	0020	ND		046	01412	C	B
63200	0020	LT	0.5	046	92412	C	B
63200	0020	ND		093	00132	C	B
63200	0020	ND		093	00234	C	B
63200	0020	LT	0.2	051	14208	C	U
63200	0020	LT	0.2	051	10314	C	U
63200	0020	LT	0.2	051	08063	C	U
63200	0020		1.3	046	01413	C	B
63200	0020		0.9	046	92416	C	U
63200	0020		0.79	093	00131	C	B
63200	0020		0.47	093	00235	C	A
63200	0020		0.9	051	14210	C	U
63200	0020		0.6	051	10313	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
59000	PH TAP	A	COMM	EA	OKANOGAN	
59000		A	COMM	EA	OKANOGAN	
59000		A	COMM	EA	OKANOGAN	
59000		A	COMM	EA	OKANOGAN	
59000		A	COMM	EA	OKANOGAN	
60450		A	COMM	EA	OKANOGAN	11/01/1989
60450		A	COMM	EA	OKANOGAN	11/01/1989
60450		A	COMM	EA	OKANOGAN	11/01/1989
62363		B		EA	OKANOGAN	
62389		B		EA	OKANOGAN	
62402		B		EA	OKANOGAN	
62402		B		EA	OKANOGAN	
62552		B		EA	OKANOGAN	
62664		B		EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200	WELL HOUSE	A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200	EASTSIDE	A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200	WELL HOUSE	A	COMM	EA	OKANOGAN	
63200	WELL HOUSE SAMPLE POF	A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200	WELL VAULT	A	COMM	EA	OKANOGAN	
63200	WELL 4	A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200	WELL HOUSE	A	COMM	EA	OKANOGAN	
63200	DISTRIBUTION BOX CITY S	A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	05		02/06/1985
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	06		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	06		07/12/1995
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	06		09/22/1994
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	06		11/03/1992
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	90		04/04/1989
63200	M	OKANOGAN WATER DEPARTMENT, CITY OF	90		04/26/1982
63750	K	OMAK, CITY OF	01		11/19/1997
63750	K	OMAK, CITY OF	01		07/16/1996
63750	K	OMAK, CITY OF	01		11/06/1995
63750	K	OMAK, CITY OF	01		06/09/1993
63750	K	OMAK, CITY OF	02		11/19/1997
63750	K	OMAK, CITY OF	02		07/16/1996
63750	K	OMAK, CITY OF	02		11/06/1995
63750	K	OMAK, CITY OF	02		06/09/1993
63750	K	OMAK, CITY OF	03		11/19/1997
63750	K	OMAK, CITY OF	03		07/16/1996
63750	K	OMAK, CITY OF	03		11/06/1995
63750	K	OMAK, CITY OF	03		06/09/1993
63750	K	OMAK, CITY OF	04		11/19/1997
63750	K	OMAK, CITY OF	04		07/16/1996
63750	K	OMAK, CITY OF	04		11/06/1995
63750	K	OMAK, CITY OF	04		06/09/1993
63750	K	OMAK, CITY OF	06		11/19/1997
63750	K	OMAK, CITY OF	06		07/16/1996
63750	K	OMAK, CITY OF	06		11/06/1995
63750	K	OMAK, CITY OF	07		11/19/1997
63750	K	OMAK, CITY OF	07		10/18/1993
63750	K	OMAK, CITY OF	90		02/05/1990
63750	K	OMAK, CITY OF	90		10/10/1989
63750	K	OMAK, CITY OF	90		07/20/1988
63750	K	OMAK, CITY OF	90		10/03/1985
63750	K	OMAK, CITY OF	90		10/03/1985
63750	K	OMAK, CITY OF	90		10/03/1985
63750	K	OMAK, CITY OF	90		06/02/1982
63750	K	OMAK, CITY OF	90		10/30/1979
63750	K	OMAK, CITY OF	90		10/30/1979
63750	K	OMAK, CITY OF	90		10/30/1979
63750	K	OMAK, CITY OF	99		08/27/1996
64400	Y	OROVILLE, TOWN OF	01		08/24/1993
64400	Y	OROVILLE, TOWN OF	01		09/02/1986
64400	Y	OROVILLE, TOWN OF	01		11/29/1983
64400	Y	OROVILLE, TOWN OF	02		06/12/1990

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
63200	0020	LT	0.2	051	08059	C	U
63200	0020		1.55	093	00133	C	B
63200	0020		1.7	046	92415	C	U
63200	0020		1	093	00237	C	B
63200	0020	LT	1.4	051	14209	C	U
63200	0020		2.7	051	11563	C	U
63200	0020	LT	0.2	051	05515	C	U
63750	0020	ND		109	36948	I	B
63750	0020		1.59	109	32678	C	A
63750	0020	LT	0.5	109	31494	C	A
63750	0020	ND		109	61001	C	A
63750	0020		2.64	109	36949	I	B
63750	0020		1.3	109	32679	C	A
63750	0020		1.05	109	31495	C	B
63750	0020	ND		109	61002	C	A
63750	0020		0.48	109	36950	I	B
63750	0020		1.42	109	32680	C	A
63750	0020		1	109	31496	C	B
63750	0020	ND		109	61003	C	A
63750	0020		0.49	109	36951	I	B
63750	0020	LT	0.5	109	32681	C	A
63750	0020		1.61	109	31497	C	B
63750	0020	ND		109	61004	C	A
63750	0020		0.38	109	36952	I	B
63750	0020		0.88	109	32682	C	A
63750	0020	LT	0.5	109	31498	C	B
63750	0020	ND		109	36953	I	B
63750	0020	LT	0.5	109	01909	C	B
63750	0020		1	051	12288	C	U
63750	0020		1.3	051	12007	C	U
63750	0020	LT	0.2	051	10972	C	U
63750	0020		0.4	051	08526	C	U
63750	0020		0.5	051	08524	C	U
63750	0020		0.3	051	08525	C	U
63750	0020		0.5	030	00602		U
63750	0020		0.7	051	03906	C	U
63750	0020		0.3	051	03905	C	U
63750	0020		0.4	051	03904	C	U
63750	0020	LT	0.5	109	32880	C	B
64400	0020		1.2	109	92503	C	B
64400	0020		1	051	09212	C	U
64400	0020		1.4	051	06794	C	U
64400	0020		1	051	12543	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogon Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200	WELL VAULT SAMPLE POF	A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63200		A	COMM	EA	OKANOGAN	
63750	FAUCET NEAR WELL HOUS	A	COMM	EA	OKANOGAN	
63750	UNKNOWN	A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750	FAUCET NEAR WELL HOUS	A	COMM	EA	OKANOGAN	
63750	UNKNOWN	A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750	FAUCET IN WELL HOUSE	A	COMM	EA	OKANOGAN	
63750	UNKNOWN	A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750	FAUCET NEAR WELL HOUS	A	COMM	EA	OKANOGAN	
63750	UNKNOWN	A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750	FAUCET NEAR WELL HOUS	A	COMM	EA	OKANOGAN	
63750	UNKNOWN	A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750	FAUCET NEAR WELL HOUS	A	COMM	EA	OKANOGAN	
63750	UNKNOWN	A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750		A	COMM	EA	OKANOGAN	
63750	NG	A	COMM	EA	OKANOGAN	
64400	NG	A	COMM	EA	OKANOGAN	
64400		A	COMM	EA	OKANOGAN	
64400		A	COMM	EA	OKANOGAN	
64400		A	COMM	EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
64400	Y	OROVILLE, TOWN OF	02		09/02/1986
64400	Y	OROVILLE, TOWN OF	02		11/29/1983
64400	Y	OROVILLE, TOWN OF	03		09/02/1986
64400	Y	OROVILLE, TOWN OF	04		12/10/1997
64400	Y	OROVILLE, TOWN OF	04		12/18/1996
64400	Y	OROVILLE, TOWN OF	04		08/24/1993
64400	Y	OROVILLE, TOWN OF	04		06/12/1990
64400	Y	OROVILLE, TOWN OF	05		12/10/1997
64400	Y	OROVILLE, TOWN OF	05		12/18/1996
64400	Y	OROVILLE, TOWN OF	90		08/11/1987
64400	Y	OROVILLE, TOWN OF	90		11/29/1983
64400	Y	OROVILLE, TOWN OF	90		02/18/1981
64400	Y	OROVILLE, TOWN OF	90		02/18/1981
64400	Y	OROVILLE, TOWN OF	90		02/20/1980
66450	C	PATEROS WATER DEPARTMENT	01		01/25/1988
66450	C	PATEROS WATER DEPARTMENT	02		01/07/1991
66450	C	PATEROS WATER DEPARTMENT	03		03/18/1997
66450	C	PATEROS WATER DEPARTMENT	03		02/02/1995
66450	C	PATEROS WATER DEPARTMENT	90		08/21/1984
66450	C	PATEROS WATER DEPARTMENT	99		02/09/1981
67393	W	PINE FOREST WATER SYSTEM	01		12/17/1993
67393	W	PINE FOREST WATER SYSTEM	02		12/17/1993
69650	U	PROGRESSIVE FLAT WATER ASSN	01		12/19/1988
69650	U	PROGRESSIVE FLAT WATER ASSN	01		01/11/1986
69650	U	PROGRESSIVE FLAT WATER ASSN	01		12/12/1983
69650	U	PROGRESSIVE FLAT WATER ASSN	01		02/24/1981
69650	U	PROGRESSIVE FLAT WATER ASSN	02		09/11/1992
69650	U	PROGRESSIVE FLAT WATER ASSN	03		11/24/1997
72751	2	RIVERBEND RV PARK	03		12/01/1997
72751	2	RIVERBEND RV PARK	03		09/16/1996
72751	2	RIVERBEND RV PARK	90		10/23/1988
72751	2	RIVERBEND RV PARK	90		11/07/1985
72751	2	RIVERBEND RV PARK	90		03/18/1980
72751	2	RIVERBEND RV PARK	92		11/16/1992
72751	2	RIVERBEND RV PARK	99		01/22/1983
72850	N	RIVERSIDE, TOWN OF	01		11/05/1997
72850	N	RIVERSIDE, TOWN OF	01		09/04/1996
72850	N	RIVERSIDE, TOWN OF	01		02/21/1995
72850	N	RIVERSIDE, TOWN OF	01		09/19/1989
72850	N	RIVERSIDE, TOWN OF	02		11/05/1997
72850	N	RIVERSIDE, TOWN OF	02		09/04/1996
72850	N	RIVERSIDE, TOWN OF	02		11/19/1992
72850	N	RIVERSIDE, TOWN OF	12		12/17/1986

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
64400	0020		0.8	051	09213	C	U
64400	0020		0.5	051	06796	C	U
64400	0020		1.1	051	09214	C	U
64400	0020		4.07	093	00188	C	U
64400	0020		0.81	093	00183	C	B
64400	0020		1.2	109	92504	C	B
64400	0020		0.7	051	12544	C	U
64400	0020		1.3	093	00189	C	U
64400	0020		1	093	00184	C	B
64400	0020		3.2	033	12478	C	U
64400	0020		1.4	051	06795	C	U
64400	0020		0.6	051	04442	C	U
64400	0020		0.6	051	04441	C	U
64400	0020		0.5	052	03374	C	U
66450	0020		1.3	051	10425	C	U
66450	0020		2.3	051	13002	C	U
66450	0020		1.55	105	02037	C	A
66450	0020		3.34	109	30155	C	B
66450	0020		1.9	051	07487	C	U
66450	0020		1.2	051	04410	C	U
67393	0020		0	093	00180	C	U
67393	0020		0	093	00181	C	U
69650	0020		1	051	11324	C	U
69650	0020		0.9	051	09238	C	U
69650	0020		0.4	051	06818	C	U
69650	0020		0.4	051	04449	C	U
69650	0020		1	051	14221	C	U
69650	0020		1.4	089	31335	C	B
72751	0020		0.28	093	00182	C	U
72751	0020		0.24	093	00142	C	B
72751	0020		0.4	051	11216	C	U
72751	0020		0.2	051	08644	C	U
72751	0020		0.5	051	04042	C	U
72751	0020		0.2	052	24874	C	U
72751	0020		0.3	051	06344	C	U
72850	0020		1.55	093	00169	C	U
72850	0020		1.97	109	32932	C	B
72850	0020		1.63	093	00023	C	B
72850	0020		0.9	051	11953	C	U
72850	0020		1.54	093	00168	C	U
72850	0020		2.69	109	32933	C	B
72850	0020		0.9	051	14244	C	U
72850	0020		0.6	051	09399	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
72850	N	RIVERSIDE, TOWN OF	90		03/28/1984
72850	N	RIVERSIDE, TOWN OF	90		01/11/1984
72850	N	RIVERSIDE, TOWN OF	90		02/12/1980
72850	N	RIVERSIDE, TOWN OF	90		12/27/1979
72850	N	RIVERSIDE, TOWN OF	90		06/28/1978
72850	N	RIVERSIDE, TOWN OF	90		11/18/1977
77000	N	SEATONS GROVE COMPANY	01		01/24/1991
77000	N	SEATONS GROVE COMPANY	01		09/18/1989
77000	N	SEATONS GROVE COMPANY	01		06/11/1984
77000	N	SEATONS GROVE COMPANY	01		06/24/1983
77000	N	SEATONS GROVE COMPANY	01		05/04/1982
77000	N	SEATONS GROVE COMPANY	02		09/11/1995
82930	A	SPECTACLE FALLS RESORT	01		10/09/1979
82935	W	SPECTACLE LAKE RESORT	01		08/10/1993
85125	T	SUN COVE RESORT	01		10/21/1997
85135	2	SUN MOUNTAIN RESORT	01		12/02/1996
85207	E	SUNCREST PLAT WATER SYSTEM	01		11/17/1992
85207	E	SUNCREST PLAT WATER SYSTEM	01		07/27/1989
85207	E	SUNCREST PLAT WATER SYSTEM	01		11/01/1985
85207	E	SUNCREST PLAT WATER SYSTEM	01		01/19/1983
85207	E	SUNCREST PLAT WATER SYSTEM	01		08/07/1979
85207	E	SUNCREST PLAT WATER SYSTEM	02		06/28/1995
86273	8	LAZY DAZE RV PARK	01		05/15/1985
88700	N	TONASKET WATER SYSTEM	01		11/04/1992
88700	N	TONASKET WATER SYSTEM	01		05/10/1988
88700	N	TONASKET WATER SYSTEM	01		01/15/1985
88700	N	TONASKET WATER SYSTEM	02		11/12/1996
88700	N	TONASKET WATER SYSTEM	02		12/21/1993
88700	N	TONASKET WATER SYSTEM	02		05/10/1988
88700	N	TONASKET WATER SYSTEM	03		05/10/1988
88700	N	TONASKET WATER SYSTEM	05		12/21/1993
88700	N	TONASKET WATER SYSTEM	90		05/10/1988
88700	N	TONASKET WATER SYSTEM	90		07/01/1981
88700	N	TONASKET WATER SYSTEM	90		06/16/1981
88700	N	TONASKET WATER SYSTEM	99		11/12/1996
88700	N	TONASKET WATER SYSTEM	99		10/24/1996
90050	K	TWISP, TOWN OF	01		05/17/1994
90050	K	TWISP, TOWN OF	01		12/01/1992
90050	K	TWISP, TOWN OF	01		06/16/1988
90050	K	TWISP, TOWN OF	01		06/10/1985
90050	K	TWISP, TOWN OF	02		08/28/1997
90050	K	TWISP, TOWN OF	02		06/19/1997
90050	K	TWISP, TOWN OF	02		12/05/1995

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
72850	0020		3	051	07041	C	U
72850	0020		2.1	051	06874	C	U
72850	0020		0.8	051	04020	C	U
72850	0020		1	052	03174	C	U
72850	0020		4.8	059	00238	C	U
72850	0020		1.2	051	02942	C	U
77000	0020		0.6	030	34337	C	U
77000	0020		0.1	030	32939	C	U
77000	0020		1.2	030	02155	C	U
77000	0020		0.9	030	01344	C	U
77000	0020		0.9	030	00543	C	U
77000	0020		0.23	105	07468	C	B
82930	0020		5.3	052	02811	C	U
82935	0020		0.9	112	06174	C	U
85125	0020	ND		081	49437	C	B
85135	0020		0.11	093	00175	C	A
85207	0020	LT	0.2	051	14240	C	U
85207	0020	LT	0.2	051	11845	C	U
85207	0020	LT	0.2	051	08634	C	U
85207	0020	LT	0.2	051	06321	C	U
85207	0020	LT	0.2	051	03763	C	U
85207	0020	LT	0.5	109	30689	C	B
86273	0020		0.4	052	11762	C	U
88700	0020		0.8	051	14213	C	U
88700	0020		0.7	051	10747	C	U
88700	0020		1.2	051	07854	C	U
88700	0020		1.41	109	33430	C	U
88700	0020		0.73	109	92211	C	U
88700	0020		0.4	051	10745	C	U
88700	0020	LT	0.2	051	10746	C	U
88700	0020		0.84	109	93309	C	U
88700	0020	LT	0.2	051	10748	C	U
88700	0020		0.2	030	02836	C	U
88700	0020		0.8	030	02791		U
88700	0020	LT	0.5	109	33431	B	U
88700	0020		0.1	093	00163	B	U
90050	0020		0.41	109	51705	C	B
90050	0020		0.6	051	14272	C	U
90050	0020		0.7	030	31556	C	U
90050	0020		0.4	030	00407	C	U
90050	0020	LT	0.5	111	97416	C	B
90050	0020	LT	0.5	111	97326	C	B
90050	0020		2.67	109	31590	C	B

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
72850		A	COMM	EA	OKANOGAN	
72850		A	COMM	EA	OKANOGAN	
72850		A	COMM	EA	OKANOGAN	
72850		A	COMM	EA	OKANOGAN	
72850		A	COMM	EA	OKANOGAN	
72850		A	COMM	EA	OKANOGAN	
77000	UNKNOWN	A	COMM	EA	OKANOGAN	
77000		A	COMM	EA	OKANOGAN	
77000		A	COMM	EA	OKANOGAN	
77000		A	COMM	EA	OKANOGAN	
77000	PETER DAN CR WELL	A	COMM	EA	OKANOGAN	
82930		A	TNC	EA	OKANOGAN	
82935		A	TNC	EA	OKANOGAN	
85125	WELL 1	A	TNC	EA	OKANOGAN	
85135	KT POT SINK	A	TNC	EA	OKANOGAN	
85207		A	COMM	EA	OKANOGAN	
85207		A	COMM	EA	OKANOGAN	
85207		A	COMM	EA	OKANOGAN	
85207		A	COMM	EA	OKANOGAN	
85207		A	COMM	EA	OKANOGAN	
85207		A	COMM	EA	OKANOGAN	
86273		A	TNC	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700	500 RAILROAD AVE	A	COMM	EA	OKANOGAN	
88700	NG	A	COMM	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700	NG	A	COMM	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700		A	COMM	EA	OKANOGAN	
88700	500 RAILRD AVE	A	COMM	EA	OKANOGAN	
88700	500 RAILROAD AVE	A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050	PH TAP	A	COMM	EA	OKANOGAN	
90050	PUMP HOUSE TAP #3	A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
90050	K	TWISP, TOWN OF	02		05/17/1994
90050	K	TWISP, TOWN OF	02		12/01/1992
90050	K	TWISP, TOWN OF	02		06/01/1988
90050	K	TWISP, TOWN OF	02		06/10/1985
90050	K	TWISP, TOWN OF	02		06/11/1982
90050	K	TWISP, TOWN OF	03		08/27/1997
90050	K	TWISP, TOWN OF	03		06/16/1997
90050	K	TWISP, TOWN OF	03		12/05/1995
90050	K	TWISP, TOWN OF	03		05/16/1994
90050	K	TWISP, TOWN OF	03		12/01/1992
90050	K	TWISP, TOWN OF	03		06/16/1988
90050	K	TWISP, TOWN OF	03		06/10/1985
90050	K	TWISP, TOWN OF	90		09/01/1978
90050	K	TWISP, TOWN OF	99		10/29/1997
97740	N	WINTHROP INN MOTEL	01		05/15/1985
97750	X	WINTHROP, TOWN OF	01		08/08/1988
97750	X	WINTHROP, TOWN OF	01		07/28/1987
97750	X	WINTHROP, TOWN OF	01		02/24/1984
97750	X	WINTHROP, TOWN OF	03		12/17/1997
97750	X	WINTHROP, TOWN OF	03		10/21/1996
97750	X	WINTHROP, TOWN OF	03		12/18/1995
97750	X	WINTHROP, TOWN OF	03		01/10/1994
97750	X	WINTHROP, TOWN OF	03		07/29/1991
97750	X	WINTHROP, TOWN OF	90		03/12/1980
97750	X	WINTHROP, TOWN OF	99		02/28/1983
FS028	A	BALANCED ROCK SPRING	01		08/15/1983
FS029	U	BALLARD CAMPGROUND	01		08/28/1978
FS036	J	BEAVER LAKE CAMPGROUND	01		06/10/1996
FS036	J	BEAVER LAKE CAMPGROUND	01		07/30/1984
FS049	B	BLACKPINE LAKE CAMPGROUND	01		09/25/1995
FS049	B	BLACKPINE LAKE CAMPGROUND	01		07/06/1982
FS059	L	BONAPARTE WELL #4	01		06/10/1996
FS075	2	BUCK LAKE CAMPGROUND	01		09/01/1988
FS075	2	BUCK LAKE CAMPGROUND	01		08/24/1987
FS075	2	BUCK LAKE CAMPGROUND	01		09/12/1985
FS075	2	BUCK LAKE CAMPGROUND	01		05/20/1985
FS075	2	BUCK LAKE CAMPGROUND	01		08/31/1982
FS075	2	BUCK LAKE CAMPGROUND	01		07/30/1980
FS075	2	BUCK LAKE CAMPGROUND	01		08/24/1977
FS135	5	CONCONULLY UIS	01		08/06/1984
FS135	5	CONCONULLY UIS	01		04/01/1981
FS135	5	CONCONULLY UIS	01		09/19/1977
FS142	V	COTTONWOOD CAMPGROUND	01		08/06/1984

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
90050	0020		0.55	109	51707	C	B
90050	0020		0.4	051	14273	C	U
90050	0020		0.4	030	31557	C	U
90050	0020		0.5	030	00408	C	U
90050	0020		1	030	00622		U
90050	0020	LT	0.5	111	97417	C	B
90050	0020	LT	0.5	111	97327	C	B
90050	0020	LT	0.5	109	31589	C	B
90050	0020		0.52	109	91706	C	B
90050	0020		0.3	051	14271	C	U
90050	0020		0.3	030	31558	C	U
90050	0020		0.4	030	00509	C	U
90050	0020		0.3	030	02803	C	U
90050	0020	LT	0.5	111	97523	C	B
97740	0020		0.5	052	11761	C	U
97750	0020		0.6	051	11031	C	U
97750	0020		0.6	051	09959	C	U
97750	0020		1.5	051	06980	C	U
97750	0020		0.5	093	00190	C	U
97750	0020		0.49	093	00165	C	B
97750	0020		0.39	105	11042	C	B
97750	0020		0.8	093	00004	C	U
97750	0020		0.4	051	13515	C	U
97750	0020		0.4	051	04034	C	U
97750	0020		0.3	051	06424	C	U
FS028	0020		0.5	051	07453	C	U
FS029	0020		0.2	051	03239	C	U
FS036	0020	LT	0.1	093	00075	C	B
FS036	0020	LT	0.3	051	07393	C	U
FS049	0020		1.94	093	00212	C	B
FS049	0020	LT	0.2	052	08180	C	U
FS059	0020	ND		093	00076	C	B
FS075	0020	LT	0.2	052	16898	C	U
FS075	0020	LT	0.2	052	14988	C	U
FS075	0020	LT	0.2	052	12155	C	U
FS075	0020	LT	0.2	052	11776	C	U
FS075	0020	LT	0.2	051	05933	C	U
FS075	0020		0.2	051	04141	C	U
FS075	0020		2	051	02833	C	U
FS135	0020	LT	0.2	051	07423	C	U
FS135	0020	LT	0.2	051	04517	C	U
FS135	0020	LT	0.1	051	02867	C	U
FS142	0020	LT	0.2	051	07422	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050	PH TAP	A	COMM	EA	OKANOGAN	
90050	PUMP HOUSE TAP WELL #	A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050		A	COMM	EA	OKANOGAN	
90050	PUMP HOUSE TAP	A	COMM	EA	OKANOGAN	
97740		A	TNC	EA	OKANOGAN	03/01/1990
97750		A	COMM	EA	OKANOGAN	
97750		A	COMM	EA	OKANOGAN	
97750		A	COMM	EA	OKANOGAN	
97750	TANK INLET, BOTH PUMPS	A	COMM	EA	OKANOGAN	
97750	WELL FIELD	A	COMM	EA	OKANOGAN	
97750		A	COMM	EA	OKANOGAN	
97750		A	COMM	EA	OKANOGAN	
97750		A	COMM	EA	OKANOGAN	
97750		A	COMM	EA	OKANOGAN	
97750		A	COMM	EA	OKANOGAN	
FS028		B		EA	OKANOGAN	03/29/1993
FS029		B		EA	OKANOGAN	
FS036	HAND PUMP	A	TNC	EA	OKANOGAN	
FS036		A	TNC	EA	OKANOGAN	
FS049		B		EA	OKANOGAN	
FS049		B		EA	OKANOGAN	
FS059	UNIT 26	A	TNC	EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS075		B		EA	OKANOGAN	
FS135		B		EA	OKANOGAN	
FS135		B		EA	OKANOGAN	
FS135		B		EA	OKANOGAN	
FS142		B		EA	OKANOGAN	

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
FS142	V	COTTONWOOD CAMPGROUND	01		09/24/1980
FS142	V	COTTONWOOD CAMPGROUND	01		09/19/1977
FS201	E	EARLY WINTERS CAMPGROUND #2	01		08/25/1977
FS204	0	EARLY WINTERS WATER SYSTEM	01		10/20/1995
FS204	0	EARLY WINTERS WATER SYSTEM	01		09/01/1986
FS204	0	EARLY WINTERS WATER SYSTEM	01		08/31/1982
FS204	0	EARLY WINTERS WATER SYSTEM	01		06/25/1979
FS204	0	EARLY WINTERS WATER SYSTEM	01		08/25/1977
FS204	0	EARLY WINTERS WATER SYSTEM	92		07/23/1996
FS228	K	FALLS CREEK CAMPGROUND	01		09/01/1988
FS228	K	FALLS CREEK CAMPGROUND	01		08/24/1987
FS228	K	FALLS CREEK CAMPGROUND	01		08/31/1982
FS228	K	FALLS CREEK CAMPGROUND	01		07/30/1980
FS228	K	FALLS CREEK CAMPGROUND	01		08/25/1977
FS265	2	FLAT CAMPGROUND	01		09/09/1986
FS265	2	FLAT CAMPGROUND	01		07/11/1983
FS265	2	FLAT CAMPGROUND	01		08/31/1982
FS265	2	FLAT CAMPGROUND	01		08/29/1978
FS422	Q	JR CAMPGROUND	01		09/25/1995
FS471	H	KLIPCHUCK CAMPGROUND	01		09/01/1988
FS471	H	KLIPCHUCK CAMPGROUND	01		08/24/1987
FS471	H	KLIPCHUCK CAMPGROUND	01		09/01/1986
FS471	H	KLIPCHUCK CAMPGROUND	01		09/17/1985
FS471	H	KLIPCHUCK CAMPGROUND	01		06/14/1983
FS471	H	KLIPCHUCK CAMPGROUND	01		07/20/1981
FS471	H	KLIPCHUCK CAMPGROUND	01		07/17/1980
FS471	H	KLIPCHUCK CAMPGROUND	01		06/25/1979
FS471	H	KLIPCHUCK CAMPGROUND	01		08/28/1978
FS471	H	KLIPCHUCK CAMPGROUND	01		08/25/1977
FS471	H	KLIPCHUCK CAMPGROUND	92		07/23/1996
FS487	V	LAKE BETH CAMPGROUND	01		06/10/1996
FS571	M	LONE FIR CAMPGROUND	01		09/01/1986
FS571	M	LONE FIR CAMPGROUND	01		06/14/1983
FS571	M	LONE FIR CAMPGROUND	01		07/17/1980
FS571	M	LONE FIR CAMPGROUND	01		08/25/1977
FS571	M	LONE FIR CAMPGROUND	92		07/23/1996
FS585	Y	LOST LAKE CAMPGROUND	01		06/10/1996
FS585	Y	LOST LAKE CAMPGROUND	01		07/30/1984
FS585	Y	LOST LAKE CAMPGROUND	01		07/26/1979
FS598	R	LOUP LOUP & JR CAMPGROUNDS	01		07/06/1982
FS720	3	ORIOLE CAMPGROUND	01		08/06/1984
FS720	3	ORIOLE CAMPGROUND	01		08/20/1980
FS720	3	ORIOLE CAMPGROUND	01		09/26/1977

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
FS142	0020		0.2	051	04193	C	U
FS142	0020		0.7	051	02874	C	U
FS201	0020		0.6	051	02838	C	U
FS204	0020	LT	0.1	093	00223	C	B
FS204	0020	LT	0.2	052	13173	C	U
FS204	0020	LT	0.2	051	05937	C	U
FS204	0020	LT	0.2	051	03690	C	U
FS204	0020		0.5	051	02837	C	U
FS204	0020		0.09	105	05200	C	B
FS228	0020	LT	0.2	052	16901	C	U
FS228	0020	LT	0.2	052	14987	C	U
FS228	0020	LT	0.2	051	05935	C	U
FS228	0020		0.2	051	04142		U
FS228	0020		0.6	051	02834	C	U
FS265	0020	LT	0.2	052	13174	C	U
FS265	0020	LT	0.2	052	09286	C	U
FS265	0020	LT	0.2	051	05936	C	U
FS265	0020		1.6	051	03233	C	U
FS422	0020		2.03	093	00210	C	B
FS471	0020	LT	0.2	052	16900	C	U
FS471	0020	LT	0.2	052	14985	C	U
FS471	0020	LT	0.2	052	13172	C	U
FS471	0020	LT	0.2	052	12166	C	U
FS471	0020	LT	0.2	052	09122	C	U
FS471	0020	LT	0.2	051	04615	C	U
FS471	0020		1.5	051	04132	C	U
FS471	0020	LT	0.2	051	03688	C	U
FS471	0020		0.2	051	03237	C	U
FS471	0020		1	051	02839	C	U
FS471	0020	LT	0.07	105	05199	C	B
FS487	0020		0.2	093	00073	C	B
FS571	0020	LT	0.2	052	13171	C	U
FS571	0020		0.3	052	09121	C	U
FS571	0020		0.5	051	04130	C	U
FS571	0020		0.7	051	02840	C	U
FS571	0020		0.11	105	05197	C	B
FS585	0020	ND		093	00074	C	B
FS585	0020	LT	0.2	051	07398	C	U
FS585	0020	LT	0.2	051	03751	C	U
FS598	0020	LT	0.2	052	08184	C	U
FS720	0020	LT	0.2	051	07419	C	U
FS720	0020		0.2	051	04157	C	U
FS720	0020		0	051	02881	C	U

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
FS142		B		EA	OKANOGAN	
FS142		B		EA	OKANOGAN	
FS201		A	TNC	EA	OKANOGAN	08/01/1988
FS204		A	TNC	EA	OKANOGAN	
FS204		A	TNC	EA	OKANOGAN	
FS204		A	TNC	EA	OKANOGAN	
FS204		A	TNC	EA	OKANOGAN	
FS204		A	TNC	EA	OKANOGAN	
FS204	SINK FAUCET	A	TNC	EA	OKANOGAN	
FS228		B		EA	OKANOGAN	
FS228		B		EA	OKANOGAN	
FS228		B		EA	OKANOGAN	
FS228		B		EA	OKANOGAN	
FS228		B		EA	OKANOGAN	
FS265		A	TNC	EA	OKANOGAN	
FS265		A	TNC	EA	OKANOGAN	
FS265		A	TNC	EA	OKANOGAN	
FS265		A	TNC	EA	OKANOGAN	
FS422		A	TNC	EA	OKANOGAN	11/18/1992
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471		A	TNC	EA	OKANOGAN	
FS471	FAUCET BY SITE #1	A	TNC	EA	OKANOGAN	
FS487	UNIT 6	A	TNC	EA	OKANOGAN	
FS571		A	TNC	EA	OKANOGAN	
FS571		A	TNC	EA	OKANOGAN	
FS571		A	TNC	EA	OKANOGAN	
FS571		A	TNC	EA	OKANOGAN	
FS571	FAUCET BY SITE #26	A	TNC	EA	OKANOGAN	
FS585	KT	A	TNC	EA	OKANOGAN	
FS585		A	TNC	EA	OKANOGAN	
FS585		A	TNC	EA	OKANOGAN	
FS598		B		EA	OKANOGAN	
FS720		A	TNC	EA	OKANOGAN	
FS720		A	TNC	EA	OKANOGAN	
FS720		A	TNC	EA	OKANOGAN	

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
FS752	W	POPLAR FLAT CAMPGROUND	01		09/25/1995
FS752	W	POPLAR FLAT CAMPGROUND	01		07/06/1982
FS812	0	SALMON MEADOWS CAMPGROUND	01		08/06/1984
FS886	V	SUGARLOAF CAMPGROUND	01		08/06/1984
FS886	V	SUGARLOAF CAMPGROUND	01		04/01/1981
FS886	V	SUGARLOAF CAMPGROUND	01		08/14/1978
FS911	L	SWEAT CREEK CAMPGROUND	01		07/30/1984
FS911	L	SWEAT CREEK CAMPGROUND	01		09/01/1978
FS973	6	WAR CREEK CAMPGROUND	01		09/25/1995
FS973	6	WAR CREEK CAMPGROUND	01		07/06/1982
FS974	P	WASHINGTON PASS WELL	01		09/01/1988
FS974	P	WASHINGTON PASS WELL	01		08/24/1987
FS974	P	WASHINGTON PASS WELL	01		09/01/1986
FS974	P	WASHINGTON PASS WELL	01		07/20/1981
FS974	P	WASHINGTON PASS WELL	92		07/23/1996
FW030	5	SINLAHEKIN WILDLIFE AREA HDQS.W.S.	01		09/29/1994
HD011	6	OKANOGAN WSDOT MAINT. FACILITY #2	01		08/23/1995
HD014	Q	WSDOT OKANOGAN MAINTENANCE FACILITY	01		06/15/1996
HD014	Q	WSDOT OKANOGAN MAINTENANCE FACILITY	01		05/26/1995
HD061	F	BREWSTER D O T MAINTENANCE SITE	01		05/05/1994
HD061	F	BREWSTER D O T MAINTENANCE SITE	01		10/22/1991
HD061	F	BREWSTER D O T MAINTENANCE SITE	01		01/10/1983
HD061	F	BREWSTER D O T MAINTENANCE SITE	01		09/15/1980
HD061	F	BREWSTER D O T MAINTENANCE SITE	01		06/13/1978
HD530	U	OKANOGAN MAINTENANCE BLDG/D.O.T.	02		10/22/1991
HD820	Y	TONASKET MAINTENANCE SITE	01		10/22/1991
HD820	Y	TONASKET MAINTENANCE SITE	90		01/17/1983
HD820	Y	TONASKET MAINTENANCE SITE	90		09/15/1980
HD820	Y	TONASKET MAINTENANCE SITE	90		08/01/1977
HD891	9	TWISP MAINT/SITE	01		05/05/1994
HD891	9	TWISP MAINT/SITE	01		10/22/1991
IH133	5	COLVILLE INDIAN AGENCY	01		01/29/1990
IH133	5	COLVILLE INDIAN AGENCY	01		08/19/1987
IH133	5	COLVILLE INDIAN AGENCY	01		08/24/1982
IH136	P	COLVILLE - ALBERT ORR WATER SYSTEM	01		08/20/1991
IH136	P	COLVILLE - ALBERT ORR WATER SYSTEM	02		08/20/1991
IH138	Q	COLVILLE MALOTT COMMUNITY WT SYS	01		08/20/1991
IH138	Q	COLVILLE MALOTT COMMUNITY WT SYS	02		08/20/1991
IH163	X	DISAUTEL COMMUNITY	01		08/19/1991
IH163	X	DISAUTEL COMMUNITY	01		03/23/1987
IH579	T	OMAK HUD TRAILER COURT	01		08/20/1991
IH579	T	OMAK HUD TRAILER COURT	01		03/23/1987
IH579	T	OMAK HUD TRAILER COURT	01		09/01/1980

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Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
FS752	0020		2.07	093	00211	C	B
FS752	0020	LT	0.2	052	08179	C	U
FS812	0020	LT	0.2	051	07421	C	U
FS886	0020	LT	0.2	051	07420	C	U
FS886	0020	LT	0.2	051	04518	C	U
FS886	0020		0.3	051	03203	C	U
FS911	0020	LT	0.2	051	07400	C	U
FS911	0020	LT	0.2	051	03259	C	U
FS973	0020		2.01	093	00209	C	B
FS973	0020	LT	0.2	051	05844	C	U
FS974	0020	LT	0.2	052	16902	C	U
FS974	0020		0.2	052	14984	C	U
FS974	0020	LT	0.2	052	13170	C	U
FS974	0020	LT	0.2	051	04616	C	U
FS974	0020	LT	0.07	105	05198	C	B
FW030	0020		0.2	108	50581	C	B
HD011	0020		0.19	107	03151	C	B
HD014	0020		0.17	107	02593	C	B
HD014	0020		0.17	107	09593	C	B
HDO61	0020		8.2	093	00101	C	B
HDO61	0020		3.9	051	13682	C	U
HDO61	0020		3.5	033	00544	C	U
HDO61	0020		3.2	052	05244	C	U
HDO61	0020		3.3	051	03126	C	U
HD530	0020		1.5	051	13684	C	U
HD820	0020		1.1	051	13685	C	U
HD820	0020		0.1	033	00541	C	U
HD820	0020	LT	0.2	052	05245	C	U
HD820	0020		1	051	02782	C	U
HD891	0020		1	093	00102	C	B
HD891	0020		0.9	051	13683	C	U
IH133	0020		0.5	030	33289	C	U
IH133	0020	LT	0.2	051	10028	C	U
IH133	0020	LT	2	030	00759	C	U
IH136	0020	LT	0.2	051	13571	C	U
IH136	0020	LT	0.2	051	13572	C	U
IH138	0020	LT	0.2	051	13573	C	U
IH138	0020	LT	0.2	051	13574	C	U
IH163	0020	LT	0.2	051	13564	C	U
IH163	0020	LT	0.2	051	09633	C	U
IH579	0020		0.2	051	13575	C	U
IH579	0020		0.4	051	09635	C	U
IH579	0020		0.2	051	04174	C	U

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
FS752		B		EA	OKANOGAN	
FS752		B		EA	OKANOGAN	
FS812		A	TNC	EA	OKANOGAN	
FS886		B		EA	OKANOGAN	04/15/1993
FS886		B		EA	OKANOGAN	04/15/1993
FS886		B		EA	OKANOGAN	04/15/1993
FS911		B		EA	OKANOGAN	04/15/1993
FS911		B		EA	OKANOGAN	04/15/1993
FS973		B		EA	OKANOGAN	
FS973		B		EA	OKANOGAN	
FS974		A	TNC	EA	OKANOGAN	
FS974		A	TNC	EA	OKANOGAN	
FS974		A	TNC	EA	OKANOGAN	
FS974		A	TNC	EA	OKANOGAN	
FS974	FAUCET OUTSIDE OF BUIL	A	TNC	EA	OKANOGAN	
FW030		B		EA	OKANOGAN	
HD011	WELL 3	B		EA	OKANOGAN	
HD014	WELL 1	B		EA	OKANOGAN	
HD014		B		EA	OKANOGAN	
HD061		B		EA	OKANOGAN	
HD061		B		EA	OKANOGAN	
HD061		B		EA	OKANOGAN	
HD061		B		EA	OKANOGAN	
HD061		B		EA	OKANOGAN	
HD530		B		EA	OKANOGAN	09/29/1992
HD820		B		EA	OKANOGAN	09/29/1992
HD820		B		EA	OKANOGAN	09/29/1992
HD820		B		EA	OKANOGAN	09/29/1992
HD820		B		EA	OKANOGAN	09/29/1992
HD891		B		EA	OKANOGAN	
HD891		B		EA	OKANOGAN	
IH133		A	COMM	EA	OKANOGAN	
IH133		A	COMM	EA	OKANOGAN	
IH133		A	COMM	EA	OKANOGAN	
IH136		A	COMM	EA	OKANOGAN	
IH136		A	COMM	EA	OKANOGAN	
IH138		A	COMM	EA	OKANOGAN	
IH138		A	COMM	EA	OKANOGAN	
IH163		A	COMM	EA	OKANOGAN	
IH163		A	COMM	EA	OKANOGAN	
IH579		A	COMM	EA	OKANOGAN	
IH579		A	COMM	EA	OKANOGAN	
IH579		A	COMM	EA	OKANOGAN	

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
IH579	T	OMAK HUD TRAILER COURT	02		08/20/1991
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		02/13/1995
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		11/01/1994
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		05/12/1994
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		12/07/1993
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		11/01/1993
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		08/02/1993
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		08/02/1993
IH611	8	PASCAL SHERMAN INDIAN BOARDING SCH	01		06/14/1979
NR570	0	NORTH FORK NINE MILE	01		08/02/1983
NR658	Q	ROCK CREEK CAMP	01		08/02/1983
SP010	U	ALTA LAKE STATE PARK	01		06/26/1997
SP010	U	ALTA LAKE STATE PARK	01		06/20/1996
SP010	U	ALTA LAKE STATE PARK	01		06/17/1984
SP010	U	ALTA LAKE STATE PARK	02		06/20/1996
SP010	U	ALTA LAKE STATE PARK	02		12/07/1994
SP010	U	ALTA LAKE STATE PARK	02		06/17/1984
SP010	U	ALTA LAKE STATE PARK	03		06/26/1997
SP010	U	ALTA LAKE STATE PARK	03		12/07/1994
SP010	U	ALTA LAKE STATE PARK	03		05/12/1993
SP010	U	ALTA LAKE STATE PARK	90		08/01/1987
SP010	U	ALTA LAKE STATE PARK	90		08/01/1987
SP010	U	ALTA LAKE STATE PARK	90		07/01/1987
SP018	Y	CONCONULLY ST. PARK, PRIMITIVE AREA	01		07/28/1997
SP018	Y	CONCONULLY ST. PARK, PRIMITIVE AREA	01		12/19/1996
SP018	Y	CONCONULLY ST. PARK, PRIMITIVE AREA	01		06/21/1995
SP018	Y	CONCONULLY ST. PARK, PRIMITIVE AREA	01		02/02/1994
SP018	Y	CONCONULLY ST. PARK, PRIMITIVE AREA	92		04/25/1995
SP019	F	CONCONULLY ST. PARK, BOAT LAUNCH	01		07/28/1997
SP019	F	CONCONULLY ST. PARK, BOAT LAUNCH	01		12/19/1996
SP019	F	CONCONULLY ST. PARK, BOAT LAUNCH	01		06/21/1995
SP019	F	CONCONULLY ST. PARK, BOAT LAUNCH	01		01/12/1994
SP019	F	CONCONULLY ST. PARK, BOAT LAUNCH	92		04/25/1995
SP100	P	BRIDGEPORT STATE PARK	01		06/26/1997
SP100	P	BRIDGEPORT STATE PARK	01		06/20/1996
SP100	P	BRIDGEPORT STATE PARK	01		12/07/1994
SP100	P	BRIDGEPORT STATE PARK	01		08/01/1987
SP100	P	BRIDGEPORT STATE PARK	01		07/01/1987
SP100	P	BRIDGEPORT STATE PARK	01		06/08/1984
SP170	H	CONCONULLY STATE PARK	01		07/28/1997
SP170	H	CONCONULLY STATE PARK	01		01/11/1994
SP170	H	CONCONULLY STATE PARK	01		06/15/1993
SP170	H	CONCONULLY STATE PARK	01		02/01/1987

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
IH579	0020		0.4	051	13576	C	U
IH611	0020		0.55	093	00021	C	B
IH611	0020		0.68	093	00272	C	B
IH611	0020		0.49	093	00117	C	B
IH611	0020		0.6	093	00174	C	U
IH611	0020		1.9	093	00160	C	U
IH611	0020		4	093	00101	C	U
IH611	0020		0.5	093	00102	C	U
IH611	0020	LT	0.1	030	01226	C	U
NR570	0020		0.3	030	01432	C	U
NR658	0020		0.2	030	01435	C	U
SP010	0020	ND		093	00097	C	U
SP010	0020		0.3	093	00084	C	B
SP010	0020		0.8	051	07210	C	U
SP010	0020	ND		093	00086	C	B
SP010	0020		0.44	093	00292	C	B
SP010	0020		0.9	051	07209	C	U
SP010	0020		0.54	093	00074	C	U
SP010	0020	ND		093	00286	C	B
SP010	0020	ND		109	51301	C	B
SP010	0020		2.9	030	30511	C	U
SP010	0020	LT	0.2	030	30536	C	U
SP010	0020		0.4	030	30419	C	U
SP018	0020		0.4	093	00107	C	U
SP018	0020	ND		093	00180	C	B
SP018	0020		2.39	109	30623	C	A
SP018	0020	ND		109	20402	C	B
SP018	0020	LT	0.1	093	00062	C	A
SP019	0020		0.27	093	00108	C	U
SP019	0020	ND		093	00182	C	B
SP019	0020		0.75	109	30622	C	A
SP019	0020	ND		109	11317	C	B
SP019	0020		0.14	093	00063	C	B
SP100	0020		0.24	093	00072	C	U
SP100	0020		0.11	093	00085	C	B
SP100	0020	ND		093	00290	C	B
SP100	0020	LT	0.2	030	30537	C	U
SP100	0020	LT	0.2	030	30417	C	U
SP100	0020	LT	0.2	051	07184	C	U
SP170	0020		0.14	093	00109	C	U
SP170	0020		1.2	093	00010	C	B
SP170	0020		0.3	093	00074	C	U
SP170	0020	LT	0.2	030	02738	C	U

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
IH579		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
IH611		A	COMM	EA	OKANOGAN	
NR570		B		EA	OKANOGAN	
NR658		B		EA	OKANOGAN	
SP010	191 A ALTA LK RD	A	TNC	EA	OKANOGAN	
SP010	WH WELL IS ALMOST DRY	A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010	WH MAIN WELL/WELL 2	A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010	E ALTA LK RD	A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP010		A	TNC	EA	OKANOGAN	
SP018	PRIMETIME PC	A	TNC	EA	OKANOGAN	
SP018	PC	A	TNC	EA	OKANOGAN	
SP018		A	TNC	EA	OKANOGAN	
SP018		A	TNC	EA	OKANOGAN	
SP018	CONCONOLLY STATE PAR	A	TNC	EA	OKANOGAN	
SP019	BOAT LAUNCH PIPE	A	TNC	EA	OKANOGAN	
SP019	BOAT LAUNCH PC	A	TNC	EA	OKANOGAN	
SP019		A	TNC	EA	OKANOGAN	
SP019		A	TNC	EA	OKANOGAN	
SP019	UPPER CONCONULLY LAKE	A	TNC	EA	OKANOGAN	
SP100	WH 1	A	TNC	EA	OKANOGAN	
SP100	TAP 100 FT FROM WH	A	TNC	EA	OKANOGAN	
SP100		A	TNC	EA	OKANOGAN	
SP100		A	TNC	EA	OKANOGAN	
SP100		A	TNC	EA	OKANOGAN	
SP100		A	TNC	EA	OKANOGAN	
SP100		A	TNC	EA	OKANOGAN	
SP170	PARK SHOP	A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	SFX	System Name	SRC	MSRC	Collection Date
SP170	H	CONCONULLY STATE PARK	01		02/01/1987
SP170	H	CONCONULLY STATE PARK	02		01/03/1995
SP170	H	CONCONULLY STATE PARK	02		01/11/1994
SP170	H	CONCONULLY STATE PARK	02		06/15/1993
SP170	H	CONCONULLY STATE PARK	03		12/19/1996
SP170	H	CONCONULLY STATE PARK	03		01/03/1995
SP170	H	CONCONULLY STATE PARK	90		06/09/1984
SP170	H	CONCONULLY STATE PARK	90		01/18/1984
SP295	Q	FORT OKANOGAN STATE PARK	01		06/26/1997
SP295	Q	FORT OKANOGAN STATE PARK	01		06/20/1996
SP295	Q	FORT OKANOGAN STATE PARK	90		08/01/1987
SP295	Q	FORT OKANOGAN STATE PARK	90		07/01/1987
SP295	Q	FORT OKANOGAN STATE PARK	90		06/06/1984
SP660	W	PEARRYGIN LAKE STATE PARK	01		12/20/1996
SP660	W	PEARRYGIN LAKE STATE PARK	01		02/02/1995
SP660	W	PEARRYGIN LAKE STATE PARK	01		02/07/1994
SP660	W	PEARRYGIN LAKE STATE PARK	01		03/12/1993
SP660	W	PEARRYGIN LAKE STATE PARK	01		02/01/1987
SP660	W	PEARRYGIN LAKE STATE PARK	01		01/10/1984

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	PARAM. (0020 = Nitrate)	A_LVL	Nitrate Conc. (mg/l)	LAB.	SAM.	S_purp	S_type
SP170	0020	LT	0.2	030	02754	C	U
SP170	0020		0.27	093	00003	C	B
SP170	0020		1	093	00011	C	B
SP170	0020		0.6	093	00075	C	U
SP170	0020	ND		093	00181	C	B
SP170	0020		0.17	093	90004	C	B
SP170	0020		0.2	051	07186	C	U
SP170	0020	LT	0.2	051	06889	C	U
SP295	0020		0.39	093	00073	C	U
SP295	0020		0.35	093	00087	C	B
SP295	0020		0.4	030	30538	C	U
SP295	0020		0.8	030	30418	C	U
SP295	0020		2.4	051	07185	C	U
SP660	0020	LT	0.1	093	00179	C	A
SP660	0020	ND		093	00014	C	A
SP660	0020		0.8	093	00030	C	A
SP660	0020		2.8	093	00019	C	U
SP660	0020	LT	0.2	030	02733	C	U
SP660	0020	LT	0.2	051	06870	C	U

Mean = 1.0
 Median = 0.5
 Max = 10.2
 Min = 0
 Number = 654

Appendix C

Nitrate Concentrations for Public Water Supply Systems, Okanogan Watershed -- from WA Department of Health

public water system ID	Sampling Location	grp	systype	region	county	date system inactive
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170	SHOP SINK	A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP170		A	TNC	EA	OKANOGAN	
SP295	WELL 1	B		EA	OKANOGAN	
SP295	WH	B		EA	OKANOGAN	
SP295		B		EA	OKANOGAN	
SP295		B		EA	OKANOGAN	
SP295		B		EA	OKANOGAN	
SP660	OFFICE	A	TNC	EA	OKANOGAN	
SP660		A	TNC	EA	OKANOGAN	
SP660		A	TNC	EA	OKANOGAN	
SP660		A	TNC	EA	OKANOGAN	
SP660		A	TNC	EA	OKANOGAN	
SP660		A	TNC	EA	OKANOGAN	

Appendix D

Appendix D
Okanogan Watershed Ground-Water Clean-Up Site Data
from:
WA Department of Ecology, Toxics Cleanup Program

Well ID	City	FS_ID	Site Name	LAT DEG	LAT MI
26	WINTHROP	102099 (UB)	US FISH HATCHERY	48	28
27	TWISP	12231 (UB)	TWISP MAINTENANCE SITE	48	20
28	OMAK	5053 (UB)	CHEVONR 9-0442 (NO CENTRAL PET.)	48	24
29	OMAK	5025 (UB)	COCA-COLA BOTTLING COMPANY	48	24
30	OKANOGAN	6692 (UB)	OKANOGAN PUD #1 (2ND ST)	48	22
1	LOOMIS	101	SILVER MOUNTAIN MINE	48	44
2	OROVILLE	410	OROVILLE DUMP	48	57
3	OMAK	411	TURNER PESTICIDE DUMP	48	14
4	TWISP	412	ALDER MILL	48	21
5	OKANOGAN	413	CANAMERA MILLING & SMELTING	48	21
6	OROVILLE	415	D A THORNDIKE & SONS INC	48	56
7	NIGHTHAWK	416	USDOI BLM	48	57
8	OKANOGAN	417	STARCRISP INC	48	21
9	OROVILLE	418	ENLOE DAM	48	53
10	MALOTT	419	ARDENS STORE	48	16
11	TONASKET	420	TONASKET POST & RAIL	48	41
12	GRAND COULEE	421	BRETT PIT	47	58
13	MOLSON	422	MOLSON DUMP	48	6
14	OROVILLE	423	EISEN CHEVRON	48	56
15	BREWSTER	424	GEBBER FARMS	48	6
16	BREWSTER	425	PARISEAU FARM	48	7
17	CARLTON	426	MINNIE MINE	48	15
18	WINTHROP	428	PASAYTEN CAFE TEXACO	48	40
19	LOOMIS	431	LOOMIS CHEVRON	48	49
20	OMAK	432	UNOCAL 0855	48	24
21	OROVILLE	437	JACKPOT FOOD MART 01 081	48	56
22	TWISP	439	LLOYDS LOGGING EQUIP YD	48	21
23	OMAK	89988466	US WEST OMAK BUSINESS OFFICE	48	24
25	OMAK	7743 (UB)	OMAK GULL #611	48	24

Appendix D
Okanogan Watershed Ground-Water Clean-Up Site Data
from:
WA Department of Ecology, Toxics Cleanup Program

Well ID	LAT SEC	LONG DEG	LONG MIN	LONG SEC	Base/ Neutral Organics	Conv Cont/ Inorgan	Conv Cont/ Organ	Halogen-ated Organics	Metals/ Other
26	25.48	120	11	23.69					
27	22.2	120	4	30.8					
28	34.85	119	31	43.67					
29	43.93	119	31	43.58					
30	32.25	119	34	4.8					
1	41.53	119	33	29.23					
2	37.48	119	29	26.16				S	
3	53.52	119	44	15.22					
4	15.52	120	7	21.29					C
5	59.54	119	34	46.2					S
6	18.56	119	26	21.23					
7	12.56	119	39	6.3					
8	26.71	119	34	51.99					
9	56.54	119	30	5.26					
10	57.54	119	42	22.21					
11	47.76	119	26	52.12					
12	12.25	118	57	50.1		S	S	S	S
13	31.54	119	42	14.18					
14	24.83	119	26	4.13					
15	31.54	119	42	14.18					
16	5.52	119	45	56.2					
17	45.54	120	3	7.27	C				C
18	13.4	119	21	15.05					
19	18.66	119	38	15.04					
20	53.46	119	31	41.95					
21	22.09	119	26	7.04					
22	35.53	120	7	5.27					
23	38.74	119	31	49.08					
25	5.1	119	32	13.20					

Appendix D

Okanogan Watershed Ground-Water Clean-Up Site Data

from:

WA Department of Ecology, Toxics Cleanup Program

Well ID	Metals/ Priority Pollutants	Non-Halogenated Solvents	PCB	Pesticides	Petro Prod	Phenols
26					C	
27					C	
28					C	
29					C	
30					C	
1	C					
2				S		
3				C		
4	C					
5	S					
6				S		
7	S					
8				S		
9			C			
10					C	
11						S
12	S	S	S	S	S	
13				C		
14					C	
15				C		
16				S		
17	C					
18					S	
19					S	
20					C	
21					S	
22					S	
23					R	
25					C	

Legend:

- C = Contaminant is Confirmed at the site
- S = Contaminant is Suspected at the site
- R = Contaminant has been Remediated at the site