



2 Lamb Street  
Georgetown, Ontario  
L7G 3M9

## Memorandum

**To:** Dan Cornett, Access Consulting Group

**From:** Cynthia Russel, Minnow Environmental Inc.

**Date:** February 13, 2008-02-13

**Re: Update of Surface Water Quality Assessment for United Keno Hill Mine Complex.**

---

Minnow Environmental Inc. (Minnow) was retained by Access Consulting Group to undertake an assessment of the existing water quality data for the United Keno Hill Mine Complex (United Keno, Galena and Sourdough Hill). The objective of this assessment was to identify parameters and locations of concern within the downstream waters relative to established guidelines and background. This information, combined with toxicity data and watershed use objectives may then be combined to develop an approach for considering the development of Site Specific Water Quality Objectives (SSWQO) for various parameters and locations.

In order to meet the study objectives, a progressive assessment of the available water quality data was undertaken which included the following steps;

- Screen all data to identify outliers (i.e., those greater than 3 standard deviations from the mean) and remove these data.
- Establish the background concentration for each parameter based the upper limit of background data distribution (mean + t S.D.) for the combined data from KV-1 and KV-37.

- Identify parameters with high method detection limits relative to guidelines which preclude determination of whether concentrations exceed the guideline.
- Identify background concentrations which exceed the Canadian Water Quality Guidelines (CWQG).
- Determine the median, mean, minimum and maximum concentration for each parameter at each location.
- Determine which locations exceed background and/or CWQG at measurable (10%) and substantial (50%) frequencies.
- Identify the parameters and locations where concentrations are highest (i.e. median value was 5 times greater than CWQG or background, whichever is higher).
- Assess trends over time to anticipate if concentrations are increasing or decreasing relative to CWQG and/or background.
- Consider modifying factors and toxicity literature (basis for guideline development) to assess the opportunity for SSWQO development following the CCME guidelines.

Most of the above tasks are now complete with the exception of the last two bullets. A summary of our preliminary findings is provided below with supporting data (frequency, median, minimum and maximum) for each parameter provided in Appendix A.

Based on the data review, the following parameters have method detection limits (MDL) above the CWQG at some stations (Appendix A), confounding data assessment:

- |              |             |
|--------------|-------------|
| • arsenic    | • selenium  |
| • cadmium    | • silver    |
| • cobalt     | • thallium  |
| • copper     | • uranium   |
| • lead       | • zirconium |
| • iron       | • lead      |
| • mercury    | • iron      |
| • nitrite    |             |
| • phosphorus |             |

The stations where sample MDLs have been elevated above CWQG in > 50% of samples are underlined on the summary tables (Tables 2 - 5). Some consideration

should be given to consistently achieving MDLs below guidelines for these parameters in future samples.

Background concentrations of several parameters exceed the CWQG (or provincial regulatory guideline, if no CWQG exists) suggesting that concentrations of these parameters (aluminum, barium, cadmium, cobalt, copper, iron, phosphorus, sulphate and zinc) are naturally elevated (Table 1).

Contaminant concentrations of numerous parameters measured at mine-exposed stations exceeded both background and water quality guidelines (if both available) or just background (if no guideline available) in more than 10% of samples (Table 2). However, many of these parameters do not have a federal or provincial water quality guideline because they are generally of less concern from a toxicological perspective (e.g. conductivity). When only those parameters for which a guideline exists are considered, most stations still have numerous parameters which exceed both background levels and CWQG in at least 10% of the samples collected (Table 3). The list of parameters for which the median value (i.e., 50% of samples) still exceeds background and CWQG was much smaller, and pertained primarily to stations in Christal Creek, No Cash Creek and the upper portion of the Lightning Creek and Flat Creek watersheds (Table 4). Furthermore, only a few locations had parameters for which the median value exceeded background and CWQG by 5 times or more (Table 5) although it is was not uncommon to find maximum values for many parameters greater than 5 times background and CWQG at numerous stations (Appendix A). It should be noted that high maximum values may be the result of elevated MDLs although this is still being evaluated.

Based on this assessment, the key locations of concern are KV-40, KV-29, KV-21 and KV-47 with the following parameters frequently (50%) and substantially (median value > 5 times) found above background and CWQG:

- Aluminum (most problematic at KV-21).
- Cadmium (most problematic at KV-39, KV-29, KV-21 and KV-47).
- Selenium (most problematic at KV-47).
- Sulphate (most problematic at KV-29).
- Silver (most problematic at KV-47).
- Zinc (most problematic at KV-29 and KV-21).

While background concentrations are elevated for aluminum, barium, cadmium, cobalt, copper, iron, phosphorus, sulphate and zinc it is important to note that even these higher background concentrations are exceeded in more than 10% of samples in Christal Creek, No Cash Creek and portions of Lightning Creek, Flat Creek and the South McQuesten River (although less so in the later). Furthermore, at some stations the median concentrations are more than 5 times higher than these elevated background values (i.e. values may still exceed a future SSWQO at these stations). Thus it is likely that a two tiered approach to SSWQO may be required which permits higher concentrations in some selected near-field areas but provides a higher level of protection for more sensitive downstream areas (i.e. the South McQuesten River).

Should you have any questions or comments with respect to the above summary, please do not hesitate to contact me.

Table 1: Parameters for which Background Concentrations Exceed Established Criteria (Values Shaded In Green).

Parameter	Units	Canadian Water Quality Guidelines <sup>a</sup>	BC Water Quality Guidelines <sup>b</sup>	Provincial Water Quality Guidelines (Ontario) <sup>c</sup>	Background
Alkalinity-T	mg/L				31.3 <sup>d</sup>
Aluminum	mg/L	0.1 <sup>e</sup>	0.05	0.015 - 0.075 <sup>f</sup>	0.66 <sup>d</sup>
Ammonia-N	mg/L	0.24 <sup>g</sup>		0.25 <sup>g</sup>	na
Antimony	mg/L			0.02 <sup>f</sup>	< 0.0002 <sup>h</sup>
Arsenic	mg/L	0.005	0.005	0.005 <sup>f</sup>	0.0034 <sup>i</sup>
Barium	mg/L		0.001 <sup>j</sup>		0.085 <sup>d</sup>
Beryllium	mg/L		0.0053 <sup>j</sup>	0.011 - 1.1 <sup>k</sup>	na
Bicarbonate	mg/L				222 <sup>d</sup>
Bismuth	mg/L				na
Boron	mg/L		1.2	0.2 <sup>f</sup>	0.013 <sup>d</sup>
Cadmium	mg/L	0.00004 <sup>k</sup>			0.0013 <sup>i</sup>
Calcium	mg/L				69.8 <sup>d</sup>
Carbonate	mg/L				na
Chromium	mg/L	0.001 <sup>l</sup>		0.0089 <sup>j</sup>	0.0014 <sup>i</sup>
Cobalt	mg/L		0.004	0.0009	0.0033 <sup>i</sup>
Conductivity	uS/cm				494 <sup>d</sup>
Copper	mg/L	0.003 <sup>e</sup>	0.002 - 0.008 <sup>e</sup>	0.001 - 0.005 <sup>g</sup>	0.0083 <sup>i</sup>
Cyanide (total)	mg/L	0.005			na
Iron	mg/L	0.3		0.3	0.71 <sup>d</sup>
Hardness	mg/L				279 <sup>d</sup>
Hydroxide	mg/L				na
Lead	mg/L	0.004 <sup>k</sup>	0.001 - 0.011 <sup>k</sup>	0.001 - 0.005 <sup>f</sup>	0.0021 <sup>i</sup>
Lithium	mg/L		0.096 <sup>l</sup>		0.0086 <sup>i</sup>
Magnesium	mg/L				23.8 <sup>d</sup>
Manganese	mg/L		0.87 <sup>k</sup>		0.18 <sup>d</sup>
Mercury	mg/L	0.000026 <sup>m</sup>	0.000004 - 0.00002 <sup>n</sup>	0.0002	na
Molybdenum	mg/L	0.073	1	0.04 <sup>f</sup>	< 0.001 <sup>h</sup>
Nickel	mg/L	0.11 <sup>k</sup>		0.025	0.025 <sup>i</sup>
Nitrate Nitrogen (NO3)	mg/L	13	40	narrative	na
Nitrite Nitrogen (NO2)	mg/L	0.06	0.02	0.06	na
pH	pH units	6.5-9.0	6.5 - 9.0	6.5 - 8.5	7.14 <sup>d</sup>
Phosphorus	mg/L			0.03 <sup>f</sup>	0.23 <sup>d</sup>
Potassium	mg/L		432		1.05 <sup>o</sup>
Selenium	mg/L	0.001	0.002	0.1	0.0008 <sup>o</sup>
Silicon	mg/L				3.9 <sup>d</sup>
Silver	mg/L	0.0001	0.0015 <sup>e</sup>	0.0001	< 0.0001 <sup>h</sup>
Sodium	mg/L				3.3 <sup>d</sup>
Strontium	mg/L				0.3 <sup>d</sup>
Sulphate	mg/L		50		107 <sup>i</sup>
Sulphur	mg/L				35.4 <sup>d</sup>
Thallium	mg/L	0.0008		0.0003 <sup>f</sup>	< 0.00005 <sup>h</sup>
Thorium	mg/L				na
Tin	mg/L				< 0.001 <sup>h</sup>
Titanium	mg/L		2 <sup>j</sup>		0.035 <sup>d</sup>
TDS	mg/L				311 <sup>d</sup>
TSS	mg/L				26.7 <sup>d</sup>
Uranium	mg/L			0.005	0.0011 <sup>o</sup>
Vanadium	mg/L			0.006 <sup>g</sup>	0.0017 <sup>i</sup>
Zinc	mg/L	0.03	0.0075 - 0.09 <sup>e</sup>	0.02 <sup>g</sup>	0.15 <sup>d</sup>
Zirconium	mg/L			0.004	< 0.001 <sup>h</sup>

criteria selected for screening in bold

<sup>a</sup> CCME (Canadian Council of Ministers of the Environment). 1999. Canadian Environmental Quality Guidelines. 1999 (plus updates), Canadian Council of Ministers of the Environment, Winnipeg

<sup>b</sup> BCMOE (British Columbia Ministry of Environment). 2006. British Columbia Approved Water Quality Guidelines (Criteria), 2006 Edition. Updated August 2006. For parameters with both maximum and 30-day average values.

<sup>c</sup> OMOE (Ontario Ministry of Environment and Energy). 1994. Policies, Guidelines, Provincial Water Quality Objectives of the Ministry of the Environment and Energy (Ontario), July 1994

<sup>d</sup> 95th percentile of pooled background stations (KV1 & KV37)

<sup>e</sup> 0.005 mg/L at pH<6.5, Ca<4 mg/L and DOC<2 mg/L; 0.1 mg/L at pH ≥ 6.5; [Ca<sup>2+</sup>] ≥ 4 mg/L; DOC ≥ 2 mg/L

<sup>f</sup> interim objective

<sup>g</sup> based on conservative assumption of pH 8.5 and temperature of 15C to achieve un-ionized ammonia of <0.02 mg/L

<sup>h</sup> <MDL set as background

<sup>i</sup> 95th percentile of pooled background stations (KV1&KV37) using data from July 20, 2004-2007

<sup>j</sup> Working water quality guideline for British Columbia

<sup>k</sup> hardness dependent; average background value of 160 mg/L used to determine criterion

<sup>l</sup> hexavalent form

<sup>m</sup> inorganic mercury

<sup>n</sup> depending on proportion present as MeHg

<sup>o</sup> 95th percentile of pooled background stations (KV1 & KV37) following removal of elevated <MDL values.

na background value not selected due to a high proportion of samples <MDL, variable MDLs and/or a small sample size.

**Table 2: Receiving Environment Station (1994-2007) Parameters that Exceeded both Background and Guideline Values (if Both Available) or just Background or Guideline (if Only One Available) in Over 10% of Samples.**

Watercourse	Station	Parameter
Lightning Creek	KV39	As, Cd, Pb, NO <sub>2</sub> , <u>P</u> , Zn
	KV40	Ba, NO <sub>2</sub> , <u>Se</u> , <u>Ag</u> , S, <u>Tl</u> , <u>U</u> , <u>Zr</u>
	KV38	NO <sub>2</sub> , <u>P</u> , Ag, Zr
	KV41	Al, As, Fe, Pb, Hg, NO <sub>2</sub> , <u>P</u> , Se, Si, Ag, Sn, TSS, Zn, Zr
Christal Creek	KV6	As, Cd, Ca, Conductivity, CN, Hardness, Fe, <b>Pb</b> , Mg, Mn, <u>Hg</u> , NO <sub>2</sub> , Se, Si, <b>Ag</b> , <b>SO<sub>4</sub></b> , S, Sn, TSS, <b>U</b> , <b>Zn</b> , Zr
	KV16	As, Cd, Ca, Conductivity, Hardness, Fe, Pb, Mg, Mn, NO <sub>2</sub> , <b>P</b> , Se, Si, Ag, Sr, <b>SO<sub>4</sub></b> , S, Sn, U, <b>Zn</b> , Zr
	KV29	Al, As, Ba, <b>Cd</b> , Ca, Co, Conductivity, Cu, Hardness, Fe, Pb, Mg, <b>Mn</b> , Hg, NO <sub>2</sub> , P, Se, Si, Ag, Sr, <b>SO<sub>4</sub></b> , S, Sn, TSS, U, V, <b>Zn</b> , Zr
	KV30	Al, As, <b>Cd</b> , Ca, Conductivity, Hardness, Fe, Pb, Mg, <b>Mn</b> , Hg, NO <sub>2</sub> , P, Se, Si, Ag, Sr, <b>SO<sub>4</sub></b> , S, Sn, TDS, TSS, U, <b>Zn</b> , Zr
	KV7	Cd, Ca, Conductivity, CN, Hardness, Fe, Mg, <u>Hg</u> , NO <sub>2</sub> , Se, Si, Ag, <b>SO<sub>4</sub></b> , S, Sn, TSS, U, <b>Zn</b> , Zr
	KV8	Cd, Ca, Conductivity, Hardness, Fe, Pb, Mg, Hg, NO <sub>2</sub> , <u>P</u> , Se, Si, <b>Ag</b> , Sr, <b>SO<sub>4</sub></b> , S, Sn, <b>Zn</b> , Zr
No Cash Creek	KV21	<b>Al</b> , <b>Cd</b> , Ca, CO <sub>3</sub> , Hardness, Fe, <b>Pb</b> , Mg, <b>Mn</b> , NO <sub>2</sub> , <u>Se</u> , <u>Ag</u> , S, <u>Tl</u> , <u>U</u> , <b>Zn</b> , <b>Zr</b>
Flat Creek	KV47	Al, Sb, As, Ba, <b>Cd</b> , Ca, Conductivity, Hardness, Fe, Mg, <b>Mn</b> , P, <b>Se</b> , Si, <b>Ag</b> , Sr, S, Tl, Sn, TSS, <u>U</u> , <b>Zn</b> , <b>Zr</b>
	KV9	Ba, HCO <sub>3</sub> , Ca, Conductivity, Hardness, Fe, Pb, Mg, <u>Hg</u> , NO <sub>2</sub> , <u>P</u> , Ag, <b>SO<sub>4</sub></b> , S, Sn, Zn, Zr
South McQuesten River	KV2	Ba, Conductivity, Fe, <u>Hg</u> , NO <sub>2</sub> , Se, Ag, Sn, U, Zr
	KV3	Ba, <u>Hg</u> , NO <sub>2</sub> , <u>P</u> , <b>Ag</b> , Sn, U, Zr
	KV4	Ba, Conductivity, Fe, <u>Hg</u> , NO <sub>2</sub> , <u>P</u> , Ag, Sn, U, Zn, Zr
	KV5	Ba, Conductivity, NO <sub>2</sub> , <u>P</u> , Ag, Sn, Zr
	KV15	Sb, As, Ba, Conductivity, Fe, NO <sub>2</sub> , Ag, Sn, TSS, Zr

Parameters for which the station median values also exceeded both background and guideline values are in **bold**.

Parameters for which 50% or more of samples are below the method detection limit but above the guideline value are underlined.

**Table 3: Receiving Environment Station (1994-2007) Parameters for which a Guideline Exists and more than 10% of Samples Exceeded both Guideline and Background Values.**

Watercourse	Station	Parameter
Lightning Creek	KV39	As, Cd, Pb, NO <sub>2</sub> , <u>P</u> , Zn
	KV40	Ba, <u>NO<sub>2</sub></u> , <u>Se</u> , <u>Ag</u> , <u>Tl</u> , <u>U</u> , <u>Zr</u>
	KV38	NO <sub>2</sub> , <u>P</u> , Ag, Zr
	KV41	Al, As, Fe, Pb, Hg, NO <sub>2</sub> , <u>P</u> , Se, Ag, Zn, Zr
Christal Creek	KV6	As, <b>Cd</b> , CN, Fe, <b>Pb</b> , Mn, Hg, NO <sub>2</sub> , Se, <b>Ag</b> , <b>SO<sub>4</sub></b> , <b>U</b> , <b>Zn</b> , Zr
	KV16	As, <b>Cd</b> , Fe, Pb, Mn, NO <sub>2</sub> , <b>P</b> , Se, Ag, <b>SO<sub>4</sub></b> , <b>U</b> , <b>Zn</b> , Zr
	KV29	Al, As, Ba, <b>Cd</b> , Co, Cu, Fe, Pb, <b>Mn</b> , Hg, NO <sub>2</sub> , P, Se, Ag, <b>SO<sub>4</sub></b> , U, V, <b>Zn</b> , Zr
	KV30	Al, As, <b>Cd</b> , Fe, Pb, <b>Mn</b> , Hg, NO <sub>2</sub> , P, Se, Ag, <b>SO<sub>4</sub></b> , U, <b>Zn</b> , Zr
	KV7	Cd, CN, Fe, Mg, <u>Hg</u> , NO <sub>2</sub> , Se, Ag, <b>SO<sub>4</sub></b> , U, <b>Zn</b> , Zr
	KV8	Cd, Fe, Pb, Hg, NO <sub>2</sub> , <u>P</u> , Se, <b>Ag</b> , <b>SO<sub>4</sub></b> , <b>Zn</b> , Zr
No Cash Creek	KV21	<b>Al</b> , <b>Cd</b> , Fe, <b>Pb</b> , <b>Mn</b> , <u>NO<sub>2</sub></u> , <u>Se</u> , <u>Ag</u> , <u>Tl</u> , <u>U</u> , <b>Zn</b> , <u>Zr</u>
Flat Creek	KV47	Al, Sb, As, Ba, <b>Cd</b> , Fe, <b>Mn</b> , P, <b>Se</b> , <b>Ag</b> , <u>Tl</u> , <u>U</u> , <b>Zn</b> , <u>Zr</u>
	KV9	Ba, Fe, Pb, <u>Hg</u> , NO <sub>2</sub> , <u>P</u> , Ag, <b>SO<sub>4</sub></b> , Zn, Zr
South McQuesten River	KV2	Ba, Fe, <u>Hg</u> , NO <sub>2</sub> , Se, Ag, U, Zr
	KV3	Ba, <u>Hg</u> , NO <sub>2</sub> , <u>P</u> , <b>Ag</b> , U, Zr
	KV4	Ba, Fe, <u>Hg</u> , NO <sub>2</sub> , <u>P</u> , Ag, U, Zn, Zr
	KV5	Ba, NO <sub>2</sub> , <u>P</u> , Ag, Zr
	KV15	Sb, As, Ba, Fe, <u>NO<sub>2</sub></u> , Ag, Zr

Parameters for which the station median values also exceeded both background and guideline values are in **bold**.

Parameters for which 50% or more of samples are below the method detection limit but above the guideline value are underlined.

**Table 4: Receiving Environment Station (1994-2007) Parameters for which a Guideline Exists and where the Median Exceeded both Background and Guideline.**

Watercourse	Station	Parameter
Lightning Creek	KV39	As, Cd, <u>P</u> , Zn
	KV40	Ba, <u>Se</u> , <u>Ag</u> , <u>Tl</u> , <u>U</u>
	KV38	
	KV41	
Christal Creek	KV6	Cd, Pb, Ag, SO <sub>4</sub> , U, Zn
	KV16	Cd, P, SO <sub>4</sub> , Zn
	KV29	Cd, Mn, SO <sub>4</sub> , Zn
	KV30	Cd, Mn, SO <sub>4</sub> , Zn
	KV7	SO <sub>4</sub> , Zn
	KV8	Ag, SO <sub>4</sub> , Zn
No Cash Creek	KV21	Al, Cd, Pb, Mn, <u>Se</u> , <u>Ag</u> , <u>Tl</u> , <u>U</u> , Zn
Flat Creek	KV47	Cd, Fe, Mn, Se, Ag, <u>U</u> , Zn, <u>Zr</u>
	KV9	SO <sub>4</sub>
South McQuesten River	KV2	
	KV3	Ag
	KV4	
	KV5	
	KV15	

Parameters for which 50% or more of samples are below the method detection limit but above the guideline value are underlined.



**Table 5: Receiving Environment Station (1994-2007) Parameters where the Median Exceeded Either Background or Guideline (Whichever is Higher) by a Factor Greater than 5.**

Watercourse	Station	Parameter
Lightning Creek	KV39	
	KV40	<u>Se, Ag, U</u>
	KV38	
	KV41	
Christal Creek	KV6	
	KV16	
	KV29	Cd, SO <sub>4</sub> , Zn
	KV30	
	KV7	
	KV8	
No Cash Creek	KV21	Al, Cd, <u>Se, Ag, U</u> , Zn
Flat Creek	KV47	<u>Se, Ag, U</u>
	KV9	
South McQuesten River	KV2	
	KV3	
	KV4	
	KV5	
	KV15	

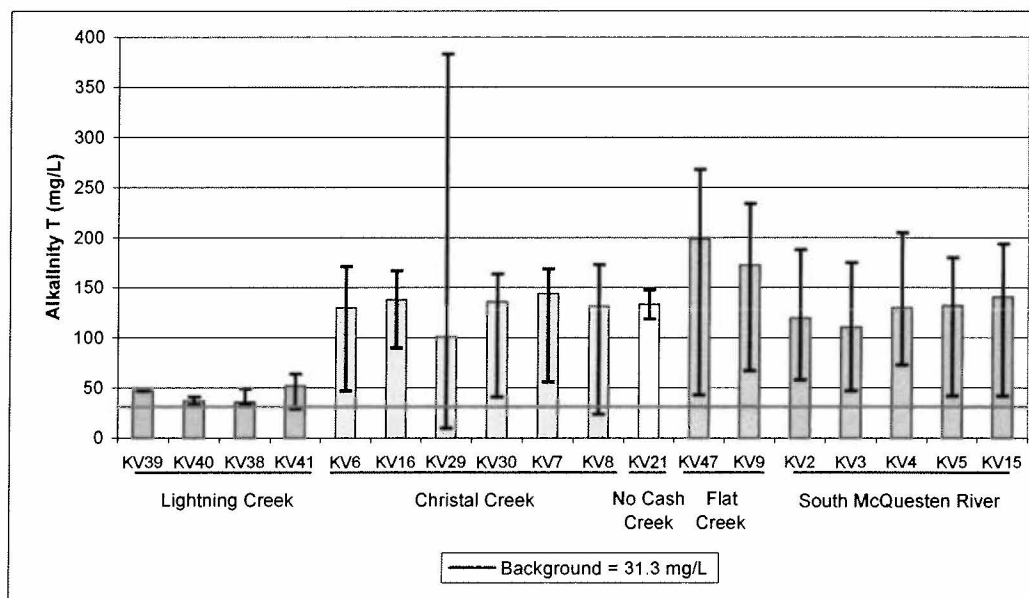
Parameters for which 50% or more of samples are below the method detection limit but above the guideline value are underlined.

**APPENDIX A**

**SUMMARY DATA BY PARAMETER**

**Table A.1: Total Alkalinity (mg/L CaCO<sub>3</sub>) Summary Statistics for Receiving Environment Stations, 1994-2007.**

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	1	47	47	-	47	47	0
KV40	0	0	2	38	38	5	34	41	0
KV38	0	0	7	39	36	6	34	49	0
KV41	0	7	15	50	52	10	29	64	0
KV6	0	0	39	125	130	26	47	171	0
KV16	0	0	29	134	138	18	90	167	0
KV29	0	10	29	103	101	68	10	383	0
KV30	0	0	29	129	136	30	41	164	0
KV7	0	0	44	137	145	28	56	169	0
KV8	3	0	32	145	132	37	24	173	0
KV21	0	0	2	134	134	21	119	148	0
KV47	0	0	12	172	199	73	43	268	0
KV9	0	0	21	165	173	51	67	234	0
KV2	0	0	45	126	120	32	58	188	0
KV3	0	0	24	117	111	32	47	175	0
KV4	0	0	21	132	130	36	73	205	0
KV5	0	0	28	127	132	36	42	180	0
KV15	0	0	14	130	141	49	42	194	0



**Figure A.1: Alkalinity (mg/L CaCO<sub>3</sub>) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**

Table A.2: Aluminum (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.013	0.013	0.008	0.008	0.02	0
KV40	0	0	0	2	0.009	0.009	0.001	0.008	0.01	1
KV38	0	0	0	10	0.022	0.011	0.027	0.005	0.09	4
KV41	0	43	29	14	0.390	0.087	0.543	0.019	1.80	0
KV6	0	26	2	47	0.090	0.020	0.156	0.005	0.76	12
KV16	0	39	10	41	0.218	0.070	0.361	0.005	1.55	4
KV29	0	56	29	45	1.375	0.140	3.153	0.007	15.30	3
KV30	0	45	18	40	0.331	0.070	0.532	0.008	2.15	1
KV7	0	20	5	41	0.096	0.029	0.190	0.008	0.87	4
KV8	0	22	0	37	0.014	0.074	0.126	0.005	0.61	7
KV21	0	100	50	2	5.092	5.092	6.941	0.184	10.00	0
KV47	0	67	33	9	0.518	0.490	0.468	0.009	1.28	1
KV9	0	0	0	16	0.013	0.010	0.009	0.005	0.03	7
KV2	0	30	0	37	0.087	0.055	0.098	0.010	0.39	3
KV3	0	32	0	22	0.082	0.055	0.077	0.010	0.32	0
KV4	0	36	0	14	0.080	0.085	0.058	0.006	0.18	0
KV5	0	17	0	29	0.061	0.034	0.080	0.005	0.40	0
KV15	0	8	0	13	0.049	0.021	0.051	0.005	0.18	1

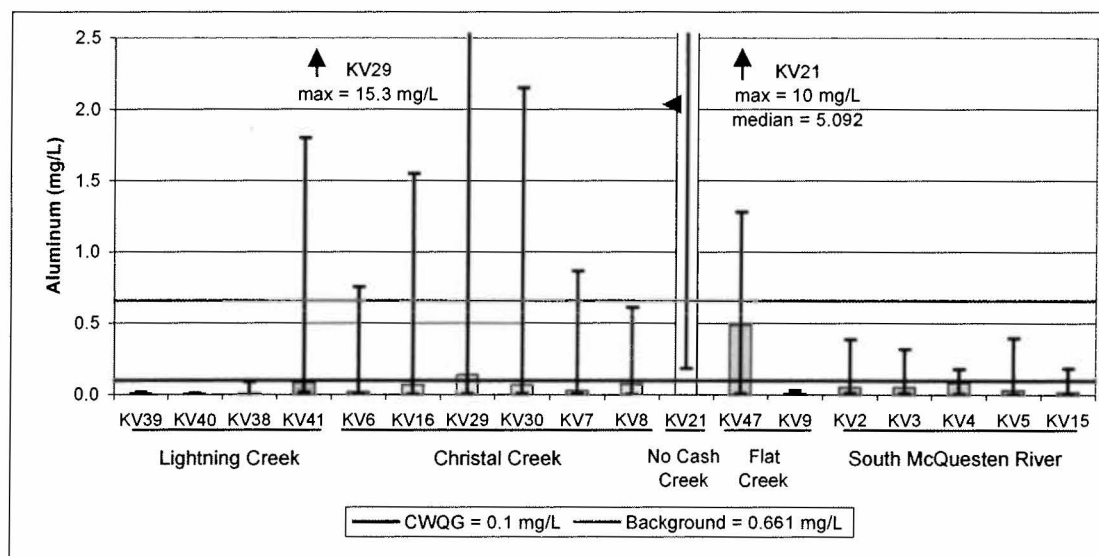
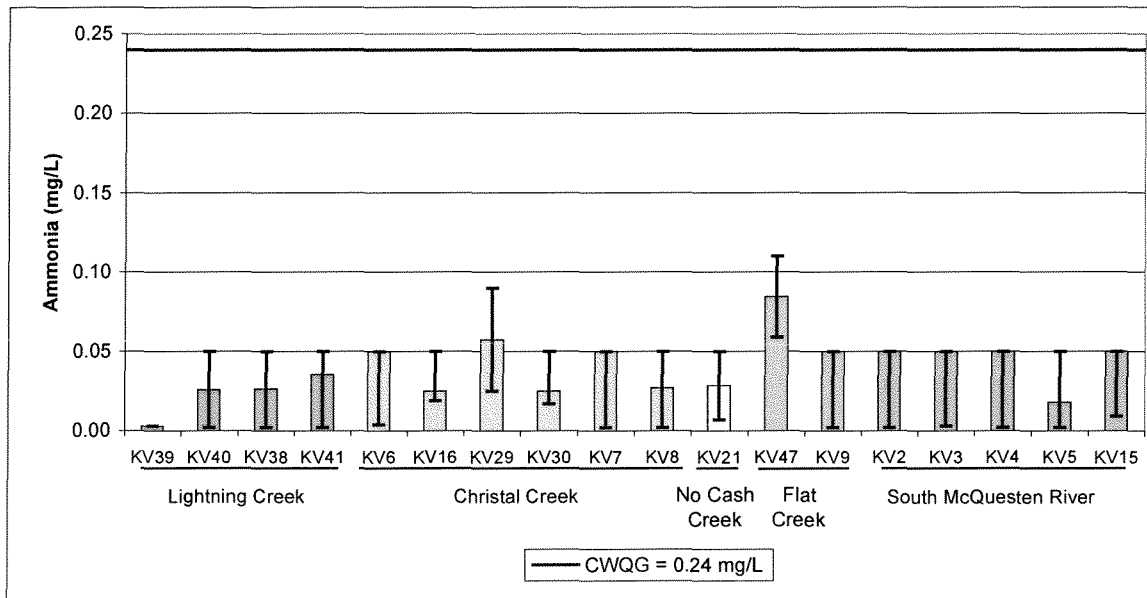


Figure A.2: Aluminum (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

**Table A.3: Ammonia (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.**

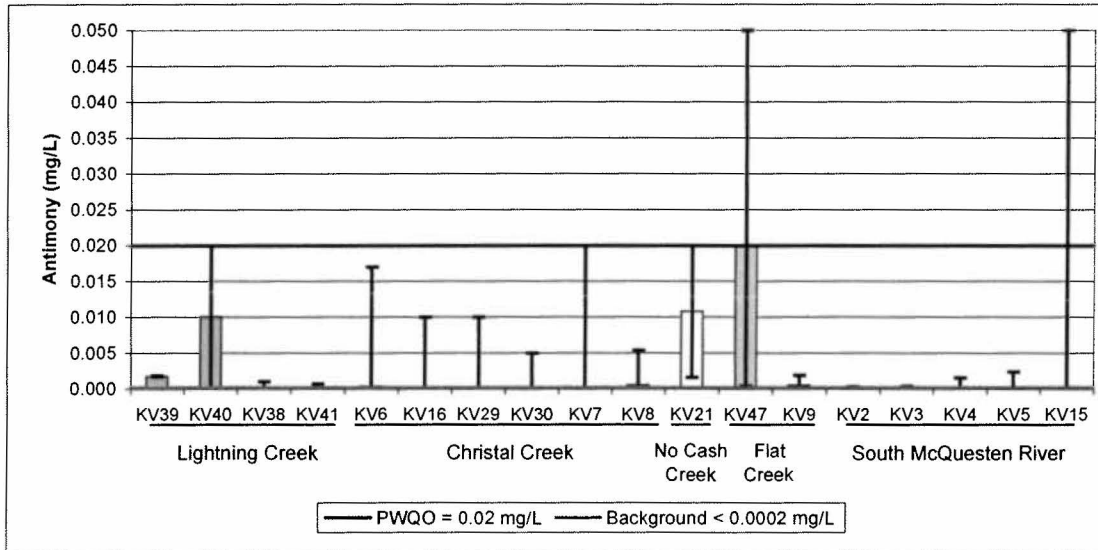
Station	% < DL, > CWQG	% > DL, > CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	1	0.003	0.003	-	0.003	0.003	0
KV40	0	0	2	0.026	0.026	0.034	0.002	0.050	2
KV38	0	0	4	0.026	0.027	0.027	0.002	0.050	3
KV41	0	0	6	0.030	0.036	0.023	0.002	0.050	4
KV6	0	0	7	0.032	0.050	0.022	0.004	0.050	3
KV16	0	0	3	0.031	0.025	0.016	0.019	0.050	0
KV29	0	0	2	0.058	0.058	0.046	0.025	0.090	0
KV30	0	0	3	0.031	0.025	0.017	0.017	0.050	0
KV7	0	0	7	0.030	0.050	0.025	0.002	0.050	5
KV8	0	0	6	0.029	0.027	0.025	0.002	0.050	4
KV21	0	0	2	0.029	0.029	0.030	0.007	0.050	1
KV47	0	0	2	0.085	0.085	0.036	0.059	0.110	0
KV9	0	0	9	0.032	0.050	0.023	0.002	0.050	6
KV2	0	0	7	0.032	0.050	0.023	0.002	0.050	4
KV3	0	0	5	0.033	0.050	0.024	0.003	0.050	3
KV4	0	0	7	0.032	0.050	0.023	0.002	0.050	5
KV5	0	0	5	0.026	0.018	0.023	0.002	0.050	2
KV15	0	0	3	0.036	0.050	0.024	0.009	0.050	1



**Figure A.3: Ammonia (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**

**Table A.4: Antimony (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.**

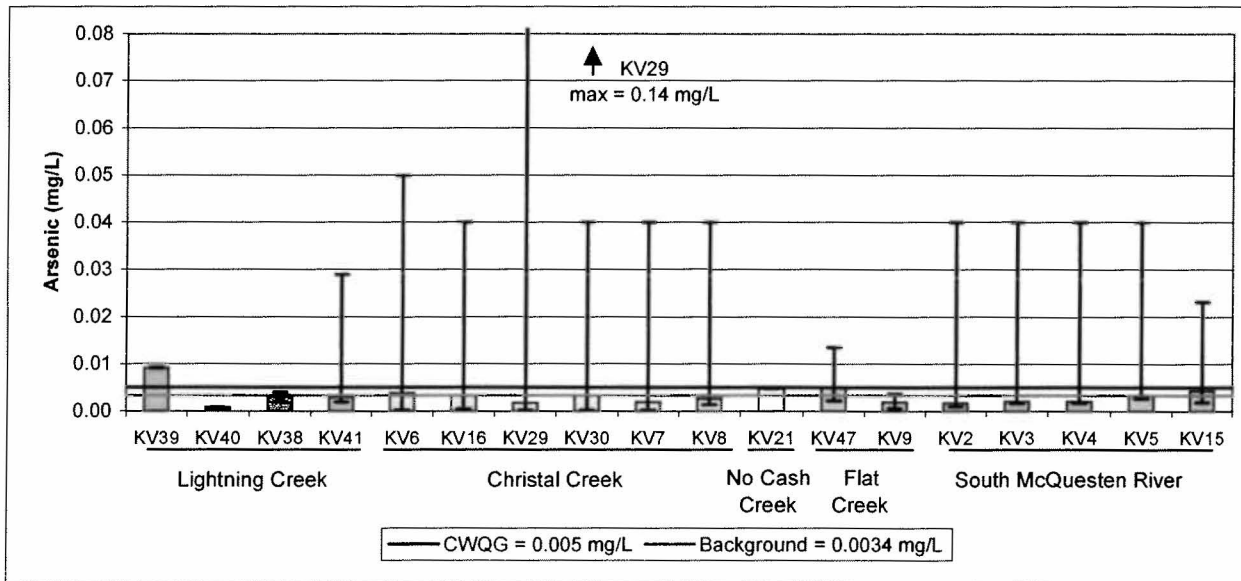
Station	% < DL, > PWQO	% > DL, > PWQO	% >Background, >PWQO	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.0018	0.0018	0.0001	0.0017	0.0019	0
KV40	0	0	0	2	0.0101	0.0101	0.0140	0.0002	0.0200	2
KV38	0	0	0	9	0.0004	0.0003	0.0002	0.0002	0.0010	1
KV41	0	0	0	11	0.0004	0.0003	0.0002	0.0002	0.0007	0
KV6	0	0	0	36	0.0012	0.0004	0.0029	0.0002	0.0170	6
KV16	0	0	0	36	0.0006	0.0003	0.0016	0.0002	0.0100	8
KV29	0	0	0	38	0.0007	0.0002	0.0018	0.0002	0.0100	25
KV30	0	0	0	34	0.0005	0.0003	0.0008	0.0002	0.0050	6
KV7	0	0	0	38	0.0011	0.0003	0.0034	0.0002	0.0200	12
KV8	0	0	0	33	0.0004	0.0006	0.0009	0.0002	0.0054	2
KV21	0	0	0	2	0.0108	0.0108	0.0130	0.0016	0.0200	1
KV47	0	31	31	13	0.0250	0.0200	0.0189	0.0004	0.0500	3
KV9	0	0	0	12	0.0008	0.0006	0.0005	0.0002	0.0019	1
KV2	0	0	0	26	0.0002	0.0002	0.0000	0.0001	0.0003	24
KV3	0	0	0	12	0.0002	0.0002	0.0001	0.0002	0.0004	10
KV4	0	0	0	11	0.0004	0.0002	0.0004	0.0002	0.0016	5
KV5	0	0	0	22	0.0004	0.0002	0.0005	0.0002	0.0024	16
KV15	0	14	14	14	0.0074	0.0003	0.0180	0.0002	0.0500	3



**Figure A.4: Antimony (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**

**Table A.5: Arsenic (mg/L) Summary Statistics for Receiving Environment Stations, July 20, 2004-2007.**

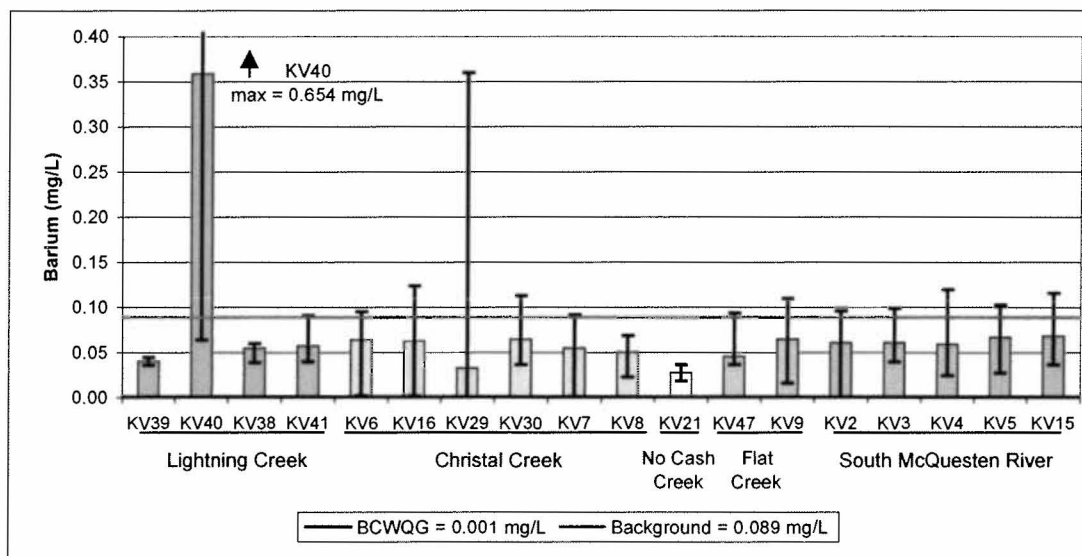
Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n<MDL
KV39	0	100	100	2	0.009	0.009	0.0001	0.0091	0.009	0
KV40	0	0	0	1	0.001	0.001	0.0000	0.0009	0.001	0
KV38	0	0	0	9	0.003	0.003	0.0006	0.0020	0.004	0
KV41	0	30	16	10	0.008	0.003	0.0105	0.0020	0.029	0
KV6	3	32	17	37	0.007	0.004	0.0104	0.0002	0.050	2
KV16	3	29	26	35	0.006	0.004	0.0070	0.0004	0.040	2
KV29	0	35	30	40	0.014	0.002	0.0340	0.0002	0.140	2
KV30	3	31	29	35	0.006	0.003	0.0072	0.0002	0.040	2
KV7	3	14	8	37	0.004	0.002	0.0069	0.0002	0.040	3
KV8	3	6	7	34	0.004	0.003	0.0066	0.0014	0.040	2
KV21	0	0	0	1	0.005	0.005	0.0000	0.0048	0.005	0
KV47	0	67	13	3	0.007	0.005	0.0059	0.0022	0.014	0
KV9	0	0	0	11	0.002	0.002	0.0013	0.0006	0.004	0
KV2	4	0	2	26	0.003	0.002	0.0075	0.0010	0.040	1
KV3	8	0	4	12	0.005	0.002	0.0109	0.0017	0.040	1
KV4	9	0	2	11	0.006	0.002	0.0114	0.0017	0.040	1
KV5	4	4	6	23	0.005	0.004	0.0076	0.0027	0.040	1
KV15	0	33	25	12	0.007	0.004	0.0073	0.0019	0.023	0



**Figure A.5: Arsenic (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**

**Table A.6: Barium (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.**

Station	% < DL, > BCWQG	% > DL, > BCWQG	% >Background, >BCWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	100	0	2	0.041	0.041	0.006	0.036	0.045	0
KV40	0	100	50	2	0.359	0.359	0.417	0.064	0.654	0
KV38	0	100	0	10	0.054	0.055	0.007	0.039	0.060	0
KV41	0	100	7	14	0.059	0.058	0.012	0.040	0.091	0
KV6	0	100	2	49	0.061	0.064	0.017	0.002	0.095	0
KV16	0	100	5	42	0.065	0.063	0.017	0.002	0.124	0
KV29	0	98	11	46	0.055	0.033	0.074	0.001	0.360	0
KV30	0	100	10	41	0.067	0.065	0.015	0.037	0.113	0
KV7	0	100	2	51	0.055	0.055	0.013	0.001	0.092	0
KV8	0	100	0	38	0.053	0.051	0.010	0.023	0.069	0
KV21	0	100	0	2	0.028	0.028	0.013	0.019	0.037	0
KV47	0	100	11	9	0.052	0.046	0.017	0.037	0.094	0
KV9	0	100	33	18	0.063	0.065	0.034	0.016	0.110	0
KV2	0	88	13	40	0.059	0.061	0.028	0.000	0.096	4
KV3	0	100	13	23	0.065	0.061	0.016	0.040	0.099	0
KV4	0	100	22	18	0.064	0.060	0.026	0.025	0.120	0
KV5	0	100	19	31	0.069	0.067	0.020	0.028	0.103	0
KV15	0	100	36	14	0.075	0.069	0.027	0.037	0.116	0



**Figure A.6: Barium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**



Table A.7: Beryllium (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > BCWQG	% > DL, > BCWQG	% >Background, >BCWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.0003	0.0003	0.0003	0.0001	0.0005	2
KV40	0	0	0	2	0.0004	0.0004	0.0004	0.0001	0.0006	2
KV38	0	0	0	10	0.0002	0.0001	0.0002	0.0001	0.0006	10
KV41	0	0	0	14	0.0003	0.0001	0.0003	0.0000	0.0010	12
KV6	0	0	0	50	0.0003	0.0001	0.0005	0.0001	0.0033	47
KV16	0	0	0	42	0.0002	0.0001	0.0002	0.0001	0.0011	39
KV29	0	2	2	46	0.0007	0.0001	0.0026	0.0001	0.0178	37
KV30	0	0	0	41	0.0003	0.0001	0.0004	0.0001	0.0022	40
KV7	0	0	0	50	0.0003	0.0001	0.0004	0.0000	0.0022	43
KV8	0	0	0	38	0.0001	0.0002	0.0002	0.0001	0.0010	38
KV21	0	0	0	2	0.0008	0.0008	0.0003	0.0006	0.0010	2
KV47	0	0	0	9	0.0004	0.0005	0.0002	0.0001	0.0006	6
KV9	0	0	0	18	0.0002	0.0001	0.0002	0.0000	0.0006	18
KV2	0	3	3	35	0.0004	0.0001	0.0011	0.0000	0.0067	34
KV3	0	0	0	23	0.0002	0.0002	0.0002	0.0000	0.0006	21
KV4	0	0	0	18	0.0003	0.0001	0.0003	0.0000	0.0010	14
KV5	0	0	0	31	0.0002	0.0001	0.0002	0.0001	0.0006	29
KV15	0	0	0	14	0.0002	0.0001	0.0002	0.0001	0.0006	14

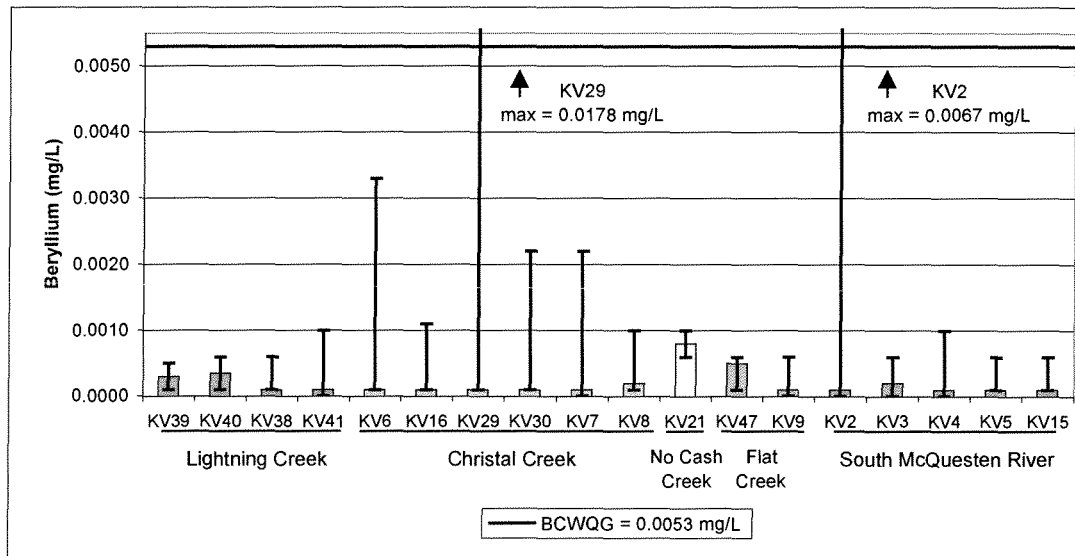


Figure A.7: Beryllium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.8: Bicarbonate (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	1	6	6	-	6	6	1
KV40	0	0	2	28	28	31	6	50	1
KV38	0	0	7	42	44	17	6	60	1
KV41	0	0	9	56	59	21	6	76	1
KV6	0	0	30	159	161	25	89	209	0
KV16	0	0	29	164	168	22	110	204	0
KV29	0	0	28	114	121	52	12	214	0
KV30	0	0	29	157	165	37	50	199	0
KV7	0	0	30	171	178	30	69	206	0
KV8	0	0	29	176	162	45	29	211	0
KV21	0	0	2	93	93	123	6	180	1
KV47	0	50	4	133	138	122	6	251	1
KV9	0	67	9	229	239	28	177	267	0
KV2	0	0	31	156	166	40	57	207	0
KV3	0	0	10	146	142	63	6	213	1
KV4	0	0	10	158	153	30	119	210	0
KV5	0	0	23	158	163	47	51	219	0
KV15	0	0	11	159	164	54	51	216	0

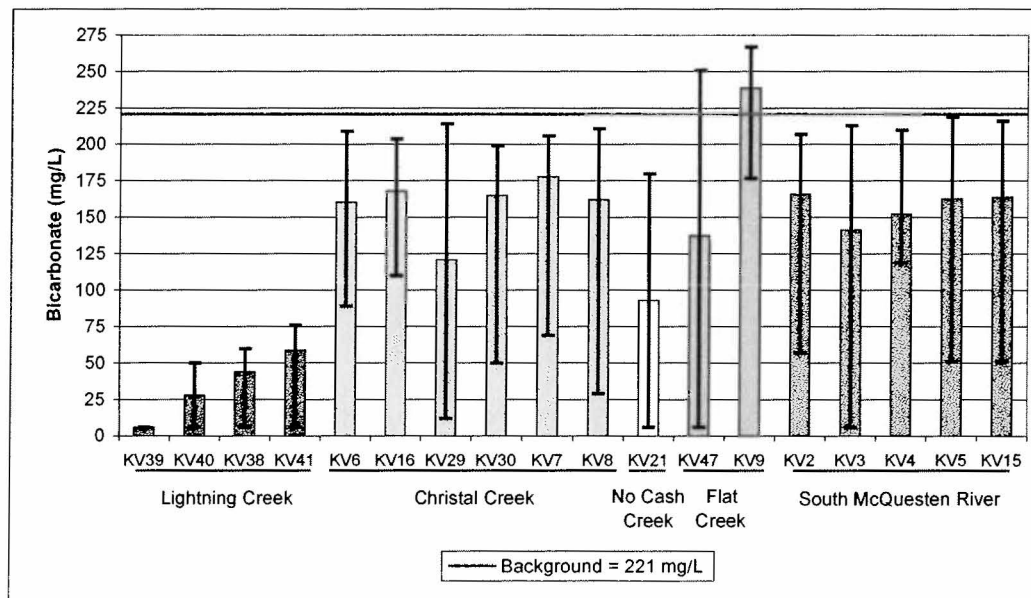


Figure A.8: Bicarbonate (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.9: Bismuth (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	na	na	2	0.0005	0.0005	0.00000	0.0005	0.0005	2
KV40	na	na	2	0.0103	0.0103	0.01379	0.0005	0.0200	2
KV38	na	na	9	0.0007	0.0005	0.00050	0.0005	0.0020	9
KV41	na	na	11	0.0005	0.0005	0.00002	0.0004	0.0005	10
KV6	na	na	35	0.0008	0.0005	0.00154	0.0001	0.0096	34
KV16	na	na	36	0.0005	0.0005	0.00013	0.0002	0.0010	35
KV29	na	na	37	0.0008	0.0005	0.00144	0.0002	0.0081	36
KV30	na	na	33	0.0005	0.0005	0.00017	0.0001	0.0010	33
KV7	na	na	36	0.0008	0.0005	0.00142	0.0001	0.0090	34
KV8	na	na	32	0.0005	0.0008	0.00138	0.0005	0.0083	31
KV21	na	na	2	0.0103	0.0103	0.01379	0.0005	0.0200	2
KV47	na	na	3	0.0007	0.0005	0.00029	0.0005	0.0010	3
KV9	na	na	12	0.0005	0.0005	0.00003	0.0004	0.0005	12
KV2	na	na	25	0.0005	0.0005	0.00008	0.0004	0.0009	23
KV3	na	na	12	0.0005	0.0005	0.00015	0.0004	0.0010	12
KV4	na	na	11	0.0005	0.0005	0.00003	0.0004	0.0005	11
KV5	na	na	22	0.0005	0.0005	0.00000	0.0005	0.0005	22
KV15	na	na	12	0.0005	0.0005	0.00012	0.0005	0.0009	11

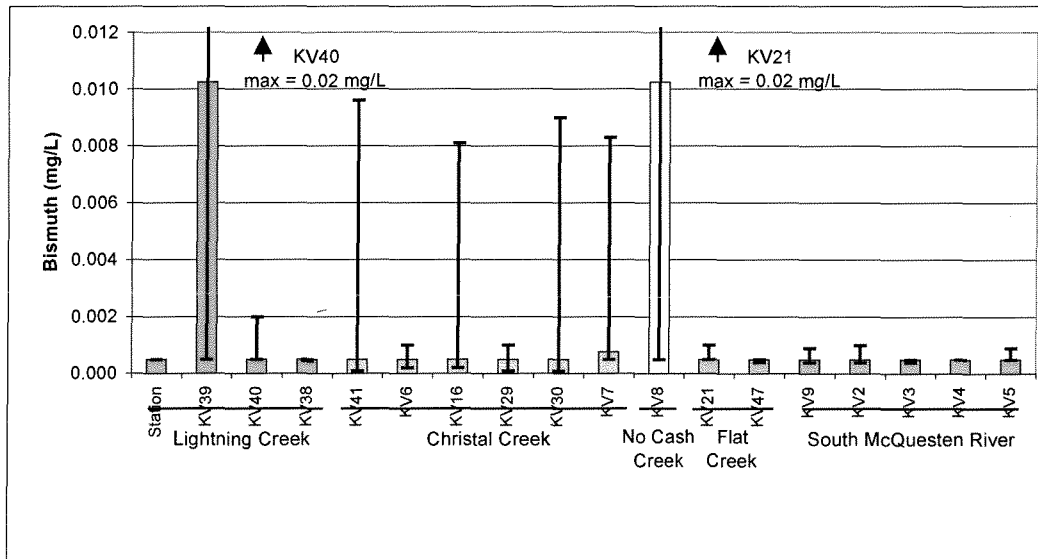


Figure A.9: Bismuth (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.10: Boron (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > PWQO	% > DL, > PWQO	% >Background, >PWQO	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.006	0.006	0.006	0.002	0.010	2
KV40	0	0	0	1	0.002	0.002	-	0.002	0.002	1
KV38	0	0	0	9	0.009	0.004	0.013	0.002	0.041	5
KV41	0	0	0	11	0.005	0.002	0.006	0.002	0.023	6
KV6	0	0	0	35	0.003	0.002	0.003	0.001	0.020	11
KV16	0	0	0	36	0.003	0.002	0.001	0.001	0.005	13
KV29	0	0	0	36	0.003	0.002	0.001	0.001	0.005	19
KV30	0	0	0	34	0.003	0.002	0.001	0.001	0.006	15
KV7	0	0	0	36	0.003	0.002	0.004	0.001	0.020	18
KV8	0	0	0	32	0.002	0.003	0.003	0.002	0.020	18
KV21	0	0	0	1	0.020	0.020	-	0.020	0.020	1
KV47	0	0	0	3	0.008	0.010	0.004	0.003	0.010	1
KV9	0	0	0	12	0.004	0.003	0.002	0.002	0.010	5
KV2	0	0	0	31	0.012	0.003	0.020	0.002	0.058	4
KV3	0	0	0	11	0.005	0.004	0.003	0.002	0.010	3
KV4	0	0	0	11	0.005	0.003	0.003	0.002	0.010	2
KV5	0	0	0	21	0.004	0.003	0.002	0.002	0.009	4
KV15	0	0	0	11	0.003	0.003	0.002	0.002	0.006	2

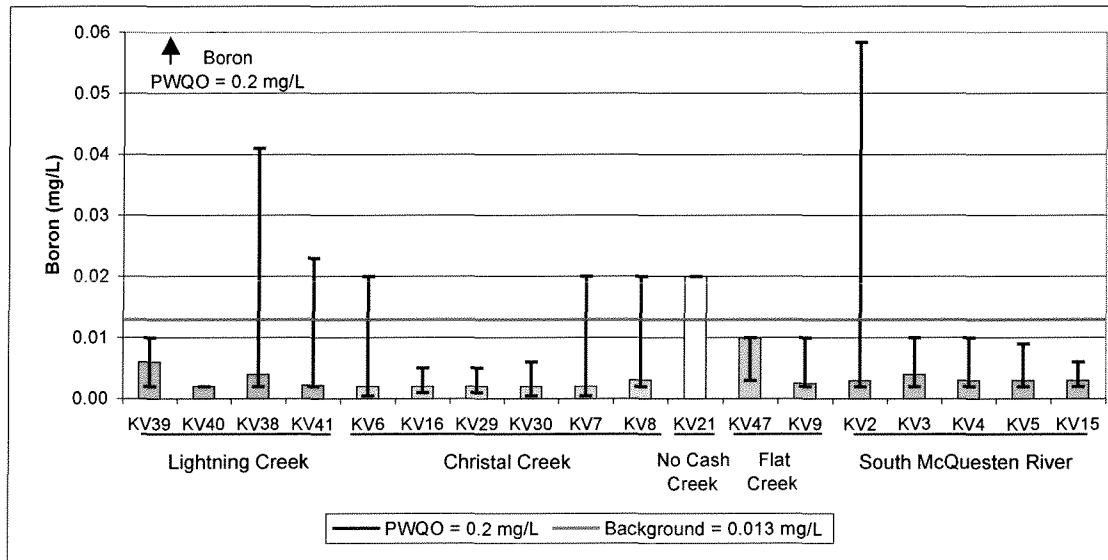
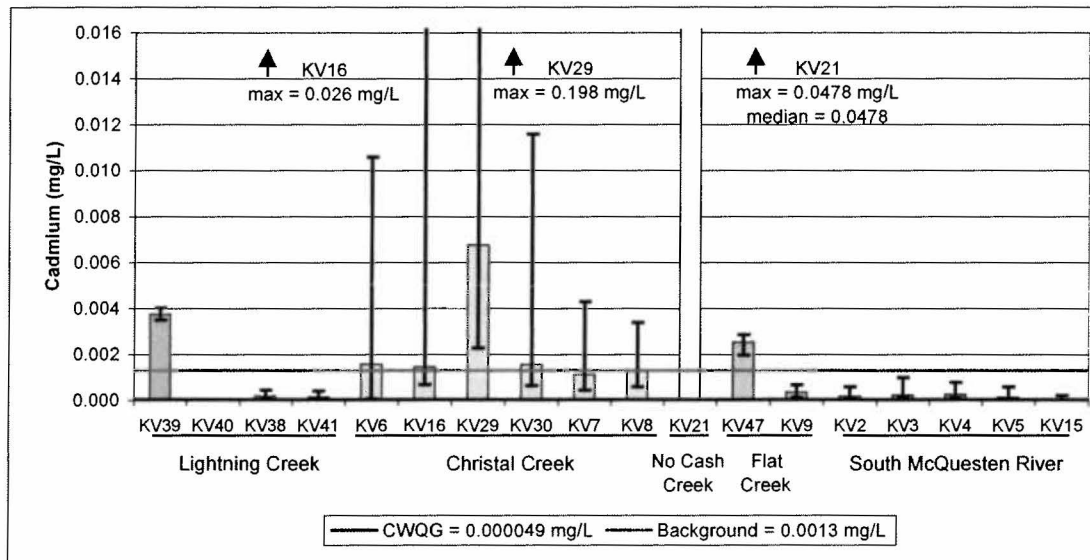


Figure A.10: Boron (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

**Table A.11: Cadmium (mg/L) Summary Statistics for Receiving Environment Stations, July 20, 2004-2007.**

Station	% < DL, > CWGQ	% > DL, > CWGQ	% >Background, >CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	100	100	2	0.00377	0.00377	0.00037	0.00350	0.00403	0
KV40	0	0	0	1	0.00004	0.00004	0.00000	0.00004	0.00004	0
KV38	0	100	0	9	0.00024	0.00020	0.00014	0.00008	0.00048	0
KV41	0	90	0	10	0.00020	0.00016	0.00012	0.00004	0.00042	0
KV6	0	100	25	37	0.00208	0.00159	0.00191	0.00008	0.01060	0
KV16	0	100	50	35	0.00239	0.00146	0.00420	0.00071	0.02600	0
KV29	0	100	87	40	0.02491	0.00677	0.04578	0.00229	0.19800	0
KV30	0	100	51	35	0.00233	0.00158	0.00217	0.00065	0.01160	0
KV7	0	100	16	37	0.00144	0.00113	0.00101	0.00046	0.00430	0
KV8	0	100	36	34	0.00154	0.00130	0.00080	0.00060	0.00340	0
KV21	0	100	50	1	0.04780	0.04780	0.00000	0.04780	0.04780	0
KV47	0	100	19	3	0.00247	0.00255	0.00045	0.00198	0.00287	0
KV9	0	100	0	11	0.00036	0.00036	0.00020	0.00014	0.00069	0
KV2	4	96	0	26	0.00022	0.00019	0.00011	0.00009	0.00060	1
KV3	0	100	0	12	0.00029	0.00025	0.00024	0.00013	0.00100	0
KV4	0	100	0	11	0.00033	0.00027	0.00020	0.00013	0.00080	0
KV5	4	87	0	23	0.00017	0.00015	0.00012	0.00003	0.00060	1
KV15	0	58	0	12	0.00009	0.00008	0.00007	0.00002	0.00023	0



**Figure A.11: Cadmium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**

Table A.12: Calcium (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	2	31	31	1.3	30	32	0
KV40	0	0	2	43	43	0.7	43	44	0
KV38	0	0	10	22	23	3.2	16	26	0
KV41	0	0	14	27	25	7.3	16	37	0
KV6	0	89	47	118	118	37	36	230	0
KV16	0	100	38	154	142	53	70	321	0
KV29	0	100	44	323	325	69	133	511	0
KV30	0	97	38	142	146	30	41	202	0
KV7	0	83	48	101	110	30	25	164	0
KV8	0	81	37	102	98	34	21	167	0
KV21	0	100	2	160	160	23	144	176	0
KV47	0	56	9	100	116	58	28	176	0
KV9	0	72	18	79	89	25	36	114	0
KV2	0	8	38	50	47	14	21	80	0
KV3	0	9	23	50	49	12	26	71	0
KV4	0	6	18	56	53	18	32	107	0
KV5	0	3	29	51	51	14	20	73	0
KV15	0	0	13	48	48	15	20	69	0

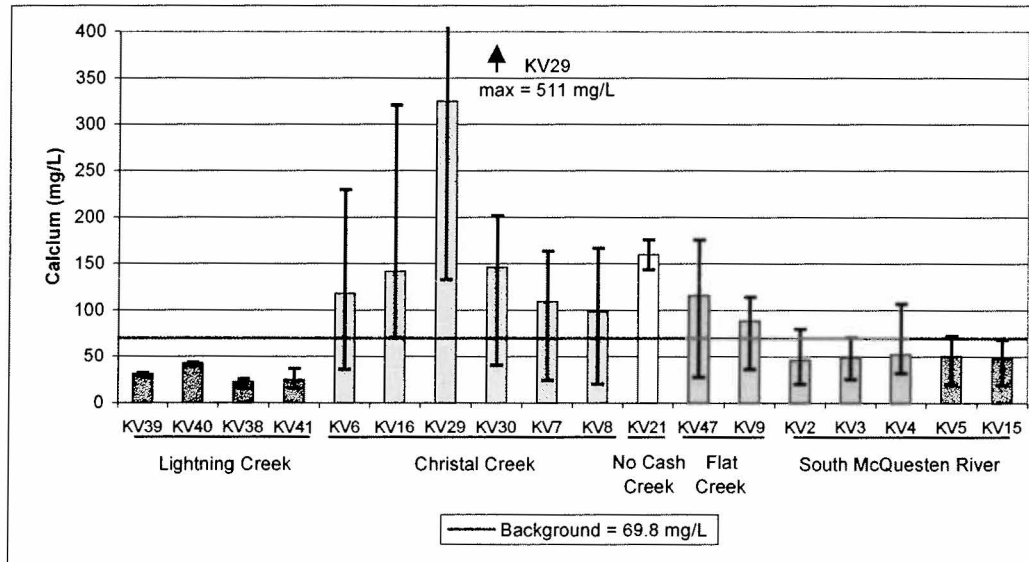


Figure A.12: Calcium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.13: Carbonate (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	na	na	1	58	58	-	58	58	0
KV40	na	na	2	24	24	25	6	41	1
KV38	na	na	6	6	6	0	6	6	6
KV41	na	na	9	6	6	0	6	6	9
KV6	na	na	32	6	6	0	6	6	31
KV16	na	na	30	6	6	0	6	6	30
KV29	na	na	29	6	6	0	6	6	28
KV30	na	na	29	6	6	0	6	6	29
KV7	na	na	33	6	6	0	6	6	31
KV8	na	na	29	6	6	0	6	6	29
KV21	na	na	2	76	76	98	6	145	1
KV47	na	na	4	6	6	0	6	6	3
KV9	na	na	11	6	6	0	6	6	11
KV2	na	na	33	6	6	0	6	6	32
KV3	na	na	11	6	6	0	6	6	11
KV4	na	na	12	6	6	0	6	6	12
KV5	na	na	24	6	6	0	6	6	23
KV15	na	na	11	6	6	0	6	6	11

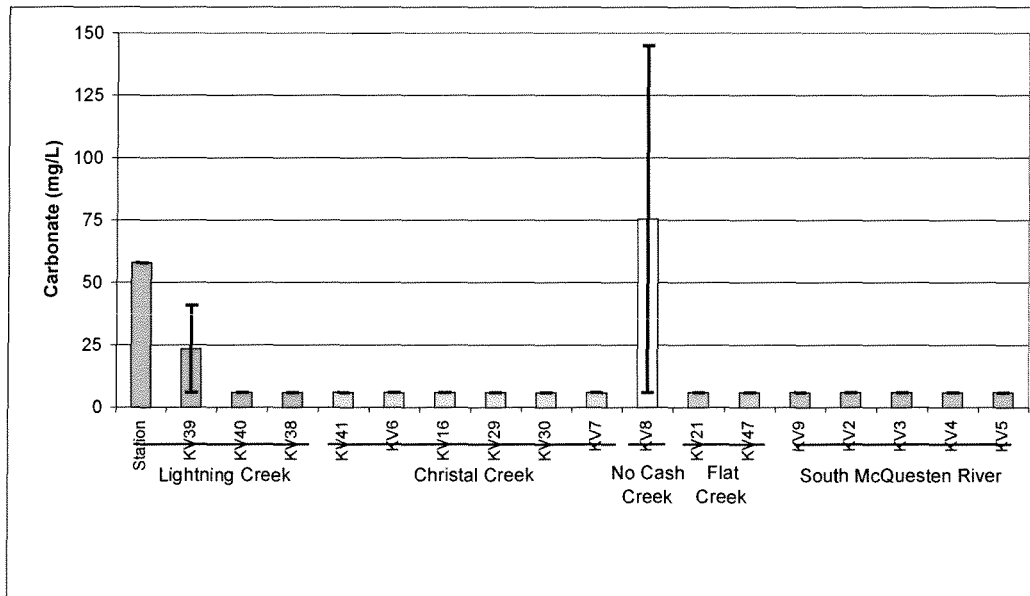
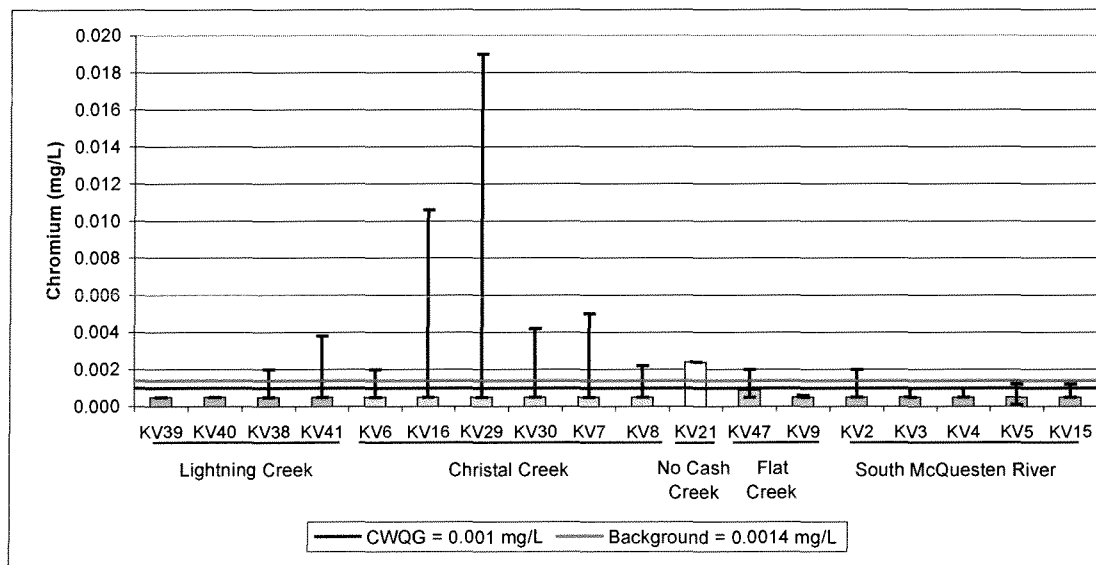


Figure A.13: Carbonate (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

**Table A.14: Chromium (mg/L) Summary Statistics for Receiving Environment Stations, July 20, 2004-2007.**

Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.0005	0.0005	0.00000	0.0005	0.0005	2
KV40	0	0	0	1	0.0005	0.0005	0.00000	0.0005	0.0005	1
KV38	0	0	0	9	0.0007	0.0005	0.00050	0.0005	0.0020	9
KV41	0	0	0	10	0.0011	0.0005	0.00109	0.0005	0.0038	5
KV6	0	0	0	36	0.0007	0.0005	0.00037	0.0005	0.0020	22
KV16	0	3	2	36	0.0011	0.0005	0.00172	0.0005	0.0106	26
KV29	0	3	2	39	0.0020	0.0005	0.00329	0.0005	0.0190	22
KV30	0	0	0	34	0.0009	0.0005	0.00077	0.0005	0.0042	23
KV7	0	0	0	36	0.0009	0.0005	0.00088	0.0005	0.0050	28
KV8	0	0	0	33	0.0007	0.0005	0.00041	0.0005	0.0022	24
KV21	0	0	0	1	0.0024	0.0024	0.00000	0.0024	0.0024	0
KV47	0	0	0	3	0.0011	0.0009	0.00078	0.0005	0.0020	1
KV9	0	0	0	11	0.0005	0.0005	0.00003	0.0005	0.0006	10
KV2	0	0	0	26	0.0006	0.0005	0.00031	0.0005	0.0020	24
KV3	0	0	0	12	0.0006	0.0005	0.00019	0.0005	0.0010	11
KV4	0	0	0	11	0.0005	0.0005	0.00015	0.0005	0.0010	11
KV5	0	0	0	23	0.0005	0.0005	0.00020	0.0001	0.0012	21
KV15	0	0	0	12	0.0006	0.0005	0.00020	0.0005	0.0012	11

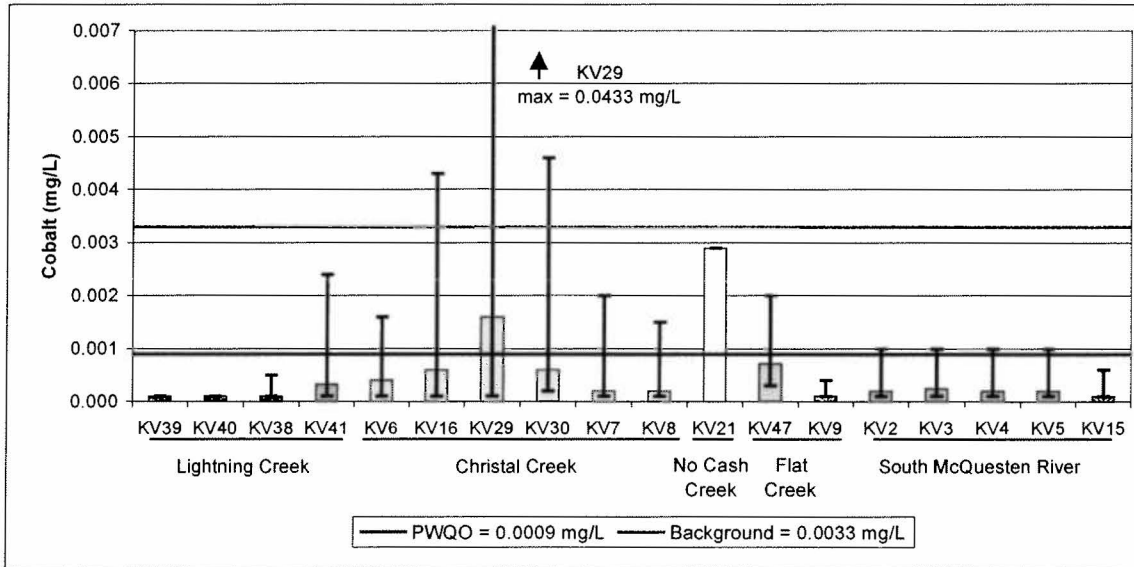


**Figure A.14: Chromium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**



**Table A.15: Cobalt (mg/L) Summary Statistics for Receiving Environment Stations, July 20, 2004-2007.**

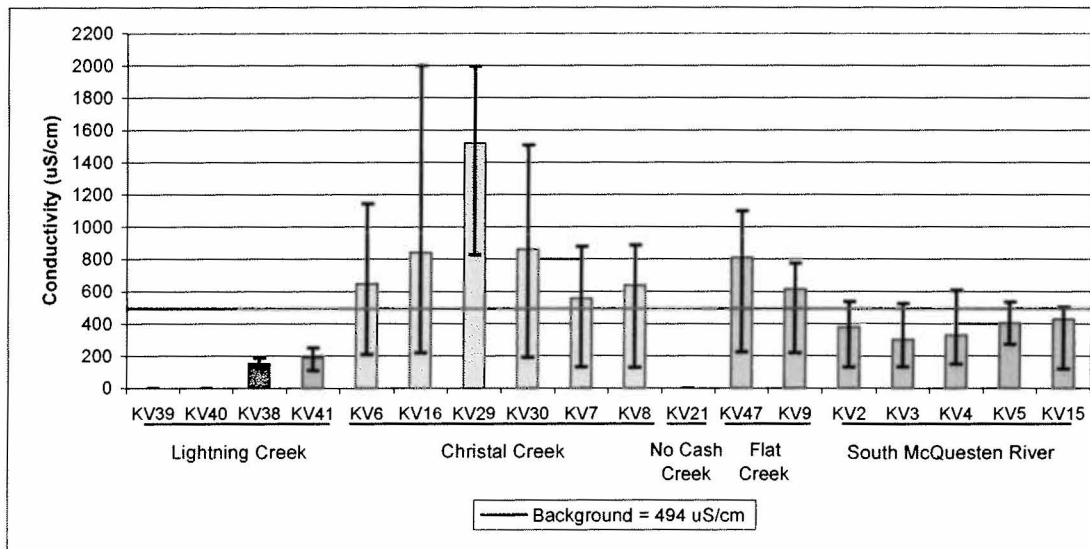
Station	% < DL, > PWQO	% > DL, > PWQO	% >Background, >PWQO	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.0001	0.0001	0.0000	0.0001	0.0001	2
KV40	0	0	0	1	0.0001	0.0001	0.0000	0.0001	0.0001	1
KV38	0	0	0	9	0.0001	0.0001	0.0001	0.0001	0.0005	7
KV41	0	20	0	10	0.0007	0.0003	0.0008	0.0001	0.0024	3
KV6	5	8	0	37	0.0005	0.0004	0.0003	0.0001	0.0016	4
KV16	3	17	2	35	0.0008	0.0006	0.0008	0.0001	0.0043	2
KV29	3	51	24	39	0.0040	0.0016	0.0079	0.0001	0.0433	9
KV30	3	26	2	35	0.0009	0.0006	0.0009	0.0002	0.0046	1
KV7	6	6	0	36	0.0004	0.0002	0.0004	0.0001	0.0020	10
KV8	6	3	0	34	0.0003	0.0002	0.0003	0.0001	0.0015	13
KV21	0	100	0	1	0.0029	0.0029	0.0000	0.0029	0.0029	0
KV47	0	33	0	3	0.0010	0.0007	0.0009	0.0003	0.0020	0
KV9	0	0	0	11	0.0001	0.0001	0.0001	0.0001	0.0004	8
KV2	4	8	0	26	0.0004	0.0002	0.0003	0.0001	0.0010	4
KV3	8	0	0	12	0.0004	0.0003	0.0003	0.0001	0.0010	2
KV4	9	0	0	11	0.0004	0.0002	0.0003	0.0001	0.0010	2
KV5	5	0	0	22	0.0003	0.0002	0.0002	0.0001	0.0010	5
KV15	0	0	0	12	0.0002	0.0001	0.0001	0.0001	0.0006	4



**Figure A.15: Cobalt (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**

**Table A.16: Conductivity (uS/cm) Summary Statistics for Receiving Environment Stations, 1994-2007.**

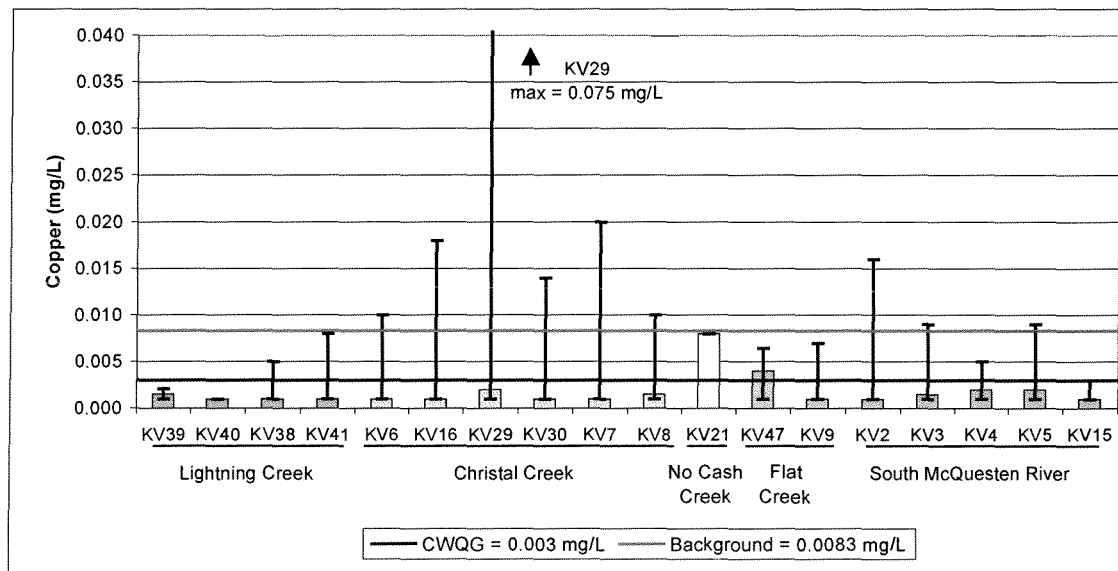
Station	% > Background	n	mean	median	stdev	min	max	n <MDL
KV39	-	-	-	-	-	-	-	-
KV40	-	-	-	-	-	-	-	-
KV38	0	7	151	154	21	129	188	0
KV41	0	18	186	191	44	112	251	0
KV6	74	76	637	649	208	210	1145	0
KV16	96	27	892	842	328	220	1999	0
KV29	100	32	1487	1521	317	829	1995	0
KV30	88	34	808	862	260	191	1509	0
KV7	58	80	529	558	187	133	880	0
KV8	81	36	690	639	186	127	888	0
KV21	-	-	-	-	-	-	-	-
KV47	0	12	717	810	331	226	1100	0
KV9	81	21	574	615	157	220	775	0
KV2	15	46	366	379	107	130	538	0
KV3	10	21	331	303	100	133	526	0
KV4	14	49	338	330	126	150	610	0
KV5	12	25	396	405	80	274	535	0
KV15	13	8	379	429	132	120	504	0



**Figure A.16: Conductivity (uS/cm) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**

**Table A.17: Copper (mg/L) Summary Statistics for Receiving Environment Stations, July 20, 2004-2007.**

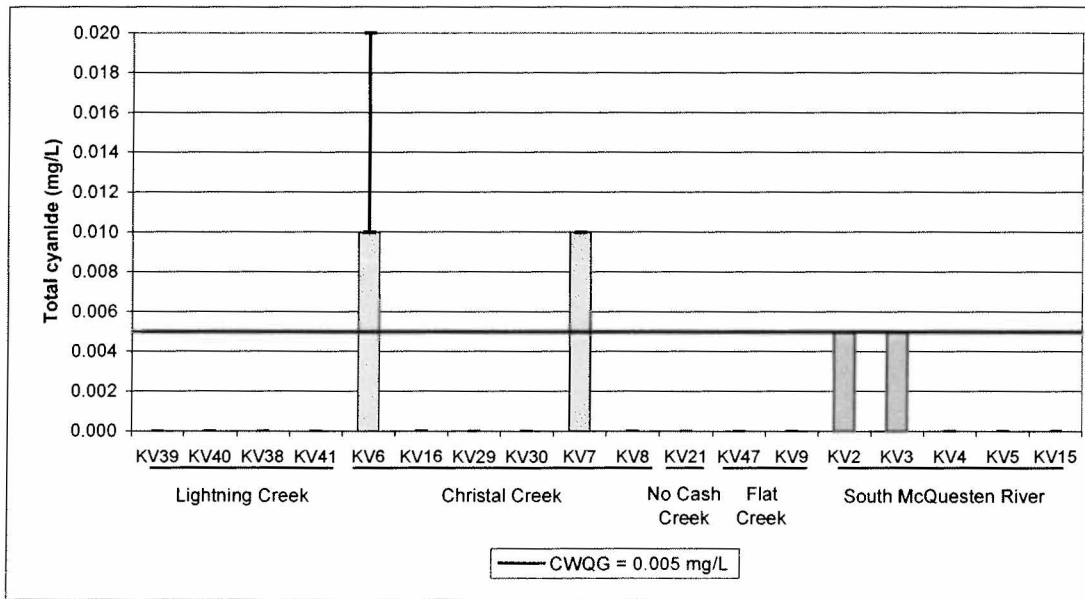
Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.002	0.002	0.001	0.001	0.002	1
KV40	0	0	0	1	0.001	0.001	0.000	0.001	0.001	1
KV38	11	0	0	9	0.002	0.001	0.001	0.001	0.005	7
KV41	0	30	0	10	0.003	0.001	0.003	0.001	0.008	4
KV6	3	8	1	36	0.002	0.001	0.002	0.001	0.010	20
KV16	3	11	5	36	0.003	0.001	0.004	0.001	0.018	16
KV29	5	36	18	39	0.006	0.002	0.012	0.001	0.075	4
KV30	3	23	5	35	0.003	0.001	0.003	0.001	0.014	16
KV7	3	22	4	37	0.003	0.001	0.004	0.001	0.020	17
KV8	3	15	2	34	0.002	0.002	0.002	0.001	0.010	13
KV21	0	100	0	1	0.008	0.008	0.000	0.008	0.008	0
KV47	0	67	0	3	0.004	0.004	0.003	0.001	0.006	1
KV9	0	18	0	11	0.002	0.001	0.002	0.001	0.007	1
KV2	0	8	2	26	0.002	0.001	0.003	0.001	0.016	7
KV3	8	33	4	12	0.003	0.002	0.002	0.001	0.009	5
KV4	0	18	0	11	0.002	0.002	0.001	0.001	0.005	3
KV5	0	9	3	22	0.002	0.002	0.002	0.001	0.009	5
KV15	0	0	0	12	0.001	0.001	0.001	0.001	0.003	3



**Figure A.17: Copper (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**

**Table A.18: Total Cyanide (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.**

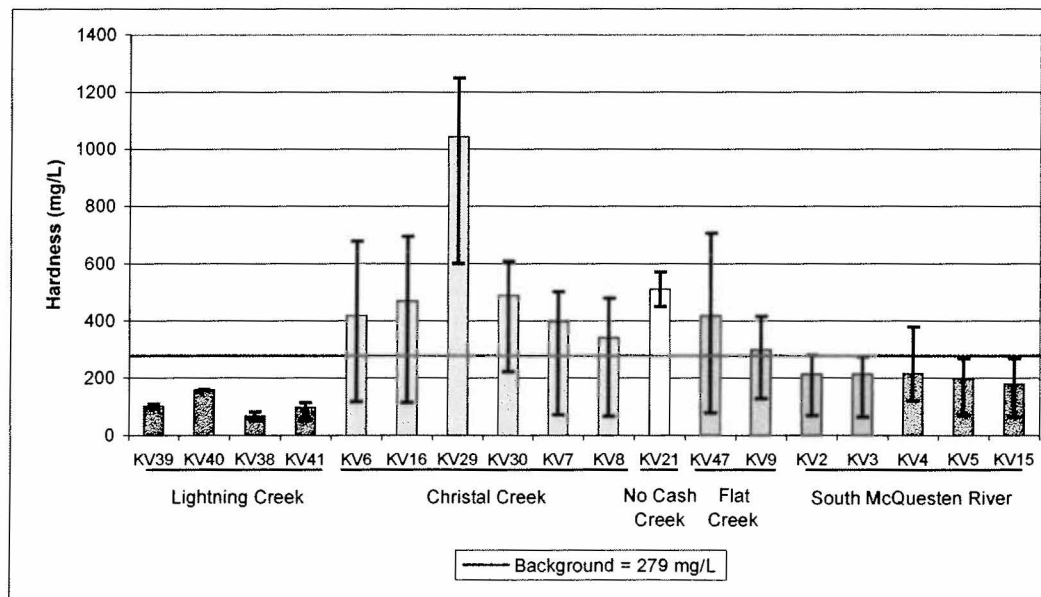
Station	% < DL, > CWQG	% > DL, > CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	-	-	-	-	-	-	-	-	-
KV40	-	-	-	-	-	-	-	-	-
KV38	-	-	-	-	-	-	-	-	-
KV41	-	-	-	-	-	-	-	-	-
KV6	0	100	8	0.011	0.010	0.004	0.010	0.020	0
KV16	-	-	-	-	-	-	-	-	-
KV29	-	-	-	-	-	-	-	-	-
KV30	-	-	-	-	-	-	-	-	-
KV7	0	100	8	0.010	0.010	0.000	0.010	0.010	0
KV8	-	-	-	-	-	-	-	-	-
KV21	-	-	-	-	-	-	-	-	-
KV47	-	-	-	-	-	-	-	-	-
KV9	-	-	-	-	-	-	-	-	-
KV2	0	0	1	0.005	0.005	-	0.005	0.005	1
KV3	0	0	1	0.005	0.005	-	0.005	0.005	1
KV4	-	-	-	-	-	-	-	-	-
KV5	-	-	-	-	-	-	-	-	-
KV15	-	-	-	-	-	-	-	-	-



**Figure A.18: Total Cyanide (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**

**Table A.19: Hardness (mg/L CaCO<sub>3</sub>) Summary Statistics for Receiving Environment Stations, 1994-2007.**

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	2	103	103	10	97	110	0
KV40	0	0	2	160	160	1	159	160	0
KV38	0	0	8	70	68	10	52	82	0
KV41	0	0	12	93	98	21	53	114	0
KV6	0	89	37	415	419	124	117	679	0
KV16	0	93	27	459	470	110	114	695	0
KV29	0	100	26	1020	1045	166	601	1250	0
KV30	0	96	27	484	490	83	222	608	0
KV7	0	86	37	362	399	107	72	502	0
KV8	0	84	31	376	342	114	67	480	0
KV21	0	100	2	512	512	86	451	572	0
KV47	0	60	10	386	418	233	79	707	0
KV9	0	58	19	284	300	92	129	416	0
KV2	0	3	37	197	215	60	70	281	0
KV3	0	0	14	199	215	67	64	275	0
KV4	0	6	18	214	216	64	122	380	0
KV5	0	0	24	189	200	59	71	268	0
KV15	0	0	14	184	180	67	63	268	0



**Figure A.19: Hardness (mg/L CaCO<sub>3</sub>) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**

Table A.20: Hydroxide (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	na	na	1	5	5	-	5	5	1
KV40	na	na	2	5	5	0	5	5	2
KV38	na	na	7	5	5	0	5	5	7
KV41	na	na	10	5	5	0	5	5	10
KV6	na	na	31	5	5	0	5	5	31
KV16	na	na	30	5	5	0	5	5	30
KV29	na	na	29	5	5	0	5	5	28
KV30	na	na	29	5	5	0	5	5	29
KV7	na	na	32	5	5	0	5	5	30
KV8	na	na	29	5	5	0	5	5	29
KV21	na	na	2	5	5	0	5	5	2
KV47	na	na	4	5	5	0	5	5	4
KV9	na	na	11	5	5	0	5	5	11
KV2	na	na	32	5	5	0	5	5	32
KV3	na	na	11	5	5	0	5	5	11
KV4	na	na	11	5	5	0	5	5	11
KV5	na	na	23	5	5	0	5	5	23
KV15	na	na	11	5	5	0	5	5	11

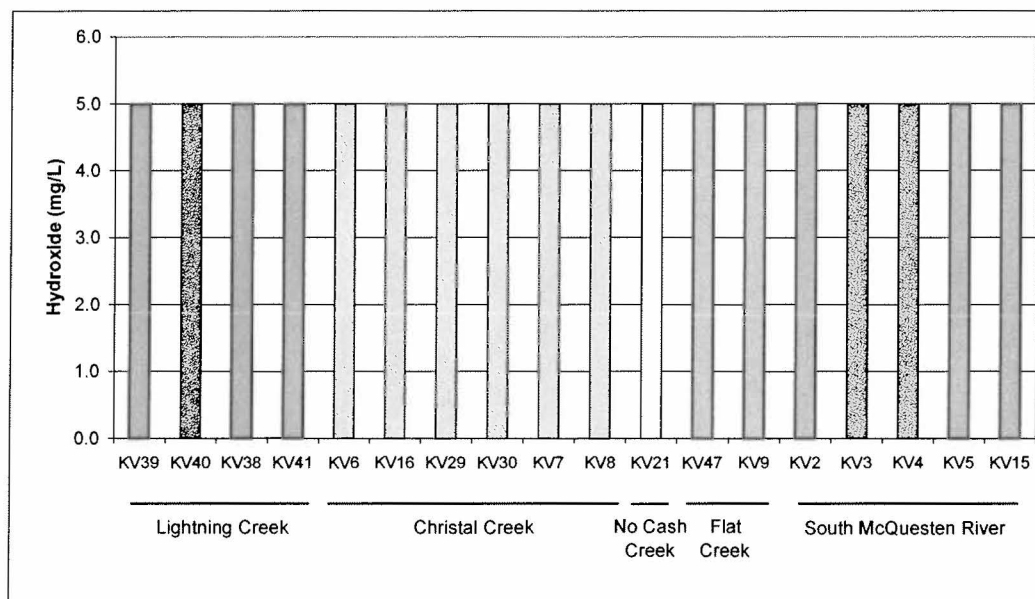


Figure A.20: Hydroxide (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.21: Iron (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.07	0.07	0.05	0.030	0.10	2
KV40	0	0	0	2	0.05	0.05	0.07	0.003	0.10	1
KV38	10	0	0	10	0.14	0.10	0.13	0.028	0.50	8
KV41	0	53	41	17	0.99	0.49	1.37	0.068	4.60	3
KV6	0	38	19	80	0.49	0.20	0.64	0.010	3.50	4
KV16	0	45	21	42	0.63	0.30	1.00	0.019	6.00	4
KV29	0	45	40	40	1.89	0.30	3.68	0.100	20.30	10
KV30	0	53	33	40	0.82	0.36	1.00	0.100	4.20	2
KV7	0	24	15	78	0.34	0.20	0.45	0.010	2.34	8
KV8	0	27	12	41	0.12	0.30	0.34	0.033	1.38	7
KV21	0	100	50	2	0.56	0.56	0.34	0.322	0.80	0
KV47	0	79	71	14	1.38	1.18	0.94	0.137	3.33	0
KV9	0	22	17	23	0.30	0.14	0.34	0.049	1.00	7
KV2	0	23	17	48	0.31	0.20	0.30	0.010	1.03	0
KV3	0	8	4	24	0.23	0.20	0.12	0.092	0.75	1
KV4	0	30	13	47	0.32	0.20	0.28	0.010	1.00	0
KV5	0	7	3	29	0.23	0.20	0.13	0.024	0.80	0
KV15	0	40	13	15	0.44	0.30	0.34	0.198	1.40	0

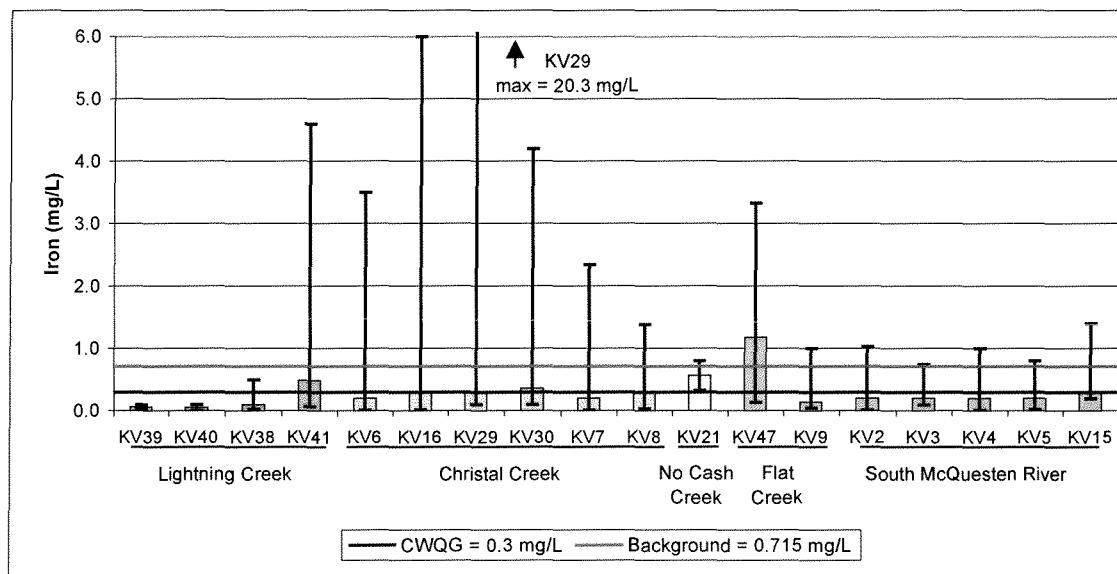
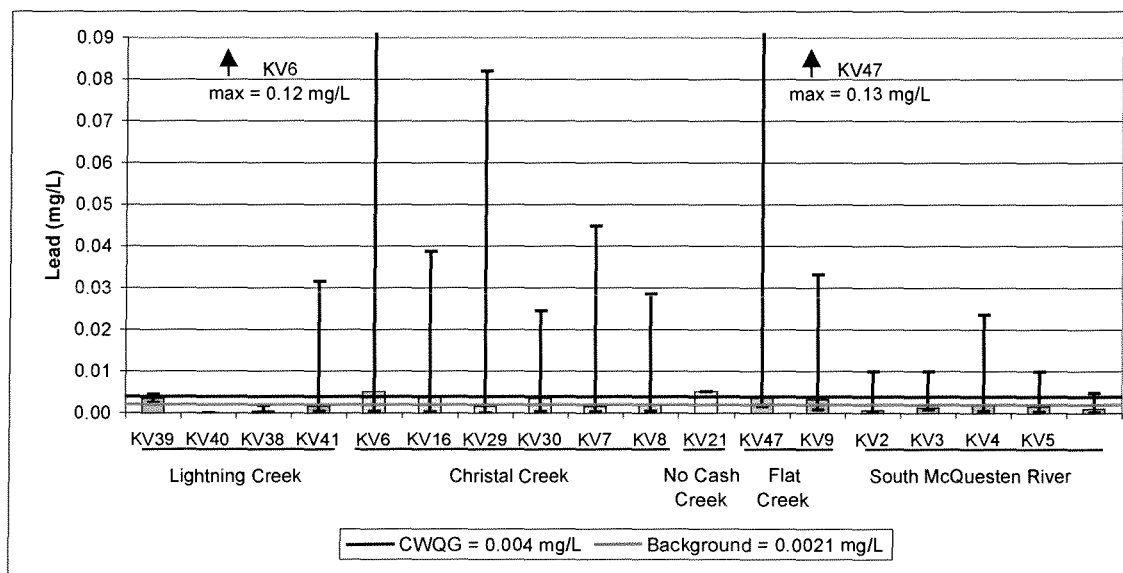


Figure A.21: Iron (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

**Table A.22: Lead (mg/L) Summary Statistics for Receiving Environment Stations,  
July 20, 2004-2007.**

Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	50	50	2	0.0040	0.0035	0.0010	0.0025	0.0045	0
KV40	0	0	0	1	0.0001	0.0001	0.0000	0.0001	0.0001	0
KV38	0	0	0	9	0.0008	0.0005	0.0006	0.0003	0.0019	1
KV41	0	30	16	10	0.0062	0.0017	0.0101	0.0005	0.0316	0
KV6	3	58	24	36	0.0148	0.0052	0.0238	0.0005	0.1200	1
KV16	3	44	40	36	0.0062	0.0040	0.0075	0.0003	0.0388	1
KV29	0	35	31	40	0.0090	0.0018	0.0200	0.0001	0.0820	2
KV30	3	41	38	34	0.0055	0.0036	0.0048	0.0004	0.0246	1
KV7	3	16	8	37	0.0050	0.0016	0.0092	0.0004	0.0449	2
KV8	3	26	23	34	0.0040	0.0020	0.0057	0.0006	0.0286	1
KV21	0	100	50	1	0.0052	0.0052	0.0000	0.0052	0.0052	0
KV47	0	33	6	3	0.0451	0.0037	0.0735	0.0017	0.1300	0
KV9	0	45	19	11	0.0074	0.0033	0.0096	0.0009	0.0333	0
KV2	4	8	6	26	0.0016	0.0008	0.0021	0.0003	0.0100	1
KV3	8	8	7	12	0.0025	0.0013	0.0029	0.0009	0.0100	1
KV4	9	18	5	11	0.0045	0.0022	0.0069	0.0006	0.0237	1
KV5	4	9	10	23	0.0022	0.0016	0.0023	0.0004	0.0100	1
KV15	0	8	6	12	0.0015	0.0011	0.0014	0.0002	0.0049	0

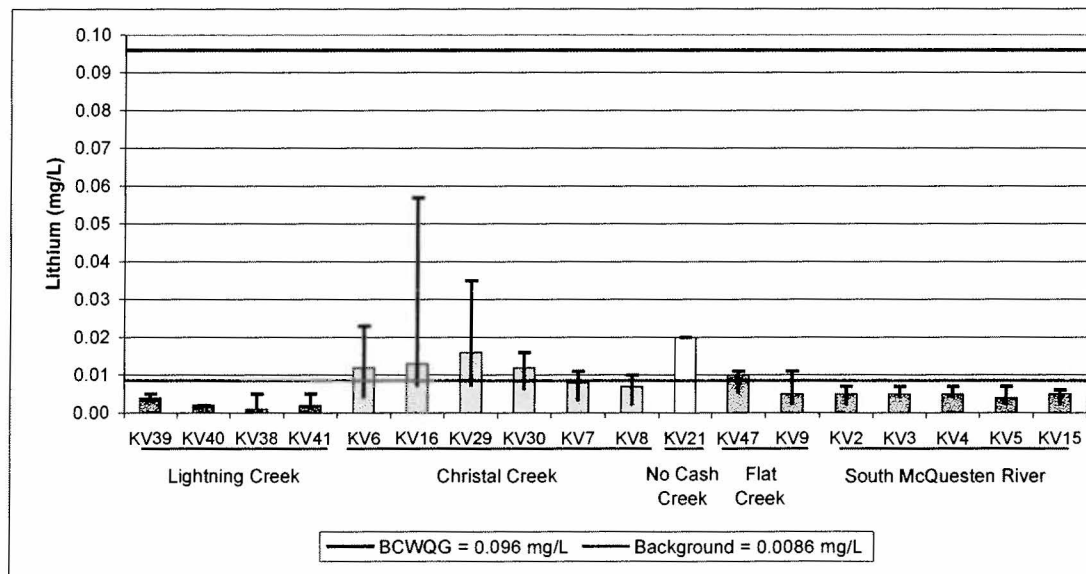


**Figure A.22: Lead (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**



**Table A.23: Lithium (mg/L) Summary Statistics for Receiving Environment Stations, July 20, 2004-2007.**

Station	% < DL, > BCWQG	% > DL, > BCWQG	% >Background, >BCWQG	n	mean	median	stdev	min	max	n<MDL
KV39	0	0	0	2	0.004	0.004	0.001	0.003	0.005	1
KV40	0	0	0	1	0.002	0.002	0.000	0.002	0.002	0
KV38	0	0	0	9	0.002	0.001	0.002	0.001	0.005	2
KV41	0	0	0	10	0.003	0.002	0.001	0.002	0.005	1
KV6	0	0	0	35	0.011	0.012	0.004	0.004	0.023	0
KV16	0	0	0	35	0.015	0.013	0.010	0.007	0.057	0
KV29	0	0	0	38	0.017	0.016	0.006	0.007	0.035	0
KV30	0	0	0	33	0.012	0.012	0.002	0.006	0.016	0
KV7	0	0	0	36	0.007	0.008	0.002	0.003	0.011	0
KV8	0	0	0	33	0.007	0.007	0.002	0.002	0.010	1
KV21	0	0	0	1	0.020	0.020	0.000	0.020	0.020	0
KV47	0	0	0	3	0.009	0.010	0.003	0.005	0.011	1
KV9	0	0	0	11	0.005	0.005	0.002	0.002	0.011	1
KV2	0	0	0	25	0.005	0.005	0.001	0.002	0.007	1
KV3	0	0	0	12	0.005	0.005	0.001	0.004	0.007	2
KV4	0	0	0	11	0.005	0.005	0.001	0.004	0.007	2
KV5	0	0	0	23	0.005	0.004	0.001	0.002	0.007	1
KV15	0	0	0	12	0.004	0.005	0.001	0.002	0.006	0



**Figure A.23: Lithium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**

Table A.24: Magnesium (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > Background	% > DL, > Background	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	2	5.5	5.5	0.3	5.3	5.7	0
KV40	0	0	2	12	12	0.4	12	12	0
KV38	0	0	10	4.1	4.0	0.6	3.2	4.9	0
KV41	0	0	14	4.8	4.8	1.1	3.1	6.7	0
KV6	0	27	48	20	21	6.7	6.0	37	0
KV16	0	70	40	30	25	19	12	107	0
KV29	0	98	45	51	52	11	19	84	0
KV30	0	74	39	25	26	5.4	6.9	33	0
KV7	0	31	49	20	22	5.5	5.2	28	0
KV8	0	30	37	20	20	6.7	4.3	36	0
KV21	0	50	2	24	24	1.3	23	25	0
KV47	0	44	9	21	24	13	5.3	39	0
KV9	0	44	18	21	22	6.7	10	30	0
KV2	0	3	38	15	14	4.4	5.6	24	0
KV3	0	0	23	15	14	4.0	7.5	22	0
KV4	0	6	18	16	15	5.0	8.6	29	0
KV5	0	0	29	15	15	4.5	5.2	22	0
KV15	0	0	13	14	13	4.7	5.5	22	0

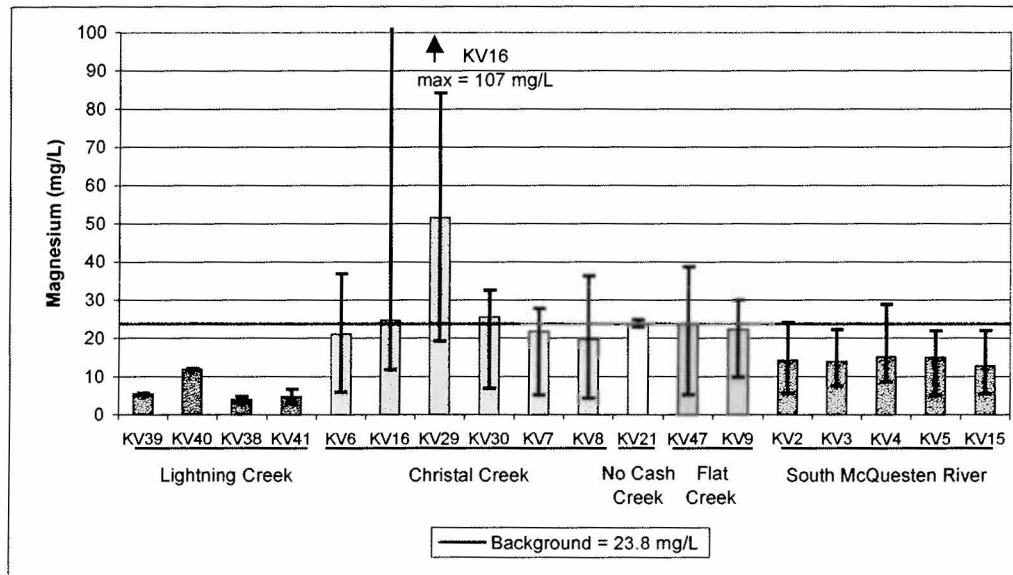


Figure A.24: Magnesium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.25: Manganese (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > BCWQG	% > DL, > BCWQG	% >Background, >BCWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.01	0.01	0.00	0.01	0.01	1
KV40	0	0	0	2	0.00	0.00	0.00	0.00	0.01	0
KV38	0	0	0	10	0.01	0.01	0.01	0.01	0.02	6
KV41	0	0	0	17	0.05	0.02	0.06	0.00	0.22	0
KV6	0	16	36	81	0.76	0.54	0.61	0.01	2.60	0
KV16	0	20	41	41	1.36	0.72	1.95	0.23	9.27	0
KV29	0	55	59	44	15	1.90	25	0.01	101	0
KV30	0	31	64	39	1.56	0.92	1.75	0.29	7.65	0
KV7	0	0	1	76	0.29	0.24	0.22	0.01	0.92	0
KV8	0	0	5	40	0.20	0.26	0.25	0.07	1.28	0
KV21	0	100	100	2	3.20	3.20	1.16	2.38	4.02	0
KV47	0	43	64	14	1.34	1.11	0.78	0.52	3.00	0
KV9	0	0	0	23	0.06	0.05	0.03	0.01	0.15	0
KV2	0	0	0	46	0.08	0.07	0.04	0.04	0.20	0
KV3	0	0	0	21	0.07	0.07	0.02	0.04	0.12	0
KV4	0	0	0	46	0.10	0.09	0.06	0.03	0.34	0
KV5	0	0	0	27	0.07	0.07	0.02	0.00	0.13	0
KV15	0	0	0	15	0.08	0.08	0.05	0.01	0.19	0

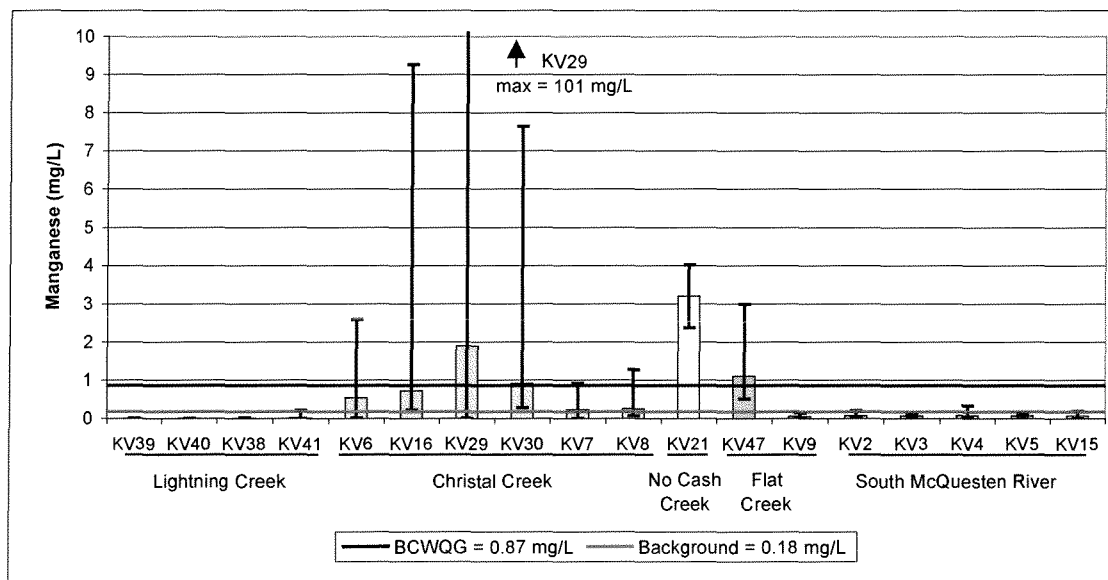


Figure A.25: Manganese (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.26: Mercury (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > CWQG	% > DL, > CWQG	n	mean	median	stdev	min	max	n<MDL
KV39	-	-	-	-	-	-	-	-	-
KV40	-	-	-	-	-	-	-	-	-
KV38	-	-	-	-	-	-	-	-	-
KV41	0	100	1	0.0001	0.0001	-	0.0001	0.0001	0
KV6	100	0	1	0.0002	0.0002	-	0.0002	0.0002	1
KV16	-	-	-	-	-	-	-	-	-
KV29	0	100	1	0.0002	0.0002	-	0.0002	0.0002	0
KV30	0	100	1	0.0002	0.0002	-	0.0002	0.0002	0
KV7	100	0	2	0.0002	0.0002	0.0001	0.0001	0.0002	2
KV8	0	100	1	0.0002	0.0002	-	0.0002	0.0002	1
KV21	-	-	-	-	-	-	-	-	-
KV47	-	-	-	-	-	-	-	-	-
KV9	100	0	1	0.0001	0.0001	-	0.0001	0.0001	1
KV2	50	50	2	0.0002	0.0002	0.0001	0.0001	0.0002	1
KV3	100	0	1	0.0001	0.0001	-	0.0001	0.0001	1
KV4	100	0	1	0.0001	0.0001	-	0.0001	0.0001	1
KV5	-	-	-	-	-	-	-	-	-
KV15	-	-	-	-	-	-	-	-	-

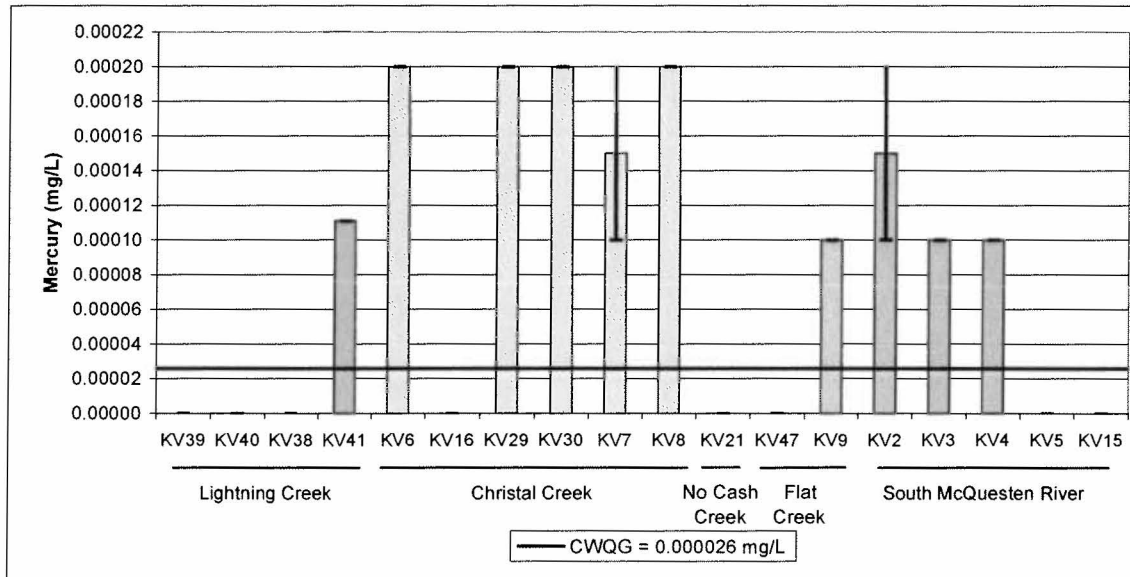


Figure A.26: Mercury (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.27: Molybdenum (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	0.001	0.001	0.001	0.0003	0.001	1
KV40	0	0	0	2	0.006	0.006	0.006	0.0010	0.010	2
KV38	0	0	0	10	0.002	0.001	0.003	0.0001	0.010	9
KV41	0	0	0	14	0.003	0.001	0.004	0.0002	0.010	11
KV6	0	0	0	51	0.004	0.001	0.004	0.0010	0.010	46
KV16	0	0	0	42	0.002	0.001	0.003	0.0010	0.010	41
KV29	0	0	0	46	0.003	0.001	0.004	0.0010	0.020	42
KV30	0	0	0	42	0.003	0.001	0.004	0.0010	0.010	41
KV7	0	0	0	51	0.003	0.001	0.004	0.0005	0.010	44
KV8	0	0	0	39	0.001	0.003	0.003	0.0010	0.010	39
KV21	0	0	0	2	0.006	0.006	0.006	0.0010	0.010	2
KV47	0	0	0	9	0.006	0.005	0.004	0.0002	0.010	4
KV9	0	0	0	18	0.003	0.001	0.004	0.0001	0.010	15
KV2	0	0	0	39	0.003	0.001	0.004	0.0007	0.010	35
KV3	0	0	0	23	0.004	0.002	0.003	0.0005	0.010	17
KV4	0	0	0	18	0.004	0.001	0.004	0.0003	0.010	11
KV5	0	0	0	31	0.003	0.001	0.003	0.0010	0.010	26
KV15	0	0	0	14	0.002	0.001	0.003	0.0010	0.010	11

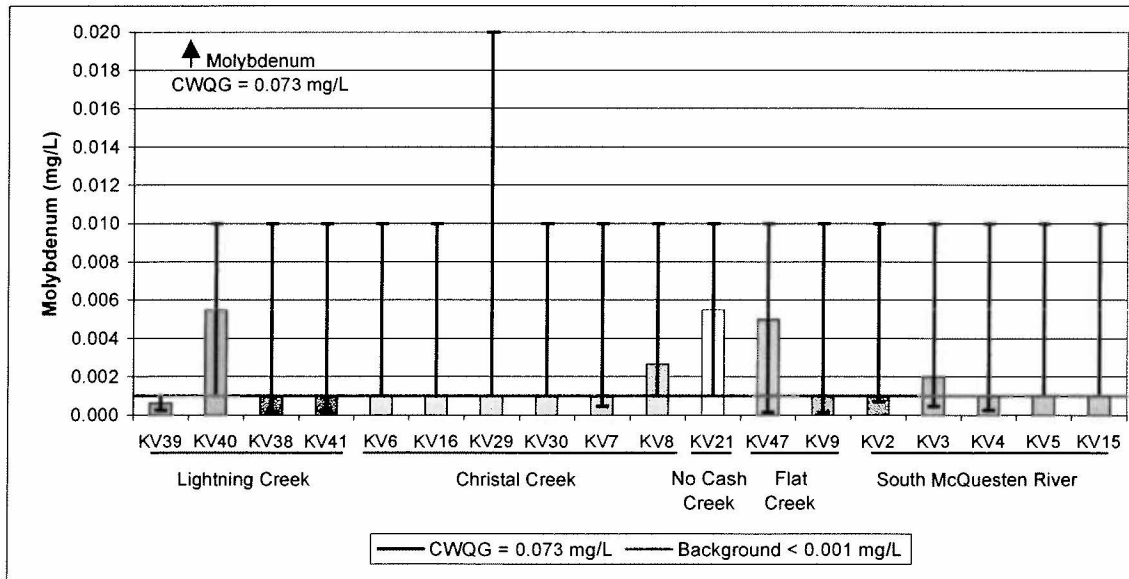
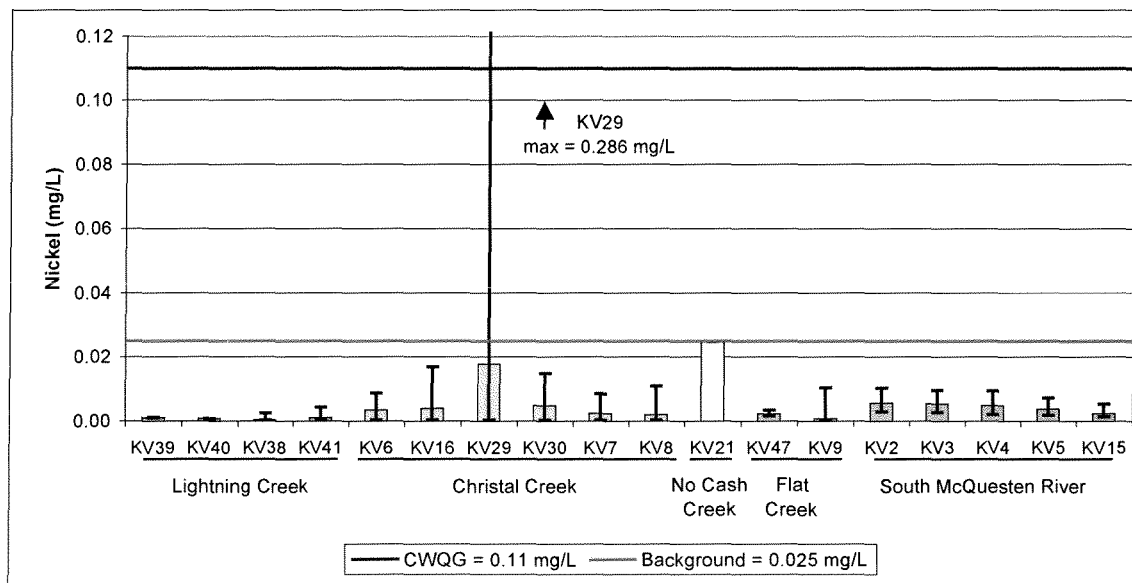


Figure A.27: Molybdenum (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

**Table A.28: Nickel (mg/L) Summary Statistics for Receiving Environment Stations, July 20, 2004-2007.**

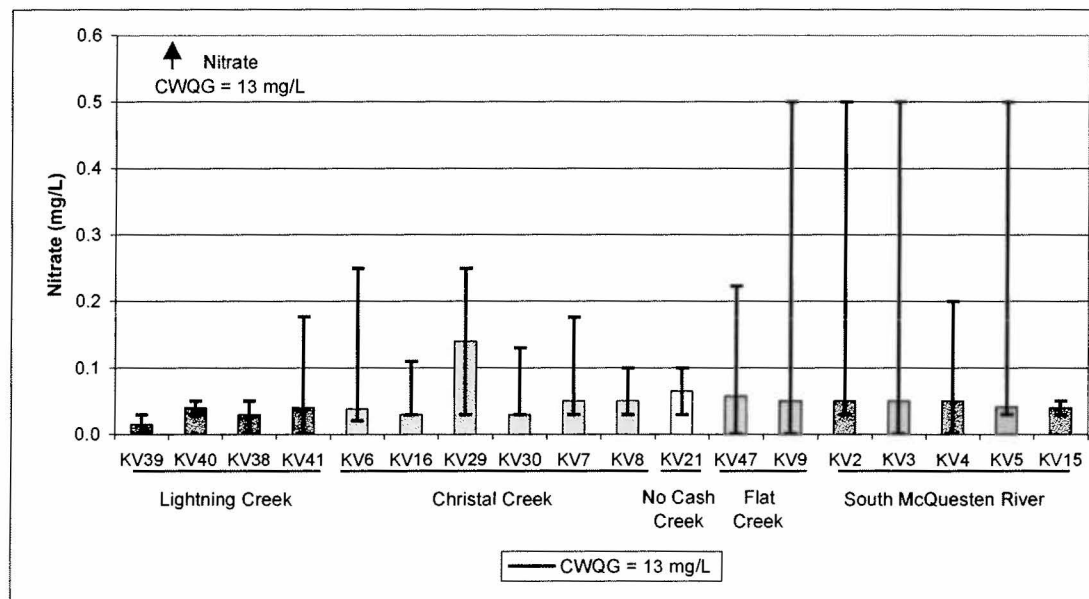
Station	% < DL, > CWQG	% > DL, > CWQG	% >Background, >CWQG	n	mean	median	stdev	min	max	n<MDL
KV39	0	0	0	2	0.001	0.001	0.000	0.001	0.001	0
KV40	0	0	0	1	0.001	0.001	0.000	0.001	0.001	0
KV38	0	0	0	9	0.001	0.001	0.001	0.001	0.003	6
KV41	0	0	0	10	0.002	0.001	0.001	0.001	0.004	3
KV6	0	0	0	37	0.004	0.004	0.002	0.001	0.009	2
KV16	0	0	0	35	0.005	0.004	0.004	0.001	0.017	2
KV29	0	10	9	40	0.041	0.018	0.066	0.001	0.286	0
KV30	0	0	0	35	0.006	0.005	0.003	0.001	0.015	0
KV7	0	0	0	37	0.003	0.002	0.002	0.001	0.009	1
KV8	0	0	0	34	0.003	0.002	0.002	0.001	0.011	2
KV21	0	0	0	1	0.025	0.025	0.000	0.025	0.025	0
KV47	0	0	0	3	0.003	0.002	0.001	0.002	0.004	0
KV9	0	0	0	11	0.002	0.001	0.003	0.001	0.011	3
KV2	0	0	0	26	0.006	0.006	0.002	0.003	0.010	0
KV3	0	0	0	12	0.006	0.005	0.003	0.003	0.010	0
KV4	0	0	0	11	0.005	0.005	0.003	0.002	0.010	0
KV5	0	0	0	23	0.004	0.004	0.002	0.002	0.007	0
KV15	0	0	0	12	0.003	0.002	0.001	0.001	0.005	0



**Figure A.28: Nickel (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, July 20, 2004 - 2007.**

**Table A.29: Nitrate (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.**

Station	% < DL, > CWQG	% > DL, > CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	2	0.02	0.02	0.02	0.001	0.03	2
KV40	0	0	2	0.04	0.04	0.01	0.030	0.05	2
KV38	0	0	5	0.02	0.03	0.02	0.001	0.05	5
KV41	0	0	8	0.06	0.04	0.06	0.001	0.18	5
KV6	0	0	10	0.07	0.04	0.07	0.021	0.25	5
KV16	0	0	3	0.06	0.03	0.05	0.030	0.11	1
KV29	0	0	2	0.14	0.14	0.16	0.030	0.25	1
KV30	0	0	3	0.06	0.03	0.06	0.030	0.13	1
KV7	0	0	9	0.08	0.05	0.06	0.030	0.18	4
KV8	0	0	7	0.05	0.05	0.03	0.030	0.10	5
KV21	0	0	2	0.07	0.07	0.05	0.030	0.10	2
KV47	0	0	6	0.08	0.06	0.08	0.001	0.22	3
KV9	0	0	12	0.10	0.05	0.14	0.001	0.50	9
KV2	0	0	11	0.10	0.05	0.14	0.030	0.50	5
KV3	0	0	11	0.13	0.05	0.19	0.001	0.50	7
KV4	0	0	11	0.08	0.05	0.07	0.001	0.20	5
KV5	0	0	8	0.10	0.04	0.16	0.030	0.50	4
KV15	0	0	2	0.04	0.04	0.01	0.030	0.05	1



**Figure A.29: Nitrate (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.**

Table A.30: Nitrite (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > CWQG	% > DL, > CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	50	2	0.14	0.14	0.12	0.050	0.23	0
KV40	50	50	2	0.30	0.30	0.28	0.100	0.50	1
KV38	40	0	5	0.07	0.06	0.03	0.030	0.10	3
KV41	25	25	8	0.05	0.05	0.04	0.002	0.10	3
KV6	30	20	10	0.19	0.07	0.32	0.002	1.00	3
KV16	0	67	3	0.08	0.08	0.04	0.040	0.11	0
KV29	0	75	4	0.57	0.21	0.83	0.040	1.80	0
KV30	0	67	3	0.09	0.09	0.05	0.040	0.13	0
KV7	11	33	9	0.11	0.06	0.16	0.002	0.50	3
KV8	14	29	7	0.06	0.12	0.17	0.005	0.50	1
KV21	50	50	2	0.54	0.54	0.66	0.070	1.00	1
KV47	0	0	5	0.03	0.03	0.03	0.002	0.06	0
KV9	20	0	10	0.08	0.03	0.15	0.002	0.50	9
KV2	27	9	11	0.25	0.03	0.40	0.002	1.00	8
KV3	27	9	11	0.24	0.03	0.40	0.002	1.00	9
KV4	11	11	9	0.08	0.03	0.16	0.002	0.50	5
KV5	25	13	8	0.22	0.05	0.36	0.002	1.00	3
KV15	50	0	2	0.07	0.07	0.05	0.030	0.10	1

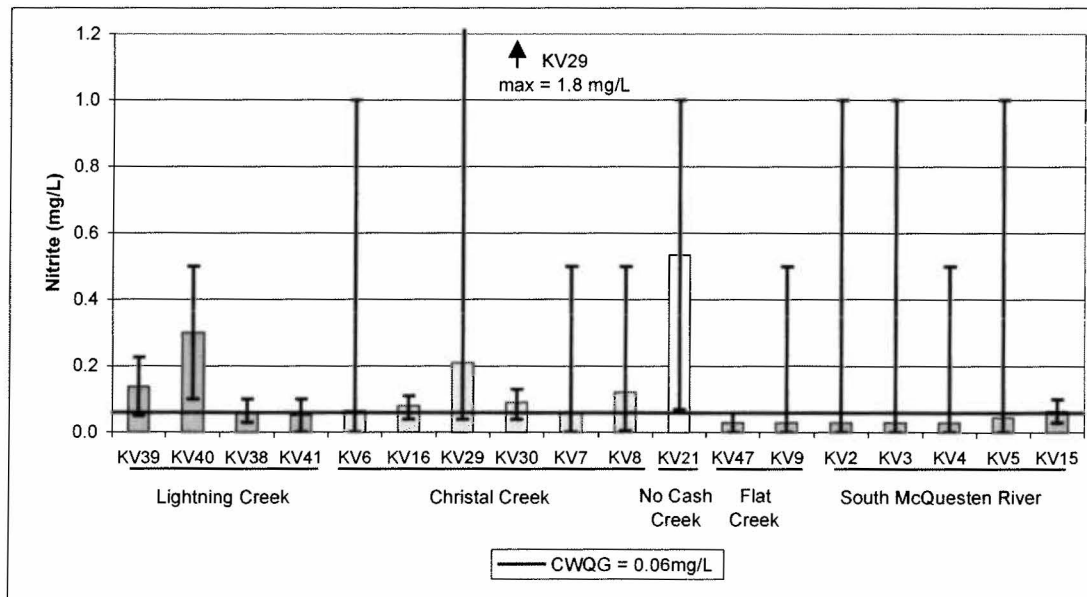


Figure A.30: Nitrite (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.



Table A.31: pH Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% > CWQG	% < CWQG	% >Background, >CWQG	% <Background, <CWQG	n	mean	median	stdev	min	max	n <MDL
KV39	-	-	-	-	-	-	-	-	-	-	-
KV40	0	0	0	0	1	8.22	8.22	-	8.22	8.22	0
KV38	0	0	0	0	8	7.52	7.63	0.26	7.17	7.80	0
KV41	0	0	0	0	19	7.50	7.42	0.27	7.10	7.89	0
KV6	0	0	0	0	85	7.72	7.70	0.45	6.90	8.95	0
KV16	0	0	0	0	33	7.70	7.67	0.57	6.58	8.95	0
KV29	0	0	0	0	34	7.75	7.86	0.43	6.79	8.50	0
KV30	3	0	3	0	35	7.76	7.63	0.56	6.62	9.24	0
KV7	0	1	0	1	87	7.69	7.70	0.47	6.31	8.70	0
KV8	0	0	0	0	36	7.77	7.79	0.56	6.84	8.97	0
KV21	0	0	0	0	1	6.62	6.62	-	6.62	6.62	0
KV47	0	0	0	0	13	7.50	7.50	0.44	6.70	8.26	0
KV9	0	0	0	0	23	7.51	7.40	0.36	6.80	8.20	0
KV2	0	0	0	0	43	7.68	7.66	0.46	6.81	8.76	0
KV3	5	0	5	0	22	7.79	7.84	0.51	7.05	9.20	0
KV4	0	0	0	0	52	7.63	7.70	0.36	6.90	8.50	0
KV5	0	0	0	0	26	7.79	7.81	0.49	7.02	8.90	0
KV15	13	0	13	0	8	7.85	7.81	0.57	7.10	9.07	0

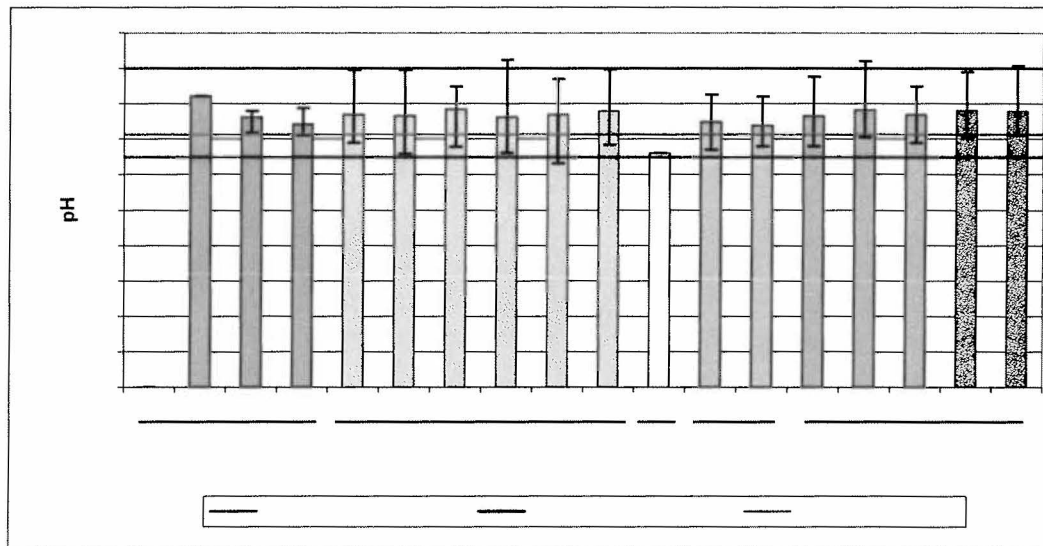


Figure A.31: pH Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.32: Phosphorus (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > PWQO	% > DL, > PWQO	% >Background, >PWQO	n	mean	median	stdev	min	max	N <MDL
KV39	100	0	100	1	0.30	0.30	-	0.30	0.30	1
KV40	100	0	0	1	0.06	0.06	-	0.06	0.06	1
KV38	100	0	50	2	0.18	0.18	0.17	0.06	0.30	2
KV41	50	50	25	4	0.12	0.07	0.12	0.03	0.30	2
KV6	79	21	0	14	0.06	0.06	0.01	0.05	0.08	11
KV16	29	71	65	17	0.41	0.40	0.32	0.06	1.20	5
KV29	40	60	50	10	0.53	0.20	0.57	0.06	1.40	4
KV30	29	71	14	7	0.22	0.12	0.32	0.06	0.94	2
KV7	30	60	0	10	0.08	0.07	0.04	0.03	0.18	4
KV8	67	33	17	6	0.06	0.11	0.10	0.06	0.31	4
KV21	100	0	0	1	0.06	0.06	-	0.06	0.06	2
KV47	43	57	14	7	0.10	0.06	0.09	0.06	0.30	3
KV9	88	0	13	8	0.09	0.06	0.09	0.03	0.30	8
KV2	50	40	0	10	0.07	0.06	0.02	0.03	0.12	6
KV3	67	17	17	6	0.10	0.06	0.10	0.03	0.30	5
KV4	50	33	17	6	0.11	0.06	0.10	0.03	0.30	4
KV5	60	40	20	5	0.10	0.06	0.09	0.06	0.27	3
KV15	0	100	0	2	0.06	0.06	0.00	0.06	0.06	2

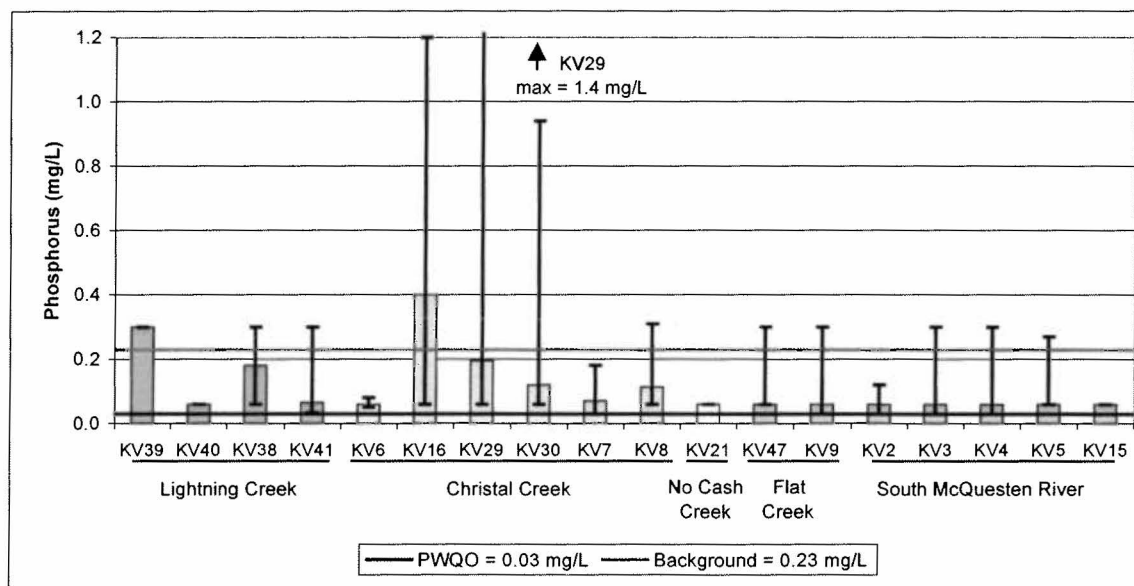


Figure A.32: Phosphorus (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Table A.33: Potassium (mg/L) Summary Statistics for Receiving Environment Stations, 1994-2007.

Station	% < DL, > BCWQG	% > DL, > BCWQG	% >Background, >BCWQG	n	mean	median	stdev	min	max	n <MDL
KV39	0	0	0	2	1.2	1.2	1.1	0.4	2.0	2
KV40	0	0	0	2	0.4	0.4	0.1	0.3	0.4	2
KV38	0	0	0	10	0.7	0.4	0.7	0.3	2.0	10
KV41	0	0	0	13	0.4	0.4	0.2	0.1	1.0	10
KV6	0	0	0	48	0.6	0.4	0.3	0.3	1.6	25
KV16	0	0	0	30	0.8	0.6	0.5	0.2	2.3	13
KV29	0	0	0	43	0.7	0.6	0.4	0.3	1.9	15
KV30	0	0	0	39	0.6	0.5	0.2	0.4	1.0	17
KV7	0	0	0	43	0.6	0.5	0.2	0.4	1.0	20
KV8	0	0	0	37	0.5	0.6	0.2	0.4	1.0	21
KV21	0	0	0	2	0.6	0.6	0.1	0.5	0.6	0
KV47	0	0	0	9	1.0	0.8	0.6	0.3	2.0	3
KV9	0	0	0	16	0.7	0.6	0.4	0.3	2.0	5
KV2	0	0	0	38	0.6	0.6	0.2	0.2	1.0	12
KV3	0	0	0	16	0.8	0.8	0.4	0.3	2.0	6
KV4	0	0	0	15	0.8	0.6	0.5	0.4	2.0	4
KV5	0	0	0	29	0.6	0.6	0.2	0.3	1.3	5
KV15	0	0	0	13	0.7	0.6	0.2	0.4	1.0	4

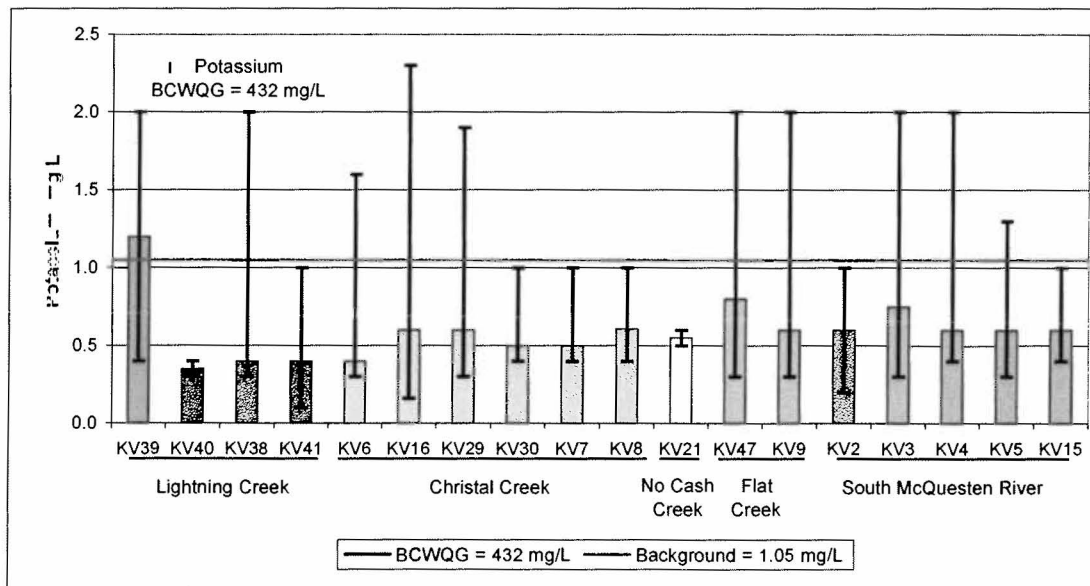


Figure A.33: Potassium (mg/L) Median Values with Minimum and Maximum for Receiving Environment Stations, 1994 - 2007.

Figure .34 > Selenium mg/L Median Values with Minimum and Maximum of Receiving Environment Stations 1994-2007.

Station	L CWQG	L CWQG	Background CWQG	n	mean	median	stdev	min	max	ML
KV39	0	0	0	2	0.0009	0.0009	0.0002	0.0007	0.0010	1
KV40	50	50	100	2	0.0107	0.0107	0.0132	0.0014	0.0200	1
KV38	0	0	0	9	0.0007	0.0006	0.0002	0.0005	0.0010	2
KV41	8	8	15	13	0.0068	0.0008	0.0169	0.0003	0.0600	2
KV6	12	23	35	43	0.0050	0.0009	0.0109	0.0003	0.0600	6
KV16	3	14	16	37	0.0013	0.0007	0.0032	0.0004	0.0200	2
KV29	0	11	11	37	0.0006	0.0004	0.0005	0.0002	0.0023	9
KV30	3	9	11	35	0.0008	0.0008	0.0003	0.0004	0.0020	2
KV7	0	11	11	38	0.0008	0.0007	0.0003	0.0003	0.0020	3
KV8	3	12	15	34	0.0016	0.0007	0.0050	0.0003	0.0300	2
KV21	50	0	50	2	0.0105	0.0105	0.0135	0.0009	0.0200	1
KV47	0	57	57	7	0.0117	0.0100	0.0118	0.0003	0.0300	1
KV9	0	0	0	12	0.0003	0.0003	0.0002	0.0002	0.0010	3
KV2	15	6	21	34	0.0063	0.0005	0.0150	0.0002	0.0800	8
KV3	0	0	0	14	0.0006	0.0005	0.0003	0.0002	0.0010	3
KV4	0	0	0	11	0.0005	0.0005	0.0002	0.0003	0.0010	1
KV5	0	0	0	23	0.0005	0.0004	0.0002	0.0002	0.0010	2
KV15	0	0	0	12	0.0003	0.0003	0.0001	0.0002	0.0005	3

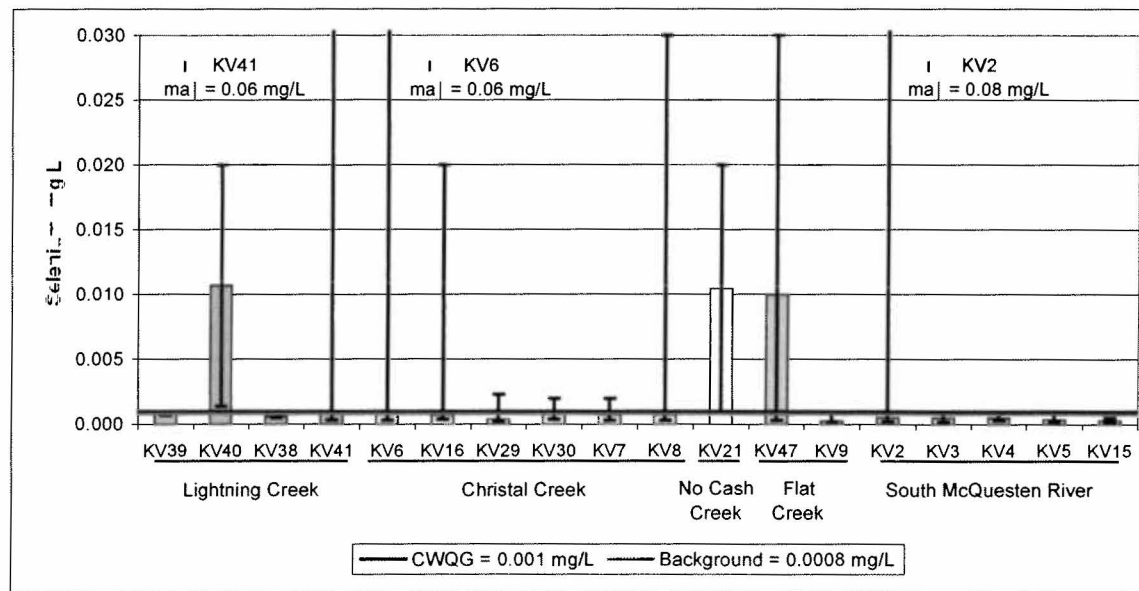


Figure .34 > Selenium mg/L Median Values with Minimum and Maximum of Receiving Environment Stations 1994-2007.

Figure .35 > Silicon mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	L Background	L Background	n	mean	median	stdev	min	max	n ML
KV39	0	0	2	2.3	2.3	0.72	1.8	2.8	0
KV40	0	0	2	2.9	2.9	0.01	2.9	2.9	0
KV38	0	0	10	2.9	2.8	0.61	1.7	3.6	0
KV41	0	29	14	3.5	3.3	1.14	1.9	6.6	0
KV6	0	41	49	3.3	3.4	1.15	0.4	6.2	0
KV16	0	46	41	3.8	3.9	1.24	0.1	8.0	1
KV29	0	47	43	4.5	3.9	2.25	2.2	15	0
KV30	0	50	40	3.8	3.9	0.69	2.2	5.4	0
KV7	0	18	50	3.3	3.4	0.64	1.9	5.0	0
KV8	0	13	38	2.8	3.0	0.85	0.9	5.2	0
KV21	0	0	2	3.3	3.3	0.29	3.1	3.5	0
KV47	0	22	9	3.0	2.9	1.03	1.9	4.8	0
KV9	0	0	18	2.4	2.6	0.57	1.3	3.1	0
KV2	0	0	39	2.4	2.0	0.69	1.5	3.6	0
KV3	0	0	23	2.3	2.1	0.69	1.5	3.6	0
KV4	0	0	18	2.3	2.2	0.72	1.3	3.5	0
KV5	0	6	31	2.5	2.3	0.79	1.1	4.3	0
KV15	0	7	14	3.2	3.2	0.67	1.8	4.3	0

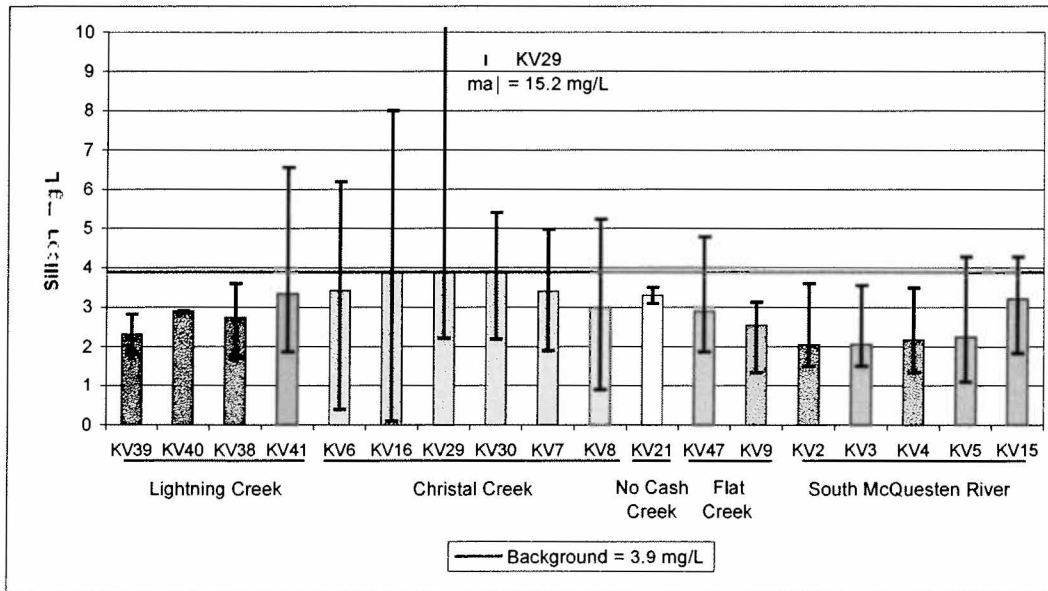


Figure .35 > Silicon mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.

Figure .36 > Silver mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	L CWQG	L CWQG	Background CWQG	n	mean	median	stdev	min	max	n M L
KV39	0	0	0	2	0.0001	0.0001	0.0000	0.0000	0.0001	1
KV40	50	0	50	2	0.0011	0.0011	0.0013	0.0001	0.0020	2
KV38	20	10	30	10	0.0003	0.0001	0.0006	0.0000	0.0020	8
KV41	15	23	38	13	0.0005	0.0001	0.0007	0.0001	0.0020	8
KV6	29	25	55	51	0.0008	0.0003	0.0009	0.0001	0.0020	36
KV16	23	14	37	43	0.0004	0.0001	0.0007	0.0001	0.0020	35
KV29	28	20	48	46	0.0006	0.0001	0.0007	0.0001	0.0020	34
KV30	21	19	40	42	0.0005	0.0001	0.0007	0.0001	0.0020	31
KV7	22	27	25	51	0.0006	0.0001	0.0007	0.0001	0.0020	36
KV8	21	18	38	39	0.0001	0.0005	0.0007	0.0001	0.0020	27
KV21	50	0	50	2	0.0011	0.0011	0.0013	0.0001	0.0020	2
KV47	33	56	89	9	0.0016	0.0020	0.0012	0.0001	0.0040	4
KV9	33	11	44	18	0.0006	0.0001	0.0007	0.0001	0.0020	14
KV2	33	10	43	40	0.0007	0.0001	0.0008	0.0001	0.0020	31
KV3	43	52	52	23	0.0006	0.0002	0.0007	0.0001	0.0020	19
KV4	24	24	47	17	0.0007	0.0001	0.0008	0.0001	0.0020	12
KV5	23	13	35	31	0.0005	0.0001	0.0007	0.0001	0.0020	24
KV15	14	14	29	14	0.0004	0.0001	0.0007	0.0001	0.0020	11

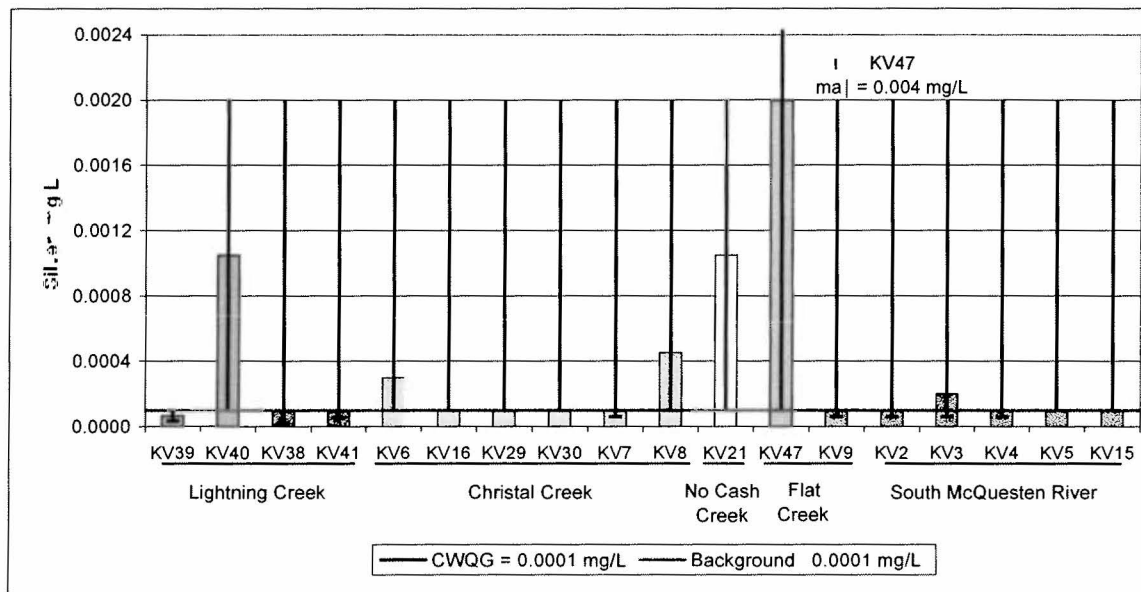


Figure .36 > Silver mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.

Figure .37> Sodium mg/L Summar Statistics for Receiving Environment Stations 1994-2007.

Station	L Back ground	L Back ground	n	mean	median	stdev	min	max	n M L
KV39	0	0	2	1.5	1.5	0.8	0.9	2.0	1
KV40	0	0	2	0.8	0.8	0.0	0.8	0.8	0
KV38	0	0	10	1.1	1.0	0.5	0.6	2.0	2
KV41	0	0	14	1.0	0.9	0.6	0.5	2.4	1
KV6	0	0	46	1.4	1.4	0.3	0.5	2.0	1
KV16	0	7	42	1.9	1.7	0.9	0.5	5.3	0
KV29	0	4	46	2.1	2.0	0.5	0.6	3.5	0
KV30	0	0	40	1.6	1.7	0.3	0.6	2.0	0
KV7	0	0	49	1.4	1.5	0.4	0.4	2.2	1
KV8	0	0	38	1.4	1.3	0.4	0.4	2.3	1
KV21	0	0	2	1.1	1.1	0.0	1.1	1.2	0
KV47	0	0	6	1.7	1.9	0.7	0.4	2.5	1
KV9	0	0	16	2.2	2.1	0.4	1.2	3.1	1
KV2	0	5	38	2.0	1.7	0.8	0.6	4.0	0
KV3	0	0	22	1.9	1.8	0.6	1.0	3.1	1
KV4	0	0	17	1.9	1.7	0.6	1.2	2.8	1
KV5	0	0	29	2.0	2.0	0.7	0.6	3.2	0
KV15	0	0	14	2.0	1.7	0.8	0.9	3.2	0

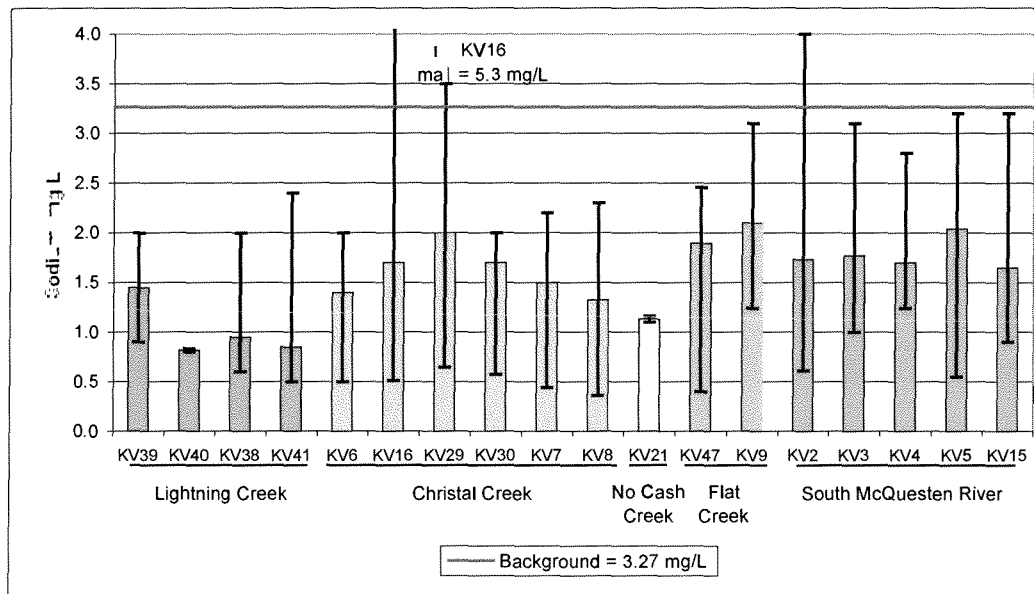


Figure .37> Sodium mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.

Figure .38 > Strontium mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	L Back ground	L Back ground	n	mean	median	stdev	min	max	n M L
KV39	0	0	2	0.09	0.09	0.02	0.08	0.11	0
KV40	0	0	2	0.15	0.15	0.01	0.14	0.15	0
KV38	0	0	10	0.08	0.08	0.01	0.05	0.09	0
KV41	0	0	14	0.08	0.08	0.02	0.05	0.10	0
KV6	0	0	49	0.20	0.22	0.05	0.05	0.28	0
KV16	0	36	42	0.33	0.28	0.20	0.06	1.18	0
KV29	0	98	44	0.60	0.58	0.16	0.18	0.99	0
KV30	0	48	40	0.28	0.30	0.06	0.07	0.37	0
KV7	0	2	50	0.22	0.23	0.06	0.05	0.32	0
KV8	0	11	38	0.23	0.22	0.07	0.04	0.34	0
KV21	0	0	2	0.23	0.23	0.01	0.22	0.24	0
KV47	0	44	9	0.23	0.27	0.13	0.05	0.36	0
KV9	0	0	18	0.18	0.20	0.06	0.07	0.27	0
KV2	0	0	39	0.20	0.20	0.05	0.06	0.26	0
KV3	0	0	23	0.19	0.18	0.04	0.08	0.27	0
KV4	0	0	18	0.18	0.19	0.05	0.08	0.26	0
KV5	0	0	31	0.20	0.21	0.05	0.06	0.27	0
KV15	0	0	14	0.21	0.20	0.05	0.10	0.27	0

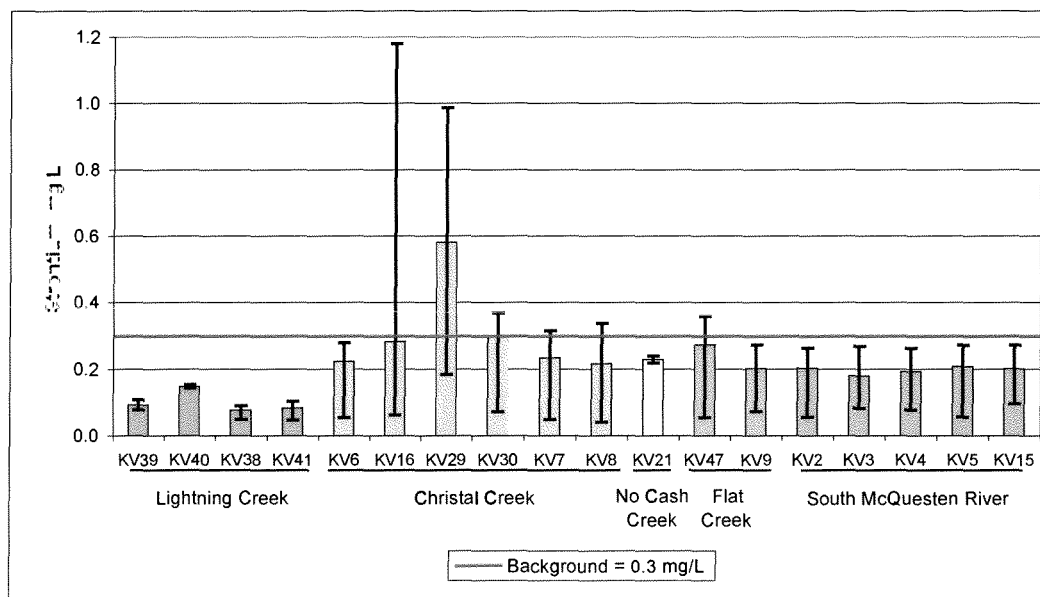


Figure .38 > Strontium mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.



Figure .39> Sulfate mg/L Summary Statistics for Receiving Environment Stations  
 July 20 2004 2007.

Station	L BCWQG	L BCWQG	Background BCWQG	n	mean	median	stdev	min	maximum	M L
KV39	0	100	0	1	57	57		57	57	0
KV40			0	0						
KV38	0	0	0	5	34	36	6	25	43	0
KV41	0	40	0	5	42	50	14	22	54	0
KV6	0	100	46	21	256	281	79	73	334	0
KV16	0	100	73	19	333	320	149	150	900	0
KV29	0	100	82	23	924	899	153	540	1250	0
KV30	0	100	73	19	337	342	71	159	457	0
KV7	0	100	48	20	240	252	57	105	340	0
KV8	0	90	59	20	214	239	76	50	310	1
KV21			0	0						
KV47	0	100	0	1	59	59		59	59	0
KV9	0	83	20	6	126	139	51	42	190	0
KV2	0	90	0	21	78	84	21	26	104	0
KV3	0	86	0	7	78	93	27	27	104	0
KV4	0	83	0	6	79	83	24	38	104	0
KV5	0	82	4	17	75	79	23	22	110	0
KV15	0	75	0	8	63	64	26	22	100	0

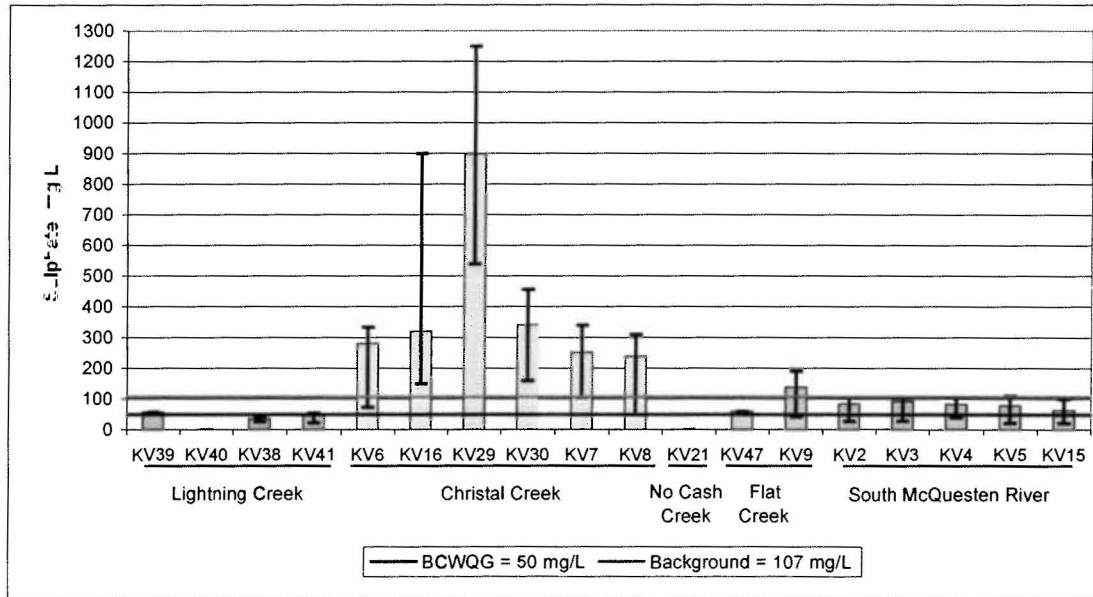


Figure .39> Sulfate mg/L Median Values with Minimum and Maximum for Receiving  
 Environment Stations July 20 2004 2007.

Figure .40 > Sulphur mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	L Background	L Background	n	mean	median	stdev	min	max	n M L
KV39	0	0	1	20	20		20	20	0
KV40	0	100	2	39	39	0.8	38	39	0
KV38	0	0	9	12	12	1.0	10	13	0
KV41	0	0	13	15	15	3	10	19	0
KV6	0	92	49	84	85	28	21	149	0
KV16	0	98	41	133	104	98	21	537	0
KV29	0	100	45	312	306	58	111	462	0
KV30	0	97	39	108	110	24	24	156	0
KV7	0	89	45	69	73	22	9	108	0
KV8	0	87	38	67	66	24	9	112	0
KV21	0	100	2	115	115	4	112	118	0
KV47	0	63	8	69	72	42	12	124	0
KV9	0	73	15	43	44	13	21	64	0
KV2	0	5	39	23	23	7	6	38	0
KV3	0	0	22	22	21	7	0	32	1
KV4	0	0	14	25	26	6	14	32	0
KV5	0	0	30	22	22	7	6	31	0
KV15	0	0	14	20	19	7	9	32	0

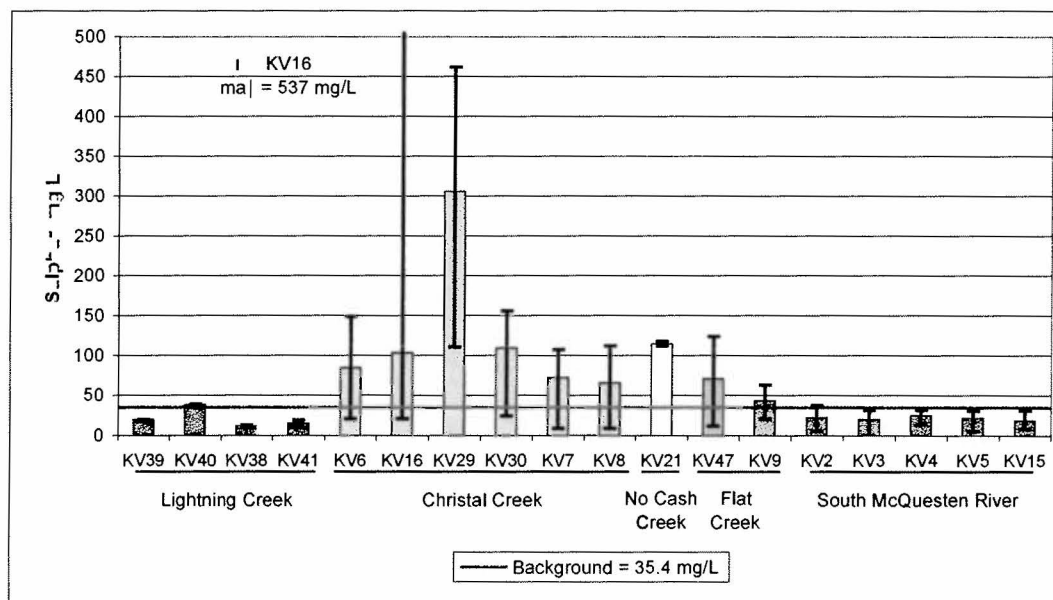


Figure .40 > Sulphur mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.

Figure .41 > Thallium mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	L CWQG	L CWQG	Background CWQG	n	mean	median	stdev	min	max	n	M L
KV39	0	0	0	2	0.0001	0.0001	0.0000	0.0001	0.0001	2	2
KV40	50	0	50	2	0.0030	0.0030	0.0042	0.0001	0.0060	2	2
KV38	0	0	0	9	0.0001	0.0001	0.0001	0.0001	0.0002	9	9
KV41	0	9	9	11	0.0002	0.0001	0.0003	0.0001	0.0011	10	10
KV6	0	0	0	36	0.0001	0.0001	0.0001	0.0001	0.0005	36	36
KV16	0	0	0	36	0.0001	0.0001	0.0000	0.0001	0.0002	35	35
KV29	0	0	0	35	0.0001	0.0001	0.0000	0.0001	0.0002	30	30
KV30	0	0	0	34	0.0001	0.0001	0.0000	0.0001	0.0001	34	34
KV7	3	3	5	38	0.0001	0.0001	0.0004	0.0001	0.0020	36	36
KV8	0	0	0	33	0.0001	0.0001	0.0001	0.0001	0.0005	32	32
KV21	50	0	50	2	0.0031	0.0031	0.0041	0.0002	0.0060	1	1
KV47	25	0	25	4	0.0016	0.0001	0.0030	0.0001	0.0060	4	4
KV9	0	0	0	11	0.0001	0.0001	0.0000	0.0001	0.0001	11	11
KV2	0	0	0	25	0.0001	0.0001	0.0000	0.0001	0.0001	25	25
KV3	8	0	8	12	0.0001	0.0001	0.0003	0.0001	0.0010	12	12
KV4	0	0	0	10	0.0001	0.0001	0.0000	0.0001	0.0001	10	10
KV5	0	0	0	22	0.0001	0.0001	0.0000	0.0001	0.0001	22	22
KV15	0	0	0	12	0.0001	0.0001	0.0000	0.0001	0.0001	12	12

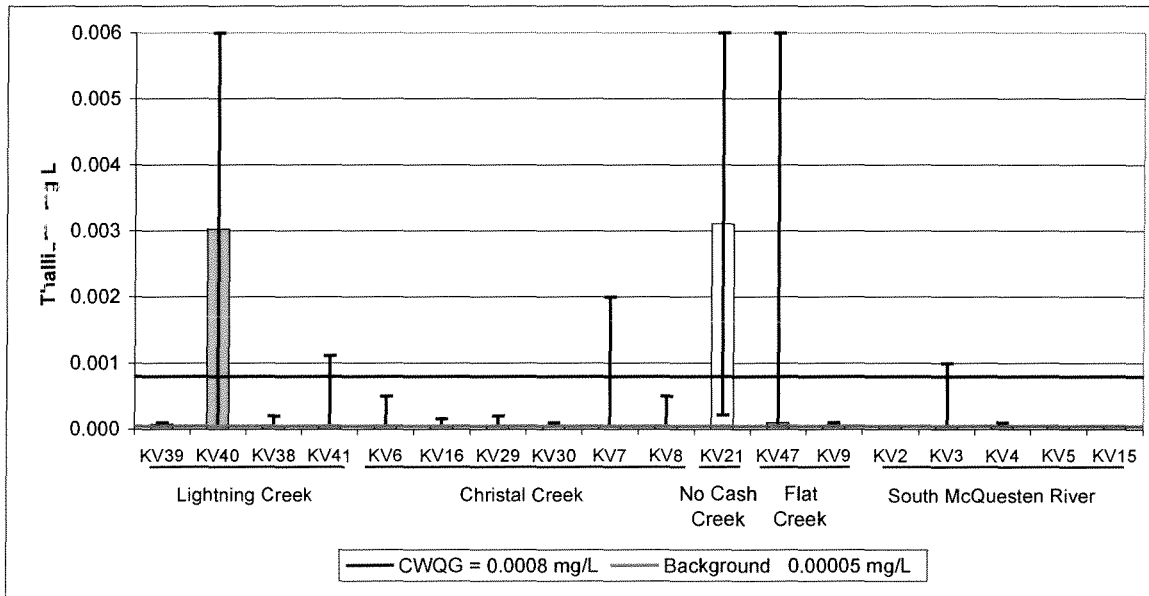


Figure .41 > Thallium mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.

Figure .42> Total Chromium (Cr) mg/L Summary Statistics for Receiving Environment Stations 1994-2006.

Station	L Background	U Background	n	mean	median	stdev	min	maximum	n ML
KV39	na	na							
KV40	na	na							
KV38	na	na							
KV41	na	na							
KV6	na	na	8	0.006	0.006	0.0004	0.006	0.007	7
KV16	na	na	4	0.006	0.006	0.0000	0.006	0.006	4
KV29	na	na	5	0.011	0.006	0.0092	0.006	0.027	3
KV30	na	na	4	0.008	0.006	0.0030	0.006	0.012	3
KV7	na	na	4	0.006	0.006	0.0000	0.006	0.006	3
KV8	na	na	2	0.006	0.006	0.0000	0.006	0.006	2
KV21	na	na							
KV47	na	na	2	0.006	0.006	0.0000	0.006	0.006	2
KV9	na	na	1	0.006	0.006		0.006	0.006	1
KV2	na	na	3	0.006	0.006	0.0000	0.006	0.006	3
KV3	na	na	1	0.006	0.006		0.006	0.006	1
KV4	na	na	1	0.006	0.006		0.006	0.006	1
KV5	na	na	2	0.005	0.005	0.0000	0.005	0.005	2
KV15	na	na							

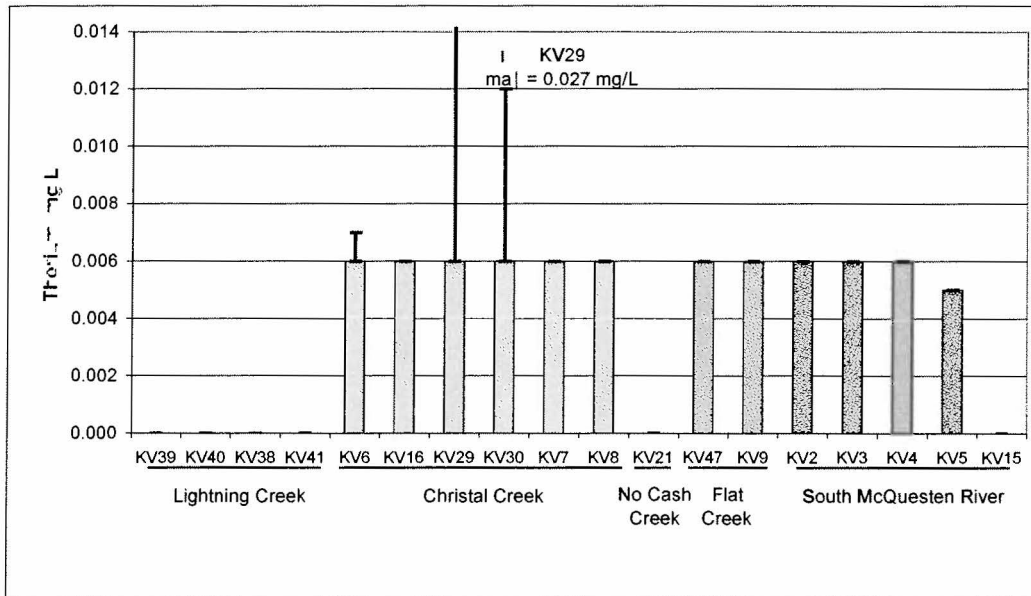


Figure .42> Total Chromium (Cr) mg/L Median Values with Minimum and Maximum for Receiving Environment Stations July 20 2004 - 2007.

Figure .43> in mg/L Median Values with Minimum and Maximum of Receiving Environment Stations 1994-2007.

Station	L Background	L Background	n	mean	median	stdev	min	maximum	n M L
KV39	0	0	2	0.0006	0.0006	0.0006	0.0001	0.0010	2
KV40	0	0	2	0.0035	0.0035	0.0035	0.0010	0.0060	2
KV38	0	0	10	0.0018	0.0010	0.0020	0.0001	0.0060	10
KV41	8	8	13	0.0065	0.0010	0.0163	0.0001	0.0600	12
KV6	16	4	50	0.0035	0.0010	0.0039	0.0010	0.0130	45
KV16	12	2	42	0.0024	0.0010	0.0032	0.0010	0.0110	41
KV29	19	2	43	0.0032	0.0010	0.0046	0.0010	0.0220	42
KV30	18	0	40	0.0027	0.0010	0.0034	0.0010	0.0100	36
KV7	13	13	48	0.0035	0.0010	0.0039	0.0010	0.0100	40
KV8	16	0	38	0.0010	0.0026	0.0033	0.0010	0.0100	38
KV21	0	0	2	0.0035	0.0035	0.0035	0.0010	0.0060	2
KV47	22	0	9	0.0052	0.0060	0.0036	0.0001	0.0100	5
KV9	18	6	17	0.0035	0.0010	0.0039	0.0001	0.0100	16
KV2	27	3	37	0.0040	0.0010	0.0043	0.0010	0.0130	35
KV3	36	5	22	0.0052	0.0040	0.0044	0.0002	0.0110	20
KV4	13	13	16	0.0038	0.0010	0.0041	0.0001	0.0100	14
KV5	23	0	31	0.0034	0.0010	0.0039	0.0010	0.0100	30
KV15	14	0	14	0.0024	0.0010	0.0035	0.0010	0.0110	13

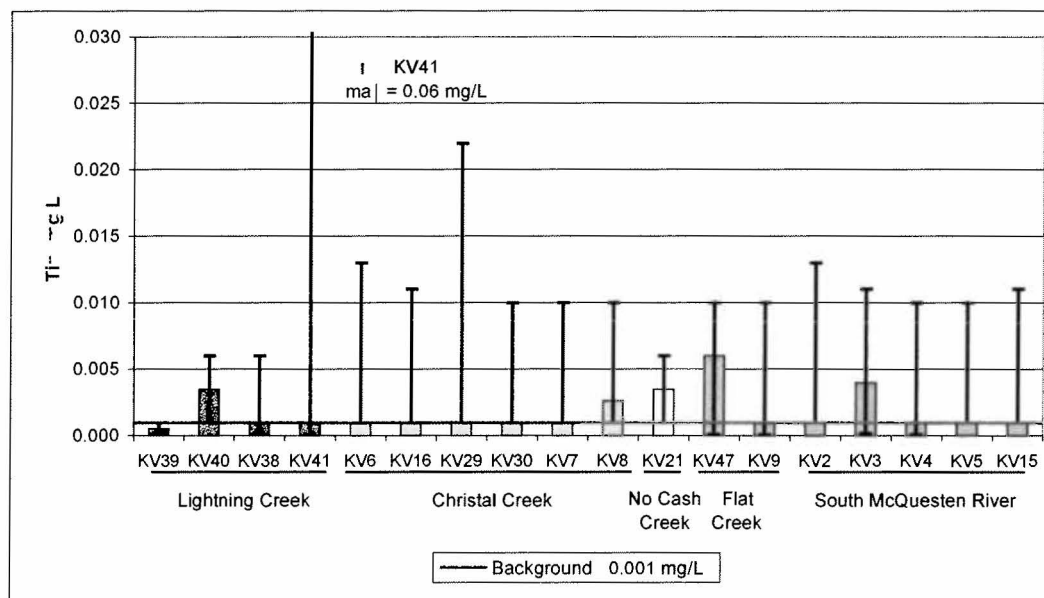


Figure .43> in mg/L Median Values with Minimum and Maximum of Receiving Environment Stations 1994-2007.

Figure .44 > Titanium mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	L BCWQG	L BCWQG	Background BCWQG	n	mean	median	stdev	min	max	N M L
KV39	0	0	0	2	0.006	0.006	0.006	0.0014	0.010	1
KV40	0	0	0	2	0.002	0.002	0.001	0.0010	0.002	1
KV38	0	0	0	10	0.008	0.001	0.018	0.0007	0.057	3
KV41	0	0	0	14	0.022	0.013	0.026	0.0013	0.090	2
KV6	0	0	0	48	0.010	0.006	0.013	0.0005	0.062	9
KV16	0	0	0	42	0.020	0.010	0.023	0.0005	0.094	3
KV29	0	0	0	45	0.045	0.024	0.059	0.0010	0.344	3
KV30	0	0	0	41	0.019	0.009	0.023	0.0005	0.108	3
KV7	0	0	0	49	0.012	0.005	0.017	0.0002	0.063	5
KV8	0	0	0	38	0.006	0.010	0.012	0.0010	0.044	3
KV21	0	0	0	2	0.005	0.005	0.006	0.0010	0.009	1
KV47	0	0	0	6	0.028	0.010	0.035	0.0010	0.088	2
KV9	0	0	0	15	0.003	0.003	0.002	0.0000	0.010	5
KV2	0	0	0	37	0.003	0.002	0.003	0.0002	0.011	10
KV3	0	0	0	21	0.005	0.002	0.009	0.0001	0.041	7
KV4	0	0	0	16	0.003	0.002	0.002	0.0002	0.010	4
KV5	0	0	0	29	0.003	0.002	0.004	0.0010	0.021	7
KV15	0	0	0	13	0.004	0.002	0.005	0.0010	0.021	2

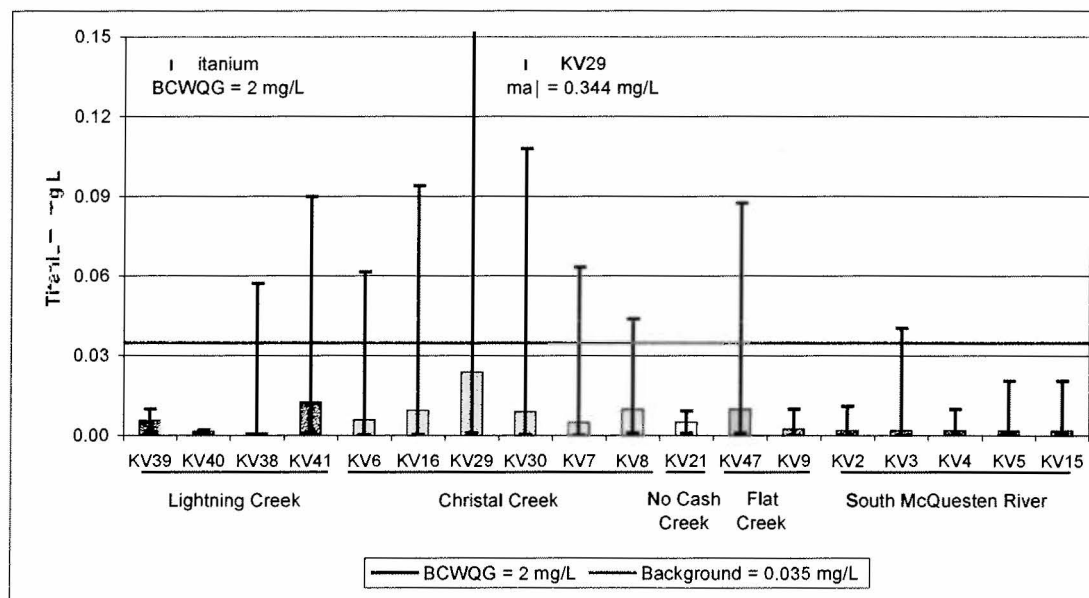


Figure .44 > Titanium mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.

Figure .45> Total dissolved Solids mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	Lower Background	Upper Background	n	mean	median	stdev	min	maximum	in M.L.
KV39									
KV40									
KV38									
KV41									
KV6									
KV16									
KV29									
KV30	0	88	8	350	369	143	18	459	0
KV7									
KV8									
KV21									
KV47									
KV9									
KV2	0	0	14	211	213	27	147	257	0
KV3									
KV4									
KV5									
KV15									

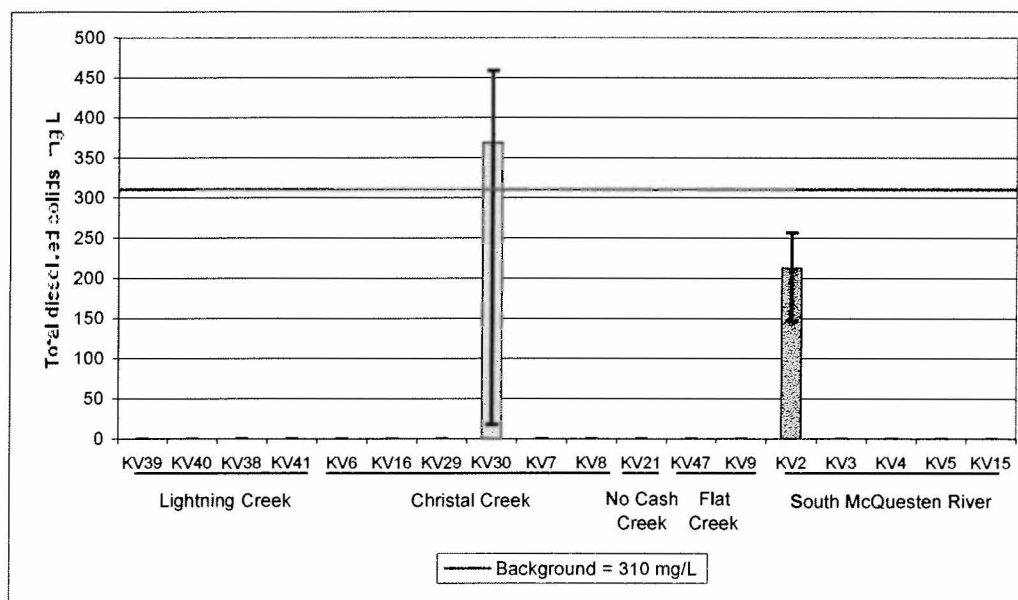


Figure .45> Total dissolved Solids mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.





Figure .47> Uranium mg/L Summary Statistics for Receiving Environment Stations 1994-2007.

Station	L PWQ	L PWQ	Background PWQ	n	mean	median	stdev	min	max	n M L
KV39	0	0	0	2	0.0004	0.0004	0.0001	0.0003	0.001	1
KV40	50	0	50	2	0.0353	0.0353	0.0491	0.0005	0.070	2
KV38	0	0	0	9	0.0006	0.0005	0.0005	0.0001	0.002	8
KV41	0	0	0	10	0.0006	0.0006	0.0002	0.0002	0.001	3
KV6	24	45	69	49	0.0225	0.0058	0.0295	0.0014	0.090	12
KV16	0	44	44	36	0.0052	0.0050	0.0017	0.0010	0.010	0
KV29	15	13	28	46	0.0146	0.0032	0.0258	0.0005	0.070	13
KV30	14	38	52	42	0.0161	0.0052	0.0259	0.0015	0.090	6
KV7	18	0	18	44	0.0150	0.0030	0.0262	0.0006	0.070	10
KV8	0	0	0	33	0.0027	0.0026	0.0011	0.0005	0.005	2
KV21	50	0	50	2	0.0373	0.0373	0.0463	0.0045	0.070	1
KV47	50	0	50	6	0.0354	0.0357	0.0379	0.0004	0.070	4
KV9	0	0	0	11	0.0010	0.0010	0.0003	0.0002	0.001	0
KV2	21	3	24	33	0.0176	0.0009	0.0301	0.0005	0.070	9
KV3	21	0	21	14	0.0157	0.0010	0.0294	0.0004	0.070	4
KV4	23	0	23	13	0.0168	0.0008	0.0304	0.0003	0.070	3
KV5	0	0	0	22	0.0009	0.0009	0.0002	0.0005	0.001	2
KV15	0	0	0	12	0.0008	0.0008	0.0002	0.0005	0.001	1

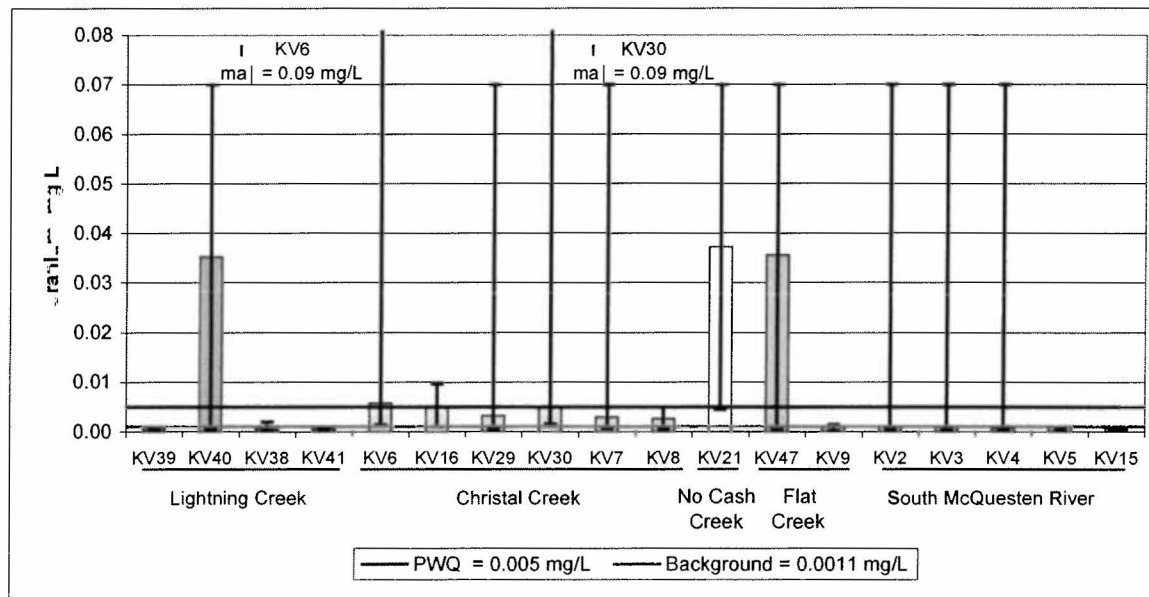


Figure .47> Uranium mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.

Figure .48 > Vanadium mg/L Summary Statistics for Receiving Environment Stations  
 July 20 2004 2007.

Station	L PWQ	L PWQ	Background PWQ	n	mean	median	stdev	min	max	n	M L
KV39	0	0	0	2	0.0006	0.0006	0.0006	0.0001	0.0010	2	
KV40	0	0	0	1	0.0001	0.0001	0.0000	0.0001	0.0001	1	
KV38	0	0	0	9	0.0003	0.0001	0.0003	0.0001	0.0010	4	
KV41	0	0	0	10	0.0015	0.0006	0.0019	0.0001	0.0060	1	
KV6	0	0	0	36	0.0005	0.0002	0.0005	0.0001	0.0023	9	
KV16	0	3	2	35	0.0009	0.0004	0.0013	0.0001	0.0061	2	
KV29	0	13	11	38	0.0030	0.0007	0.0058	0.0001	0.0320	2	
KV30	0	6	5	34	0.0011	0.0004	0.0016	0.0001	0.0065	3	
KV7	0	0	0	36	0.0008	0.0003	0.0012	0.0001	0.0047	5	
KV8	0	0	0	33	0.0006	0.0002	0.0008	0.0001	0.0036	7	
KV21	0	0	0	1	0.0006	0.0006	0.0000	0.0006	0.0006	0	
KV47	0	0	0	3	0.0018	0.0016	0.0018	0.0001	0.0036	0	
KV9	0	0	0	11	0.0002	0.0001	0.0003	0.0001	0.0010	5	
KV2	0	0	0	25	0.0004	0.0002	0.0004	0.0001	0.0014	5	
KV3	0	0	0	12	0.0005	0.0003	0.0005	0.0001	0.0018	2	
KV4	0	0	0	11	0.0004	0.0002	0.0004	0.0001	0.0010	3	
KV5	0	0	0	23	0.0004	0.0003	0.0004	0.0001	0.0017	5	
KV15	0	0	0	12	0.0004	0.0002	0.0005	0.0001	0.0017	2	

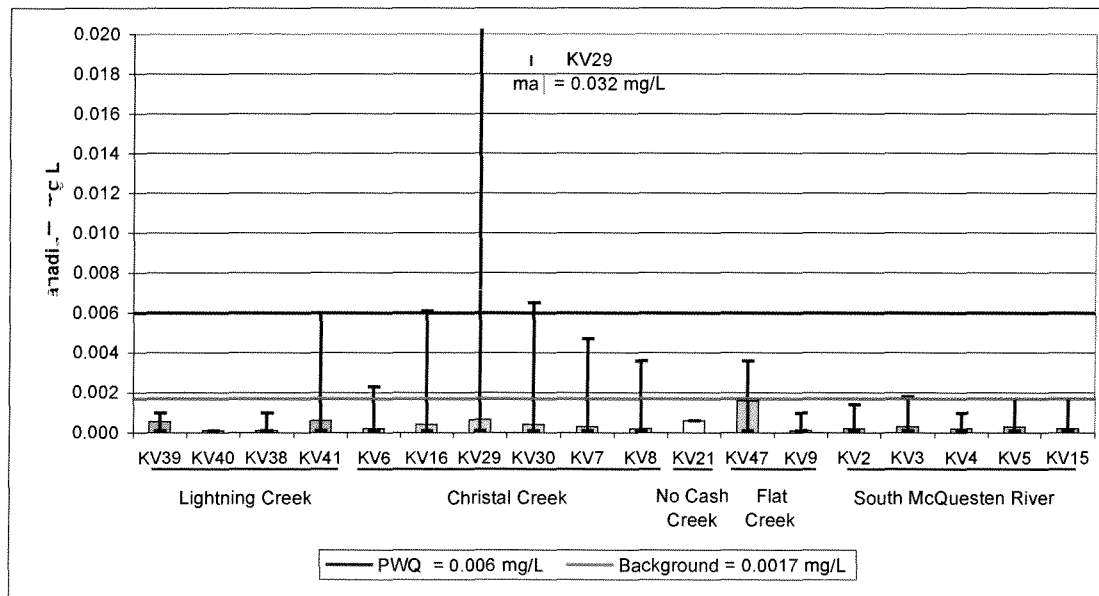


Figure .48 > Vanadium mg/L Median Values with Minimum and Maximum for Receiving Environment Stations July 20 2004 2007.

Figure .49 > ^inc mg/L Summar Statistics or Receiving nvironment Stations 1994 2007.

Station	L CWQG	L CWQG	Background CWQG	n	mean	median	stdev	min	ma	n	M L
KV39	0	100	100	2	0.32	0.32	0.065	0.271	0.36		0
KV40	0	0	0	2	0.01	0.01	0.004	0.003	0.01		0
KV38	0	30	0	10	0.03	0.03	0.013	0.014	0.05		0
KV41	0	47	11	19	0.05	0.03	0.068	0.004	0.28		0
KV6	0	91	78	82	0.32	0.25	0.274	0.001	1.75		0
KV16	0	100	95	42	0.81	0.29	1.305	0.135	5.41		0
KV29	0	100	100	46	12.8	4.33	18.87	0.658	66.4		0
KV30	0	100	95	41	1.02	0.42	1.413	0.111	5.79		0
KV7	0	100	85	80	0.34	0.26	0.237	0.048	1.31		0
KV8	0	100	98	40	0.42	0.32	0.341	0.118	1.86		0
KV21	0	100	100	2	3.95	3.95	1.146	3.140	4.76		0
KV47	0	94	94	16	0.25	0.24	0.116	0.003	0.44		0
KV9	0	78	19	27	0.09	0.05	0.084	0.020	0.30		0
KV2	0	71	6	51	0.06	0.04	0.057	0.010	0.36		0
KV3	0	69	4	26	0.05	0.04	0.035	0.016	0.19		0
KV4	0	74	13	47	0.07	0.05	0.066	0.010	0.29		0
KV5	0	43	0	30	0.03	0.03	0.015	0.010	0.07		0
KV15	0	25	0	16	0.02	0.02	0.017	0.003	0.06		0

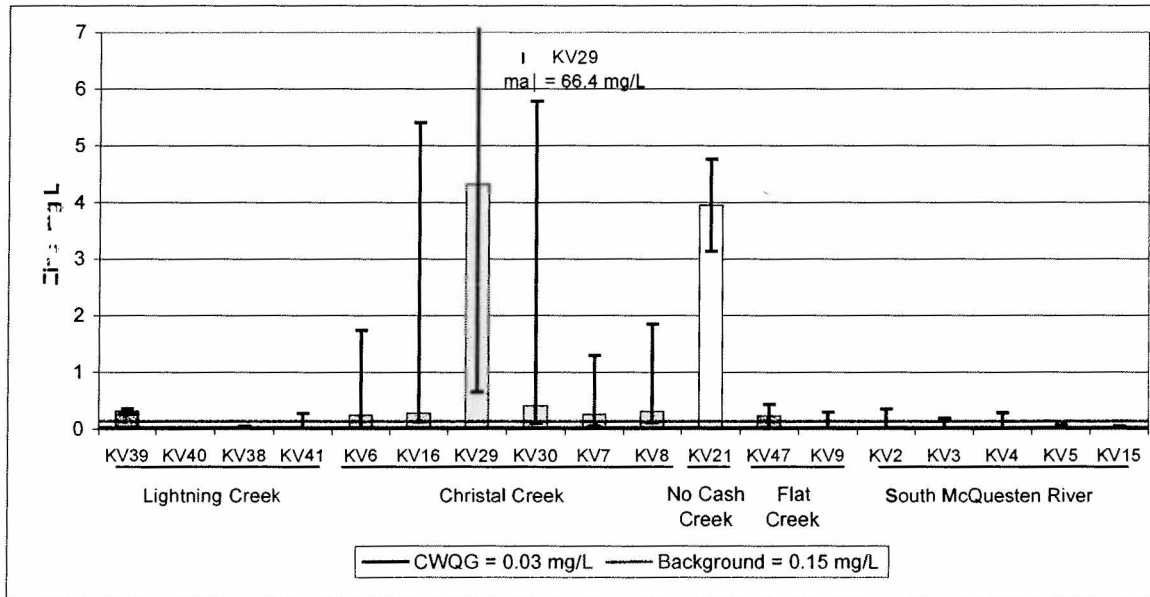


Figure .49 > ^inc mg/L Median Values ith Minimum and Ma|imum or Receiving nvironment Stations 1994 2007.

Figure .50 > Ironium mg/L Summar Statistics or Receiving nvironment Stations 1994 2007.

Station	L PWQ	L PWQ	Background PWQ	n	mean	median	stdev	min	ma  n	M L
KV39	0	0	0	1	0.001	0.001		0.001	0.001	1
KV40	50	0	50	2	0.004	0.004	0.004	0.001	0.006	2
KV38	22	0	22	9	0.002	0.001	0.002	0.001	0.006	9
KV41	18	0	18	11	0.002	0.001	0.002	0.001	0.006	9
KV6	28	0	28	47	0.002	0.001	0.002	0.001	0.006	47
KV16	16	0	16	43	0.002	0.001	0.002	0.001	0.006	42
KV29	20	2	22	45	0.003	0.001	0.003	0.001	0.010	38
KV30	18	0	18	40	0.002	0.001	0.002	0.001	0.006	39
KV7	19	0	19	42	0.002	0.001	0.002	0.001	0.006	38
KV8	16	0	16	37	0.001	0.002	0.002	0.001	0.006	36
KV21	50	0	50	2	0.004	0.004	0.004	0.001	0.006	2
KV47	60	0	60	5	0.004	0.006	0.002	0.001	0.006	5
KV9	17	0	17	12	0.002	0.001	0.002	0.001	0.006	12
KV2	22	0	22	37	0.002	0.001	0.002	0.001	0.006	36
KV3	15	0	15	20	0.002	0.001	0.002	0.001	0.006	19
KV4	25	0	25	12	0.002	0.001	0.002	0.001	0.006	12
KV5	14	0	14	29	0.002	0.001	0.002	0.001	0.006	28
KV15	14	0	14	14	0.002	0.001	0.002	0.001	0.006	13

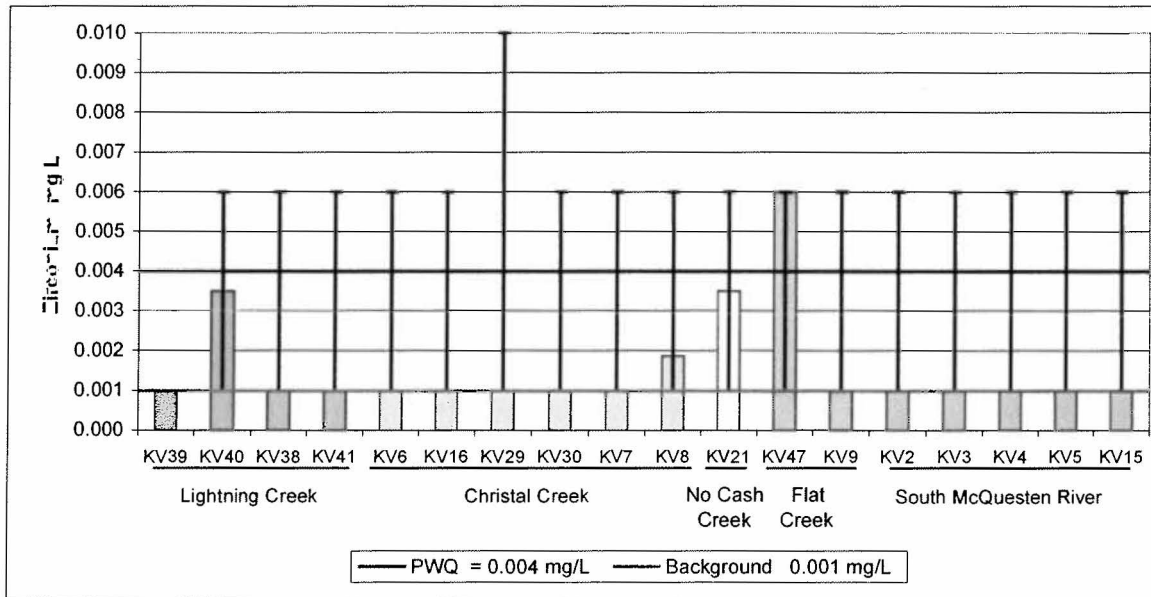


Figure .50 > Ironium mg/L Median Values with Minimum and Maximum for Receiving Environment Stations 1994-2007.