Supporting Information for

Lentic, Lotic, and Sulphate-dependent Waterborne Selenium Screening Guidelines for Freshwater Systems

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SUPPORTING INFORMATION TEXT

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S1. Tissue Selenium Relationships

For field data validation of the water Se screening guidelines, egg or ovary Se concentrations were estimated from whole-body or muscle Se concentrations based on species-specific relationships when necessary. The data and regression statistics are provided in Table S10.

S2. Comparison of Sulphate-dependent Water Selenium Screening Guidelines based on 50th, 75th, and 90th Quantiles

The sulphate-dependent water Se screening guideline for selenate-dominated waters was based on the 75th quantile of the multiple quantile regression analysis. The sulphate-dependent water Se screening guidelines that would result from use of the 50th or 90th quantiles are compared to the 75th quantile results in Figure S10 and the field validation results based on the 50th and 90th quantiles are provided in Figures S11.

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SUPPORTING INFORMATION TABLES

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Lower San Diego Creek, CA	Algae	4.1	0.64	156	4.1	0.6	156	Presser and Luoma 2009[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Presser</Author><Year>2009</Year><RecNum>1426</RecNum><record><rec-number>1426</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1426</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Presser, T.S.</author><author>Luoma, S.N.</author></authors></contributors><titles><title>Modeling of selenium for the San Diego Creek watershed and Newport Bay, California</title></titles><keywords><keyword>selenium, Kd, TTF, trophic transfer, Newport Bay, San Diego Creek</keyword></keywords><dates><year>2009</year></dates><pub-location>Menlo Park, CA, USA</pub-location><publisher>US Geological Survey</publisher><call-num>Open-File Report 2009-1114</call-num><urls></urls></record></Cite></EndNote>]
Fording River, BC	Fine silt, decomposing Hydrurus	8.6	2.41	280	9.1	1.9	211	McDonald and Stosher 1998[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>McDonald</Author><Year>1998</Year><RecNum>641</RecNum><record><rec-number>641</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">641</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>McDonald, L.E.</author><author>Strosher, M.M.</author></authors></contributors><titles><title>Selenium mobilization from surface coal mining in the Elk River basin, British Columbia: A survey of water, sediment and biota</title></titles><keywords><keyword>selenium, Elk Valley, British Columbia, EVSTF</keyword></keywords><dates><year>1998</year></dates><pub-location>Cranbrook, BC, Canada</pub-location><publisher>Ministry of Environment, Land and Parks</publisher><urls></urls></record></Cite></EndNote>]
Fording River, BC	Fine silt	9.6	1.53	159				McDonald and Stosher 1998[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>McDonald</Author><Year>1998</Year><RecNum>641</RecNum><recor

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Michel Creek, BC	Silt, fine sand	0.6	0.5	833	2.1	1.1	522	d><rec-number>641</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">641</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>McDonald, L.E.</author><author>Strosher, M.M.</author></authors></contributors><titles><title>Selenium mobilization from surface coal mining in the Elk River basin, British Columbia: A survey of water, sediment and biota</title></titles><keywords><keyword>selenium, Elk Valley, British Columbia, EVSTF</keyword></keywords><dates><year>1998</year></dates><pub-location>Cranbrook, BC, Canada</pub-location><publisher>Ministry of Environment, Land and Parks</publisher><urls></urls></record></Cite></EndNote>] McDonald and Stosher 1998[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>McDonald</Author><Year>1998</Year><RecNum>641</RecNum><record><rec-number>641</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">641</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>McDonald, L.E.</author><author>Strosher, M.M.</author></authors></contributors><titles><title>Selenium mobilization from surface coal mining in the Elk River basin, British Columbia: A survey of water, sediment and biota</title></titles><keywords><keyword>selenium, Elk Valley, British Columbia, EVSTF</keyword></keywords><dates><year>1998</year></dates><pub-location>Cranbrook, BC, Canada</pub-location><publisher>Ministry of Environment, Land and Parks</publisher><urls></urls></record></Cite></EndNote>]
Michel Creek, BC	Silt, decomposing Hydrurus	7.1	2.32	327				McDonald and Stosher 1998[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>McDonald</Author><Year>1998</Year><RecNum>641</RecNum><record><rec-number>641</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">641</key></foreign-keys><ref-type

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								name="Report">27</ref-type><contributors><authors><author>McDonald, L.E.</author><author>Strosher, M.M.</author></authors></contributors><titles><title>Selenium mobilization from surface coal mining in the Elk River basin, British Columbia: A survey of water, sediment and biota</title></titles><keywords><keyword>selenium, Elk Valley, British Columbia, EVSTF</keyword></keywords><dates><year>1998</year></dates><pub-location>Cranbrook, BC, Canada</pub-location><publisher>Ministry of Environment, Land and Parks</publisher><urls></urls></record></Cite></EndNote>]
								Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Merced River, CA (ET6; Fall 1987)	Detritus	<1	1.2	1200	1.0	0.8	783	Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite
Merced River, CA (ET6; Fall 1987)	Algae	<1	1.9	1900				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-
Merced River, CA (ET6; Spring 1987)	Detritus	<1	1.1	1100				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Merced River, CA (ET6; Spring 1987)	Algae	<1	0.15	150				Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>199
Mud Slough, CA (GT5; Fall 1987)	Detritus	3	22	7333	5.2	6.7	1296	

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								3</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of
Mud Slough, CA (GT5; Fall 1987)	Algae	3	7.4	2467				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Mud Slough, CA (GT5; Spring 1987)	Detritus	9	7.9	878				Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><
Mud Slough, CA (GT5; Spring 1987)	Algae	9	1.6	178				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and
Salt Slough, CA (GT4; Fall 1987)	Detritus	3	8.9	2967	6.2	2.8	453	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Salt Slough, CA (GT4; Fall 1987)	Algae	3	0.38	127				Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-
Salt Slough, CA (GT4; Spring 1987)	Detritus	13	7.9	608				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ.
Salt Slough, CA (GT4; Spring 1987)	Algae	13	2.4	185				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
San Joaquin River, CA (SJR1; Fall 1987)	Detritus	<1	0.42	420	1.0	0.3	302	Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-
San Joaquin River, CA (SJR1; Fall 1987)	Algae	<1	0.34	340				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch
San Joaquin River, CA (SJR1; Spring 1987)	Detritus	<1	0.58	580				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
San Joaquin River, CA (SJR1; Spring 1987)	Algae	<1	0.1	100				Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
San Joaquin River, CA (SJR2; Fall 1987)	Detritus	3	6.6	2200	5.7	2.4	423	Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">142

ED_013890_00032364-00020

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								7</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-
San Joaquin River, CA (SJR2; Fall 1987)	Algae	3	1.2	400				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
San Joaquin River, CA (SJR2; Spring 1987)	Detritus	11	3.4	309				Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal
San Joaquin River, CA (SJR2; Spring 1987)	Algae	11	1.3	118				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination
San Joaquin River, CA (SJR3; Fall 1987)	Detritus	1	1.2	1200	1.4	0.7	525	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								& Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
San Joaquin River, CA (SJR3; Fall 1987)	Algae	1	0.39	390				Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
San Joaquin River, CA (SJR3; Spring 1987)	Detritus	<2	1.3	650				Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-

ED_013890_00032364-00024

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-
San Joaquin River, CA (SJR3; Spring 1987)	Algae	<2	0.5	250				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Stanislaus River, CA (ET7; Fall 1987)	Detritus	<1	0.8	800	1.0	0.3	313	Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki,
Stanislaus River, CA (ET7; Fall 1987)	Algae	<1	0.07	70				

ED_013890_00032364-00026

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-
Stanislaus River, CA (ET7; Spring 1987)	Detritus	<1	0.71	710				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Stanislaus River, CA (ET7; Spring 1987)	Algae	<1	0.24	240				Casey 2005[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and
Luscar Creek, AB	Biofilm, filamentous algae, fine sed.	10.7	3.7	346	10.7	3.7	346	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Deerlick Creek, AB	Biofilm, fine sed.	0.2	1.0	5000	0.2	1.0	5000	Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>] Casey 2005[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>] McDonald and Stosher 1998[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>McDonald</Author><Year>1998</Year><RecNum>641</RecNum><record><rec-number>641</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">641</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>McDonald, L.E.</author><author>Strosher, M.M.</author></authors></contributors><titles><title>Selenium mobilization from surface coal mining in the Elk River basin, British Columbia: A survey of water, sediment and biota</title></titles><keywords><keyword>selenium, Elk Valley, British Columbia,
Elk River, BC	Silt, sand	2.2	1.18	536	2.2	1.2	536	

ED_013890_00032364-00029

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Angus Creek, ID	Aquatic plant	<0.5	0.9	1800	1.5	1.5	1032	EVSTF</keyword></keywords><dates><year>1998</year></dates><pub-location>Cranbrook, BC, Canada</pub-location><publisher>Ministry of Environment, Land and Parks</publisher><urls></urls></record></Cite></EndNote>] Hamilton et al. 2002[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Hamilton</Author><Year>2002</Year><RecNum>613</RecNum><record><rec-number>613</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">613</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author><author>Lamothe, P.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: June 2000</title></titles><keywords><keyword>selenium, monitoring, bioaccumulation</keyword></keywords><dates><year>2002</year></dates><pub-location>Yankton, SD and Denver, CO, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>]
Angus Creek, ID	Aquatic plant	6	2	333				Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates

ED_013890_00032364-00030

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>]
Angus Creek, ID	Aquatic plant	<2	2.8	1400				Hamilton and Buhl 2003b[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>1420</RecNum><record><rec-number>1420</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1420</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: May 2001</title></titles><keywords><keyword>selenium, bioaccumulation, Idaho</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>]
Angus Creek, ID	Aquatic plant	0.816	1.1	1348				GYC 2005[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Greater Yellowstone Coalition</Author><Year>2005</Year><RecNum>1963</RecNum><record><rec-number>1963</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1963</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Greater Yellowstone Coalition,</author></authors></contributors><titles><title>Technical report on selenium concentrations in water, macrophytes, macroinvertebrates, and fish.</title></titles><dates><year>2005</year></dates><urls></urls></record></Cite></EndNote>]
Trail Creek, ID	Aquatic plant	<0.5	0.8	1600	1.6	1.2	738	Hamilton et al. 2002[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2002</Year><RecNum>613</RecNum><record

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								><rec-number>613</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">613</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author><author>Lamothe, P.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: June 2000</title></titles><keywords><keyword>selenium, monitoring, bioaccumulation</keyword></keywords><dates><year>2002</year></dates><pub-location>Yankton, SD and Denver, CO, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton et al. 2002[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2002</Year><RecNum>613</RecNum><record><rec-number>613</rec-number><foreign-
Trail Creek, ID	Aquatic plant	5	1.7	340				
Upper Slug Creek, ID	Aquatic plant	<0.5	1.1	2200	1.9	1.3	709	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">613</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author><author>Lamothe, P.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: June 2000</title></titles><keywords><keyword>selenium, monitoring, bioaccumulation</keyword></keywords><dates><year>2002</year></dates><pub-location>Yankton, SD and Denver, CO, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton et al. 2002[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2002</Year><RecNum>613</RecNum><record><rec-number>613</rec-number><foreign-keys><key app="EN" db-
Upper Slug Creek, ID	Aquatic plant	7	1.6	229				
Lower Slug Creek, ID	Aquatic plant	<0.5	1.5	3000	1.7	1.6	922	

ED_013890_00032364-00033

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">613 </key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author><author>Lamothe, P.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: June 2000</title></titles><keywords><keyword>selenium, monitoring, bioaccumulation</keyword></keywords><dates><year>2002</year></dates><pub-location>Yankton, SD and Denver, CO, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612 </key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton et al. 2002[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2002</Year><RecNum>613</RecNum><record><rec-number>613</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">613
Lower Slug Creek, ID	Aquatic plant	6	1.7	283				
Dry Valley Creek, ID	Aquatic plant	<0.5	3.8	7600	2.0	4.1	2045	

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author><author>Lamothe, P.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: June 2000</title></titles><keywords><keyword>selenium, monitoring, bioaccumulation</keyword></keywords><dates><year>2002</year></dates><pub-location>Yankton, SD and Denver, CO, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>]
Dry Valley Creek, ID	Aquatic plant	8	4.4	550				Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>]
Sheep Creek, ID	Aquatic plant	<0.5	0.6	1200	2.0	0.8	424	Hamilton et al. 2002[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2002</Year><RecNum>613</RecNum><record><rec-number>613</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">613</key></foreign-keys><ref-type

ED_013890_00032364-00035

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Sheep Creek, ID	Aquatic plant	8	1.2	150				name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author><author>Lamothe, P.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: June 2000</title></titles><keywords><keyword>selenium, monitoring, bioaccumulation</keyword></keywords><dates><year>2002</year></dates><pub-location>Yankton, SD and Denver, CO, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton and Buhl 2003b[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>1420</RecNum><record><rec-number>1420</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1420</key></foreign-keys><ref-type name="Report">27</ref-
Upper Georgetown Creek, ID	Aquatic plant	11	3.7	336	11.0	3.7	336	

ED_013890_00032364-00036

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: May 2001</title></titles><keywords><keyword>selenium, bioaccumulation, Idaho</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>] Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>]; TtEMI 2002[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>TtEMI (Tetra Tech EM Inc.)</Author><Year>2002</Year><RecNum>1964</RecNum><record><rec-number>1964</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1964</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>TtEMI (Tetra Tech EM Inc.),</author></authors></contributors><titles><title>Final area wide human health and
Upper East Mill Creek, ID	Aquatic plant	70	30.3	429	70.5	30.3	429	

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								ecological risk assessment. Selenium Project, Southeast Idaho Phosphate Mining Resource Area</title></titles><dates><year>2002</year></dates><pub-location>Boise, ID, USA</pub-location><urls></urls></record></Cite></EndNote>]
Lower East Mill Creek, ID	Aquatic plant	69	49.9	723	69.0	49.9	723	Hamilton and Buhl 2003a[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>Hamilton</Author><Year>2003</Year><RecNum>612</RecNum><record><rec-number>612</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">612</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Hamilton, S.J.</author><author>Buhl, K.J.</author></authors></contributors><titles><title>Selenium and other trace elements in water, sediment, aquatic plants, aquatic invertebrates, and fish from streams in southeastern Idaho near phosphate mining operations: September 2000</title></titles><keywords><keyword>selenium, Idaho, phosphate mining, bioaccumulation</keyword></keywords><dates><year>2003</year></dates><pub-location>Yankton, SD, USA</pub-location><publisher>U.S. Geological Survey</publisher><urls></urls></record></Cite></EndNote>]; TtEMI 2002[ADDIN EN.CITE <EndNote><Cite Hidden="1"><Author>TtEMI (Tetra Tech EM Inc.)</Author><Year>2002</Year><RecNum>1964</RecNum><record><rec-number>1964</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1964</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>TtEMI (Tetra Tech EM Inc.),</author></authors></contributors><titles><title>Final area wide human health and ecological risk assessment. Selenium Project, Southeast Idaho Phosphate Mining Resource Area</title></titles><dates><year>2002</year></dates><pub-location>Boise, ID, USA</pub-location><urls></urls></record></Cite></EndNote>]
Smoky Creek, ID	Aquatic plant	<0.5	0.79	1580	0.5	0.8	1580	GYC 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Deer Creek, ID	Aquatic plant	1.57	3.6	2293	1.6	3.6	2293	ExcludeYear="1"><Author>Greater Yellowstone Coalition</Author><Year>2005</Year><RecNum>1963</RecNum><record><rec-number>1963</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1963</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Greater Yellowstone Coalition,</author></authors></contributors><titles><title>Technical report on selenium concentrations in water, macrophytes, macroinvertebrates, and fish.</title></titles><dates><year>2005</year></dates><urls></urls></record></Cite></EndNote>] GYC 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Greater Yellowstone Coalition</Author><Year>2005</Year><RecNum>1963</RecNum><record><rec-number>1963</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1963</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Greater Yellowstone Coalition,</author></authors></contributors><titles><title>Technical report on selenium concentrations in water, macrophytes, macroinvertebrates, and fish.</title></titles><dates><year>2005</year></dates><urls></urls></record></Cite></EndNote>]
Crow Creek above Sage Creek, ID	Aquatic plant	0.986	1.82	1846	1.9	2.1	1096	GYC 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Greater Yellowstone Coalition</Author><Year>2005</Year><RecNum>1963</RecNum><record><rec-number>1963</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1963</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Greater Yellowstone Coalition,</author></authors></contributors><titles><title>Technical report on selenium

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Crow Creek on Toner Ranch, ID	Aquatic plant	3.565	2.32	651				concentrations in water, macrophytes, macroinvertebrates, and fish.</title></titles><dates><year>2005</year></dates><urls></urls></record></Cite></EndNote>] GYC 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Greater Yellowstone Coalition</Author><Year>2005</Year><RecNum>1963</RecNum><record><rec-number>1963</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1963</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Greater Yellowstone Coalition,</author></authors></contributors><titles><title>Technical report on selenium concentrations in water, macrophytes, macroinvertebrates, and fish.</title></titles><dates><year>2005</year></dates><urls></urls></record></Cite></EndNote>]
Sage Creek on Porter Ranch, ID	Aquatic plant	7.68	3.85	501	7.7	3.9	501	GYC 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Greater Yellowstone Coalition</Author><Year>2005</Year><RecNum>1963</RecNum><record><rec-number>1963</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1963</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Greater Yellowstone Coalition,</author></authors></contributors><titles><title>Technical report on selenium concentrations in water, macrophytes, macroinvertebrates, and fish.</title></titles><dates><year>2005</year></dates><urls></urls></record></Cite></EndNote>]
Alexander Creek, BC (AC)	Cladophora	0.9	4.49	4989	0.7	1.9	2579	Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2006</Year><RecNum>1425</RecNum><record><rec-number>1425</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">142

ED_013890_00032364-00040

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								5</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Guiguer, K.R.</author><author>Russel, C.K.</author></authors></contributors><titles><title>Food chain transfer of selenium in lentic and lotic habitats of a western Canadian watershed.</title><secondary-title>Ecotoxicology and Environmental Safety</secondary-title></titles><periodical><full-title>Ecotoxicology and Environmental Safety</full-title><abbr-1>Ecotoxicol. Environ. Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr-2><abbr-3>Ecotoxicology & Environmental Safety</abbr-3></periodical><pages>175-188</pages><volume>63</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-
Alexander Creek, BC (AC)	Epilithon/periphyton	0.6	0.8	1333				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Fording River, BC (FR)	Epilithon (biofilm)[2]	20.1	5.43	270	20.1	3.6	181	Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2006</Year><RecNum>1425</RecNum><record><rec-number>1425</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Guiguer, K.R.</author><author>Russel, C.K.</author></authors></contributors><titles><title>Food chain transfer of selenium in lentic and lotic habitats of a western Canadian watershed.</title><secondary-title>Ecotoxicology and Environmental Safety</secondary-title></titles><periodical><full-title>Ecotoxicology and Environmental Safety</full-title><abbr-1>Ecotoxicol. Environ. Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr-2><abbr-3>Ecotoxicology & Environmental Safety</abbr-3></periodical><pages>175-188</pages><volume>63</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</year></dates><urls></urls></record></Cite></EndNote>]
Fording River, BC (FR)	Cladophora	20.1	1.11	55				Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2006</Year><RecNum>1425</RecNum><record><rec-number>1425</rec-number><foreign-keys><key app="EN" db-

ED_013890_00032364-00042

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Guiguer, K.R.</author><author>Russel, C.K.</author></authors></contributors><titles><title>Food chain transfer of selenium in lentic and lotic habitats of a western Canadian watershed.</title><secondary-title>Ecotoxicology and Environmental Safety</secondary-title></titles><periodical><full-title>Ecotoxicology and Environmental Safety</full-title><abbr-1>Ecotoxicol. Environ. Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr-2><abbr-3>Ecotoxicology & Environmental Safety</abbr-3></periodical><pages>175-188</pages><volume>63</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2006</Year><RecNum>1425</RecNum><record><rec-number>1425</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Guiguer, K.R.</author><author>Russel, C.K.</author></authors></contributors><titles><title>Food chain transfer of selenium in lentic and lotic habitats of a western Canadian watershed.</title><secondary-title>Ecotoxicology and Environmental Safety</secondary-title></titles><periodical><full-title>Ecotoxicology and Environmental Safety</full-title><abbr-1>Ecotoxicol. Environ. Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr-2><abbr-3>Ecotoxicology & Environmental Safety</abbr-3></periodical><pages>175-188</pages><volume>63</volume><keywords><keyword>selenium, bioaccumulation, trophic
Fording River, BC (FR)	Moss	20.1	7.94	395				

ED_013890_00032364-00043

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Line Creek, BC (LC)	Epilithon (biofilm)[2]	20.9	2.19	105	20.9	2.2	105	transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2006</Year><RecNum>1425</RecNum><record><rec-number>1425</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Guiguer, K.R.</author><author>Russel, C.K.</author></authors></contributors><titles><title>Food chain transfer of selenium in lentic and lotic habitats of a western Canadian watershed.</title><secondary-title>Ecotoxicology and Environmental Safety</secondary-title></titles><periodical><full-title>Ecotoxicology and Environmental Safety</full-title><abbr-1>Ecotoxicol. Environ. Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr-2><abbr-3>Ecotoxicology & Environmental Safety</abbr-3></periodical><pages>175-188</pages><volume>63</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default"
Elk River, BC (EL1 [747])	Epilithon/periphyton	2.2	1.28	582	4.0	1.8	457	

ED_013890_00032364-00044

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-
Elk River, BC (EL1 [L11])	Epilithon/periphyton	3.3	1.5	455				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-
Elk River, BC (EL1)	Epilithon/periphyton	8.6	2.3	267				

ED_013890_00032364-00046

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Elk River, BC (EL1)	Epilithon/periphyton	4.2	2.6	619				Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"
Elk River, BC (EL12 [745])	Epilithon/periphyton	0.1	0.31	3100	0.4	1.0	2688	

ED_013890_00032364-00047

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden,
Elk River, BC (EL12 [L1])	Epilithon/periphyton	0.8	1.3	1625				

ED_013890_00032364-00048

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii
Elk River, BC (EL12)	Epilithon/periphyton	0.7	2.7	3857				

ED_013890_00032364-00049

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and
Elk River, BC (EL20 [750])	Epilithon/periphyton	0.4	0.78	1950	0.6	0.7	1232	

ED_013890_00032364-00050

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk
Elk River, BC (EL20 [L4])	Epilithon/periphyton	0.9	0.7	778				

ED_013890_00032364-00051

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Ewin Creek, BC (L17)	Epilithon/periphyton	1.3	2	1538	1.3	2.0	1538	Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-
Fording River, BC (FO22 [746])	Epilithon/periphyton	8.6	1.56	181	12.1	1.7	142	

ED_013890_00032364-00052

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><titl
Fording River, BC (FO22 [L3])	Epilithon/periphyton	17	1.9	112				

ED_013890_00032364-00053

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								e><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British
Fording River, BC (FO23)	Epilithon/periphyton	37.3	8.9	239	29.9	5.8	195	

ED_013890_00032364-00054

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-
Fording River, BC (FO23)	Epilithon/periphyton	23.9	3.8	159				

ED_013890_00032364-00055

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Fording River, BC (FO9 [L5])	Epilithon/periphyton	8.3	1.3	157	8.3	1.3	157	
Fording River, BC (MP1)	Epilithon/periphyton	12.1	5.1	421	12.1	5.1	421	Orr et al. 2012[ADDIN EN.CITE

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								<EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr,
Line Creek, BC (LI24 [L6])	Epilithon/periphyton	1.8	2.6	1444	1.8	2.6	1444	

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default"
Line Creek, BC (LI8 [749])	Epilithon/periphyton	10.5	1.28	122	16.0	2.3	145	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-
Line Creek, BC (LI8)	Epilithon/periphyton	24.5	4.2	171				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water,
Michel Creek, BC (MI2 [751])	Epilithon/periphyton	7.1	1.26	177	7.0	1.9	273	

ED_013890_00032364-00060

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Michel Creek, BC (MI2 [L9])	Epilithon/periphyton	7.4	1.5	203				Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-
Michel Creek, BC (MI2)	Epilithon/periphyton	7.4	3.3	446				

ED_013890_00032364-00061

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser,
Michel Creek, BC (MI2)	Epilithon/periphyton	6.1	2.1	344				

ED_013890_00032364-00062

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Michel Creek, BC (MI3)	Epilithon/periphyton	1.9	1.3	684	1.9	1.3	684	C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck
Cheviot Creek, AB (CH2)	Periphyton	32	1.58	49	32.0	1.6	49	

ED_013890_00032364-00064

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Gregg River, AB (GR1)	Periphyton	0.79	0.94	1190	0.8	0.9	1190	Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>]

ED_013890_00032364-00065

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Gregg River, AB (GR2)	Periphyton	13.9	1.32	95	7.5	1.5	206	Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>]
Gregg River, AB (GR2)	Periphyton	4	1.79	448				Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type

ED_013890_00032364-00066

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for
Gregg River, AB (GR5)	Periphyton	4.4	1.34	305	4.4	1.3	305	

ED_013890_00032364-00067

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Gregg River, AB (GR6)	Periphyton	3.4	0.77	226	2.4	0.9	385	Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium
Gregg River, AB (GR6)	Periphyton	1.7	1.11	653				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Harris Creek, AB (HC2)	Periphyton	0.526	0.38	722	0.5	0.4	722	Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecN
Luscar Creek, AB (LUS1)	Periphyton	1.2	2.27	1892	1.4	1.9	1343	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Luscar Creek, AB (LUS1)	Periphyton	1.7	1.62	953				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Luscar Creek, AB (LUS2)	Periphyton	14.7	2.06	140	12.8	1.5	119	periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								<EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>]
Luscar Creek, AB (LUS2)	Periphyton	11.2	1.14	102				Golder 2011; Teck Coal 2013 Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type
Luscar Creek, AB (LUS4)	Periphyton	18.8	3.15	168	18.8	3.2	168	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Mackenzie Creek, AB (MK1)	Periphyton	0.4	0.95	2375	0.4	1.0	2375	name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-</

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>]
Mary Gregg Creek, AB (MG2)	Periphyton	17.4	1.82	105	11.4	2.6	230	Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-
Mary Gregg Creek, AB (MG2)	Periphyton	7.5	3.78	504				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year>
Mary Gregg Creek, AB (MG3)	Periphyton	3.1	1.79	577	3.1	1.8	577	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								</dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum
McLeod River, AB (MR1)	Periphyton	0.26	2.2	8462	0.3	1.2	4412	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><title
McLeod River, AB (MR1)	Periphyton	0.3	0.69	2300				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								s><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year><</dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year><</dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>]
McLeod River, AB (MR2)	Periphyton	3	1.11	370	2.7	1.3	465	Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"
McLeod River, AB (MR2)	Periphyton	2.5	1.46	584				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder
McLeod River, AB (MR3)	Periphyton	1.6	2.16	1350	1.6	2.2	1350	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
McLeod River, AB (MR4)	Periphyton	1.6	1.35	844	1.3	0.9	706	Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB,

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">196
McLeod River, AB (MR4)	Periphyton	1	0.59	590				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								5</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta,
McLeod River, AB (MR5)	Periphyton	0.8	0.75	938	0.8	0.8	938	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>]
McLeod River, AB (MR6)	Periphyton	2.5	0.83	332	2.2	1.0	427	Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key
McLeod River, AB (MR6)	Periphyton	2	1.1	550				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
McLeod River, AB (MR7)	Periphyton	1.2	0.72	600	1.2	0.5	408	app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal
McLeod River, AB (MR7)	Periphyton	1.3	0.36	277				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal
Prospect Creek, AB (PC1)	Periphyton	1.9	1.17	616	1.9	1.2	616	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>]
Prospect Creek, AB (PC3)	Periphyton	1.6	0.71	444	1.1	0.6	528	
Prospect Creek, AB (PC3)	Periphyton	0.7	0.44	629				Golder 2011[ADDIN EN.CITE <EndNote><Cite

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-
Thornton Creek, AB (TH1)	Periphyton	0.5	2.22	4440	0.5	2.2	4440	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal
Thornton Creek, AB (TH2)	Periphyton	4.3	5.54	1288	4.3	5.5	1288	

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]; Teck Coal 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Teck Coal Limited</Author><Year>2013</Year><RecNum>1965</RecNum><record><rec-number>1965</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1965</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Teck Coal Limited,</author></authors></contributors><titles><title>Unpublished Excel spreadsheet: Surface water selenium data</title></titles><dates><year>2013</year></dates><pub-location>Hinton, Alberta, Canada</pub-location><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-
SF Tincup Creek (SFTC-1)	Periphyton	0.43	0.82	1907	0.4	0.5	1369	

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
SF Tincup Creek (SFTC-1)	Periphyton	0.20	0.63	3150				simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure
SF Tincup Creek (SFTC-1)	Periphyton	0.44	1.15	2614				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation
SF Tincup Creek (SFTC-1)	Periphyton	0.67	0.15	224				
Crow Creek, ID (CC-75)	Periphyton	0.57	1.01	1772	0.6	1.0	1683	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF,
Crow Creek, ID (CC-75)	Periphyton	0.46	0.68	1478				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Crow Creek, ID (CC-75)	Periphyton	0.33	1.1	3333				BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type
Crow Creek, ID (CC-75)	Periphyton	1.2	2.7	2250				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-
Crow Creek, ID (CC-75)	Periphyton	0.8	0.55	688				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								num><urls></urls></record></Cite></EndNote>]
Crow Creek, ID (CC-150)	Periphyton	0.67	1.2	1791	1.0	1.1	1160	Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Crow Creek, ID (CC-150)	Periphyton	0.92	1.37	1489				Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Crow Creek, ID (CC-150)	Periphyton	0.68	0.77	1132				Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Crow Creek, ID (CC-150)	Periphyton	1.4	2.4	1714				Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNu

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								m>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO,
Crow Creek, ID (CC-150)	Periphyton	1.6	0.65	406				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Crow Creek, ID (CC-350)	Periphyton	0.82	1.5	1829	0.8	1.5	1950	USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formatio
Crow Creek, ID (CC-350)	Periphyton	1.1	3.3	3000				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								n Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Crow Creek, ID (CC-350)	Periphyton	0.26	0.77	2962				
Crow Creek, ID (CC-350)	Periphyton	0.89	3.4	3820				Formation Environmental and HabiTech 2012[

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Crow Creek, ID (CC-350)	Periphyton	1.3	0.59	454				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Deer Creek, ID (DC-600)	Periphyton	1.3	1.2	923	1.7	3.4	1928	for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key
Deer Creek, ID (DC-600)	Periphyton	1.5	7.44	4960				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Deer Creek, ID (DC-600)	Periphyton	1.4	8.7	6214				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Deer Creek, ID (DC-600)	Periphyton	3.4	1.65	485				num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><ti
Hoopes Spring, ID (HS)	Periphyton	17.4	2.2	126	25.7	8.9	345	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								tles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"
Hoopes Spring, ID (HS)	Periphyton	20.5	12	585				
Hoopes Spring, ID (HS)	Periphyton	21.4	3.9	182				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium,
Hoopes Spring, ID (HS)	Periphyton	27.3	15	549				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Hoopes Spring, ID (HS)	Periphyton	53.6	35.2	657				enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">177
Hoopes Spring, ID (HS-3)	Periphyton	9.2	6.5	707	19.2	12.7	663	

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Hoopes Spring, ID (HS-3)	Periphyton	18	12	667				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Hoopes Spring, ID (HS-3)	Periphyton	16.1	6.2	385				
Hoopes Spring, ID (HS-3)	Periphyton	26	28.5	1096				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Hoopes Spring, ID (HS-3)	Periphyton	37.5	24.2	645				Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and
Sage Creek, ID (LSV-2C)	Periphyton	9.3	2.6	280	14.3	7.2	507	

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Sage Creek, ID (LSV-2C)	Periphyton	13.5	8.09	599				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								2</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Sage Creek, ID (LSV-2C)	Periphyton	14.3	18.5	1294				Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type>
Sage Creek, ID (LSV-2C)	Periphyton	14.1	11.6	823				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Sage Creek, ID (LSV-2C)	Periphyton	23.4	4.38	187				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Sage Creek, ID (LSV-4)	Periphyton	6.8	7.42	1091	8.3	9.3	1124	Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Sage Creek, ID (LSV-4)	Periphyton	10.1	11.7	1158				Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Crow Creek, ID (CC-1A)	Periphyton	2.7	3.64	1348	2.7	4.4	1640	Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-
Crow Creek, ID (CC-1A)	Periphyton	1.2	3.39	2825				

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Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Crow Creek, ID (CC-1A)	Periphyton	2.2	3.2	1455				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Crow Creek, ID (CC-1A)	Periphyton	2.9	7.1	2448				location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and
Crow Creek, ID (CC-1A)	Periphyton	6.7	5.86	875				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite
Crow Creek, ID (CC-3A)	Periphyton	2.9	3.1	1069	2.6	3.5	1381	
Crow Creek, ID (CC-3A)	Periphyton	1.4	1.89	1350				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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Crow Creek, ID (CC-3A)	Periphyton	1.8	3.8	2111				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Crow Creek, ID (CC-3A)	Periphyton	2.6	14.9	5731				title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation Environmental and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-
Crow Creek, ID (CC-3A)	Periphyton	5.8	1.67	288				

Table S1. Water and particulate Se data for lotic waters.

Water Body / Site	Particulate(s)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
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dw = dry weight
EF = enrichment factor

Table S2. Water and particulate Se data for lentic waters.

					Geometric Means by Site			
Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Reference
Cobb Lake, CO	Mixed filamentous algae	3.8	7.6	2000	3.8	7.6	2000	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Desert Reservoir, CO	*Chara* sp.	12.5	8.8	704	12.5	8.8	704	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Diamond Lake, WY	Mixed filamentous algae	0.3	0.35	1167	0.30	0.19	624	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Diamond Lake, WY	*Chara* sp.	0.3	0.1	333				Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
East Allen Reservoir, WY	Mixed filamentous algae	4.8	3.0	625	4.8	3.0	625	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Galett Lake, WY	Mixed filamentous algae	0.8	0.05	63	0.80	0.12	153	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Galett Lake, WY	*Chara* sp.	0.8	0.3	375				Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Highline Reservoir, CO	*Chara* sp.	4.2	16.8	4000	4.2	16.8	4000	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Larimer Hwy 9 Pond, CO	Mixed filamentous algae	15.9	20.9	1314	15.9	16.9	1064	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Larimer Hwy 9 Pond, CO	*Chara* sp.	15.9	13.7	862				Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Meeboer Lake, WY	*Chara* sp.	0.3	0.1	333	0.3	0.1	333	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Miller's Lake, CO	Mixed filamentous algae	6.0	4.6	767	6.0	4.6	767	type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>] Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Sweitzer Lake, CO	Mixed filamentous algae	9.4	6.5	691	9.4	9.6	1022	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Sweitzer Lake, CO	*Chara* sp.	9.4	14.2	1511				Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Timber Lake, CO	Mixed filamentous algae	2.1	2.3	1095	2.1	2.3	1095	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub type><urls></urls></record></Cite></EndNote>]
Twin Buttes Reservoir, WY	Mixed filamentous algae	7.6	7.8	1026	7.6	7.8	1026	Birkner 1978[ADDIN EN.CITE <EndNote><Cite Exc ExcludeYear="1"><Author>Birkner</Author><Year> number>1338</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</ type><contributors><authors><author>Birkner, J.H. organisms from seleniferous habitats.</title></titles> bioaccumulation</keyword></keywords><dates><ye location><publisher>Colorado State University</pub

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Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								type><urls></urls></record></Cite></EndNote>]
Hyco Reservoir, NC	Phytoplankton	11.5	27	2348	11.5	27.0	2348	Bowie et al. 1996[ADDIN EN.CITE <EndNote><Cite ExcludeYear="1"><Author>Bowie</Author><Year>1 number>12</rec-number><foreign-keys><key app=" id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">12</key type><contributors><authors><author>Bowie, G.L.< G.F.</author><author>Gilmour, C.C.</author><auth G.A.</author><author>Porcella, D.B.</author></aut accumulation in aquatic ecosystems.</title><second title></titles><pages>93-104</pages><volume>90< bioaccumulation</keyword></keywords><dates><ye
TLDD Hacienda evaporation basin, CA (HEBA4, July 1999)	Microphytes	13.5	11.8	874	13.5	11.8	874	Fan et al. 2002[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Fan</Author><Year>200 number>1966</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1966</ type><contributors><authors><author>Fan, T.W.-M D.E.</author><author>Higashi, R.M.</author></auth proteinaceous forms by foodweb organisms of selen title>Aquatic Toxicology</secondary-title></titles><p Toxicol.</abbr-1><abbr-2>Aquat Toxicol</abbr-2></ 84</pages><volume>57</volume><keywords><key biotransformation</keyword></keywords><dates><y
TLDD south evaporation basin, CA (SEB1, July 1999)	Microphytes	7.9	14.8	1873	7.8	9.7	1246	Fan et al. 2002[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Fan</Author><Year>200 number>1966</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1966</ type><contributors><authors><author>Fan, T.W.-M D.E.</author><author>Higashi, R.M.</author></auth proteinaceous forms by foodweb organisms of selen title>Aquatic Toxicology</secondary-title></titles><p Toxicol.</abbr-1><abbr-2>Aquat Toxicol</abbr-2></ 84</pages><volume>57</volume><keywords><key biotransformation</keyword></keywords><dates><y
TLDD south evaporation basin, CA (SEB8, July 1999)	Microphytes	7	16	2286				Fan et al. 2002[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Fan</Author><Year>200 number>1966</rec-number><foreign-keys><key ap
TLDD south evaporation basin, CA (SEB9, July 1999)	Microphytes	13.1	9.7	740				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1966</

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
TLDD south evaporation basin, CA (SEB10, July 1999)	Microphytes	13.3	22.6	1699				type><contributors><authors><author>Fan, T.W.-M D.E.</author><author>Higashi, R.M.</author></auth proteinaceous forms by foodweb organisms of selen title>Aquatic Toxicology</secondary-title></titles><p Toxicol.</abbr-1><abbr-2>Aquat Toxicol</abbr-2></ 84</pages><volume>57</volume><keywords><key biotransformation</keyword></keywords><dates><y Fan et al. 2002[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Fan</Author><Year>200 number>1966</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1966</
TLDD south evaporation basin, CA (SEB1, August 1999)	Microphytes	6	1.5	250				type><contributors><authors><author>Fan, T.W.-M D.E.</author><author>Higashi, R.M.</author></auth proteinaceous forms by foodweb organisms of selen title>Aquatic Toxicology</secondary-title></titles><p Toxicol.</abbr-1><abbr-2>Aquat Toxicol</abbr-2></ 84</pages><volume>57</volume><keywords><key biotransformation</keyword></keywords><dates><y Fan et al. 2002[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Fan</Author><Year>200 number>1966</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1966</
TLDD south evaporation basin, CA (SEB8, August 1999)	Microphytes	5.2	11.7	2250				type><contributors><authors><author>Fan, T.W.-M D.E.</author><author>Higashi, R.M.</author></auth proteinaceous forms by foodweb organisms of selen title>Aquatic Toxicology</secondary-title></titles><p Toxicol.</abbr-1><abbr-2>Aquat Toxicol</abbr-2></ 84</pages><volume>57</volume><keywords><key biotransformation</keyword></keywords><dates><y Fan et al. 2002[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Fan</Author><Year>200 number>1966</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1966</
TLDD south evaporation basin, CA (SEB9, August 1999)	Microphytes	5.1	9.9	1941				type><contributors><authors><author>Fan, T.W.-M D.E.</author><author>Higashi, R.M.</author></auth proteinaceous forms by foodweb organisms of selen title>Aquatic Toxicology</secondary-title></titles><p Toxicol.</abbr-1><abbr-2>Aquat Toxicol</abbr-2></

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Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
TLDD south evaporation basin, CA (SEB10, August 1999)	Microphytes	8.7	8.6	989				84</pages><volume>57</volume><keywords><key biotransformation</keyword></keywords><dates><y Fan et al. 2002[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Fan</Author><Year>200 number>1966</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1966</ type><contributors><authors><author>Fan, T.W.-M D.E.</author><author>Higashi, R.M.</author></auth proteinaceous forms by foodweb organisms of selen title>Aquatic Toxicology</secondary-title></titles><p Toxicol.</abbr-1><abbr-2>Aquat Toxicol</abbr-2></ 84</pages><volume>57</volume><keywords><key biotransformation</keyword></keywords><dates><y Presser and Piper 1998[ADDIN EN.CITE <EndNote ExcludeYear="1"><Author>Presser</Author><Year> number>1967</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1967</ type><contributors><authors><author>Presser, T.S authors><author>Frankenberger, Jr., W.T.</author> authors></contributors><titles><title>Mass balance sources to river to bay</title><secondary-title>Enviro title></titles><pages>153-182</pages><keywords>
Kesterson Reservoir (SLD/Pond 2), CA	Organic detritus, top 5 cm	330	110	333	330.0	110.0	333	Joaquin</keyword></keywords><dates><year>1998 location><publisher>Marcell Dekker Inc.</publisher> Riedel and Sanders 1998[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Riedel</Author><Year>1 number>1367</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1367</ type><contributors><authors><author>Riedel, G.F. J.G.</author></authors></contributors><titles><title
Delaware River (tidal freshwater), DE	Seston	0.26	1.05	4038	0.3	1.1	4038	River.</title><secondary-title>Estuaries</secondary- 90</pages><volume>21</volume><number>1</num Deleware River, speciation, seston, Kd, cadmium, zi nickel</keyword></keywords><dates><year>1998< Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</ type><contributors><authors><author>Saiki, M.K.< T.P.</author></authors></contributors><titles><title
Kesterson Reservoir (Pond 2, May 1983), CA	Detritus	77.7	53.6	690	156.2	82.5	528	drainage water, San Joaquin Valley, California.</titl Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea
Kesterson Reservoir (Pond 2, May 1983), CA	Algae	77.7	59.4	764				Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Kesterson Reservoir (Pond 2, May 1983), CA	Rooted plants	77.7	70.0	901				number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</titl Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19
Kesterson Reservoir (Pond 2, August 1983), CA	Detritus	314	35.7	114				number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</titl Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19
Kesterson Reservoir (Pond 2, August 1983), CA	Algae	314	246	783				number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</titl Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Kesterson Reservoir (Pond 2, August 1983), CA	Rooted plants	314	161	513				Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir
Kesterson Reservoir (Pond 8, May 1983), CA	Detritus	100	51.0	510	63.8	105.7	1657	Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir
Kesterson Reservoir (Pond 8, May 1983), CA	Algae	100	59.0	590				Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir
Kesterson Reservoir (Pond 8, May 1983), CA	Rooted plants	100	59.6	596				Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Kesterson Reservoir (Pond 8, August 1983), CA	Detritus	40.7	133.0	3268				Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote><ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</ type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu
Kesterson Reservoir (Pond 8, August 1983), CA	Algae	40.7	214.0	5258				Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote><ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</ type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu
Kesterson Reservoir (Pond 8, August 1983), CA	Rooted plants	40.7	273	6708				Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote><ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</ type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu
Kesterson Reservoir (Pond 11, May 1983), CA	Detritus	68.3	28.0	410	24.7	32.5	1318	Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote><ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</ type><contributors><authors><author>Saiki, M.K.</

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Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Kesterson Reservoir (Pond 11, May 1983), CA	Algae	68.3	12.5	183				T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</ type><contributors><authors><author>Saiki, M.K.</
Kesterson Reservoir (Pond 11, May 1983), CA	Rooted plants	68.3	34.0	498				T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</ type><contributors><authors><author>Saiki, M.K.</
Kesterson Reservoir (Pond 11, August 1983), CA	Detritus	8.9	67.9	7629				T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote><
Kesterson Reservoir (Pond 11, August 1983), CA	Algae	8.9	23.8	2674				ExcludeYear="1"><Author>Saiki</Author><Year>19

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Kesterson Reservoir (Pond 11, August 1983), CA	Rooted plants	8.9	61.2	6876				number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</titl Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Saiki</Author><Year>19
Volta Wildlife Area (Volta Pond 26, August 1983), CA	Detritus	0.2	1.01	5050	0.2	0.6	2901	number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</titl Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea Saiki and Lowe 1987[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Saiki</Author><Year>19
Volta Wildlife Area (Volta Pond 26, August 1983), CA	Algae	0.2	0.416	2080				number>1368</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title drainage water, San Joaquin Valley, California.</titl Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke sediment, detritus, algae, aquatic plants, plankton, ir

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Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								Kd</keyword></keywords><dates><year>1987</yea
								Saiki and Lowe 1987[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Saiki</Author><Year>19 number>1368</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1368</l type><contributors><authors><author>Saiki, M.K.</ T.P.</author></authors></contributors><titles><title: drainage water, San Joaquin Valley, California.</title Toxicology</secondary-title></titles><periodical><fu Toxicology</full-title><abbr-1>Arch. Environ. Contar 2><abbr-3>Archives of Environmental Contaminatio 670</pages><volume>16</volume><keywords><ke
Volta Wildlife Area (Volta Pond 26, August 1983), CA	Rooted plants	0.2	0.465	2325				sediment, detritus, algae, aquatic plants, plankton, ir Kd</keyword></keywords><dates><year>1987</yea
								Zhang and Moore 1996[ADDIN EN.CITE <EndNote ExcludeYear="1"><Author>Zhang</Author><Year>1 number>1366</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1366</l type><contributors><authors><author>Zhang, Y.</a J.N.</author></authors></contributors><titles><title: system.</title><secondary-title>Environmental Scier title>Environmental Science and Technology</full-tit 1></periodical><pages>2613-2619</pages><volum
Benton Lake (Pool 2 channel), MT	Watermilfoil	4.14	3.22	778	4.1	4.5	1090	speciation, Benton Lake, partitioning, Kd</keyword></keywords><dates><year>1996</yea
								Zhang and Moore 1996[ADDIN EN.CITE <EndNote ExcludeYear="1"><Author>Zhang</Author><Year>1 number>1366</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1366</l type><contributors><authors><author>Zhang, Y.</a J.N.</author></authors></contributors><titles><title: system.</title><secondary-title>Environmental Scier title>Environmental Science and Technology</full-tit 1></periodical><pages>2613-2619</pages><volum
Benton Lake (Pool 2 channel), MT	Small plant roots	4.14	6.32	1527				speciation, Benton Lake, partitioning, Kd</keyword></keywords><dates><year>1996</yea
								Zhang and Moore 1996[ADDIN EN.CITE <EndNote ExcludeYear="1"><Author>Zhang</Author><Year>1 number>1366</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1366</l type><contributors><authors><author>Zhang, Y.</a J.N.</author></authors></contributors><titles><title: system.</title><secondary-title>Environmental Scier title>Environmental Science and Technology</full-tit 1></periodical><pages>2613-2619</pages><volum
Benton Lake (Pool 5 channel), MT	Watermilfoil	0.94	1.17	1245	0.9	1.6	1741	speciation, Benton Lake, partitioning, Kd</keyword></keywords><dates><year>1996</yea
Benton Lake (Pool 5 channel), MT	Small plant roots	0.94	2.29	2436				Zhang and Moore 1996[ADDIN EN.CITE <EndNote

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Benton Lake (Pool 1 channel), MT	Watermilfoil	14.5	5.29	365	14.5	10.9	754	ExcludeYear="1"><Author>Zhang</Author><Year>1 number>1366</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1366</l type><contributors><authors><author>Zhang, Y.</a J.N.</author></authors></contributors><titles><title: system.</title><secondary-title>Environmental Scier title>Environmental Science and Technology</full-tit 1></periodical><pages>2613-2619</pages><volum speciation, Benton Lake, partitioning, Kd</keyword></keywords><dates><year>1996</yea Zhang and Moore 1996[ADDIN EN.CITE <EndNote
Benton Lake (Pool 1 channel), MT	Small plant roots	14.5	22.6	1559				ExcludeYear="1"><Author>Zhang</Author><Year>1 number>1366</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1366</l type><contributors><authors><author>Zhang, Y.</a J.N.</author></authors></contributors><titles><title: system.</title><secondary-title>Environmental Scier title>Environmental Science and Technology</full-tit 1></periodical><pages>2613-2619</pages><volum speciation, Benton Lake, partitioning, Kd</keyword></keywords><dates><year>1996</yea Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E
Barns Lake Wetland, BC (BLW)	*Cladophora*	0.5	4.4	8800	0.5	4.4	8800	ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</l type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</
Fording River Oxbow, BC (FRO)	Epilithon	4.4	7.63	1734	4.4	5.1	1169	Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</l type><contributors><authors><author>Orr, P.L.</au

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Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Fording River Oxbow, BC (FRO)	*Cladophora*	4.4	3.47	789				C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au
Fording Settling Pond, BC (FSP)	Epilithon	42	4.47	106	42.0	4.6	109	C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au
Fording Settling Pond, BC (FSP)	*Chara*	42	6.5	155				C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au
Fording Settling Pond, BC (FSP)	Macrophyte (*Carex*)	42	3.9	93				C.K.</author></authors></contributors><titles><title

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Fording Settling Pond, BC (FSP)	Macrophyte (*Equisetum*)	42	3.9	93				western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk
Goddard Marsh, BC (GM)	Cladophora	94	3.21	34	94.0	5.1	54	River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk
Goddard Marsh, BC (GM)	Macrophyte (*Carex*)	94	3.9	41				River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title
Goddard Marsh, BC (GM)	Macrophyte (*Equisetum*)	94	4.3	46				western Canadian watershed.</title><secondary-titl

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Goddard Marsh, BC (GM)	Macrophyte (*Typha*)	94	12.3	131				title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl
Flathead Pond, BC (FHW)	Moss	0.7	3.89	5557	0.7	3.9	5557	title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2006[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>200 number>1425</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1425</ type><contributors><authors><author>Orr, P.L.</au C.K.</author></authors></contributors><titles><title western Canadian watershed.</title><secondary-titl
Leach Creek Oxbow, BC (LCO)	Moss	0.9	3.67	4078	0.9	3.7	4078	title></titles><periodical><full-title>Ecotoxicology an Saf.</abbr-1><abbr-2>Ecotoxicol Environ Saf</abbr 3></periodical><pages>175-188</pages><volume> trophic transfer, lentic, lotic, Elk River</keyword></keywords><dates><year>2006</ Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201 number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</ type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho
Clode Pond (CL11)	Epipelon	41.9	43.41	1036	35.6	18.9	529	face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Clode Pond (CL11)	Epipelon	30.3	8.193	270				font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201 number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</ type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201 number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</ type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume>
Elk Lakes (EL14)	Epipelon	0.4	0.962	2405	0.4	0.6	1455	westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201 number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</ type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab
Elk Lakes (EL14)	Epipelon	0.4	0.352	880				

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Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Flathead Wetland (FL17)	Epipelon	0.2	0.978	4890	0.2	1.3	6744	3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201. number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</ type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab
Flathead Wetland (FL17)	Epipelon	0.2	1.86	9300				3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201. number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</ type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab
Fording River Oxbow (FO10)	Epipelon	64.9	83.582	1288	47.9	65.3	1365	3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012<

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Fording River Oxbow (FO10)	Epipelon	35.3	51.042	1446				Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201. number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</l type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012<
Goddard Marsh (GO13)	Epipelon	11.6	14.608	1259	15.0	17.0	1130	Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201. number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</l type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012<
Goddard Marsh (GO13)	Epipelon	16.3	18.508	1135				Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E: ExcludeYear="1"><Author>Orr</Author><Year>201 number>1645</rec-number><foreign-keys><key ap
Goddard Marsh (GO13)	Epipelon	18	18.147	1008				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</l

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Henretta Lake (HE27)	Epipelon	14	1.135	81	6.7	2.9	435	type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>201. number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</
Henretta Lake (HE27)	Epipelon	3.2	7.471	2335				type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100 font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite E ExcludeYear="1"><Author>Orr</Author><Year>201. number>1645</rec-number><foreign-keys><key ap id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</
O'Rourke Lake (RL1)	Epipelon	0.2	3.294	16470	0.2	3.3	16470	type><contributors><authors><author>Orr, P.L.</au M.D.</author><author>Franklin, W.</author><autho face="normal" font="default" size="100%">Food cha (</style><style face="italic" font="default" size="100

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
								font="default" size="100%">) ovary selenium concer Columbia.</style></title><secondary-title>Environm title></titles><periodical><full-title>Environmental To Chem.</abbr-1><abbr-2>Environ Toxicol Chem</ab 3></periodical><pages>672-680</pages><volume> westslope cutthroat trout, ovary, diet, water, multi-pa Valley</keyword></keywords><dates><year>2012< Muscatello and Janz 2009[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Muscatello</Author><Ye number>359</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">359</k type><contributors><authors><author>Muscatello, J D.M.</author></authors></contributors><titles><title mining and milling operation.</title><secondary-title title></titles><periodical><full-title>Science of the To 1><abbr-2>Sci Total Environ</abbr-2></periodical> 1325</pages><volume>407</volume><keywords> mining,
Indigo Lake, SK	Periphyton	0.02	0.34	17000	0.02	0.3	17000	Saskatchewan</keyword></keywords><dates><yea Muscatello and Janz 2009[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Muscatello</Author><Ye number>359</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">359</k type><contributors><authors><author>Muscatello, J D.M.</author></authors></contributors><titles><title mining and milling operation.</title><secondary-title title></titles><periodical><full-title>Science of the To 1><abbr-2>Sci Total Environ</abbr-2></periodical> 1325</pages><volume>407</volume><keywords> mining,
Vulture Lake, SK	Periphyton	0.43	0.35	814	0.4	0.4	814	Saskatchewan</keyword></keywords><dates><yea Muscatello et al. 2008[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Muscatello</Author><Ye number>643</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">643</k type><contributors><authors><author>Muscatello, J D.M.</author></authors></contributors><titles><title uranium mining operation in northern Saskatchewan Pollution</secondary-title></titles><periodical><full- Pollut.</abbr-1></periodical><pages>387-393</pag bioaccumulation, biomagnification, food web, trophic
David Lake, SK	Periphyton	<0.1	0.29	2900	0.1	0.3	2900	Saskatchewan</keyword></keywords><dates><yea Muscatello et al. 2008[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Muscatello</Author><Ye number>643</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">643</k type><contributors><authors><author>Muscatello, J D.M.</author></authors></contributors><titles><title
Delta Lake, SK	Periphyton	0.6	1.01	1683	0.6	1.0	1683	uranium mining operation in northern Saskatchewan

Table S2. Water and particulate Se data for lentic waters.

Freshwater Ecosystem	Particulate Type	Water Se (µg/L)	Particulate Se (µg/g dw)	EF (L/kg dw)	Geometric Means by Site: Water Se (µg/L)	Geometric Means by Site: Particulate Se (µg/g dw)	Geometric Means by Site: EF (L/kg dw)	Reference
Unknown Lake, SK	Periphyton	2.3	3.75	1630	2.3	3.8	1630	Pollution</secondary-title></titles><periodical><full- Pollut.</abbr-1></periodical><pages>387-393</pag bioaccumulation, biomagnification, food web, trophic Saskatchewan</keyword></keywords><dates><yea Muscatello et al. 2008[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Muscatello</Author><Ye number>643</rec-number><foreign-keys><key app id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">643</k type><contributors><authors><author>Muscatello, J D.M.</author></authors></contributors><titles><title uranium mining operation in northern Saskatchewan Pollution</secondary-title></titles><periodical><full- Pollut.</abbr-1></periodical><pages>387-393</pag bioaccumulation, biomagnification, food web, trophic Saskatchewan</keyword></keywords><dates><yea

dw = dry weight
EF = enrichment factor

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
Selenate	*Anabaena flos-aquae* (cyanobacterium)	2.7	995	30.4	31		Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>488-494</pages><volume>19</volume><keywords><keyword>selenium, toxicity, bioaccumulation, cyanobacteria</keyword></keywords><dates><year>1990</year></dates><urls></urls></record></Cite></EndNote>]
	Anabaena flos-aquae (cyanobacterium)	2.7	2990	744	249		Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>488-494</pages><volume>19</volume><keywords><keyword>selenium, toxicity, bioaccumulation, cyanobacteria</keyword></keywords><dates><year>1990</year></dates><urls></urls></record></Cite></EndNote>]
	Anabaena flos-aquae (cyanobacterium)	2.7	4930	1218	247		Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal"

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Anabaena flos-aquae (cyanobacterium)	2.7	9720	1313	135		font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>488-494</pages><volume>19</volume><keywords><keyword>selenium, toxicity, bioaccumulation, cyanobacteria</keyword></keywords><dates><year>1990</year></dates><urls></urls></record></Cite></EndNote>] Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>488-494</pages><volume>19</volume><keywords><keyword>selenium, toxicity, bioaccumulation, cyanobacteria</keyword></keywords><dates><year>1990</year></dates><urls></urls></record></Cite></EndNote>]
	Chlamydomonas reinhardtii (green alga)	60	9.5	3.7	389		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
	Chlamydomonas reinhardtii (green alga)	60	92.1	31.1	338		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Chlamydomonas reinhardtii (green alga)	60	934	367	393		id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
	Chlorella pyrenoidosa (green alga)	3.8	2500	3100	1240		Bennett et al. 1986[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Bennett</Author><Year>1986</Year><RecNum>622</RecNum><record><rec-number>622</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">622</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Bennett, W.N.</author><author>Brooks, A.S.</author><author>Boraas, M.E.</author></authors></contributors><titles><title>Selenium uptake and transfer in an aquatic food chain and its effects on fathead minnow larvae.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>513-517</pages><volume>15</volume><keywords><keyword>selenium, fathead minnow, trophic transfer, toxicity</keyword></keywords><dates><year>1986</year></dates><urls></urls></record></Cite></EndNote>]

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Chlorella pyrenoidosa (green alga)	3.8	2500	2600	1040		Bennett et al. 1986[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Bennett</Author><Year>1986</Year><RecNum>622</RecNum><record><rec-number>622</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">622</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Bennett, W.N.</author><author>Brooks, A.S.</author><author>Boraas, M.E.</author></authors></contributors><titles><title>Selenium uptake and transfer in an aquatic food chain and its effects on fathead minnow larvae.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>513-517</pages><volume>15</volume><keywords><keyword>selenium, fathead minnow, trophic transfer, toxicity</keyword></keywords><dates><year>1986</year></dates><urls></urls></record></Cite></EndNote>]
	Selenastrum capricornutum (green alga)	14.4	4	1.1	275		Malchow et al. 1995[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Malchow</Author><Year>1995</Year><RecNum>1358</RecNum><record><rec-number>1358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Malchow, D.E.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Bioaccumulation and toxicity of selenium in </style><style face="italic" font="default" size="100%">Chironomus decorus</style><style face="normal" font="default" size="100%"> larvae fed a diet of seleniferous </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>104-109</pages><volume>29</volume><keywords><keyword>selenium, bioaccumulation, toxicity, trophic transfer, midge, algae, Chironomus, TTF</keyword></keywords><dates><year>1995</year></dates><urls></urls></record></Cite></EndNote>]
	Selenastrum capricornutum (green alga)	14.4	10	2.11	211		Malchow et al. 1995[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Malchow</Author><Year>1995</Year><RecNum>1358</RecNum><record><rec-number>1358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Malchow, D.E.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Bioaccumulation and toxicity of selenium in

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Selenastrum capricornutum (green alga)	14.4	40	7.17	179		</style><style face="italic" font="default" size="100%">Chironomus decorus</style><style face="normal" font="default" size="100%"> larvae fed a diet of seleniferous </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>104-109</pages><volume>29</volume><keywords><keyword>selenium, bioaccumulation, toxicity, trophic transfer, midge, algae, Chironomus, TTF</keyword></keywords><dates><year>1995</year></dates><urls></urls></record></Cite></EndNote>] Malchow et al. 1995[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Malchow</Author><Year>1995</Year><RecNum>1358</RecNum><record><rec-number>1358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Malchow, D.E.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Bioaccumulation and toxicity of selenium in </style><style face="italic" font="default" size="100%">Chironomus decorus</style><style face="normal" font="default" size="100%"> larvae fed a diet of seleniferous </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>104-109</pages><volume>29</volume><keywords><keyword>selenium, bioaccumulation, toxicity, trophic transfer, midge, algae, Chironomus, TTF</keyword></keywords><dates><year>1995</year></dates><urls></urls></record></Cite></EndNote>] Williams et al. 1994[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Williams</Author><Year>1994</Year><RecNum>1435</RecNum><record><rec-number>1435</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1435</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Williams, M.J.</author><author>Ogle, R.S.</author><author>Knight, A.W.</author><author>Burau, R.G.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Effects of sulfate on selenate uptake and toxicity in the green alga </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-
	Selenastrum capricornutum (green alga)	3.3	11.3	17	1504		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Selenastrum capricornutum (green alga)	3.3	107	156	1458		title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>449-453</pages><volume>17</volume><keywords><keyword>selenium, selenate, sulfate, bioaccumulation, algae, Selenastrum</keyword></keywords><dates><year>1994</year></dates><urls></urls></record></Cite></EndNote>] Williams et al. 1994[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Williams</Author><Year>1994</Year><RecNum>1435</RecNum><record><rec-number>1435</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1435</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Williams, M.J.</author><author>Ogle, R.S.</author><author>Knight, A.W.</author><author>Burau, R.G.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Effects of sulfate on selenate uptake and toxicity in the green alga </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>449-453</pages><volume>17</volume><keywords><keyword>selenium, selenate, sulfate, bioaccumulation, algae, Selenastrum</keyword></keywords><dates><year>1994</year></dates><urls></urls></record></Cite></EndNote>]
	Selenastrum capricornutum (green alga)	33	11.3	4	354		Williams et al. 1994[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Williams</Author><Year>1994</Year><RecNum>1435</RecNum><record><rec-number>1435</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1435</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Williams, M.J.</author><author>Ogle, R.S.</author><author>Knight, A.W.</author><author>Burau, R.G.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Effects of sulfate on selenate uptake and toxicity in the green alga </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>449-453</pages><volume>17</volume><keywords><keyword>selenium, selenate, sulfate, bioaccumulation, algae, Selenastrum</keyword></keywords><dates><year>1994</year></dates><urls></urls></record></Cite></EndNote>]

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Selenastrum capricornutum (green alga)	33	107	11	103		Williams et al. 1994[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Williams</Author><Year>1994</Year><RecNum>1435</RecNum><record><rec-number>1435</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1435</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Williams, M.J.</author><author>Ogle, R.S.</author><author>Knight, A.W.</author><author>Burau, R.G.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Effects of sulfate on selenate uptake and toxicity in the green alga </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>449-453</pages><volume>17</volume><keywords><keyword>selenium, selenate, sulfate, bioaccumulation, algae, Selenastrum</keyword></keywords><dates><year>1994</year></dates><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	14.4	105.5	35	332		Dobbs et al. 1996[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Dobbs</Author><Year>1996</Year><RecNum>26</RecNum><record><rec-number>26</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">26</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Dobbs, M.G.</author><author>Cherry, D.S.</author><author>Cairns, Jr., J.</author></authors></contributors><titles><title>Toxicity and bioaccumulation of selenium to a three-trophic level food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>340-347</pages><volume>15</volume><number>3</number><keywords><keyword>selenium, toxicity, bioaccumulation, food chain</keyword></keywords><dates><year>1996</year></dates><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	14.4	204.9	75	366		Dobbs et al. 1996[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Dobbs</Author><Year>1996</Year><RecNum>26</RecNum><record><rec-number>26</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">26</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Dobbs, M.G.</author><author>Cherry, D.S.</author><author>Cairns, Jr., J.</author></authors></contributors><titles><title>Toxicity and bioaccumulation of selenium to a three-trophic level food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>340-347</pages><volume>15</volume><number>3</number><keywords><keyword>s

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							elenium, toxicity, bioaccumulation, food chain</keyword></keywords><dates><year>1996</year></dates><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	14.4	397.6	155	390		Dobbs et al. 1996[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Dobbs</Author><Year>1996</Year><RecNum>26</RecNum><record><rec-number>26</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">26</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Dobbs, M.G.</author><author>Cherry, D.S.</author><author>Cairns, Jr., J.</author></authors></contributors><titles><title>Toxicity and bioaccumulation of selenium to a three-trophic level food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>340-347</pages><volume>15</volume><number>3</number><keywords><keyword>selenium, toxicity, bioaccumulation, food chain</keyword></keywords><dates><year>1996</year></dates><urls></urls></record></Cite></EndNote>]
	Blue-green algae mixture	-	7.3	6.3	861		Thomas et al. 1999[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Thomas</Author><Year>1999</Year><RecNum>1359</RecNum><record><rec-number>1359</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1359</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Thomas, B.V.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation by the water boatman</style><style face="italic" font="default" size="100%">Trichocorixa reticulata</style><style face="normal" font="default" size="100%"> (Guerin-Meneville).</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>295-300</pages><volume>36</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, corixid, water boatman</keyword></keywords><dates><year>1999</year></dates><urls></urls></record></Cite></EndNote>]
	Blue-green algae mixture	-	87	36.6	420		Thomas et al. 1999[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Thomas</Author><Year>1999</Year><RecNum>1359</RecNum><record><rec-number>1359</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1359</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Thomas, B.V.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation by the water boatman</style><style face="italic" font="default" size="100%">Trichocorixa

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Blue-green algae mixture	-	870	111	128		reticulata</style><style face="normal" font="default" size="100%"> (Guerin-Meneville).</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>295-300</pages><volume>36</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, corixid, water boatman</keyword></keywords><dates><year>1999</year></dates><urls></urls></record></Cite></EndNote>] Thomas et al. 1999[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Thomas</Author><Year>1999</Year><RecNum>1359</RecNum><record><rec-number>1359</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1359</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Thomas, B.V.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation by the water boatman</style><style face="italic" font="default" size="100%">Trichocorixa reticulata</style><style face="normal" font="default" size="100%"> (Guerin-Meneville).</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>295-300</pages><volume>36</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, corixid, water boatman</keyword></keywords><dates><year>1999</year></dates><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	50.8	0.1	0.4	7248		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-
	Lemna minor (duckweed)	50.8	4.5	1.4	313		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	50.8	9.0	2.6	291		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-
	Lemna minor (duckweed)	50.8	18.5	5.5	297		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella
	Lemna minor (duckweed)	50.8	37.1	10.3	276		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	132	0.1	0.2	4518		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal"
	Lemna minor (duckweed)	132	9.2	1.0	115		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	132	19.8	2.3	115		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record>
	Lemna minor (duckweed)	132	39.0	3.8	97		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Lemna minor (duckweed)	220	0.1	0.2	3953		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Lemna minor (duckweed)	220	4.2	0.5	128		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>]
							Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	220	9.1	1.4	149		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-
	Lemna minor (duckweed)	220	18.3	2.0	109		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella
	Lemna minor (duckweed)	220	39.3	3.4	86		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	335	0.1	0.3	2636		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying
	Lemna minor (duckweed)	335	4.7	0.3	72		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]; Lo et al. 2015[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal"
	Lemna minor (duckweed)	335	9.3	0.7	73		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Lemna minor (duckweed)	335	19.6	1.1	57		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record>
	Lemna minor (duckweed)	335	38.5	1.9	50		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Pseudokirchneriella subcapitata (green alga)	5	10.0	2.5	249		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	5	18.0	3.4	190		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	5	30.0	7.1	236		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	5	54.0	13.3	246		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	5	91.0	20.4	224		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	86	10.0	0.9	91		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	155	9.0	1.0	109		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	155	18.0	1.2	69		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·
	Pseudokirchneriella subcapitata (green alga)	155	31.0	2.1	67		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]·

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Pseudokirchneriella subcapitata (green alga)	155	56.0	2.8	51		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	155	97.0	4.6	48		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	267	31.0	1.4	45		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	396	10.0	0.3	26		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	396	18.0	0.3	19		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	396	31.0	0.7	24		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	396	102.0	1.1	11		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	396	55.0	1.8	32		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	754	98.0	0.5	5		Lo et al. 2012, 2015[ADDIN EN.CITE ADDIN EN.CITE.DATA]
	Pseudokirchneriella subcapitata (green alga)	17	0.46	1.2	2521		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	1.1	0.7	661		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]

ED_013890_00032364-00168

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Pseudokirchneriella subcapitata (green alga)	17	1.3	2.2	1719		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	1.9	1.2	660		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	2.6	2.9	1114		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	2.7	2.1	793		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>174

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Pseudokirchneriella subcapitata (green alga)	17	3.4	4.3	1256		8</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	5.0	2.8	563		
	Pseudokirchneriella subcapitata (green alga)	17	6.5	4.0	621		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Pseudokirchneriella subcapitata (green alga)	17	7.7	8.0	1036		keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar,
	Pseudokirchneriella subcapitata (green alga)	17	8.0	2.3	293		
	Pseudokirchneriella subcapitata (green alga)	17	10.3	16.6	1603		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Pseudokirchneriella subcapitata (green alga)	17	15.1	14.6	969		M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on
	Pseudokirchneriella subcapitata (green alga)	17	15.8	7.8	491		
	Pseudokirchneriella subcapitata (green alga)	17	21.0	32.4	1542		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	27.2	16.2	596		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	30.4	41.6	1367		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	40.9	29.3	717		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default"

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Pseudokirchneriella subcapitata (green alga)	17	41.1	54.2	1319		size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer,
	Pseudokirchneriella subcapitata (green alga)	17	41.4	33.3	805		
	Pseudokirchneriella subcapitata (green alga)	17	43.2	24.9	576		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer,
	Pseudokirchneriella subcapitata (green alga)	17	43.5	37.5	862		bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer,
	Pseudokirchneriella subcapitata (green alga)	17	50.5	20.2	400		bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer,
	Pseudokirchneriella subcapitata (green alga)	17	52.1	46.6	894		bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	52.3	25.3	483		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	52.3	28.1	537		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	60.2	184.4	3063		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Pseudokirchneriella subcapitata (green alga)	17	101.0	98.5	976		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	106.5	91.6	860		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	107.1	96.3	899		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Pseudokirchneriella subcapitata (green alga)	17	123.0	314.3	2555		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>174

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Chlorella vulgaris (green alga)	17	0.5	1.4	2672		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	1.1	2.3	2052		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-
	Chlorella vulgaris (green alga)	17	1.6	0.2	120		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Chlorella vulgaris (green alga)	17	2.8	7.5	2720		
	Chlorella vulgaris (green alga)	17	4.0	0.5	122		
	Chlorella vulgaris (green alga)	17	6.1	5.5	902		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Chlorella vulgaris (green alga)	17	6.7	4.4	656		M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on
	Chlorella vulgaris (green alga)	17	7.2	1.5	204		
	Chlorella vulgaris (green alga)	17	9.4	1.2	126		

ED_013890_00032364-00180

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	10.1	7.4	727		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	12.1	2.6	216		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	16.2	6.9	426		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default"

ED_013890_00032364-00181

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer,
	Chlorella vulgaris (green alga)	17	19.5	14.4	739		
	Chlorella vulgaris (green alga)	17	22.1	24.5	1109		
	Chlorella vulgaris (green alga)	17	24.5	5.0	204		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-
	Chlorella vulgaris (green alga)	17	38.6	39.1	1014		
	Chlorella vulgaris (green alga)	17	39.2	27.0	689		
	Chlorella vulgaris (green alga)	17	41.4	14.0	339		

ED_013890_00032364-00183

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	42.1	35.7	848		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	42.4	13.0	306		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	46.8	7.9	168		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Chlorella vulgaris (green alga)	17	46.8	9.5	203		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	46.9	10.6	227		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	47.2	22.1	469		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	91.4	159.4	1744		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>174

ED_013890_00032364-00185

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Chlorella vulgaris (green alga)	17	93.1	44.7	481		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	103.5	68.3	660		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-
	Chlorella vulgaris (green alga)	17	103.6	52.9	511		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>] Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
	Chlorella vulgaris (green alga)	17	108.2	78.5	726		Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>488-494</pages><volume>19</volume><keywords><keyword>selenium, toxicity, bioaccumulation, cyanobacteria</keyword></keywords><dates><year>1990</year></dates><urls></urls></record></Cite></EndNote>]
Selenite	*Anabaena flos-aquae* (cyanobacterium)	2.7	1030	271	263		Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</
	Anabaena flos-aquae (cyanobacterium)	2.7	2920	1071	367		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Anabaena flos-aquae (cyanobacterium)	2.7	4990	6072	1217		RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>488-494</pages><volume>19</volume><keywords><keyword>selenium, toxicity, bioaccumulation, cyanobacteria</keyword></keywords><dates><year>1990</year></dates><urls></urls></record></Cite></EndNote>] Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>488-494</pages><volume>19</volume><keywords><keyword>selenium, toxicity, bioaccumulation, cyanobacteria</keyword></keywords><dates><year>1990</year></dates><urls></urls></record></Cite></EndNote>] Kiffney and Knight 1990[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Kiffney</Author><Year>1990</Year><RecNum>1421</RecNum><record><rec-number>1421</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1421</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Kiffney, P.</author><author>Knight, A.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The toxicity and bioaccumulation of selenate, selenite, and seleno-L-methionine in the cyanobacterium </style><style face="italic" font="default" size="100%">Anabaena flos-aquae</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-
	Anabaena flos-aquae (cyanobacterium)	2.7	9870	9365	949		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Chlamydomonas reinhardtii (green alga)	60	0.8	2.1	2515		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
	Chlamydomonas reinhardtii (green alga)	60	8.6	18.6	2175		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
	Chlamydomonas reinhardtii (green alga)	60	95.2	46.1	484		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Scenedesmus obliquus (green alga)	-	5.4	1.1	194		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
	Scenedesmus obliquus (green alga)	-	52.2	5.3	101		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Scenedesmus obliquus (green alga)	-	374	21.1	56		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
	Scenedesmus obliquus (green alga)	-	500	105.3	211		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
	Chlamydomonas reinhardtii (green alga)	-	1.4	1.1	750		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Chlamydomonas reinhardtii (green alga)	-	4.2	5.3	1254		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
	Chlamydomonas reinhardtii (green alga)	-	9.7	21.1	2173		

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Chlamydomonas reinhardtii (green alga)	-	30.6	105.3	3440		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	2.4	2.0	846		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	2.4	2.1	863		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Natural periphyton biofilms	41	4.9	4.3	880		title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></ record></Cite></EndNote>] Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</ RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></ record></Cite></EndNote>]
	Natural periphyton biofilms	41	10.7	12.3	1146		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</ RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></ record></Cite></EndNote>]
	Natural periphyton biofilms	41	10.3	9.4	912		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</ RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	12.6	24.8	1968		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	13.9	21.5	1547		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	1.1	4.3	3909		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
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	Natural periphyton biofilms	41	5.9	15.1	2559		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	21.4	30.9	1444		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton,

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></ record></Cite></EndNote>]
	Natural periphyton biofilms	41	2.7	11.2	4148		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494< /RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></ record></Cite></EndNote>]
	Natural periphyton biofilms	41	7.1	21.2	2986		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494< /RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium
	Natural periphyton biofilms	41	19.2	45.3	2359		

Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	3.4	10.3	3029		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	8.9	23.0	2584		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
	Natural periphyton biofilms	41	23.1	50.7	2195		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494<

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
							/RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	-	0.5	0.2	392		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	-	10.5	3.0	283		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	-	20.5	4.8	234		Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record>

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Lemna minor (duckweed)	-	41.3	9.8	237		<rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record>
	Lemna minor (duckweed)	187	12.9	4.1	315		<rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record>
	Lemna minor (duckweed)	-	11.6	3.9	335	95.8 mg Na/L; 137 mg Cl/L	<rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying

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Table S3. Water and particulate Se data from laboratory tests of selenate and selenite.

Water Se Form	Species	SO_4 (mg/L)	Water Se (µg/L)	Tissue Se (µg/g dw)	EF (L/kg)	Study Notes	Reference
	Lemna minor (duckweed)	-	10.3	1.9	188	217 mg $NaNO_3$/L	factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>] Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]
	Lemna minor (duckweed)	-	10.3	3.0	290	242 mg hardness/L (as $CaCO_3$)	Nautilus 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><record><rec-number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>]

dw = dry weight
EF = enrichment factor

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	2	5.7	2.9	2.2	Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	2.2	4.2	1.9		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	4.4	9.7	2.2		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	8.7	16.2	1.9		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>4

ED_013890_00032364-00206

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								3</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	11.3	27.5	2.4		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic

ED_013890_00032364-00207

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	17.5	34.8	2.0		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal"

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								font="default" size="100%">Selenium bioaccumulation and maternal transfer in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer </style><style face="normal" font="default" size="100%">in a life-cycle, periphyton-biofilm trophic assay.</style></title><secondary-title>Environmental Science and Technology</secondary-title></titles><periodical><full-title>Environmental Science and Technology</full-title><abbr-1>Environ. Sci. Technol.</abbr-1></periodical><pages>7952-7957</pages><volume>43</volume><keywords><keyword>selenium, bioaccumulation, maternal transfer, mayfly</keyword></keywords><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	25.5	56.7	2.2		Conley et al. 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2009</Year><RecNum>358</RecNum><record><rec-number>358</rec-number><foreign-keys><key app="EN" db-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								rds><dates><year>2009</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	4.2	12.8	3.0	1.8	Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	11.9	31.7	2.7		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	27.2	68.4	2.5		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></ur

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ls></record></Cite></End Note>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	9.5	14.1	1.5		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	19.9	21.6	1.1		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Centroptilum triangulifer* (mayfly)	-	Periphyton biofilm	40.9	37.3	0.9		Conley et al. 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Conley</Author><Year>2011</Year><RecNum>1494</RecNum><record><rec-number>1494</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1494</key></foreign-keys><ref-type name="Journal Article">17</ref-

ED_013890_00032364-00217

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type><contributors><authors><author>Conley, J.M.</author><author>Funk, D.H.</author><author>Cariello, N.J.</author><author>Buchwalter, D.B.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food rationing affects dietary selenium bioaccumulation and life cycle performance in the mayfly </style><style face="italic" font="default" size="100%">Centroptilum triangulifer</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Ecotoxicology</secondary-title></titles><periodical><full-title>Ecotoxicology</full-title><abbr-1>Ecotoxicol.</abbr-1></periodical><pages>1840-1851</pages><volume>20</volume><keywords><keyword>selenium, periphyton, mayfly, Centroptilum triangulifer, trophic transfer, bioaccumulation, TTF, toxicity</keyword></keywords><dates><year>2011</year></dates><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Lab	*Chironomus decorus* (chironomid)	-	Algae (*Selenastrum capricornutum*)	2.84	4.05	1.4	1.1	Malchow et al. 1995[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Malchow</Author><Year>1995</Year><RecNum>1358</RecNum><record><rec-number>1358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Malchow, D.E.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Bioaccumulation and toxicity of selenium in </style><style face="italic" font="default" size="100%">Chironomus decorus</style><style face="normal" font="default" size="100%"> larvae fed a diet of seleniferous </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>104-109</pages><volume>29</volume><keywords><keyword>selenium, bioaccumulation, toxicity, trophic transfer, midge, algae, Chironomus, TTF</keyword></keywords><dates><year>1995</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus decorus* (chironomid)	-	Algae (*Selenastrum capricornutum*)	9.47	8.60	0.9		Malchow et al. 1995[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Malchow</Author><Year>1995</Year><RecNum>1358</RecNum><record><rec-number>1358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Malchow,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								D.E.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Bioaccumulation and toxicity of selenium in </style><style face="italic" font="default" size="100%">Chironomus decorus</style><style face="normal" font="default" size="100%"> larvae fed a diet of seleniferous </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>104-

ED_013890_00032364-00221

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								109</pages><volume>29</volume><keywords><keyword>selenium, bioaccumulation, toxicity, trophic transfer, midge, algae, Chironomus, TTF</keyword></keywords><dates><year>1995</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus decorus* (chironomid)	-	Algae (*Selenastrum capricornutum*)	2.11	2.55	1.2		Malchow et al. 1995[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Malchow</Author><Year>1995</Year><RecNum>1358</RecNum><record><rec-number>1358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Malchow, D.E.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Bioaccumulation and toxicity of selenium in </style><style face="italic" font="default" size="100%">Chironomus decorus</style><style face="normal" font="default" size="100%"> larvae fed a diet of seleniferous

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								</style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>104-109</pages><volume>29</volume><keywords><keyword>selenium, bioaccumulation, toxicity, trophic transfer, midge, algae, Chironomus, TTF</keyword></keywords><dates><year>1995</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus decorus* (chironomid)	-	Algae (*Selenastrum capricornutum*)	7.17	6.62	0.9		Malchow et al. 1995[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Malchow</Author><Year>1995</Year><RecNum>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								1358</RecNum><record><rec-number>1358</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1358</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Malchow, D.E.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Bioaccumulation and toxicity of selenium in </style><style face="italic" font="default" size="100%">Chironomus decorus</style><style face="normal" font="default" size="100%"> larvae fed a diet of seleniferous </style><style face="italic" font="default" size="100%">Selenastrum capricornutum</style><style face="normal" font="default" size="100%">.</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-

ED_013890_00032364-00224

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>104-109</pages><volume>29</volume><keywords><keyword>selenium, bioaccumulation, toxicity, trophic transfer, midge, algae, Chironomus, TTF</keyword></keywords><dates><year>1995</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	2.48	0.67	0.3	0.11	Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigatio

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								n into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	2.48	0.46	0.2		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	3.47	0.41	0.1		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-

ED_013890_00032364-00227

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	4.92	0.40	0.08		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								(NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	4.98	0.61	0.1		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	11.19	0.84	0.08		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	20.45	0.96	0.05		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	46.14	0.88	0.02		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	2.48	0.77	0.3		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	2.48	0.66	0.3		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	3.47	0.52	0.2		Rickwood and Jatar 2013[ADDIN EN.CITE

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	4.92	1.29	0.3		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	4.98	1.12	0.2		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default"

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	11.19	1.01	0.09		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic

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Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	20.45	2.05	0.1		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></c

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ontributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 1st gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	46.14	2.38	0.05		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	2.48	0.41	0.2		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Lab	*Chironomus dilutus* (chironomid, 2nd gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	3.47	0.38	0.1		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	4.92	0.33	0.07		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	11.19	0.60	0.05		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. larvae)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	20.45	0.22	0.01		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	2.48	2.0	0.8		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jat

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	3.47	1.1	0.3		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	4.92	1.0	0.2		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								></urls></record></Cite></EndNote>]
Lab	*Chironomus dilutus* (chironomid, 2nd gen. adults)	-	Algae (*P. subcapitata*, *C. kesslerii*) + TetraMin slurry	20.45	1.1	0.05		Rickwood and Jatar 2013[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Rickwood</Author><Year>2013</Year><RecNum>1748</RecNum><record><rec-number>1748</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1748</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Rickwood, C.J.</author><author>Jatar, M.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Investigation into the fate and effects of selenium on the life-cycle of a benthic invertebrate (</style><style face="italic" font="default" size="100%">Chironomus dilutus</style><style face="normal" font="default" size="100%">)</style></title><secondary-title>CanmetMINING, Project: 603994</secondary-title></titles><keywords><keyword>selenium, trophic transfer, bioaccumulation, chironomids</keyword></

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								keywords><dates><year>2013</year></dates><pub-location>Ottawa, ON, Canada</pub-location><publisher>Natural Resources Canada (NRCan)</publisher><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Selenastrum capricornutum*)	2.7	6.7	2.5	1.8	Besser et al. 1989[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1989</Year><RecNum>1349</RecNum><record><rec-number>1349</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1349</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Huckins, J.N.</author><author>Little, E.E.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Distribution and bioaccumulation of selenium in aquatic microcosms.</title><secondary-title>Environmental Pollution</secondary-title></titles><periodical><full-title>Environmental Pollution</full-title><abbr-1>Environ. Pollut.</abbr-1></periodical><pages>1-12</pages><volume>62</volume><keywords><key

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								word>selenium, distribution, bioaccumulation, microcosms, trophic transfer, selenium speciation</keyword></keywords><dates><year>1989</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Selenastrum capricornutum*)	1.8	2.5	1.4		Besser et al. 1989[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1989</Year><RecNum>1349</RecNum><record><rec-number>1349</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1349</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Huckins, J.N.</author><author>Little, E.E.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Distribution and bioaccumulation of selenium in aquatic microcosms.</title><secondary-title>Environmental Pollution</secondary-title></titles><periodical><full-title>Environmental Pollution</full-title><abbr-1>Environ. Pollut.</abbr-1></periodical><pages>1-12</pages><volume>62</

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								volume><keywords><key word>selenium, distribution, bioaccumulation, microcosms, trophic transfer, selenium speciation</keyword></keywords><dates><year>1989</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Selenastrum capricornutum*)	4.3	7.5	1.7		Besser et al. 1989[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1989</Year><RecNum>1349</RecNum><record><rec-number>1349</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1349</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Huckins, J.N.</author><author>Little, E.E.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Distribution and bioaccumulation of selenium in aquatic microcosms.</title><secondary-title>Environmental Pollution</secondary-title></titles><periodical><full-title>Environmental Pollution</full-title><abbr-1>Environ. Pollut.</abbr-1></periodical><pages>1-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								12</pages><volume>62</volume><keywords><keyword>selenium, distribution, bioaccumulation, microcosms, trophic transfer, selenium speciation</keyword></keywords><dates><year>1989</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	0.31	0.33	1.1	0.7	Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	2.0	1.6	0.8		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	17.8	12.1	0.7		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	1.2	1.2	1.0		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	2.7	1.8	0.7		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	16.1	9.0	0.6		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndN

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	1.2	1.1	0.9		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								volume><keywords><key word>selenium, bioaccumulation, food chain</keyword></keywor ds><dates><year>1993</ year></dates><urls></urls ></record></Cite></EndN ote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	3.5	2.3	0.7		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author >Besser</Author><Year> 1993</Year><RecNum>1 1</RecNum><record><re c-number>11</rec- number><foreign- keys><key app="EN" db- id="f2ses990ar2t0jefdx25x 5aj9vavpfddxrpr">11</key ></foreign-keys><ref-type name="Journal Article">17</ref- type><contributors><auth ors><author>Besser, J.M.</author><author>Ca nfield, T.J.</author><author>La Point, T.W.</author></authors>< /contributors><titles><title >Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary- title>Environmental Toxicology and Chemistry</secondary- title></titles><periodical>< full-title>Environmental Toxicology and Chemistry</full- title><abbr-1>Environ. Toxicol. Chem.</abbr- 1><abbr-2>Environ Toxicol Chem</abbr-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	48.1	23.1	0.5		Besser et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Besser</Author><Year>1993</Year><RecNum>11</RecNum><record><rec-number>11</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">11</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Besser, J.M.</author><author>Canfield, T.J.</author><author>La Point, T.W.</author></authors></contributors><titles><title>Bioaccumulation of organic and inorganic selenium in a laboratory food chain.</title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>57-72</pages><volume>12</volume><keywords><keyword>selenium, bioaccumulation, food chain</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	1.4	5.3	3.8	2.0	Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and

ED_013890_00032364-00267

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	6.4	17.1	2.7		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>54

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								1</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>2

ED_013890_00032364-00269

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								3</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Chlamydomonas reinhardtii*)	30.6	50.4	1.6		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Scenedesmus obliquus*)	5.4	9.9	1.8		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Scenedesmus obliquus*)	52.2	110	2.1		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Scenedesmus obliquus*)	374	578	1.5		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></c

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ontributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Lab	*Daphnia magna* (cladoceran)	-	Algae (*Scenedesmus obliquus*)	500	642	1.3		Guan and Wang 2004[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Guan</Author><Year>2004</Year><RecNum>541</RecNum><record><rec-number>541</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">541</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Guan, R.</author><author>Wang, W.-X.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Dietary assimilation and elimination of Cd, Se, and Zn by </style><style face="italic" font="default" size="100%">Daphnia magna </style><style face="normal" font="default" size="100%">at different metal concentrations.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2689-2698</pages><volume>23</volume><number>11</number><keywords><keyword>metals, bioaccumulation, biokinetics, assimilation efficiency, trophic transfer, Daphnia magna, cadmium, selenium, zinc</keyword></keywords><dates><year>2004</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Trichorixa reticulata* (water boatman)	-	*Oscillatoria* sp. / *Microcystis*-like algae	<0.1	1.63	32.6	0.5	Thomas et al. 1999[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Thomas</Author><Year>1999</Year><RecNum>1359</RecNum><record><rec-number>1359</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1359</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Thomas, B.V.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								bioaccumulation by the water boatman </style><style face="italic" font="default" size="100%">Trichocorixa reticulata</style><style face="normal" font="default" size="100%"> (Guerin-Meneville).</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>295-300</pages><volume>36</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, corixid, water boatman</keyword></keywords><dates><year>1999</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Trichorixa reticulata* (water boatman)	-	*Oscillatoria* sp. / *Microcystis*-like algae	6.28	1.66	0.3		Thomas et al. 1999[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Thomas</Author><Year>1999</Year><RecNum>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								1359</RecNum><record><rec-number>1359</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1359</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Thomas, B.V.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation by the water boatman </style><style face="italic" font="default" size="100%">Trichocorixa reticulata</style><style face="normal" font="default" size="100%"> (Guerin-Meneville).</style></title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination &

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicology</abbr-3></periodical><pages>295-300</pages><volume>36</volume><keywords><keyword>selenium, bioaccumulation, trophic transfer, corixid, water boatman</keyword></keywords><dates><year>1999</year></dates><urls></urls></record></Cite></EndNote>]
Lab	*Trichorixa reticulata* (water boatman)	-	*Oscillatoria* sp. / *Microcystis*-like algae	38.3	2.2	0.06		Thomas et al. 1999[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Thomas</Author><Year>1999</Year><RecNum>1359</RecNum><record><rec-number>1359</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1359</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Thomas, B.V.</author><author>Knight, A.W.</author><author>Maier, K.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Selenium bioaccumulation by the water boatman</style><style face="italic" font="default" size="100%">Trichocorixa reticulata</style><style face="normal"

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Lab	*Trichorixa reticulata* (water boatman)	-	*Oscillatoria* sp. / *Microcystis*-like algae	86	8.32	0.1		Thomas et al. 1999[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Thomas</Author><Year>1999</Year><RecNum>1359</RecNum><record><rec-number>1359</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1359</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								transfer, corixid, water boatman</keyword></keywords><dates><year>1999</year></dates><urls></urls></record></Cite></EndNote>]
Field	Mayfly (Baetidae)	Luscar Creek (AB, Canada)	Biofilm, filamentous algae, riparian vegetation	4.2	8.2	2.0	3.5	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Mayfly (Baetidae)	Deerlick Creek (AB, Canada)	Biofilm	1.0	6.4	6.4		Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Mayfly (Heptageniidae)	Luscar Creek (AB, Canada)	Biofilm, filamentous algae, riparian vegetation	4.2	12.3	3.0	4.5	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Mayfly (Heptageniidae)	Deerlick Creek (AB, Canada)	Biofilm	1.0	6.8	6.8		Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Mayfly (Ephemerellidae)	Luscar Creek (AB, Canada)	Biofilm, filamentous algae, riparian vegetation	4.2	9.7	2.3	3.6	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Mayfly (Ephemerellidae)	Deerlick Creek (AB, Canada)	Biofilm	1.0	5.7	5.7		Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>] Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Caddisfly (Hydropsychidae)	Luscar Creek (AB, Canada)	Biofilm, filamentous algae, riparian vegetation	4.2	13.4	3.2	3.2	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Crane fly (Tipulidae)	Luscar Creek (AB, Canada)	Biofilm, filamentous algae, riparian vegetation	4.2	8.4	2.0	2.2	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Crane fly (Tipulidae)	Deerlick Creek (AB, Canada)	Biofilm	1.0	2.4	2.4		Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Stonefly (Perlodidae/Perlidae)	Luscar Creek (AB, Canada)	Mayflies, caddisflies, diptera	10.4	8.4	0.8	0.8	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Stonefly (Perlodidae/Perlidae)	Deerlick Creek (AB, Canada)	Mayflies, diptera	5.3	4.0	0.8		Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Stonefly (Chloroperlidae)	Luscar Creek (AB, Canada)	Mayflies, caddisflies, diptera	10.4	10.4	1.0	1.0	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Stonefly (Chloroperlidae)	Cold Creek (AB, Canada)	Caddisflies	2.6	2.6	1.0		Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Caddisfly (Rhyacophila)	Luscar Creek (AB, Canada)	Mayflies, caddisflies, diptera	10.4	10.2	1.0	0.9	Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Caddisfly (Rhyacophila)	Deerlick Creek (AB, Canada)	Mayflies, diptera	5.3	4.9	0.9		Casey 2005[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Casey</Author><Year>2005</Year><RecNum>15</RecNum><record><rec-number>15</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">15</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Casey, R.</author></authors></contributors><titles><title>Results of aquatic studies in the McLeod and Upper Smoky River systems</title></titles><pages>64 pp.</pages><keywords><keyword>selenium, bioaccumulation, McLeod River, Alberta</keyword></keywords><dates><year>2005</year></dates><pub-

ED_013890_00032364-00295

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								location>Edmonton, AB, Canada</pub-location><publisher>Alberta Environment</publisher><call-num>http://environment.gov.ab.ca/info/library/7743.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Damselfly (Coenagrionidae)	Meeboer Lake (WY, USA)	Waterboatmen, chironomids	3.4	3.1	0.9	1.2	Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></recor

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								d></Cite></EndNote>]
Field	Damselfly (Coenagrionidae)	Diamond Lake (WY, USA)	Waterboatmen	2.3	1.8	0.8		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>]
Field	Damselfly (Coenagrionidae)	Lake Hasty (CO, USA)	Waterboatmen	4.2	11.1	2.6		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-

ED_013890_00032364-00297

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Damselfly (Coenagrionidae)	Galett Lake (WY, USA)	Waterboatmen	4.2	4.4	1.0		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								contributors><titles><title> Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>]
Field	Damselfly (Coenagrionidae)	Wellington State Pond (CO, USA)	Waterboatmen, chironomids	7.5	7.7	1.0		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title> Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Damselfly (Coenagrionidae)	Highline Reservoir (CO, USA)	Chironomids	15.3	28.4	1.9		pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>] Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Damselfly (Coenagrionidae)	East Allen Reservoir (WY, USA)	Waterboatmen	11.0	18.7	1.7		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>]
Field	Damselfly (Coenagrionidae)	Miller's Lake (CO, USA)	Waterboatmen, chironomids	14.4	15.8	1.1		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>]
Field	Damselfly (Coenagrionidae)	Twin Butte's Reservoir (WY, USA)	Waterboatmen, chironomids	24.9	18.4	0.7		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Damselfly (Coenagrionidae)	Duck Lake (WY, USA)	Waterboatmen, chironomids	18.7	21.9	1.2		organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>] Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-</

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Damselfly (Coenagrionidae)	Sweitzer Lake (CO, USA)	Chironomids	26.7	45.1	1.7		location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>] Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>]
Field	Damselfly (Coenagrionidae)	Desert Reservoir (CO, USA)	Waterboatmen, chironomids	43.8	55.0	1.3		Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Damselfly (Coenagrionidae)	Larimer Hwy 9 Pond (CO, USA)	Chironomids	59.3	53.3	0.9		ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>] Birkner 1978[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Birkner</Author><Year>1978</Year><RecNum>1338</RecNum><record><rec-number>1338</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1338</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Thesis">32</ref-type><contributors><authors><author>Birkner, J.H.</author></authors></contributors><titles><title>Selenium in aquatic organisms from seleniferous habitats.</title></titles><pages>121</pages><keywords><keyword>selenium, bioaccumulation</keyword></keywords><dates><year>1978</year></dates><pub-location>Fort Collins, CO, USA</pub-location><publisher>Colorado State University</publisher><work-type>Ph.D. Thesis</work-type><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Merced River-ET6, Fall (CA, USA)	Detritus	1.2	0.6	0.5	0.9	Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><titl

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								e>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Merced River-ET6, Spring (CA, USA)	Detritus	1.1	1.0	0.9		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Mud Slough-GT5, Fall (CA, USA)	Detritus	22.0	8.9	0.4		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Mud Slough-GT5, Spring (CA, USA)	Detritus	7.9	7.2	0.9		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Salt Slough-GT4, Fall (CA, USA)	Detritus	8.9	5.4	0.6		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Je

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								nnings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Salt Slough-GT4, Spring (CA, USA)	Detritus	7.9	6.9	0.9		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>19

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	San Joaquin River-SJR1, Fall (CA, USA)	Detritus	0.4	0.5	1.1		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch.

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	San Joaquin River-SJR1, Spring (CA, USA)	Detritus	0.6	1.0	1.7		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	San Joaquin River-SJR2, Fall (CA, USA)	Detritus	6.6	6.0	0.9		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Journal Article"><17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Chironomids (*Chironomus* spp.)	San Joaquin River-SJR2, Spring (CA, USA)	Detritus	3.4	4.1	1.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	San Joaquin River-SJR3, Fall (CA, USA)	Detritus	1.2	1.5	1.3		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	San Joaquin River-SJR3, Spring (CA, USA)	Detritus	1.3	1.6	1.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Stanislaus River-ET7, Fall (CA, USA)	Detritus	0.8	0.5	0.7		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Chironomids (*Chironomus* spp.)	Stanislaus River-ET7, Spring (CA, USA)	Detritus	0.7	0.8	1.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Merced River-ET6, Fall (CA, USA)	Detritus	1.2	0.4	0.4	0.8	Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><second

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Merced River-ET6, Spring (CA, USA)	Detritus	1.1	0.9	0.8		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><auth

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Mud Slough-GT5, Fall (CA, USA)	Detritus	22.0	4.6	0.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Mud Slough-GT5, Spring (CA, USA)	Detritus	7.9	3.3	0.4		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Salt Slough-GT4, Fall (CA, USA)	Detritus	8.9	3.4	0.4		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Salt Slough-GT4, Spring (CA, USA)	Detritus	7.9	3.7	0.5		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls

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Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	San Joaquin River-SJR1, Fall (CA, USA)	Detritus	0.4	0.9	2.1		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental

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Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	San Joaquin River-SJR1, Spring (CA, USA)	Detritus	0.6	1.3	2.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	San Joaquin River-SJR2, Fall (CA, USA)	Detritus	6.6	3.8	0.6		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	San Joaquin River-SJR2, Spring (CA, USA)	Detritus	3.4	2.8	0.8		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>142

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	San Joaquin River-SJR3, Fall (CA, USA)	Detritus	1.2	1.5	1.3		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam.

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	San Joaquin River-SJR3, Spring (CA, USA)	Detritus	1.3	1.1	0.8		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Stanislaus River-ET7, Fall (CA, USA)	Detritus	0.8	1.1	1.4		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Amphipods (*Hyalella*, *Gammarus*, *Corophium*)	Stanislaus River-ET7, Spring (CA, USA)	Detritus	0.7	1.1	1.5		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	Merced River-ET6, Fall (CA, USA)	Detritus	1.2	0.7	0.6	0.6	Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Crayfish (*Procambarus clarki*)	Merced River-ET6, Spring (CA, USA)	Detritus	1.1	0.8	0.8		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh,

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Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	Mud Slough-GT5, Fall (CA, USA)	Detritus	22.0	5.2	0.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Crayfish (*Procambarus clarki*)	Mud Slough-GT5, Spring (CA, USA)	Detritus	7.9	4.4	0.6		River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>] Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam

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Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	Salt Slough-GT4, Fall (CA, USA)	Detritus	8.9	3.1	0.3		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><second

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Crayfish (*Procambarus clarki*)	Salt Slough-GT4, Spring (CA, USA)	Detritus	7.9	3.2	0.4		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><auth

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	San Joaquin River-SJR1, Fall (CA, USA)	Detritus	0.4	0.5	1.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Crayfish (*Procambarus clarki*)	San Joaquin River-SJR1, Spring (CA, USA)	Detritus	0.6	0.7	1.3		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Crayfish (*Procambarus clarki*)	San Joaquin River-SJR2, Fall (CA, USA)	Detritus	6.6	1.7	0.3		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	San Joaquin River-SJR2, Spring (CA, USA)	Detritus	3.4	1.9	0.6		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	San Joaquin River-SJR3, Fall (CA, USA)	Detritus	1.2	0.8	0.6		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	San Joaquin River-SJR3, Spring (CA, USA)	Detritus	1.3	1.3	1.0		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings, M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	Stanislaus River-ET7, Fall (CA, USA)	Detritus	0.8	0.9	1.1		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>1427</RecNum><record><rec-number>1427</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1427</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Saiki, M.K.</author><author>Jennings,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								M.R.</author><author>Brumbaugh, W.G.</author></authors></contributors><titles><title>Boron, molybdenum, and seleniumin aquatic food chains from the lower San Joaquin River and its tributaries, California.</title><secondary-title>Archives of Environmental Contamination and Toxicology</secondary-title></titles><periodical><full-title>Archives of Environmental Contamination and Toxicology</full-title><abbr-1>Arch. Environ. Contam. Toxicol.</abbr-1><abbr-2>Arch Environ Contam Toxicol</abbr-2><abbr-3>Archives of Environmental Contamination & Toxicology</abbr-3></periodical><pages>307-319</pages><volume>24</volume><keywords><keyword>boron, molybdenum, selenium, bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Crayfish (*Procambarus clarki*)	Stanislaus River-ET7, Spring (CA, USA)	Detritus	0.7	0.9	1.2		Saiki et al. 1993[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Saiki</Author><Year>1993</Year><RecNum>142

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								bioaccumulation, trophic transfer, San Joaquin River</keyword></keywords><dates><year>1993</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Alexander Creek, BC, Canada (AL4 [L15])	Epilithion/periphyton	0.8	2.3	2.9	2.6	Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL1)	Epilithion/periphyton	2.3	7.2	3.1		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL1)	Epilithion/periphyton	2.6	6.2	2.4		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL1 [L11])	Epilithion/periphyton	1.5	4.2	2.8		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL1 [L11])	Epilithion/periphyton	1.3	4.3	3.4		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wir

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								amanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</nu

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								mber><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL12)	Epilithion/periphyton	2.7	6.1	2.3		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynch

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								us clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL12 [L1])	Epilithion/periphyton	1.3	1.5	1.2		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL12 [745])	Epilithion/periphyton	0.3	2.7	8.8		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywo

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								rds><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL20 [L4])	Epilithion/periphyton	0.7	3.2	4.6		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk River, BC, Canada (EL20 [750])	Epilithion/periphyton	0.8	4.6	5.9		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Ewin Creek, BC, Canada (L17)	Epilithion/periphyton	2.0	3.6	1.8		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Fording River, BC, Canada (FO22 [L3])	Epilithion/periphyton	1.9	3.1	1.6		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Fording River, BC, Canada (FO22 [746])	Epilithion/periphyton	1.6	10.7	6.9		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Fording River, BC, Canada (FO23)	Epilithion/periphyton	8.9	5.8	0.6		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Fording River, BC, Canada (FO23)	Epilithion/periphyton	3.8	9.7	2.5		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Fording River, BC, Canada (FO9 [L5])	Epilithion/periphyton	1.3	10.2	7.8		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndN

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ote>]
Field	Benthic invertebrate composite	Line Creek, BC, Canada (LI24 [L6])	Epilithion/periphyton	2.6	5.4	2.1		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Line Creek, BC, Canada (LI8)	Epilithion/periphyton	4.2	8.0	1.9		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><auth

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Line Creek, BC, Canada (LI8 [749])	Epilithion/periphyton	1.3	8.7	6.8		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Michel Creek, BC, Canada (MI2)	Epilithion/periphyton	3.3	10.9	3.3		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>201

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								2</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Michel Creek, BC, Canada (MI2)	Epilithion/periphyton	2.1	8.4	4.0		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Michel Creek, BC, Canada (MI2 [L9])	Epilithion/periphyton	1.5	4.7	3.1		Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>] Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Michel Creek, BC, Canada (MI2 [751])	Epilithion/periphyton	1.3	6.8	5.4		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</k

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ey></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Michel Creek, BC, Canada (MI3)	Epilithion/periphyton	1.3	5.4	4.2		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Fording River, BC, Canada (MP1)	Epilithion/periphyton	5.1	5.5	1.1		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Clode Pond, BC, Canada (CL11)	Epilithion/periphyton	8.2	24.3	3.0		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wir

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								amanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</nu

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								mber><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Clode Pond, BC, Canada (CL11)	Epilithion/periphyton	43.4	40.2	0.9		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynch

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								us clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Elk Lakes, BC, Canada (EL14)	Epilithion/periphyton	1.0	6.4	6.6		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Flathead Wetland, BC, Canada (FL17)	Epilithion/periphyton	1.0	4.3	4.4		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser,

ED_013890_00032364-00405

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywo

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								rds><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Fording River Oxbow, BC, Canada (FO10)	Epilithion/periphyton	83.6	51.2	0.6		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Fording River Oxbow, BC, Canada (FO10)	Epilithion/periphyton	51.0	47.3	0.9		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Goddard Marsh, BC, Canada (GO13)	Epilithion/periphyton	14.6	25.5	1.7		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Goddard Marsh, BC, Canada (GO13)	Epilithion/periphyton	18.1	14.4	0.8		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Henretta Lake, BC, Canada (HE27)	Epilithion/periphyton	1.1	9.2	8.1		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal" font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	O'Rourke Lake, BC, Canada (RL1)	Epilithion/periphyton	3.3	3.6	1.1		Orr et al. 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Orr</Author><Year>2012</Year><RecNum>1645</RecNum><record><rec-number>1645</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1645</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Orr, P.L.</author><author>Wiramanaden, C.I.E.</author><author>Paine, M.D.</author><author>Franklin, W.</author><author>Fraser, C.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Food chain model based on field data to predict westslope cutthroat trout (</style><style face="italic" font="default" size="100%">Oncorhynchus clarkii lewisi</style><style face="normal"

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								font="default" size="100%">) ovary selenium concentrations from water selenium concentrations in the Elk Valley, British Columbia.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>672-680</pages><volume>31</volume><number>3</number><keywords><keyword>selenium, westslope cutthroat trout, ovary, diet, water, multi-partitioning model, bioaccumulation, Elk Valley</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Cheviot Creek, AB, Canada (CH2)	Periphyton	0.5	6.5	13.6	4.2	Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Gregg River, AB, Canada (GR1)	Periphyton	0.1	3.7	36.9		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Gregg River, AB, Canada (GR1)	Periphyton	0.9	6.0	6.4		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Gregg River, AB, Canada (GR2)	Periphyton	1.8	4.3	2.4		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Gregg River, AB, Canada (GR2)	Periphyton	1.3	5.3	4.0		Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>] Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal
Field	Benthic invertebrate composite	Gregg River, AB, Canada (GR5)	Periphyton	1.3	4.3	3.2		Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Gregg River, AB, Canada (GR6)	Periphyton	1.1	6.6	5.9		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Gregg River, AB, Canada (GR6)	Periphyton	0.8	8.2	10.7		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></aut

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								hors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Harris Creek, AB, Canada (HC2)	Periphyton	0.4	5.9	15.5		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><date

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								s><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Jarvis Creek, AB, Canada (JC)	Periphyton	0.9	9.7	10.9		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc.,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS1)	Periphyton	2.2	6.9	3.1		Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>] Golder 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar and Cheviot mines</title></titles><dates><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS1)	Periphyton	1.6	3.0	1.8		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS1)	Periphyton	2.3	4.0	1.7		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS2)	Submergent vegetation	3.2	6.0	1.9		Golder 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								biomonitoring report for the Luscar and Cheviot mines</title></titles><dates><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS2)	Periphyton	1.1	5.5	4.8		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS3)	Periphyton	1.7	4.4	2.6		Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>] Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS4)	Periphyton	2.7	7.9	2.9		Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>] Golder 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1"

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ExcludeYear="1"><Author>Golder Associates</Author><Year>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar and Cheviot mines</title></titles><dates><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS4)	Periphyton	3.2	6.6	2.1		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Luscar Creek, AB, Canada (LUS4)	Periphyton	1.6	3.2	1.9		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Mary Gregg Creek, AB, Canada (MG2)	Periphyton	3.8	12.9	3.4		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Mary Gregg Creek, AB, Canada (MG2)	Periphyton	1.8	9.1	5.0		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></End

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Note>]
Field	Benthic invertebrate composite	Mary Gregg Creek, AB, Canada (MG3)	Periphyton	1.8	5.9	3.3		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Mackenzie Creek, AB, Canada (MK1)	Periphyton	1.0	5.1	5.4		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Yea

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								r>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Mackenzie Creek, AB, Canada (MK1)	Periphyton	0.4	5.3	12.0		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Mackenzie Creek, AB, Canada (MK5)	Periphyton	2.1	7.1	3.4		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Mackenzie Creek, AB, Canada (MK5)	Periphyton	0.7	7.2	10.4		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB,

ED_013890_00032364-00437

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR1)	Periphyton	1.4	3.6	2.6		Golder 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar and Cheviot mines</title></titles><dates><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR1)	Periphyton	0.7	3.9	5.6		Golder 2011[ADDIN EN.CITE <EndNote><Cite

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ExcludeAuth="1" ExcludeYear="1"><Author >Golder Associates</Author><Yea r>2011</Year><RecNum> 1860</RecNum><record> <rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x 5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><auth ors><author>Golder Associates,</author></aut hors></contributors><title s><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><date s><year>2011</year></da tes><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></u rls></record></Cite></End Note>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR1)	Periphyton	2.2	7.2	3.3		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author >Golder Associates</Author><Yea r>2013</Year><RecNum> 1861</RecNum><record> <rec-number>1861</rec-number><foreign-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR1.5)	Periphyton	1.4	4.2	3.0		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR2)	Periphyton	1.9	5.5	2.9		Golder 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar and Cheviot mines</title></titles><date

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								s><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR2)	Periphyton	1.5	4.0	2.7		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></u

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								rls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR2)	Periphyton	1.1	5.0	4.5		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR3)	Periphyton	1.9	6.0	3.2		Golder 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Yea

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								r>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar and Cheviot mines</title></titles><dates><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR3)	Periphyton	2.2	4.0	1.8		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><auth

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR4)	Periphyton	0.6	3.3	5.6		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR4)	Periphyton	1.4	4.5	3.3		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR5)	Periphyton	0.7	4.4	5.9		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR6)	Periphyton	1.6	7.1	4.4		Golder 2009[ADDIN EN.CITE <EndNote><Cite

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar and Cheviot mines</title></titles><dates><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR6)	Periphyton	1.1	4.8	4.4		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</k

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR6)	Periphyton	0.8	4.6	5.6		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR7)	Periphyton	0.4	4.3	11.9		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	McLeod River, AB, Canada (MR7)	Periphyton	0.7	5.4	7.5		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></u

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								rls></record></Cite></End Note>]
Field	Benthic invertebrate composite	Prospect Creek, AB, Canada (PC1)	Periphyton	0.9	3.8	4.2		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author >Golder Associates</Author><Yea r>2011</Year><RecNum> 1860</RecNum><record> <rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x 5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><auth ors><author>Golder Associates,</author></aut hors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></da tes><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></u rls></record></Cite></End Note>]
Field	Benthic invertebrate composite	Prospect Creek, AB, Canada (PC1)	Periphyton	1.2	3.9	3.3		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author >Golder Associates</Author><Yea

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								r>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Prospect Creek, AB, Canada (PC3)	Periphyton	0.4	2.4	5.4		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Prospect Creek, AB, Canada (PC3)	Periphyton	0.7	3.7	5.2		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Thornton Creek, AB, Canada (TH1)	Periphyton	2.2	4.4	2.0		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Thornton Creek, AB, Canada (TH2)	Periphyton	5.5	5.6	1.0		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></End

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Note>]
Field	Benthic invertebrate composite	Leyland Creek, AB, Canada (UC1)	Periphyton	5.1	38.8	7.6		Golder 2009[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2009</Year><RecNum>1859</RecNum><record><rec-number>1859</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1859</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2008 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar and Cheviot mines</title></titles><dates><year>2009</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Leyland Creek, AB, Canada (UC1)	Periphyton	4.1	17.8	4.4		Golder 2011[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2011</Year><RecNum>1860</RecNum><record><rec-number>1860</rec-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1860</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2010 Benthic invertebrate, periphyton, and selenium biomonitoring report for the Luscar, Gregg River, and Cheviot mines</title></titles><dates><year>2011</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Leyland Creek, AB, Canada (UC1)	Periphyton	2.6	5.0	2.0		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><auth

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Whitehorse Creek, AB, Canada (WC2)	Periphyton	1.8	4.4	2.5		Golder 2013a[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1861</RecNum><record><rec-number>1861</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1861</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>2012 Benthic invertebrate, periphyton and selenium biomonitoring report for the Cardinal River and

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Cheviot mines</title></titles><dates><year>2013</year></dates><pub-location>Edmonton, AB, Canada</pub-location><label>Prepared for Teck Coal Ltd., Hinton, AB, Canada and Coal Valley Resources Inc., Edmonton, AB, Canada.</label><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	SF Tincup Creek, ID, USA (Spring 2007, SFTC-1)	Periphyton	0.8	3.2	3.9	2.4	Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R.

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	SF Tincup Creek, ID, USA (Fall 2007, SFTC-1)	Periphyton	0.6	3.2	5.1		Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue.

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	SF Tincup Creek, ID, USA (Spring 2008, SFTC-1)	Periphyton	1.2	4.8	4.2		Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	SF Tincup Creek, ID, USA (Fall 2008, SFTC-1)	Periphyton	0.2	0.1	0.9		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</k

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ey></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2006, CC-75)	Periphyton	1.0	3.1	3.1		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2008, CC-75)	Periphyton	2.7	4.5	1.6		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2008, CC-75)	Periphyton	0.6	3.5	6.3		appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2006, CC-150)	Periphyton	1.2	4.9	4.1		USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2007, CC-150)	Periphyton	1.4	4.5	3.3		transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2007, CC-150)	Periphyton	0.8	4.5	5.8		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2008, CC-150)	Periphyton	2.4	7.0	2.9		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2008, CC-150)	Periphyton	0.7	21.6	33.2		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2006, CC-350)	Periphyton	1.5	2.1	1.4		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2007, CC-350)	Periphyton	3.3	4.2	1.3		Formation and HabiTech 2012[ADDIN EN.CITE

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								<EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2008, CC-350)	Periphyton	3.4	10.6	3.1		technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2008, CC-350)	Periphyton	0.6	12.3	20.8		USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Deer Creek, ID, USA (Fall 2006, DC-600)	Periphyton	1.2	10.7	8.9		enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Deer Creek, ID, USA (Spring 2007, DC-600)	Periphyton	7.4	6.4	0.9		Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Deer Creek, ID, USA (Spring 2008, DC-600)	Periphyton	8.7	8.7	1.0		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><auth

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								ors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Deer Creek, ID, USA (Fall 2008, DC-600)	Periphyton	1.7	7.0	4.2		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Fall 2006, HS)	Periphyton	2.2	1.0	0.5		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Spring 2007, HS)	Periphyton	12.0	15.7	1.3		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-

ED_013890_00032364-00484

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Spring 2008, HS)	Periphyton	15.0	21.7	1.4		simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</y

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Fall 2008, HS)	Periphyton	35.2	33.9	1.0		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Fall 2006, HS-3)	Periphyton	6.5	12.5	1.9		title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Spring 2007, HS-3)	Periphyton	12.0	11.4	1.0		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Fall 2007, HS-3)	Periphyton	6.2	11.4	1.8		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Spring 2008, HS-3)	Periphyton	28.5	28.4	1.0		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Hoopes Spring, ID, USA (Fall 2008, HS-3)	Periphyton	24.2	24.7	1.0		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								d></Cite></EndNote>]
Field	Benthic invertebrate composite	Sage Creek, ID, USA (Fall 2006, LSV-2C)	Periphyton	2.6	22.6	8.7		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Sage Creek, ID, USA (Spring 2007, LSV-2C)	Periphyton	8.1	8.3	1.0		num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Sage Creek, ID, USA (Fall 2007, LSV-2C)	Periphyton	18.5	31.7	1.7		BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R.

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Sage Creek, ID, USA (Spring 2008, LSV-2C)	Periphyton	11.6	30.0	2.6		Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue.

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Sage Creek, ID, USA (Fall 2008, LSV-2C)	Periphyton	4.4	23.9	5.5		Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Sage Creek, ID, USA (Fall 2006, LSV-4)	Periphyton	7.4	10.0	1.3		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</k

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Sage Creek, ID, USA (Spring 2007, LSV-4)	Periphyton	11.7	9.1	0.8		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2006, CC-1A)	Periphyton	3.6	3.5	1.0		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2007, CC-1A)	Periphyton	3.4	12.9	3.8		appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY,

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2007, CC-1A)	Periphyton	3.2	12.9	4.0		USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2008, CC-1A)	Periphyton	7.1	15.5	2.2		transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>] Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2008, CC-1A)	Periphyton	5.9	11.6	2.0		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water,

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2006, CC-3A)	Periphyton	3.1	5.5	1.8		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2007, CC-3A)	Periphyton	1.9	5.4	2.9		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Spring 2008, CC-3A)	Periphyton	14.9	17.8	1.2		Formation and HabiTech 2012[ADDIN EN.CITE <EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Exposure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]
Field	Benthic invertebrate composite	Crow Creek, ID, USA (Fall 2008, CC-3A)	Periphyton	1.7	11.2	6.7		Formation and HabiTech 2012[ADDIN EN.CITE

ED_013890_00032364-00509

Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								<EndNote><Cite ExcludeAuth="1" ExcludeYear="1"><Author>Formation Environmental and HabiTech</Author><Year>2012</Year><RecNum>1771</RecNum><record><rec-number>1771</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Formation Environmental and HabiTech,</author></authors></contributors><titles><title>Appendix A - Summary of exposure conditions: surface water, sediment, tissue. Technical support document: Proposed site-specific selenium criterion, Sage and Crow Creeks, Idaho</title><secondary-title>Prepared for J.R. Simplot Company</secondary-title></titles><keywords><keyword>selenium, enrichment factor, trophic transfer factor, BCF, BAF</keyword></keywords><dates><year>2012</year></dates><pub-location>Boulder, CO, USA and Laramie, WY, USA</pub-location><call-num>https://www.deq.idaho.gov/media/804997-simplot-site-specific-selenium-criterion-

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Table S4. Dietary and whole body Se data for invertebrates.

Lab- or Field-based Expo-sure	Species	Sampling Location (Field Data)	Diet (Lab Data) or Dietary Assumption (Field Data)	Dietary Se (µg/g dw)	WB Se (µg/g dw)	Diet-to-WB TTF	Geometric Mean TTF by Study (Lab Data) or Taxa and Study (Field Data)	Reference
								technical-documentation-appa-0112.pdf</call-num><urls></urls></record></Cite></EndNote>]

dw = dry weight
TTF = trophic transfer factor
WB = whole body

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Acipenser transmontanus (white sturgeon)	Selenomethionine	0.4	-	-	5.2	-	13.0	-	Tashjian et al. 2006[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Tashjian</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu S.J.</author><author>Sogomonyan, A.</autho face="normal" font="default" size="100%">Bioa (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 409</pages><volume>79</volume><number> sturgeon</keyword></keywords><dates><yea
Acipenser transmontanus (white sturgeon)	Selenomethionine	9.6	-	-	11.8	-	1.2	-	Tashjian et al. 2006[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Tashjian</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu S.J.</author><author>Sogomonyan, A.</autho face="normal" font="default" size="100%">Bioa (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 409</pages><volume>79</volume><number> sturgeon</keyword></keywords><dates><yea
Acipenser transmontanus (white sturgeon)	Selenomethionine	20.5	-	-	14.7	-	0.7	-	Tashjian et al. 2006[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Tashjian</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu S.J.</author><author>Sogomonyan, A.</autho face="normal" font="default" size="100%">Bioa (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 409</pages><volume>79</volume><number> sturgeon</keyword></keywords><dates><yea
Acipenser transmontanus (white sturgeon)	Selenomethionine	41.7	-	-	22.5	-	0.5	-	Tashjian et al. 2006[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Tashjian</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu S.J.</author><author>Sogomonyan, A.</autho face="normal" font="default" size="100%">Bioa (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 409</pages><volume>79</volume><number> sturgeon</keyword></keywords><dates><yea
Acipenser transmontanus (white sturgeon)	Selenomethionine	89.8	-	-	34.4	-	0.4	-	Tashjian et al. 2006[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Tashjian</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu S.J.</author><author>Sogomonyan, A.</autho

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									face="normal" font="default" size="100%">Bioa (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title> Toxicology</full-title><abbr-1>Aquat. Toxicol.< 409</pages><volume>79</volume><number> sturgeon</keyword></keywords><dates><yea
Acipenser transmontanus (white sturgeon)	Selenomethionine	191.1	-	-	27.5	-	0.1	-	Tashjian et al. 2006[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Tashjian</Author> number><foreign-keys><key app="EN" db-id= name="Journal Article">17</ref-type><contribu S.J.</author><author>Sogomonyan, A.</autho
									face="normal" font="default" size="100%">Bioa (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title> Toxicology</full-title><abbr-1>Aquat. Toxicol.< 409</pages><volume>79</volume><number> sturgeon</keyword></keywords><dates><yea
Lepomis macrochirus (bluegill)	Selenomethionine	1.3	2.2	2.8	-	1.7	-	-	Doroshov et al. 1992[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Doroshov</Author> number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a J.</author><author>Alexander, C.</author><a K.</author><author>Restrepo, C.</author></a aquatic species of the San Joaquin River</title bluegill</keyword></keywords><dates><year> of California</publisher><urls></urls></record
Lepomis macrochirus (bluegill)	Selenomethionine	5.5	6.3	8.3	-	1.2	-	-	Doroshov et al. 1992[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Doroshov</Author> number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a J.</author><author>Alexander, C.</author><a K.</author><author>Restrepo, C.</author></a aquatic species of the San Joaquin River</title bluegill</keyword></keywords><dates><year> of California</publisher><urls></urls></record
Lepomis macrochirus (bluegill)	Selenomethionine	13.9	14.1	19.5	-	1.0	-	-	Doroshov et al. 1992[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Doroshov</Author> number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a J.</author><author>Alexander, C.</author><a K.</author><author>Restrepo, C.</author></a aquatic species of the San Joaquin River</title bluegill</keyword></keywords><dates><year> of California</publisher><urls></urls></record
Lepomis macrochirus (bluegill)	Selenomethionine	21.4	30.6	38.4	-	1.4	-	-	Doroshov et al. 1992[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Doroshov</Author> number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a J.</author><author>Alexander, C.</author><a

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Selenomethionine	0.9	-	-	1.0	-	1.1	-	K.</author><author>Restrepo, C.</author></a aquatic species of the San Joaquin River</title bluegill</keyword></keywords><dates><year> of California</publisher><urls></urls></record Cleveland et al. 1993[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Cleveland</Author number><foreign-keys><key app="EN" db-id= name="Journal Article">17</ref-type><contribu E.E.</author><author>Buckler, D.R.</author> face="normal" font="default" size="100%">Tox (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 280</pages><volume>27</volume><keywords bioaccumulation</keyword></keywords><date
Lepomis macrochirus (bluegill)	Selenomethionine	3.1	-	-	2.0	-	0.7	-	Cleveland et al. 1993[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Cleveland</Author number><foreign-keys><key app="EN" db-id= name="Journal Article">17</ref-type><contribu E.E.</author><author>Buckler, D.R.</author> face="normal" font="default" size="100%">Tox (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 280</pages><volume>27</volume><keywords bioaccumulation</keyword></keywords><date
Lepomis macrochirus (bluegill)	Selenomethionine	4.7	-	-	3.1	-	0.7	-	Cleveland et al. 1993[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Cleveland</Author number><foreign-keys><key app="EN" db-id= name="Journal Article">17</ref-type><contribu E.E.</author><author>Buckler, D.R.</author> face="normal" font="default" size="100%">Tox (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 280</pages><volume>27</volume><keywords bioaccumulation</keyword></keywords><date
Lepomis macrochirus (bluegill)	Selenomethionine	8.8	-	-	4.6	-	0.5	-	Cleveland et al. 1993[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Cleveland</Author number><foreign-keys><key app="EN" db-id= name="Journal Article">17</ref-type><contribu E.E.</author><author>Buckler, D.R.</author> face="normal" font="default" size="100%">Tox (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 280</pages><volume>27</volume><keywords bioaccumulation</keyword></keywords><date

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Selenomethionine	16.9	-	-	7.5	-	0.4	-	Cleveland et al. 1993[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Cleveland</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu E.E.</author><author>Buckler, D.R.</author>< face="normal" font="default" size="100%">Tox (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 280</pages><volume>27</volume><keywords bioaccumulation</keyword></keywords><date
Lepomis macrochirus (bluegill)	Selenomethionine	33.3	-	-	13.4	-	0.4	-	Cleveland et al. 1993[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Cleveland</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu E.E.</author><author>Buckler, D.R.</author>< face="normal" font="default" size="100%">Tox (</style><style face="italic" font="default" size= size="100%">).</style></title><secondary-title Toxicology</full-title><abbr-1>Aquat. Toxicol.< 280</pages><volume>27</volume><keywords bioaccumulation</keyword></keywords><date
Lepomis macrochirus (bluegill)	Selenomethionine	0.76	1.3	2.5	1	1.6	1.3	1.3	Coyle et al. 1993[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Coyle</Author><Ye number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu D.R.</author><author>Ingersoll, C.G.</author> T.W.</author></authors></contributors><titles reproductive success of bluegills (</style><styl face="normal" font="default" size="100%">).</s title></titles><periodical><full-title>Environmen 2>Environ Toxicol Chem</abbr-2><abbr-3>En 565</pages><volume>12</volume><keywords bluegill</keyword></keywords><dates><year>
Lepomis macrochirus (bluegill)	Selenomethionine	4.6	7.3	9.0	3	1.6	0.6	2.4	Coyle et al. 1993[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Coyle</Author><Ye number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu D.R.</author><author>Ingersoll, C.G.</author> T.W.</author></authors></contributors><titles reproductive success of bluegills (</style><styl face="normal" font="default" size="100%">).</s title></titles><periodical><full-title>Environmen 2>Environ Toxicol Chem</abbr-2><abbr-3>En 565</pages><volume>12</volume><keywords bluegill</keyword></keywords><dates><year>
Lepomis macrochirus (bluegill)	Selenomethionine	8.5	12.5	13.0	5	1.5	0.6	2.5	Coyle et al. 1993[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Coyle</Author><Ye number><foreign-keys><key app="EN" db-id='

ED_013890_00032364-00515

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Selenomethionine	16.8	22.5	25.0	7	1.3	0.4	3.2	name="Journal Article">17</ref-type><contribu D.R.</author><author>Ingersoll, C.G.</author> T.W.</author></authors></contributors><titles: reproductive success of bluegills (</style><styl face="normal" font="default" size="100%">).</s title></titles><periodical><full-title>Environmen 2>Environ Toxicol Chem</abbr-2><abbr-3>En 565</pages><volume>12</volume><keywords bluegill</keyword></keywords><dates><year> Coyle et al. 1993[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Coyle</Author><Ye number><foreign-keys><key app="EN" db-id="
Lepomis macrochirus (bluegill)	Selenomethionine	33.3	41.3	42.0	16	1.2	0.5	2.6	name="Journal Article">17</ref-type><contribu D.R.</author><author>Ingersoll, C.G.</author> T.W.</author></authors></contributors><titles: reproductive success of bluegills (</style><styl face="normal" font="default" size="100%">).</s title></titles><periodical><full-title>Environmen 2>Environ Toxicol Chem</abbr-2><abbr-3>En 565</pages><volume>12</volume><keywords bluegill</keyword></keywords><dates><year> Coyle et al. 1993[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Coyle</Author><Ye number><foreign-keys><key app="EN" db-id="
Lepomis macrochirus (bluegill)	Selenomethionine	0.82	-	-	1	-	1.2	-	name="Journal Article">17</ref-type><contribu D.R.</author><author>Ingersoll, C.G.</author> T.W.</author></authors></contributors><titles: reproductive success of bluegills (</style><styl face="normal" font="default" size="100%">).</s title></titles><periodical><full-title>Environmen 2>Environ Toxicol Chem</abbr-2><abbr-3>En 565</pages><volume>12</volume><keywords bluegill</keyword></keywords><dates><year> Lemly 1993[ADDIN EN.CITE <EndNote><Cite ExcludeYear="1"><Author>Lemly</Author><Ye number><foreign-keys><key app="EN" db-id="
Lepomis macrochirus (bluegill)	Selenomethionine	5.16	-	-	5.9	-	1.1	-	name="Journal Article">17</ref-type><contribu A.D.</author></authors></contributors><titles> fish.</title><secondary-title>Aquatic Toxicolog 1>Aquat. Toxicol.</abbr-1><abbr-2>Aquat Tox 158</pages><volume>27</volume><keywords syndrome</keyword></keywords><dates><yea Lemly 1993[ADDIN EN.CITE <EndNote><Cite ExcludeYear="1"><Author>Lemly</Author><Ye number><foreign-keys><key app="EN" db-id=" name="Journal Article">17</ref-type><contribu A.D.</author></authors></contributors><titles> fish.</title><secondary-title>Aquatic Toxicolog 1>Aquat. Toxicol.</abbr-1><abbr-2>Aquat Tox

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Selenomethionine	0.82	-	-	1.2	-	1.5	-	158</pages><volume>27</volume><keywords syndrome</keyword></keywords><dates><yea Lemly 1993[ADDIN EN.CITE <EndNote><Cite ExcludeYear="1"><Author>Lemly</Author><Y number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.D.</author></authors></contributors><titles> fish.</title><secondary-title>Aquatic Toxicolog 1>Aquat. Toxicol.</abbr-1><abbr-2>Aquat Tox
Lepomis macrochirus (bluegill)	Selenomethionine	5.16	-	-	7.9	-	1.5	-	158</pages><volume>27</volume><keywords syndrome</keyword></keywords><dates><yea Lemly 1993[ADDIN EN.CITE <EndNote><Cite ExcludeYear="1"><Author>Lemly</Author><Y number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.D.</author></authors></contributors><titles> fish.</title><secondary-title>Aquatic Toxicolog 1>Aquat. Toxicol.</abbr-1><abbr-2>Aquat Tox
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	1.0	-	3.5	1.3	3.5	1.3	2.7	158</pages><volume>27</volume><keywords syndrome</keyword></keywords><dates><yea Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	21.6	-	16.9	17.9	1.2	0.8	1.5	Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	21.6	-	42.5	18.7	-	-	-	Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year>

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									Environmental Protection Agency</publisher><
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	1.6	-	6.8	2.0	3.7	1.1	3.4	Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year>
									Environmental Protection Agency</publisher><
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	1.6	-	5.2	1.6	-	-	-	Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year>
									Environmental Protection Agency</publisher><
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	1.6	-	7.3	2.0	-	-	-	Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year>
									Environmental Protection Agency</publisher><
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	1.6	-	5.1	1.5	-	-	-	Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year>
									Environmental Protection Agency</publisher><
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	6.0	-	12.1	5.4	2.6	0.7	3.8	Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font=

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	6.0	-	13.5	2.8	-	-	-	streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font=
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	6.0	-	22.4	4.4	-	-	-	streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font=
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	22.8	-	54.0	16.6	2.6	0.8	3.4	streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font=
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	22.8	-	46.4	12.4	-	-	-	streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font=
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	22.8	-	84.0	27.0	-	-	-	streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	18.0	-	39.1	8.0	3.3	0.8	4.2	macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	18.0	-	88.0	24.5	-	-	-	macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	1.1	-	8.0	1.3	6.5	1.7	3.8	macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	1.1	-	6.2	2.7	-	-	-	macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	4.9	-	9.1	4.3	2.5	1.0	2.6	macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	4.9	-	12.3	4.2	-	-	-	face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	4.9	-	13.8	6.0	-	-	-	face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	4.9	-	13.1	4.3	-	-	-	face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	15.9	-	41.6	11.1	2.1	0.6	3.3	face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	15.9	-	41.7	11.6	-	-	-	face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	15.9	-	41.5	8.3	-	-	-	K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	15.9	-	16.3	9.4	-	-	-	K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	6.6	-	29.0	6.2	3.7	1.3	2.9	K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	6.6	-	25.5	13.9	-	-	-	K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><a
Lepomis macrochirus (bluegill)	Mesocosm[2,3]	6.6	-	19.5	7.2	-	-	-	K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher>< Hermanutz et al. 1996[ADDIN EN.CITE <End ExcludeYear="1"><Author>Hermanutz</Autho number><foreign-keys><key app="EN" db-id=

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									name="Report">27</ref-type><contributors><a K.N.</author><author>Detenbeck, N.E.</autho face="normal" font="default" size="100%">Exp macrochirus</style><style face="normal" font= streams</style></title></titles><keywords><ke bluegill</keyword></keywords><dates><year> Environmental Protection Agency</publisher><
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	2.3	-	-	2.1	-	0.9	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	4.5	-	-	2.6	-	0.6	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	5.3	-	-	3.2	-	0.6	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	7.5	-	-	4.0	-	0.5	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	14.2	-	-	6.7	-	0.5	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author><

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	25.7	-	-	10.7	-	0.4	-	number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles: temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles: temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	34.9	-	-	12.7	-	0.4	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles: temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	2.2	-	-	1.7	-	0.8	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles: temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	4.2	-	-	3.2	-	0.8	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles: temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	5.0	-	-	3.8	-	0.8	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	7.2	-	-	5.5	-	0.8	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	15.2	-	-	9.4	-	0.6	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	25.4	-	-	16.0	-	0.6	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote Ecological Criteria Division, Office of Water, </l
Lepomis macrochirus (bluegill)	*Lumbriculus* exposed to selenized yeast	46.7	-	-	17.2	-	0.4	-	McIntyre et al. 2008[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>McIntyre</Author>< number><foreign-keys><key app="EN" db-id=' name="Report">27</ref-type><contributors><a M.A.</author><author>Garton, M.W.</author> C.G.</author></authors></contributors><titles temperature.</title></titles><keywords><keywo syndrome</keyword></keywords><dates><yea location><publisher>U.S. Environmental Prote

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									Ecological Criteria Division, Office of Water, </l
Micropterus salmoides (largemouth bass)	Selenomethionine	0.9	-	3.1	-	3.4	-	-	CP&L 1997[ADDIN EN.CITE <EndNote><Cite Light</Author><Year>1997</Year><RecNum> id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2 type><contributors><authors><author>Carolin. selenium bioassay</title></titles><pages>14</ bioassay</keyword></keywords><dates><yea Services Section</publisher><urls></urls></re
Micropterus salmoides (largemouth bass)	Selenomethionine	2.9	-	8.8	-	3.0	-	-	CP&L 1997[ADDIN EN.CITE <EndNote><Cite Light</Author><Year>1997</Year><RecNum> id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2 type><contributors><authors><author>Carolin. selenium bioassay</title></titles><pages>14</ bioassay</keyword></keywords><dates><yea Services Section</publisher><urls></urls></re
Micropterus salmoides (largemouth bass)	Selenomethionine	7.5	-	10.8	-	1.4	-	-	CP&L 1997[ADDIN EN.CITE <EndNote><Cite Light</Author><Year>1997</Year><RecNum> id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2 type><contributors><authors><author>Carolin. selenium bioassay</title></titles><pages>14</ bioassay</keyword></keywords><dates><yea Services Section</publisher><urls></urls></re
Micropterus salmoides (largemouth bass)	Selenomethionine	11.2	-	25.0	-	2.2	-	-	CP&L 1997[ADDIN EN.CITE <EndNote><Cite Light</Author><Year>1997</Year><RecNum> id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2 type><contributors><authors><author>Carolin. selenium bioassay</title></titles><pages>14</ bioassay</keyword></keywords><dates><yea Services Section</publisher><urls></urls></re
Micropterus salmoides (largemouth bass)	Selenomethionine	26.7	-	40.0	-	1.5	-	-	CP&L 1997[ADDIN EN.CITE <EndNote><Cite Light</Author><Year>1997</Year><RecNum> id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2 type><contributors><authors><author>Carolin. selenium bioassay</title></titles><pages>14</ bioassay</keyword></keywords><dates><yea Services Section</publisher><urls></urls></re
Micropterus salmoides (largemouth bass)	Selenomethionine	53.1	-	61.0	-	1.1	-	-	CP&L 1997[ADDIN EN.CITE <EndNote><Cite Light</Author><Year>1997</Year><RecNum> id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2 type><contributors><authors><author>Carolin. selenium bioassay</title></titles><pages>14</ bioassay</keyword></keywords><dates><yea Services Section</publisher><urls></urls></re
Micropterus salmoides (largemouth bass)	Selenomethionine	78.4	-	77.6	-	1.0	-	-	CP&L 1997[ADDIN EN.CITE <EndNote><Cite Light</Author><Year>1997</Year><RecNum> id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2 type><contributors><authors><author>Carolin. selenium bioassay</title></titles><pages>14</

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									bioassay</keyword></keywords><dates><yea Services Section</publisher><urls></urls></re
Oncorhynchus clarki (cutthroat trout)	Selenomethionine	1.2	1.6	-	1.2	1.4	1.0	1.4	Hardy et al. 2010[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Hardy</Author><Y number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu L.L.</author><author>Möller, G.</author></au size="100%">Effects of dietary selenomethioni size="100%">Oncorhynchus clarki bouvieri</st performance over a life cycle.</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>237- 245</pages><volume>58</volume><number> trout</keyword></keywords><dates><year>20 urls><url>file:///C:/Documents%20and%20Sett urls></urls></record></Cite></EndNote>]
Oncorhynchus clarki (cutthroat trout)	Selenomethionine	3.8	7.8	-	4.6	2.1	1.2	1.7	Hardy et al. 2010[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Hardy</Author><Y number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu L.L.</author><author>Möller, G.</author></au size="100%">Effects of dietary selenomethioni size="100%">Oncorhynchus clarki bouvieri</st performance over a life cycle.</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>237- 245</pages><volume>58</volume><number> trout</keyword></keywords><dates><year>20 urls><url>file:///C:/Documents%20and%20Sett urls></urls></record></Cite></EndNote>]
Oncorhynchus clarki (cutthroat trout)	Selenomethionine	6.4	6.6	-	5.9	1.0	0.9	1.1	Hardy et al. 2010[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Hardy</Author><Y number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu L.L.</author><author>Möller, G.</author></au size="100%">Effects of dietary selenomethioni size="100%">Oncorhynchus clarki bouvieri</st performance over a life cycle.</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>237- 245</pages><volume>58</volume><number> trout</keyword></keywords><dates><year>20 urls><url>file:///C:/Documents%20and%20Sett urls></urls></record></Cite></EndNote>]
Oncorhynchus clarki (cutthroat trout)	Selenomethionine	9.0	5.1	-	9.1	0.6	1.0	0.6	Hardy et al. 2010[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Hardy</Author><Y

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu L.L.</author><author>Möller, G.</author></au size="100%">Effects of dietary selenomethioni size="100%">Oncorhynchus clarki bouvieri</st performance over a life cycle.</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>237- 245</pages><volume>58</volume><number> trout</keyword></keywords><dates><year>20 urls><url>file:///C:/Documents%20and%20Sett urls></urls></record></Cite></EndNote>]
Oncorhynchus clarki (cutthroat trout)	Selenomethionine	11.5	5.2	-	11.4	0.5	1.0	0.5	Hardy et al. 2010[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Hardy</Author><Y number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu L.L.</author><author>Möller, G.</author></au size="100%">Effects of dietary selenomethioni size="100%">Oncorhynchus clarki bouvieri</st performance over a life cycle.</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>237- 245</pages><volume>58</volume><number> trout</keyword></keywords><dates><year>20 urls><url>file:///C:/Documents%20and%20Sett urls></urls></record></Cite></EndNote>]
Oncorhynchus clarki (cutthroat trout)	Selenomethionine	12.0	16.0	-	5.6	1.3	0.5	2.9	Hardy et al. 2010[ADDIN EN.CITE <EndNote> ExcludeYear="1"><Author>Hardy</Author><Y number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu L.L.</author><author>Möller, G.</author></au size="100%">Effects of dietary selenomethioni size="100%">Oncorhynchus clarki bouvieri</st performance over a life cycle.</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>237- 245</pages><volume>58</volume><number> trout</keyword></keywords><dates><year>20 urls><url>file:///C:/Documents%20and%20Sett urls></urls></record></Cite></EndNote>]
Oncorhynchus mykiss (rainbow trout)	Selenomethionine	0.23	-	-	1.2	-	5.4	-	Vidal et al. 2005[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Vidal</Author><Ye number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu D.</author></authors></contributors><titles><t on larval rainbow trout (</style><style face="ita

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Oncorhynchus mykiss (rainbow trout)	Selenomethionine	4.6	-	-	2.3	-	0.5	-	font="default" size="100%">).</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>71-7 toxicity, rainbow trout</keyword></keywords>< Vidal et al. 2005[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Vidal</Author><Ye number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu D.</author></authors></contributors><titles><t on larval rainbow trout (</style><style face="ita font="default" size="100%">).</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>71-7 toxicity, rainbow trout</keyword></keywords><
Oncorhynchus mykiss (rainbow trout)	Selenomethionine	12.0	-	-	4.8	-	0.4	-	Vidal et al. 2005[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Vidal</Author><Ye number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu D.</author></authors></contributors><titles><t on larval rainbow trout (</style><style face="ita font="default" size="100%">).</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>71-7 toxicity, rainbow trout</keyword></keywords><
Oncorhynchus mykiss (rainbow trout)	Selenomethionine	18.0	-	-	5.6	-	0.3	-	Vidal et al. 2005[ADDIN EN.CITE <EndNote>< ExcludeYear="1"><Author>Vidal</Author><Ye number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu D.</author></authors></contributors><titles><t on larval rainbow trout (</style><style face="ita font="default" size="100%">).</style></title><s title></titles><periodical><full-title>Archives of Toxicol.</abbr-1><abbr-2>Arch Environ Contar Toxicology</abbr-3></periodical><pages>71-7 toxicity, rainbow trout</keyword></keywords><
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	1.0	-	-	0.9	-	0.9	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords

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Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	3.2	-	-	2.0	-	0.6	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	5.3	-	-	3.1	-	0.6	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	9.6	-	-	5.3	-	0.6	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	18.2	-	-	10.4	-	0.6	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	35.4	-	-	23.4	-	0.7	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period

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Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	3.2	-	-	3.3	-	1.0	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	5.3	-	-	4.5	-	0.8	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	9.6	-	-	8.4	-	0.9	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	18.2	-	-	13.3	-	0.7	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry< Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords
Oncorhynchus tshawytscha (Chinook salmon)	Selenomethionine	35.4	-	-	29.4	-	0.8	-	Hamilton et al. 1990[ADDIN EN.CITE <EndNo ExcludeYear="1"><Author>Hamilton</Author> number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu K.J.</author><author>Faerber, N.L.</author>< F.A.</author></authors></contributors><titles> title>Environmental Toxicology and Chemistry<

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Pimephales promelas (fathead minnow)	Simulated food chain	>70	-	-	43.0	-	0.6	-	Chemistry</full-title><abbr-1>Environ. Toxicol. Toxicology & Chemistry</abbr-3></period toxicity, chinook salmon</keyword></keywords Bennett et al. 1986[ADDIN EN.CITE <EndNot ExcludeYear="1"><Author>Bennett</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.S.</author><author>Boraas, M.E.</author>< chain and its effects on fathead minnow larvae Toxicology</secondary-title></titles><periodica 1>Arch. Environ. Contam. Toxicol.</abbr-1><a Contamination & Toxicology</abbr-3></pe 517</pages><volume>15</volume><keywords toxicity</keyword></keywords><dates><year>
Pimephales promelas (fathead minnow)	Simulated food chain	68	-	-	51.7	-	0.8	-	Bennett et al. 1986[ADDIN EN.CITE <EndNot ExcludeYear="1"><Author>Bennett</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.S.</author><author>Boraas, M.E.</author>< chain and its effects on fathead minnow larvae Toxicology</secondary-title></titles><periodica 1>Arch. Environ. Contam. Toxicol.</abbr-1><a Contamination & Toxicology</abbr-3></pe 517</pages><volume>15</volume><keywords toxicity</keyword></keywords><dates><year>
Pimephales promelas (fathead minnow)	Simulated food chain	55	-	-	61.1	-	1.1	-	Bennett et al. 1986[ADDIN EN.CITE <EndNot ExcludeYear="1"><Author>Bennett</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.S.</author><author>Boraas, M.E.</author>< chain and its effects on fathead minnow larvae Toxicology</secondary-title></titles><periodica 1>Arch. Environ. Contam. Toxicol.</abbr-1><a Contamination & Toxicology</abbr-3></pe 517</pages><volume>15</volume><keywords toxicity</keyword></keywords><dates><year>
Pimephales promelas (fathead minnow)	Simulated food chain	1.33	-	-	0.3	-	0.2	-	Bertram and Brooks 1986[ADDIN EN.CITE <E ExcludeYear="1"><Author>Bertram</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.S.</author></authors></contributors><titles> minnows.</title><secondary-title>Water Resea 1>Water Res.</abbr-1></periodical><pages>8 884</pages><volume>20</volume><number>
Pimephales promelas (fathead minnow)	Simulated food chain	3.66	-	-	0.6	-	0.2	-	trophic transfer</keyword></keywords><dates> Bertram and Brooks 1986[ADDIN EN.CITE <E ExcludeYear="1"><Author>Bertram</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
Pimephales promelas (fathead minnow)	Simulated food chain	7.32	-	-	1.2	-	0.2	-	A.S.</author></authors></contributors><titles> minnows.</title><secondary-title>Water Resea 1>Water Res.</abbr-1></periodical><pages>8 884</pages><volume>20</volume><number> trophic transfer</keyword></keywords><dates Bertram and Brooks 1986[ADDIN EN.CITE <E ExcludeYear="1"><Author>Bertram</Author>< number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu
Pimephales promelas (fathead minnow)	25% Se-Met, 25% selenate, 50% selenite	0.4	-	6.1	1.8	15.2	4.4	3.5	A.S.</author></authors></contributors><titles> minnows.</title><secondary-title>Water Resea 1>Water Res.</abbr-1></periodical><pages>8 884</pages><volume>20</volume><number> trophic transfer</keyword></keywords><dates Ogle and Knight 1989[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Ogle</Author><Yea number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.W.</author></authors></contributors><titles selenium on growth and reproduction of the fat promelas</style><style face="normal" font="de Contamination and Toxicology</secondary-title Toxicology</full-title><abbr-1>Arch. Environ. C 3>Archives of Environmental Contamination &a 803</pages><volume>18</volume><keywords reproduction</keyword></keywords><dates><
Pimephales promelas (fathead minnow)	25% Se-Met, 25% selenate, 50% selenite	5.2	-	6.9	2.8	1.3	0.5	2.5	Ogle and Knight 1989[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Ogle</Author><Yea number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.W.</author></authors></contributors><titles selenium on growth and reproduction of the fat promelas</style><style face="normal" font="de Contamination and Toxicology</secondary-title Toxicology</full-title><abbr-1>Arch. Environ. C 3>Archives of Environmental Contamination &a 803</pages><volume>18</volume><keywords reproduction</keyword></keywords><dates><
Pimephales promelas (fathead minnow)	25% Se-Met, 25% selenate, 50% selenite	10.2	-	7.6	3.4	0.7	0.3	2.2	Ogle and Knight 1989[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Ogle</Author><Yea number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.W.</author></authors></contributors><titles selenium on growth and reproduction of the fat promelas</style><style face="normal" font="de Contamination and Toxicology</secondary-title Toxicology</full-title><abbr-1>Arch. Environ. C 3>Archives of Environmental Contamination &a 803</pages><volume>18</volume><keywords

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Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference
									reproduction</keyword></keywords><dates><
Pimephales promelas (fathead minnow)	25% Se-Met, 25% selenate, 50% selenite	15.2	-	8.5	5.4	0.6	0.4	1.6	Ogle and Knight 1989[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Ogle</Author><Yea number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.W.</author></authors></contributors><titles: selenium on growth and reproduction of the fat promelas</style><style face="normal" font="de Contamination and Toxicology</secondary-title Toxicology</full-title><abbr-1>Arch. Environ. C 3>Archives of Environmental Contamination &a 803</pages><volume>18</volume><keywords reproduction</keyword></keywords><dates><
Pimephales promelas (fathead minnow)	25% Se-Met, 25% selenate, 50% selenite	20.3	-	9.1	6.6	0.4	0.3	1.4	Ogle and Knight 1989[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Ogle</Author><Yea number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.W.</author></authors></contributors><titles: selenium on growth and reproduction of the fat promelas</style><style face="normal" font="de Contamination and Toxicology</secondary-title Toxicology</full-title><abbr-1>Arch. Environ. C 3>Archives of Environmental Contamination &a 803</pages><volume>18</volume><keywords reproduction</keyword></keywords><dates><
Pimephales promelas (fathead minnow)	25% Se-Met, 25% selenate, 50% selenite	29.5	-	10.9	7.5	0.4	0.3	1.5	Ogle and Knight 1989[ADDIN EN.CITE <EndN ExcludeYear="1"><Author>Ogle</Author><Yea number><foreign-keys><key app="EN" db-id=' name="Journal Article">17</ref-type><contribu A.W.</author></authors></contributors><titles: selenium on growth and reproduction of the fat promelas</style><style face="normal" font="de Contamination and Toxicology</secondary-title Toxicology</full-title><abbr-1>Arch. Environ. C 3>Archives of Environmental Contamination &a 803</pages><volume>18</volume><keywords reproduction</keyword></keywords><dates><

[1] The egg Se concentration was used if both egg and ovary Se concentrations were reported.
[2] Mesocosm study in which experimental stream was initially spiked with selenite, but dietary exposure would have included the formation of organic Se compounds in the experimental food web.
[3] Dietary Se concentration was based on the mean Se concentrations measured in amphipods, isopods, damselflies, mayflies, and midges; dry weight Se concentrations in bluegill ovaries were estimated from wet weight concentrations as <EndNote><Cite><Author>Gillespie</Author><Year>1986</Year><RecNum>617</RecNum><DisplayText>(Gillespie and Baumann 1986)</DisplayText><record><rec-number>617</rec-number><foreign-keys><key app="EN" db-id="f2 Article">17</ref-type><contributors><authors><author>Gillespie, R.B.</author><author>Baumann, P.C.</author></authors></contributors><titles><title>Effects of high tissue concentrations of selenium on reproduction by bluegills.</title title></titles><periodical><full-title>Transactions of the American Fisheries Society</full-title><abbr-1>Trans. Am. Fish. Soc.</abbr-1></periodical><pages>208-213</pages><volume>115</volume><keywords><keyword>selenium, blueg deformities</keyword></keywords><dates><year>1986</year></dates><urls></urls></record></Cite></EndNote>]; dry weight Se concentrations in whole body bluegill tissue were estimated from wet weight concentrations assuming 75 <EndNote><Cite><Author>Seiler</Author><Year>2001</Year><RecNum>1968</RecNum><DisplayText>(Seiler and Skorupa 2001)</DisplayText><record><rec-number>1968</rec-number><foreign-keys><key app="EN" db-id="f2ses9

Table S5. Dietary and egg, ovary, and whole body Se data for fish.

Species	Diet	Dietary Se (µg/g dw)	Egg Se (µg/g dw)	Ovary Se (µg/g dw)	WB Se (µg/g dw)	Relationships: Diet-to-Egg/Ovary TTF[1]	Relationships: Diet-to-WB TTF	Relationships: Egg/Ovary-to-WB Se Ratio[1]	Reference

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synthesis</keyword></keywords><dates><year>2001</year></dates><pub-location>Denver, CO, USA</pub-location><publisher>United States Geological Survey</publisher><call-num>Open-File Report 00–513</call-num><urls></urls

dw = dry weight
TTF = trophic transfer factor
WB = whole body

Table S6. Co-located water Se, water SO_4, and particulate Se data used to derive SO_4-dependent water Se screening guideline.

Species	Lab or Field	Field Location	SO_4 (mg/L)	Water Se (µg/L)	Particulate Se (µg/g dw)	Predicted Invert Se[1]	Predicted Fish Egg Se[1]	50th Quantile Fish Se[2]	75th Quantile Fish Se[2]	90th Quantile Fish Se[2]	Reference
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	1.1	0.7	1.9	6.59	11	16	18	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	1.1	2.3	5.2	13	11	16	18	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	1.3	2.2	5.0	13	12	17	19	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	1.6	0.2	0.6	3	13	19	21	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	1.9	1.2	3.0	9	13	20	22	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	2.6	2.9	6.4	15	16	23	26	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	2.7	2.1	4.9	13	16	24	26	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	2.8	7.5	15	26	16	24	27	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	3.4	4.3	9.1	19	17	26	29	Rickwood and Jatar 2013
Lemna minor (duckweed)	Lab	--	132	3.9	0.6	1.6	6	7	9	13	Nautilus 2013a; Lo et al. 2015
Selenastrum capricornutum (green alga)	Lab	--	14.4	4	1.1	2.7	8	20	30	33	Malchow et al. 1995
Chlorella vulgaris (green alga)	Lab	--	17	4.0	0.5	1.3	5	19	28	31	Rickwood and Jatar 2013
Lemna minor (duckweed)	Lab	--	220	4.2	0.5	1.4	5	5	7	10	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	50.8	4.5	1.4	3.4	10	11	16	20	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	335	4.7	0.3	0.9	4	5	5	9	Nautilus 2013a; Lo et al. 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	5.0	2.8	6.3	15	20	30	34	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	6.1	5.5	11	22	22	33	37	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	6.5	4.0	8.6	18	23	34	38	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	6.7	4.4	9.3	19	23	34	39	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	7.2	1.5	3.5	10	24	35	40	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	7.7	8.0	16	27	24	36	41	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	8.0	2.3	5.3	13	25	37	42	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	155	9.0	1.0	2.4	8	9	11	17	Lo et al. 2012, 2015
Lemna minor (duckweed)	Lab	--	50.8	9.0	2.6	5.9	14	15	21	28	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	220	9.1	1.4	3.3	10	8	9	15	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	132	9.2	1.0	2.6	8	10	12	18	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	335	9.3	0.7	1.8	6	6	7	12	Nautilus 2013a; Lo et al. 2015
Chlorella vulgaris (green alga)	Lab	--	17	9.4	1.2	2.9	9	27	39	45	Rickwood and Jatar 2013
Chlamydomonas reinhardtii (green alga)	Lab	--	60	9.5	3.7	8.0	17	14	19	26	Besser et al. 1993

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Table S6. Co-located water Se, water SO_4, and particulate Se data used to derive SO_4-dependent water Se screening guideline.

Species	Lab or Field	Field Location	SO_4 (mg/L)	Water Se (µg/L)	Particulate Se (µg/g dw)	Predicted Invert Se[1]	Predicted Fish Egg Se[1]	50th Quantile Fish Se[2]	75th Quantile Fish Se[2]	90th Quantile Fish Se[2]	Reference
Selenastrum capricornutum (green alga)	Lab	--	14.4	10	2.11	4.9	12	30	44	50	Malchow et al. 1995
Pseudokirchneriella subcapitata (green alga)	Lab	--	5	10.0	2.5	5.6	14	49	81	79	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	86	10.0	0.9	2.3	8	12	16	23	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	396	10.0	0.3	0.7	4	6	7	12	Lo et al. 2012, 2015
Periphyton	Lab	--	41	10	14.2	26.7	38.6	18	24	31.6	Conley et al. 2013
Chlorella vulgaris (green alga)	Lab	--	17	10.1	7.4	15	26	27	40	46	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	10.3	16.6	31	42	28	41	47	Rickwood and Jatar 2013
Selenastrum capricornutum (green alga)	Lab	--	3.3	11.3	17	31	43	63	107	99	Williams et al. 1994
Selenastrum capricornutum (green alga)	Lab	--	33	11.3	4	8.6	18	21	29	37	Williams et al. 1994
Chlorella vulgaris (green alga)	Lab	--	17	12.1	2.6	5.9	14	29	44	50	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	15.1	14.6	27	39	32	48	55	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	15.8	7.8	16	27	33	49	56	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	16.2	6.9	14	25	33	49	57	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	5	18.0	3.4	7.5	17	63	103	101	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	155	18.0	1.2	3.0	9	12	15	23	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	396	18.0	0.3	0.9	4	8	9	15	Lo et al. 2012, 2015
Lemna minor (duckweed)	Lab	--	220	18.3	2.0	4.6	12	10	12	20	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	50.8	18.5	5.5	11	22	21	28	37	Nautilus 2013a; Lo et al. 2015
Chlorella vulgaris (green alga)	Lab	--	17	19.5	14.4	27	39	36	53	62	Rickwood and Jatar 2013
Lemna minor (duckweed)	Lab	--	335	19.6	1.1	2.8	9	9	10	17	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	132	19.8	2.3	5.2	13	13	17	26	Nautilus 2013a; Lo et al. 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	21.0	32.4	56	63	37	55	64	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	22.1	24.5	43	53	38	56	65	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	24.5	5.0	10	21	40	58	68	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	27.2	16.2	30	42	41	61	71	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	5	30.0	7.1	14	26	78	126	126	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	30.4	41.6	70	73	43	63	75	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	155	31.0	2.1	4.8	12	15	18	29	Lo et al. 2012, 2015

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Table S6. Co-located water Se, water SO_4, and particulate Se data used to derive SO_4-dependent water Se screening guideline.

Species	Lab or Field	Field Location	SO_4 (mg/L)	Water Se (µg/L)	Particulate Se (µg/g dw)	Predicted Invert Se[1]	Predicted Fish Egg Se[1]	50th Quantile Fish Se[2]	75th Quantile Fish Se[2]	90th Quantile Fish Se[2]	Reference
Pseudokirchneriella subcapitata (green alga)	Lab	--	267	31.0	1.4	3.4	10	12	13	23	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	396	31.0	0.7	1.9	7	10	11	19	Lo et al. 2012, 2015
Lemna minor (duckweed)	Lab	--	50.8	37.1	10.3	20	32	28	37	51	Nautilus 2013a; Lo et al. 2015
Lemna minor (duckweed)	Lab	--	335	38.5	1.9	4.5	12	11	13	23	Nautilus 2013a; Lo et al. 2015
Chlorella vulgaris (green alga)	Lab	--	17	38.6	39.1	66	70	48	70	83	Rickwood and Jatar 2013
Lemna minor (duckweed)	Lab	--	132	39.0	3.8	8.2	18	18	22	34	Nautilus 2013a; Lo et al. 2015
Chlorella vulgaris (green alga)	Lab	--	17	39.2	27.0	47	57	48	70	83	Rickwood and Jatar 2013
Lemna minor (duckweed)	Lab	--	220	39.3	3.4	7.4	16	14	16	27	Nautilus 2013a; Lo et al. 2015
Selenastrum capricornutum (green alga)	Lab	--	14.4	40	7.17	14	26	53	78	90	Malchow et al. 1995
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	40.9	29.3	51	59	49	72	85	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	41.1	54.2	88	86	49	72	85	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	41.4	33.3	57	64	49	72	85	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	41.4	14.0	26	38	49	72	85	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	42.1	35.7	61	67	50	73	86	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	42.4	13.0	25	37	50	73	86	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	43.2	24.9	44	54	50	73	87	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	43.5	37.5	64	69	50	73	87	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	46.8	7.9	16	27	52	76	90	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	46.8	9.5	19	30	52	76	90	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	46.9	10.6	21	32	52	76	90	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	47.2	22.1	40	50	52	76	90	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	50.5	20.2	37	48	54	78	93	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	52.1	46.6	77	78	54	79	94	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	52.3	25.3	45	54	54	79	94	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	52.3	28.1	49	58	54	79	94	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	5	54.0	13.3	25	37	99	161	162	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	396	55.0	1.8	4.2	11	12	14	25	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	155	56.0	2.8	6.3	15	19	23	37	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	60.2	184.4	263	177	58	84	100	Rickwood and Jatar 2013

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Table S6. Co-located water Se, water SO_4, and particulate Se data used to derive SO_4-dependent water Se screening guideline.

Species	Lab or Field	Field Location	SO_4 (mg/L)	Water Se (µg/L)	Particulate Se (µg/g dw)	Predicted Invert Se[1]	Predicted Fish Egg Se[1]	50th Quantile Fish Se[2]	75th Quantile Fish Se[2]	90th Quantile Fish Se[2]	Reference
Pseudokirchneriella subcapitata (green alga)	Lab	--	5	91.0	20.4	37	48	124	199	203	Lo et al. 2012, 2015
Chlorella vulgaris (green alga)	Lab	--	17	91.4	159.4	231	162	69	100	120	Rickwood and Jatar 2013
Chlamydomonas reinhardtii (green alga)	Lab	--	60	92.1	31.1	54	61	37	49	70	Besser et al. 1993
Chlorella vulgaris (green alga)	Lab	--	17	93.1	44.7	74	76	69	100	121	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	155	97.0	4.6	9.8	20	24	29	47	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	754	98.0	0.5	1.2	5	11	12	24	Lo et al. 2012, 2015
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	101.0	98.5	150	122	71	104	125	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	396	102.0	1.1	2.8	8	16	17	32	Lo et al. 2012, 2015
Chlorella vulgaris (green alga)	Lab	--	17	103.5	68.3	108	98	72	105	126	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	103.6	52.9	86	84	72	105	126	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	14.4	105.5	35	60	66	79	116	137	Dobbs et al. 1996
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	106.5	91.6	141	117	73	106	128	Rickwood and Jatar 2013
Selenastrum capricornutum (green alga)	Lab	--	3.3	107	156	227	160	162	269	261	Williams et al. 1994
Selenastrum capricornutum (green alga)	Lab	--	33	107	11	21	33	53	73	96	Williams et al. 1994
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	107.1	96.3	147	120	73	106	128	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	17	108.2	78.5	123	107	74	107	129	Rickwood and Jatar 2013
Pseudokirchneriella subcapitata (green alga)	Lab	--	17	123.0	314.3	424	243	78	112	136	Rickwood and Jatar 2013
Chlorella vulgaris (green alga)	Lab	--	14.4	204.9	75	118	104	104	152	182	Dobbs et al. 1996
Chlorella vulgaris (green alga)	Lab	--	14.4	397.6	155	226	160	137	200	243	Dobbs et al. 1996
Chlamydomonas reinhardtii (green alga)	Lab	--	60	934	367	487	267	98	126	189	Besser et al. 1993
Anabaena flos-aquae (cyanobacterium)	Lab	--	2.7	995	30.4	53	61	452	751	744	Kiffney and Knight 1990
Chlorella pyrenoidosa (green alga)	Lab	--	3.8	2500	3100	3274	949	559	896	949	Bennett et al. 1986
Chlorella pyrenoidosa (green alga)	Lab	--	3.8	2500	2600	2798	855	559	896	949	Bennett et al. 1986
Anabaena flos-aquae (cyanobacterium)	Lab	--	2.7	2990	744	915	406	715	1178	1194	Kiffney and Knight 1990
Anabaena flos-aquae (cyanobacterium)	Lab	--	2.7	4930	1218	1421	544	880	1445	1481	Kiffney and Knight 1990
Anabaena flos-aquae (cyanobacterium)	Lab	--	2.7	9720	1313	1520	569	1168	1908	1984	Kiffney and Knight 1990
Periphyton	Field	Crow Creek, ID (CC-350)	18.4	1.1	3.3	7.2	16.2	10	16	17.3	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-75)	24.7	1.2	2.7	6.1	14.4	9	14	15.8	Formation Environmental and

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Table S6. Co-located water Se, water SO_4, and particulate Se data used to derive SO_4-dependent water Se screening guideline.

Species	Lab or Field	Field Location	SO_4 (mg/L)	Water Se (µg/L)	Particulate Se (µg/g dw)	Predicted Invert Se[1]	Predicted Fish Egg Se[1]	50th Quantile Fish Se[2]	75th Quantile Fish Se[2]	90th Quantile Fish Se[2]	Reference
											HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-1A)	22.434	1.2	3.4	7.4	16.5	10	14	16.5	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-350)	17.5	1.3	0.6	1.6	5.8	11	17	19.0	Formation Environmental and HabiTech 2012
Periphyton	Field	Deer Creek, ID (DC-600)	7.47	1.3	1.2	2.9	8.9	17	28	27.4	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-150)	17.8	1.4	2.4	5.5	13.4	12	18	19.4	Formation Environmental and HabiTech 2012
Periphyton	Field	Deer Creek, ID (DC-600)	9.03	1.4	8.7	17.2	28.8	16	26	26.1	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-3A)	29.937	1.4	1.9	4.4	11.6	9	13	15.5	Formation Environmental and HabiTech 2012
Periphyton	Field	Deer Creek, ID (DC-600)	8.986	1.5	7.4	15.0	26.3	17	27	26.9	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-150)	13.8	1.6	0.7	1.7	6.2	14	21	23.0	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-3A)	35.8	1.8	3.8	8.2	17.6	9	13	16.0	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-1A)	35	2.2	3.2	7.1	15.9	10	14	17.6	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-3A)	32.1	2.6	14.9	27.9	39.7	11	16	19.7	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-1A)	24.7	2.7	3.6	7.9	17.2	13	19	22.4	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-1A)	31.4	2.9	7.1	14.4	25.5	12	17	20.8	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-3A)	17.5	2.9	3.1	6.9	15.6	16	24	26.8	Formation Environmental and HabiTech 2012
Periphyton	Field	Deer Creek, ID (DC-600)	8.25	3.4	1.7	3.9	10.7	25	39	39.7	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-3A)	34.7	5.8	1.7	3.9	10.8	15	21	26.8	Formation Environmental and HabiTech 2012
Periphyton	Field	Crow Creek, ID (CC-1A)	33.7	6.7	5.9	12.1	22.8	17	23	28.9	Formation Environmental and HabiTech 2012
Periphyton	Field	Sage Creek, ID (LSV-4)	29	6.8	7.4	14.9	26.2	18	25	31.1	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS-3)	39.1	9.2	6.5	13.3	24.2	18	24	31.1	Formation Environmental and HabiTech 2012
Periphyton	Field	Sage Creek, ID (LSV-2C)	38	9.3	2.6	5.9	14.1	18	25	31.6	Formation Environmental and HabiTech 2012
Periphyton	Field	Sage Creek, ID (LSV-4)	31.159	10.1	11.7	22.4	34.4	20	29	35.7	Formation Environmental and HabiTech 2012
Periphyton	Field	Sage Creek, ID (LSV-2C)	41.045	13.5	8.1	16.1	27.6	20	28	35.9	Formation Environmental and HabiTech 2012
Periphyton	Field	Sage Creek, ID (LSV-2C)	38.7	14.1	11.6	22.3	34.2	21	29	37.5	Formation Environmental and HabiTech 2012
Periphyton	Field	Sage Creek, ID (LSV-2C)	40.3	14.3	18.5	33.8	45.1	21	29	37.1	Formation Environmental and HabiTech 2012

Table S6. Co-located water Se, water SO_4, and particulate Se data used to derive SO_4-dependent water Se screening guideline.

Species	Lab or Field	Field Location	SO_4 (mg/L)	Water Se (µg/L)	Particulate Se (µg/g dw)	Predicted Invert Se[1]	Predicted Fish Egg Se[1]	50th Quantile Fish Se[2]	75th Quantile Fish Se[2]	90th Quantile Fish Se[2]	Reference
Periphyton	Field	Hoopes Spring, ID (HS-3)	42	16.1	6.2	12.7	23.6	21	29	38.4	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS)	47.2	17.4	2.2	5.0	12.7	21	28	37.7	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS-3)	44.284	18	12.0	23.0	34.9	22	30	39.3	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS)	48.741	20.5	12.0	23.0	34.9	22	30	39.9	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS)	46.5	21.4	3.9	8.4	17.9	23	31	41.5	Formation Environmental and HabiTech 2012
Periphyton	Field	Sage Creek, ID (LSV-2C)	36	23.4	4.4	9.3	19.2	27	37	48.2	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS-3)	43.2	26	28.5	49.7	58.4	26	35	46.6	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS)	49.8	27.3	15.0	28.0	39.9	25	33	44.7	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS-3)	46.2	37.5	24.2	42.9	53.0	29	39	53.0	Formation Environmental and HabiTech 2012
Periphyton	Field	Hoopes Spring, ID (HS)	48.1	53.6	35.2	60.0	66.2	33	44	60.7	Formation Environmental and HabiTech 2012

[1] Invertebrate and fish egg Se concentrations predicted from particulate Se concentrations using the 75th quantile regressions shown in Figures 2 and 1a in the main body of the paper.
[2] 50th, 75th, and 90th quantiles of fish egg Se concentrations with SO_4, water Se, and predicted fish egg Se as the independent variables.

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Table S7. Co-located fish Se and waterborne Se concentrations used to validate the lotic water Se screening guideline of 6.5 µg/L. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
NW BC (Smithers)	DV	Airstrip Creek		2007		1.9	2.2	2.2	0.5	0.08	0.11	0.08	0.15
NW BC (Smithers)	DV	Airstrip Creek		2007		1.7	2.0	2.0	0.5	0.08	0.10		
NW BC (Smithers)	DV	Airstrip Creek		2007	1.5		1.8	1.8	0.5	0.08	0.09		
NW BC (Smithers)	DV	Airstrip Creek		2007		1.2		3.0	0.5	0.08	0.15		
NW BC (Smithers)	DV	Airstrip Creek		2007		1.8		4.1	0.5	0.08	0.20		
NW BC (Smithers)	DV	Airstrip Creek		2007		2.3		4.9	0.5	0.08	0.24		
NW BC (Smithers)	RBT	Airstrip Creek		2007		8.6		33.1	0.5	0.08	1.65	0.08	1.65
Elk Valley	WCT	Alexander Creek	Alexander Creek	2003		5.4		8.2	0.9	0.14	0.41	0.14	0.36
Elk Valley	WCT	Alexander Creek	Alexander Creek	2003		5.1		7.7	0.9	0.14	0.38		
Elk Valley	WCT	Alexander Creek	Alexander Creek	2003		4.1		6.0	0.9	0.14	0.30		
Elk Valley	WCT	Alexander Creek	Alexander Creek	2006		3.7	5.9	5.9	0.8	0.12	0.30	0.12	0.27
Elk Valley	WCT	Alexander Creek	Alexander Creek	2006		3.8	5.8	5.8	0.8	0.12	0.29		
Elk Valley	WCT	Alexander Creek	Alexander Creek	2006		3.8	5.3	5.3	0.8	0.12	0.27		
Elk Valley	WCT	Alexander Creek	Alexander Creek	2006		3.3	5.0	5.0	0.8	0.12	0.25		
Elk Valley	WCT	Alexander Creek	Alexander Creek	2006		3.1	4.7	4.7	0.8	0.12	0.23		
SE Idaho	YCT	Angus Creek	Near mouth	2000	6.7			12.0	0.6	0.09	0.60	0.51	0.59
SE Idaho	YCT	Angus Creek	near mouth	2000	6.3			11.5	6.0	0.92	0.58		
West Virginia	CKCB	Ash Fork		2009			6.5	6.5	1.0	0.15	0.33	0.15	0.33
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2007	4.3			15.0	0.7	0.11	0.75	0.11	0.53
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2007	3.1			10.8	0.7	0.11	0.54		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2007	2.7			9.3	0.7	0.11	0.46		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2007	2.6			9.1	0.7	0.11	0.46		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2007	2.5			8.6	0.7	0.11	0.43		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2008	5.5			19.2	0.9	0.14	0.96	0.14	0.78
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2008	4.9			17.1	0.9	0.14	0.86		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2008		4.4		15.4	0.9	0.14	0.77		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2008		4.3		15.1	0.9	0.14	0.75		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence (E	2008	3.2			11.3	0.9	0.14	0.57		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence (E	2007	5.7			9.6	0.7	0.11	0.48	0.11	0.39
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence (E	2007	5.4			9.2	0.7	0.11	0.46		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence (E	2007	4.1			7.5	0.7	0.11	0.38		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence (E	2007	3.8			7.0	0.7	0.11	0.35		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence (E	2007	3.0			6.0	0.7	0.11	0.30		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence (E	2008		6.2		10.2	0.9	0.14	0.51	0.14	0.51
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence (E	2007	3.9			14.6	0.7	0.11	0.73	0.11	0.61
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence (E	2007	3.4			12.5	0.7	0.11	0.62		
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence (E	2007	3.1			11.3	0.7	0.11	0.57		
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence (E	2007	3.1			11.3	0.7	0.11	0.56		
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence (E	2007	3.0			10.8	0.7	0.11	0.54		
Peace River	BT	Babcock Creek	at Gordon Ck confluence	2004	5.3			18.4	0.6	0.09	0.92	0.09	0.73
Peace River	BT	Babcock Creek	at Gordon Ck confluence	2004	3.8			13.1	0.6	0.09	0.66		

Table S7. Co-located fish Se and waterborne Se concentrations used to validate the lotic water Se screening guideline of 6.5 µg/L. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
Peace River	BT	Babcock Creek	at Gordon Ck confluence	2004	3.6			12.5	0.6	0.09	0.62		
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		8.1		31.0	0.6	0.09	1.55	0.09	1.36
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		4.9		18.5	0.6	0.09	0.93		
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		8.0		30.8	0.6	0.09	1.54		
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		9.7		37.6	0.6	0.09	1.88		
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		4.7		17.5	0.6	0.09	0.88		
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		7.7		29.3	0.6	0.09	1.47		
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		5.9		22.3	0.6	0.09	1.12		
Peace River	RBT	Blind Creek	d/s - Bluff Road bridge	2008		8.0		30.6	0.6	0.09	1.53		
Peace River	RBT	Blind Creek	Downstream	2004		3.5		12.8	0.6	0.09	0.64	0.09	0.62
Peace River	RBT	Blind Creek	Downstream	2004		3.6		13.5	0.6	0.09	0.67		
Peace River	RBT	Blind Creek	Downstream	2004		3.0		10.8	0.6	0.09	0.54		
Peace River	RBT	Blind Creek	Downstream	2004		2.8		10.1	0.6	0.09	0.50		
Peace River	RBT	Blind Creek	Downstream	2004		4.0		15.0	0.6	0.09	0.75		
Indiana	BG	Campaign Creek	tributary to Ohio River	1994	2.8			6.9	5.0	0.77	0.34	0.77	0.34
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		3.9	13.7	13.7	1.0	0.15	0.69	0.15	0.31
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		5.2	7.0	7.0	1.0	0.15	0.35		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		5.4	5.6	5.6	1.0	0.15	0.28		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		7.2		7.3	1.0	0.15	0.36		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		5.9		6.3	1.0	0.15	0.31		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		5.8		6.1	1.0	0.15	0.31		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		5.6		6.0	1.0	0.15	0.30		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		5.1		5.6	1.0	0.15	0.28		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		4.5		5.0	1.0	0.15	0.25		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		4.3		4.9	1.0	0.15	0.24		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		4.3		4.9	1.0	0.15	0.24		
West-Central Alberta	BKT	Cheviot Creek	Cheviot Creek	2000		2.4		3.1	1.0	0.15	0.15		
West Virginia	BG	Conner Run		2007	25.3			78.2	47.8	7.35	3.91	7.35	3.91
West Virginia	BG	Conner Run	1.5 km u/s confluence wi	2007	41.4			134.7	137.0	21.08	6.73	18.19	3.04
West Virginia	BG	Conner Run	1.5 km u/s confluence wi	2007	5.6			14.6	160.0	24.62	0.73		
West Virginia	BG	Conner Run	1.5 km u/s confluence wi	2008	11.6			33.0	57.8	8.89	1.65		
SE Idaho	BKT	Crow Creek	Crow Creek @ bridge on Meade Peak Ranch	2010	6.3			6.6	8.5	1.30	0.33	1.30	0.33
SE Idaho	BNTR	Crow Creek	Crow Creek @ bridge on Meade Peak Ranch	2010	14.3			23.5	8.5	1.30	1.17	1.30	1.17
SE Idaho	YCT	Crow Creek	Crow Creek @ bridge on Meade Peak Ranch	2010	10.0			15.9	8.5	1.30	0.80	1.30	0.80
SE Idaho	BNTR	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2010	8.1			11.8	0.8	0.13	0.59	0.13	0.59
SE Idaho	BNTR	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2011	8.1			11.9	1.0	0.15	0.59	0.15	0.59
SE Idaho	YCT	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2010	7.2			12.7	0.8	0.13	0.63	0.13	0.63
SE Idaho	YCT	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2011	8.4			14.1	1.0	0.15	0.71	0.15	0.71
SE Idaho	BNTR	Crow Creek	Crow Creek at south end (upstream end) of Nate's Property	2010	6.1			8.5	0.8	0.12	0.42	0.12	0.42
SE Idaho	YCT	Crow Creek	Crow Creek at south end (upstream end) of Nate's Property	2010	7.2			12.7	0.8	0.12	0.63	0.12	0.63

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	Crow Creek U/S of Stewarts Property	2009	6.1			8.5	0.4	0.06	0.43	0.06	0.43
SE Idaho	BNTR	Crow Creek	Crow Creek U/S of Stewarts Property	2010	5.9			8.2	0.5	0.08	0.41	0.08	0.41
SE Idaho	YCT	Crow Creek	Crow Creek U/S of Stewarts Property	2009	5.8			10.8	0.4	0.06	0.54	0.06	0.54
SE Idaho	YCT	Crow Creek	Crow Creek U/S of Stewarts Property	2010	5.3			10.3	0.5	0.08	0.51	0.08	0.51
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	14.3			23.6	3.0	0.46	1.18	0.45	0.81
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	11.9			18.8	2.9	0.45	0.94		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	10.0			15.3	3.0	0.46	0.76		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	9.3			14.0	2.9	0.45	0.70		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	9.1			13.8	3.0	0.46	0.69		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	8.2			12.0	2.9	0.45	0.60		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	15.6			26.1	1.1	0.17	1.30	0.24	0.75
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	14.8			24.5	1.4	0.22	1.22		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	14.0			22.9	1.1	0.17	1.14		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	13.8			22.5	1.1	0.17	1.13		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	13.7			22.3	1.1	0.17	1.12		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	13.4			21.7	1.1	0.17	1.09		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	12.7			20.4	1.3	0.20	1.02		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	12.5			20.0	1.4	0.22	1.00		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	11.9			18.9	1.4	0.22	0.94		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	11.6			18.3	1.4	0.22	0.91		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	11.0			17.2	1.1	0.17	0.86		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.7			16.6	1.6	0.25	0.83		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.6			16.4	1.1	0.17	0.82		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.4			16.1	1.4	0.22	0.80		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.3			15.9	1.1	0.17	0.79		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.5			14.4	1.4	0.22	0.72		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.1			13.7	1.1	0.17	0.68		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.1			13.7	1.1	0.17	0.68		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.1			13.7	1.4	0.22	0.68		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.9			13.3	1.1	0.17	0.67		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.9			13.3	1.1	0.17	0.67		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.7			13.0	1.4	0.22	0.65		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.6			12.8	1.3	0.20	0.64		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.4			12.5	1.4	0.22	0.62		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.0			11.7	1.3	0.20	0.59		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.0			11.7	3.6	0.55	0.59		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.8			11.4	1.1	0.17	0.57		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.8			11.4	1.4	0.22	0.57		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.5			10.9	1.3	0.20	0.54		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.4			10.7	1.6	0.25	0.54		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.1			10.2	1.4	0.22	0.51		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.4			9.0	1.4	0.22	0.45		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.4			9.0	3.6	0.55	0.45		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.3			8.8	1.4	0.22	0.44		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.3			8.8	3.6	0.55	0.44		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	5.3			7.2	3.6	0.55	0.36		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	23.2			41.8	5.8	0.89	2.09	0.81	1.41
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	23.0			41.4	6.5	1.00	2.07		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	21.3			37.8	5.8	0.89	1.89		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	20.2			35.5	5.8	0.89	1.77		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	19.8			34.6	5.8	0.89	1.73		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	19.2			33.4	5.8	0.89	1.67		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	19.1			33.2	5.8	0.89	1.66		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	18.3			31.5	3.2	0.49	1.58		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	18.2			31.3	3.2	0.49	1.57		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	17.6			30.1	3.2	0.49	1.50		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	17.2			29.3	3.2	0.49	1.46		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	16.4			27.7	3.2	0.49	1.38		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	16.3			27.5	5.8	0.89	1.37		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.9			26.6	6.5	1.00	1.33		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.8			26.4	3.6	0.55	1.32		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.6			26.1	3.6	0.55	1.30		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.4			25.7	6.5	1.00	1.28		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.1			25.1	3.6	0.55	1.25		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.0			24.9	3.6	0.55	1.24		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	14.4			23.7	6.5	1.00	1.18		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	13.8			22.5	6.5	1.00	1.13		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	13.5			21.9	6.5	1.00	1.10		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	13.2			21.3	6.5	1.00	1.07		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	11.8			18.7	6.5	1.00	0.93		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	11.3			17.7	6.5	1.00	0.89		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	8.0			11.8	6.5	1.00	0.59		
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2006	12.7			18.9	2.9	0.45	0.94	0.45	0.82
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2006	8.3			14.0	3.0	0.46	0.70		
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2007	9.9			15.8	1.6	0.25	0.79	0.25	0.79
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2008	13.4			19.6	3.2	0.49	0.98	0.49	0.98
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	7.7			11.2	0.6	0.09	0.56	0.09	0.37
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	7.4			10.7	0.8	0.12	0.54		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	5.9			8.2	0.6	0.09	0.41		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	5.0			6.6	0.6	0.09	0.33		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	4.8			6.3	0.6	0.09	0.32		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	4.6			6.0	0.5	0.08	0.30		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	4.1			5.3	0.5	0.08	0.27		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	3.5			4.4	0.5	0.08	0.22		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	10.0			15.3	0.8	0.12	0.77	0.07	0.37
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	9.2			13.9	0.2	0.03	0.69		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.5			12.6	0.2	0.03	0.63		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.4			12.5	0.6	0.09	0.62		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.0			11.7	0.8	0.12	0.59		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.0			11.7	0.8	0.12	0.59		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	7.2			10.4	0.6	0.09	0.52		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	7.0			10.0	0.6	0.09	0.50		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.7			9.5	0.6	0.09	0.48		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.1			8.5	0.6	0.09	0.43		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.0			8.3	0.2	0.03	0.42		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.0			8.3	0.6	0.09	0.42		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.9			8.2	0.6	0.09	0.41		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.7			7.8	0.2	0.03	0.39		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.6			7.7	0.6	0.09	0.38		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.6			7.7	0.6	0.09	0.38		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.5			7.5	0.2	0.03	0.38		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.4			7.4	0.6	0.09	0.37		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.8			6.4	0.5	0.08	0.32		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.7			6.2	0.6	0.09	0.31		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.6			6.1	0.2	0.03	0.30		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.3			5.6	0.6	0.09	0.28		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.1			5.3	0.3	0.05	0.26		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.6			4.5	0.3	0.05	0.23		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.6			4.5	0.3	0.05	0.23		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.5			4.4	0.3	0.05	0.22		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.2			3.9	0.3	0.05	0.20		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.1			3.8	0.3	0.05	0.19		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.9			3.5	0.3	0.05	0.18		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.9			3.5	0.3	0.05	0.18		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.8			3.4	0.3	0.05	0.17		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.7			3.2	0.3	0.05	0.16		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.6			3.1	0.3	0.05	0.15		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	13.2			21.3	1.2	0.18	1.07	0.24	0.61
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	13.0			21.0	1.2	0.18	1.05		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	11.8			18.7	1.8	0.28	0.93		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	10.6			16.4	1.2	0.18	0.82		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	10.4			16.1	1.2	0.18	0.80		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	10.2			15.7	1.2	0.18	0.78		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.9			15.2	1.2	0.18	0.76		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.9			15.2	2.3	0.35	0.76		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.4			14.2	1.5	0.23	0.71		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.1			13.6	1.8	0.28	0.68		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.7			13.0	1.2	0.18	0.65		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.6			12.8	1.8	0.28	0.64		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.4			12.5	2.3	0.35	0.62		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.2			12.1	2.3	0.35	0.60		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.2			12.0	1.2	0.18	0.60		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	7.9			11.5	1.5	0.23	0.57		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	7.0			9.9	1.5	0.23	0.50		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.7			9.5	1.5	0.23	0.48		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.6			9.4	1.2	0.18	0.47		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.6			9.4	1.5	0.23	0.47		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.2			8.7	1.5	0.23	0.44		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.1			8.6	2.3	0.35	0.43		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	5.3			7.1	1.2	0.18	0.36		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	5.1			6.9	2.3	0.35	0.35		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	5.0			6.8	1.2	0.18	0.34		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	4.7			6.2	1.5	0.23	0.31		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	4.3			5.6	1.5	0.23	0.28		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	6.8			12.2	0.8	0.12	0.61	0.10	0.52
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	6.3			11.5	0.5	0.08	0.57		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	4.6			9.3	0.8	0.12	0.46		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	4.0			8.4	0.5	0.08	0.42		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	9.7			15.6	0.8	0.12	0.78	0.10	0.66
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	8.5			14.2	0.8	0.12	0.71		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	7.4			12.9	0.8	0.12	0.65		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	6.8			12.2	0.2	0.03	0.61		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	5.9			11.0	0.5	0.08	0.55		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	13.5			19.7	2.3	0.35	0.98	0.26	0.70
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	12.2			18.3	1.8	0.28	0.92		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	12.1			18.2	1.0	0.15	0.91		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	10.9			16.9	1.0	0.15	0.85		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	10.7			16.7	2.3	0.35	0.84		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	9.1			14.9	1.8	0.28	0.74		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	8.9			14.6	1.2	0.18	0.73		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	8.5			14.2	1.2	0.18	0.71		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	8.3			14.0	2.3	0.35	0.70		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	7.6			13.2	1.2	0.18	0.66		

Table S7. Co-located fish Se and waterborne Se concentrations used to validate the lotic water Se screening guideline of 6.5 µg/L. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	7.6			13.1	1.5	0.23	0.66		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	5.7			10.8	1.5	0.23	0.54		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	5.6			10.6	2.3	0.35	0.53		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	5.0			9.8	1.2	0.18	0.49		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	2.5			6.1	2.3	0.35	0.30		
Saskatchewan	NP	Davies Creek	Davies Creek		1.5	1.4	3.7	3.7	0.5	0.08	0.19	0.08	0.15
Saskatchewan	NP	Davies Creek	Davies Creek		2.7	2.6	3.2	3.2	0.5	0.08	0.16		
Saskatchewan	NP	Davies Creek	Davies Creek		1.0	0.9	3.0	3.0	0.5	0.08	0.15		
Saskatchewan	NP	Davies Creek	Davies Creek		2.0	1.9	2.7	2.7	0.5	0.08	0.14		
Saskatchewan	NP	Davies Creek	Davies Creek		1.2	1.0	2.7	2.7	0.5	0.08	0.13		
West Virginia	CSR	Davis Creek		2009			1.6	1.6	1.0	0.15	0.08	0.15	0.08
West Virginia	WS	Davis Creek		2009			5.1	5.1	1.0	0.15	0.26	0.15	0.26
West Virginia	WS	Davis Creek		2009			3.9	3.9	1.0	0.15	0.20	0.15	0.20
SE Idaho	YCT	Deer Creek	Deer Creek ~1.2mi downstream of north fork confluence	2009	9.5			15.4	0.8	0.13	0.77	0.13	0.77
SE Idaho	YCT	Deer Creek	Deer Creek ~1.2mi downstream of north fork confluence	2010	11.0			17.0	1.7	0.26	0.85	0.26	0.85
SE Idaho	YCT	Deer Creek	Deer Creek ~1.2mi downstream of north fork confluence	2011	11.2			17.3	1.8	0.28	0.86	0.28	0.86
SE Idaho	YCT	Deer Creek	Deer Creek 0.50 mile downstream of divide	2009	7.2			12.6	1.4	0.22	0.63	0.22	0.63
SE Idaho	YCT	Deer Creek	Deer Creek 0.50 mile downstream of divide	2010	6.8			12.1	1.9	0.29	0.61	0.29	0.61
SE Idaho	YCT	Deer Creek	Deer Creek 0.50 mile downstream of divide	2011	7.7			13.3	1.7	0.26	0.66	0.26	0.66
SE Idaho	YCT	Deer Creek	Deer Creek just off Diamond Creek Road	2009	8.2			13.9	0.3	0.05	0.69	0.05	0.69
SE Idaho	YCT	Deer Creek	Deer Creek just off Diamond Creek Road	2010	7.7			13.3	0.8	0.12	0.66	0.12	0.66
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	9.4			15.3	1.4	0.22	0.77	0.22	0.71
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	8.4			14.1	1.4	0.22	0.70		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	8.3			14.0	1.4	0.22	0.70		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	8.1			13.7	1.4	0.22	0.68		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	8.7			14.5	1.8	0.28	0.72	0.28	0.55
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	7.5			13.0	1.9	0.29	0.65		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	7.2			12.7	1.8	0.28	0.63		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.9			12.3	1.8	0.28	0.61		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.9			12.3	1.9	0.29	0.61		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.5			11.8	1.8	0.28	0.59		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.1			11.3	1.9	0.29	0.56		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	5.9			11.0	1.8	0.28	0.55		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	5.3			10.2	1.8	0.28	0.51		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.8			9.5	1.8	0.28	0.48		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.8			9.5	1.9	0.29	0.48		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.3			8.8	1.8	0.28	0.44		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.3			8.8	1.9	0.29	0.44		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.1			8.5	1.8	0.28	0.43		

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SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	18.7			24.7	3.1	0.48	1.24	0.38	0.87
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.9			21.1	3.1	0.48	1.05		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.4			20.6	1.5	0.23	1.03		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.3			20.5	1.5	0.23	1.02		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.1			20.3	1.5	0.23	1.01		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	13.1			19.3	1.5	0.23	0.96		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	12.1			18.2	3.1	0.48	0.91		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	11.8			17.9	1.5	0.23	0.90		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.8			15.7	3.1	0.48	0.79		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.8			15.7	3.1	0.48	0.78		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.6			15.5	3.1	0.48	0.78		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.3			15.1	1.5	0.23	0.76		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	8.7			14.4	3.1	0.48	0.72		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	8.4			14.1	3.1	0.48	0.71		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	7.1			12.5	3.1	0.48	0.63		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	6.4			11.6	3.1	0.48	0.58		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.1		3.9	0.3	0.05	0.20	0.05	0.37
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.6		5.6	0.3	0.05	0.28		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.1		3.9	0.3	0.05	0.19		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.4		4.8	0.3	0.05	0.24		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.5		5.4	0.3	0.05	0.27		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		2.0		7.2	0.3	0.05	0.36		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		4.6		17.0	0.3	0.05	0.85		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.3		4.7	0.3	0.05	0.23		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.7		6.2	0.3	0.05	0.31		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.9		6.8	0.3	0.05	0.34		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.3		4.7	0.3	0.05	0.23		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		3.3		12.1	0.3	0.05	0.60		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		2.0		7.1	0.3	0.05	0.36		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		4.1		15.1	0.3	0.05	0.75		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		2.9		10.6	0.3	0.05	0.53		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.6		5.6	0.3	0.05	0.28		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2000		1.5		5.1	0.3	0.05	0.26		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		9.4		36.1	0.2	0.03	1.81	0.03	0.70
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		1.5		5.3	0.2	0.03	0.27		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		1.5		5.3	0.2	0.03	0.27		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		2.0		7.2	0.2	0.03	0.36		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		2.5		9.1	0.2	0.03	0.45		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		2.5		9.1	0.2	0.03	0.45		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		2.0		7.2	0.2	0.03	0.36		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		2.5		9.1	0.2	0.03	0.45		

Table S7. Co-located fish Se and waterborne Se concentrations used to validate the lotic water Se screening guideline of 6.5 µg/L. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		10.0		38.7	0.2	0.03	1.94		
West-Central Alberta	RBT	Deerlick Creek	Deerlick Creek	2001		3.5		12.9	0.2	0.03	0.65		
SE Idaho	BKT	Dry Valley Creek		2000	8.0			8.0	8.0	1.23	0.40	1.23	0.40
SE Idaho	YCT	Dry Valley Creek		2000	16.6			22.7	0.5	0.08	1.14	0.65	0.97
SE Idaho	YCT	Dry Valley Creek		2000	10.2			16.2	8.0	1.23	0.81		
SE Idaho	YCT	East Mill Creek	Lower	2000	52.3			50.8	24.0	3.69	2.54	3.69	2.54
SE Idaho	BKT	East Mill Creek	Upper	2000	42.7			30.7	29.9	4.60	1.53	4.30	1.54
SE Idaho	YCT	East Mill Creek	Upper	2000	27.0			32.0	24.0	3.69	1.60		
SE Idaho	YCT	East Mill Creek	Upper	2000	24.3			29.7	29.9	4.60	1.49		
Elk Valley	BT	Elk River	Lower, d/s Michel, d/s m	2009		6.8	16.5	16.5	7.3	1.12	0.83	1.12	0.83
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	1996		4.2		6.2	2.8	0.43	0.31	0.43	0.36
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	1996		4.8		7.1	2.8	0.43	0.36		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	1996		5.2		7.8	2.8	0.43	0.39		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	1996		5.3		7.9	2.8	0.43	0.40		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	1996		4.8		7.2	2.8	0.43	0.36		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		8.3	18.3	18.3	3.3	0.51	0.92	0.51	0.70
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		8.4	16.2	16.2	3.3	0.51	0.81		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		6.6	14.9	14.9	3.3	0.51	0.75		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		7.0	14.3	14.3	3.3	0.51	0.72		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		8.4	14.3	14.3	3.3	0.51	0.72		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		7.8		12.3	3.3	0.51	0.61		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		8.5		13.5	3.3	0.51	0.67		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		8.3		13.1	3.3	0.51	0.66		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		6.9		10.7	3.3	0.51	0.54		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2001		8.1		12.8	3.3	0.51	0.64		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2006		5.8	13.5	13.5	7.1	1.09	0.68	1.09	0.52
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2006		5.2	10.9	10.9	7.1	1.09	0.55		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2006		5.5	10.2	10.2	7.1	1.09	0.51		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2006		4.1	9.5	9.5	7.1	1.09	0.48		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2006		4.3	8.2	8.2	7.1	1.09	0.41		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2009		6.5	13.7	13.7	7.3	1.12	0.68	1.12	0.55
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2009		7.0	11.3	11.3	7.3	1.12	0.57		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2009		6.6	11.0	11.0	7.3	1.12	0.55		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2009		4.4	10.7	10.7	7.3	1.12	0.54		
Elk Valley	WCT	Elk River	Lower, d/s Michel, d/s m	2009		5.5	8.5	8.5	7.3	1.12	0.42		
Elk Valley	WCT	Elk River	Upper (Site 1)	2006		5.5	9.4	9.4	0.8	0.12	0.47	0.12	0.47
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		3.0		4.3	0.1	0.02	0.22	0.02	0.29
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		3.7		5.4	0.1	0.02	0.27		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		4.0		5.9	0.1	0.02	0.30		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		3.6		5.3	0.1	0.02	0.27		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		4.5		6.7	0.1	0.02	0.34		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		4.6		6.9	0.1	0.02	0.35		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		3.8		5.6	0.1	0.02	0.28		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	1996		4.0		5.8	0.1	0.02	0.29		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		4.9	9.8	9.8	0.9	0.14	0.49	0.14	0.40
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		4.5	8.2	8.2	0.9	0.14	0.41		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		5.0		7.5	0.9	0.14	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		5.7		8.7	0.9	0.14	0.43		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		4.4		6.5	0.9	0.14	0.33		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		5.1		7.7	0.9	0.14	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		5.4		8.2	0.9	0.14	0.41		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		5.8		8.9	0.9	0.14	0.44		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		4.4		6.5	0.9	0.14	0.33		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2001		4.7		7.0	0.9	0.14	0.35		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0	10.0	10.0	0.6	0.09	0.50	0.09	0.40
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0	10.0	10.0	0.6	0.09	0.50		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0	8.0	8.0	0.6	0.09	0.40		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		4.0	7.0	7.0	0.6	0.09	0.35		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0		7.5	0.6	0.09	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0		7.5	0.6	0.09	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0		7.5	0.6	0.09	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0		7.5	0.6	0.09	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0		7.5	0.6	0.09	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2002		5.0		7.5	0.6	0.09	0.38		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2006		12.0	13.8	13.8	0.8	0.12	0.69	0.12	0.48
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2006		6.0	8.8	8.8	0.8	0.12	0.44		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2006		5.8	8.5	8.5	0.8	0.12	0.43		
Elk Valley	WCT	Elk River	Upper, u/s all mines (Si	2006		4.6	7.5	7.5	0.8	0.12	0.38		
Elk Valley	WCT	Fording River	at Multiplate	2008			17.0	17.0	15.6	2.40	0.85	2.40	0.60
Elk Valley	WCT	Fording River	at Multiplate	2008			12.6	12.6	15.6	2.40	0.63		
Elk Valley	WCT	Fording River	at Multiplate	2008			12.3	12.3	15.6	2.40	0.61		
Elk Valley	WCT	Fording River	at Multiplate	2008			10.7	10.7	15.6	2.40	0.53		
Elk Valley	WCT	Fording River	at Multiplate	2008			9.6	9.6	15.6	2.40	0.48		
Elk Valley	WCT	Fording River	at Multiplate	2008			9.3	9.3	15.6	2.40	0.47		
Elk Valley	WCT	Fording River	at Multiplate	2009		8.8	14.3	14.3	6.2	0.95	0.72	0.95	0.67
Elk Valley	WCT	Fording River	at Multiplate	2009		9.1	12.5	12.5	6.2	0.95	0.63		
Elk Valley	WCT	Fording River	d/s Greenhills Creek	2006		10.2	14.5	14.5	20.7	3.18	0.73	3.18	0.68
Elk Valley	WCT	Fording River	d/s Greenhills Creek	2006		7.6	13.8	13.8	20.7	3.18	0.69		
Elk Valley	WCT	Fording River	d/s Greenhills Creek	2006		3.2	12.5	12.5	20.7	3.18	0.63		
Elk Valley	BT	Fording River	d/s Line Creek	2009		4.0	19.0	19.0	25.9	3.98	0.95	3.98	0.72
Elk Valley	BT	Fording River	d/s Line Creek	2009		3.6	15.0	15.0	25.9	3.98	0.75		
Elk Valley	BT	Fording River	d/s Line Creek	2009		4.8	13.4	13.4	25.9	3.98	0.67		

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Elk Valley	BT	Fording River	d/s Line Creek	2009		4.1	12.7	12.7	25.9	3.98	0.63		
Elk Valley	BT	Fording River	d/s Line Creek	2009		4.4	12.5	12.5	25.9	3.98	0.62		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		19.5	26.5	26.5	25.9	3.98	1.33	3.97	0.79
Elk Valley	WCT	Fording River	d/s Line Creek	2009	7.9		17.0	17.0	25.6	3.94	0.85		
Elk Valley	WCT	Fording River	d/s Line Creek	2009	8.0		17.0	17.0	25.6	3.94	0.85		
Elk Valley	WCT	Fording River	d/s Line Creek	2009	7.6		15.0	15.0	25.6	3.94	0.75		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		7.1	14.9	14.9	25.9	3.98	0.75		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		8.2	14.5	14.5	25.9	3.98	0.72		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		7.6	11.5	11.5	25.9	3.98	0.57		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		5.8	10.5	10.5	25.9	3.98	0.52		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2001		9.8	20.2	20.2	14.1	2.17	1.01	2.17	0.93
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2001		10.4		16.8	14.1	2.17	0.84		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		10.0	23.0	23.0	22.3	3.43	1.15	3.43	0.68
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		9.0	16.0	16.0	22.3	3.43	0.80		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		10.0	14.0	14.0	22.3	3.43	0.70		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		8.0	13.0	13.0	22.3	3.43	0.65		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		7.0	12.0	12.0	22.3	3.43	0.60		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		7.0	6.0	6.0	22.3	3.43	0.30		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		13.0		21.5	22.3	3.43	1.08		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		6.0		9.2	22.3	3.43	0.46		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		8.0		12.6	22.3	3.43	0.63		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2002		6.0		9.2	22.3	3.43	0.46		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2003		9.2		14.7	16.8	2.58	0.74	2.58	0.65
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2003		6.9		10.7	16.8	2.58	0.54		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3)	2003		8.5		13.5	16.8	2.58	0.67		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		6.8		10.6	12.3	1.89	0.53	1.89	0.75
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		8.5		13.6	12.3	1.89	0.68		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		6.1		9.4	12.3	1.89	0.47		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		14.7		24.6	12.3	1.89	1.23		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		7.3		11.4	12.3	1.89	0.57		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		16.0		27.1	12.3	1.89	1.35		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		6.6		10.2	12.3	1.89	0.51		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		8.9		14.2	12.3	1.89	0.71		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		8.6		13.7	12.3	1.89	0.68		
Elk Valley	WCT	Fording River	u/s Dry Creek (Site 3/FR	1996		9.9		15.9	12.3	1.89	0.79		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		3.8	13.7	13.7	2.4	0.37	0.69	0.37	0.46
West-Central Alberta	BKT	Gregg River	Gregg River	2000		7.3	13.5	13.5	2.4	0.37	0.67		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		12.0	13.1	13.1	2.4	0.37	0.65		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		10.2	8.9	8.9	2.4	0.37	0.45		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		11.3		10.5	2.4	0.37	0.52		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		9.3		9.0	2.4	0.37	0.45		

Table S7. Co-located fish Se and waterborne Se concentrations used to validate the lotic water Se screening guideline of 6.5 µg/L. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West-Central Alberta	BKT	Gregg River	Gregg River	2000		8.1		8.0	2.4	0.37	0.40		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		7.6		7.6	2.4	0.37	0.38		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		7.0		7.2	2.4	0.37	0.36		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		6.8		7.0	2.4	0.37	0.35		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		6.4		6.6	2.4	0.37	0.33		
West-Central Alberta	BKT	Gregg River	Gregg River	2000		6.2		6.5	2.4	0.37	0.33		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		16.6		65.9	2.4	0.37	3.29	0.37	1.43
West-Central Alberta	RBT	Gregg River	Gregg River	2000		6.0		22.5	2.4	0.37	1.13		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		6.3		23.7	2.4	0.37	1.19		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		6.7		25.6	2.4	0.37	1.28		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		5.4		20.3	2.4	0.37	1.02		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		6.4		24.4	2.4	0.37	1.22		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		7.4		28.2	2.4	0.37	1.41		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		6.0		22.7	2.4	0.37	1.13		
West-Central Alberta	RBT	Gregg River	Gregg River	2000		6.4		24.5	2.4	0.37	1.22		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		5.3		19.9	2.5	0.38	1.00	0.38	1.21
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		7.1		27.1	2.5	0.38	1.35		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		6.3		23.7	2.5	0.38	1.18		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		9.4		36.1	2.5	0.38	1.81		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		5.5		20.5	2.5	0.38	1.03		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		5.7		21.3	2.5	0.38	1.07		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		6.2		23.3	2.5	0.38	1.16		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		5.0		18.7	2.5	0.38	0.94		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		7.6		28.9	2.5	0.38	1.44		
West-Central Alberta	RBT	Gregg River	u/s of Mcleod River	1999		5.9		22.3	2.5	0.38	1.12		
SE Idaho	BNTR	Hoopes Spring		2006	25.6			47.1	10.8	1.66	2.35	2.10	1.64
SE Idaho	BNTR	Hoopes Spring		2006	20.4			35.9	10.8	1.66	1.80		
SE Idaho	BNTR	Hoopes Spring		2006	20.0			35.0	17.4	2.68	1.75		
SE Idaho	BNTR	Hoopes Spring		2006	18.8			32.6	10.8	1.66	1.63		
SE Idaho	BNTR	Hoopes Spring		2006	17.5			29.9	10.8	1.66	1.50		
SE Idaho	BNTR	Hoopes Spring		2006	15.5			25.8	17.4	2.68	1.29		
SE Idaho	BNTR	Hoopes Spring		2006	14.1			23.0	17.4	2.68	1.15		
SE Idaho	BNTR	Hoopes Spring		2007	28.8			54.1	24.2	3.72	2.71	2.92	1.74
SE Idaho	BNTR	Hoopes Spring		2007	27.1			50.3	24.2	3.72	2.52		
SE Idaho	BNTR	Hoopes Spring		2007	25.0			45.7	30.1	4.63	2.29		
SE Idaho	BNTR	Hoopes Spring		2007	24.4			44.4	15.8	2.43	2.22		
SE Idaho	BNTR	Hoopes Spring		2007	24.1			43.8	15.8	2.43	2.19		
SE Idaho	BNTR	Hoopes Spring		2007	22.7			40.7	24.2	3.72	2.04		
SE Idaho	BNTR	Hoopes Spring		2007	22.0			39.3	19.8	3.05	1.96		
SE Idaho	BNTR	Hoopes Spring		2007	21.4			38.0	19.8	3.05	1.90		
SE Idaho	BNTR	Hoopes Spring		2007	21.0			37.1	24.2	3.72	1.86		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Hoopes Spring		2007	19.7			34.4	15.8	2.43	1.72		
SE Idaho	BNTR	Hoopes Spring		2007	19.3			33.6	15.8	2.43	1.68		
SE Idaho	BNTR	Hoopes Spring		2007	18.4			31.7	15.8	2.43	1.59		
SE Idaho	BNTR	Hoopes Spring		2007	18.3			31.5	15.8	2.43	1.58		
SE Idaho	BNTR	Hoopes Spring		2007	17.2			29.3	19.8	3.05	1.46		
SE Idaho	BNTR	Hoopes Spring		2007	16.3			27.5	15.8	2.43	1.37		
SE Idaho	BNTR	Hoopes Spring		2007	16.2			27.2	15.8	2.43	1.36		
SE Idaho	BNTR	Hoopes Spring		2007	14.7			24.3	19.8	3.05	1.21		
SE Idaho	BNTR	Hoopes Spring		2007	14.2			23.3	15.8	2.43	1.16		
SE Idaho	BNTR	Hoopes Spring		2007	13.7			22.3	15.8	2.43	1.12		
SE Idaho	BNTR	Hoopes Spring		2007	12.2			19.4	15.8	2.43	0.97		
SE Idaho	BNTR	Hoopes Spring		2008	38.9			77.5	29.6	4.55	3.87	5.75	2.77
SE Idaho	BNTR	Hoopes Spring		2008	38.5			76.5	40.2	6.18	3.83		
SE Idaho	BNTR	Hoopes Spring		2008	35.2			68.8	40.2	6.18	3.44		
SE Idaho	BNTR	Hoopes Spring		2008	32.2			61.8	40.2	6.18	3.09		
SE Idaho	BNTR	Hoopes Spring		2008	30.8			58.6	29.6	4.55	2.93		
SE Idaho	BNTR	Hoopes Spring		2008	28.2			52.8	29.6	4.55	2.64		
SE Idaho	BNTR	Hoopes Spring		2008	28.1			52.6	40.2	6.18	2.63		
SE Idaho	BNTR	Hoopes Spring		2008	28.0			52.3	40.2	6.18	2.62		
SE Idaho	BNTR	Hoopes Spring		2008	26.9			49.9	40.2	6.18	2.49		
SE Idaho	BNTR	Hoopes Spring		2008	26.3			48.6	22.3	3.43	2.43		
SE Idaho	BNTR	Hoopes Spring		2008	25.3			46.4	40.2	6.18	2.32		
SE Idaho	BNTR	Hoopes Spring		2008	24.9			45.5	40.2	6.18	2.27		
SE Idaho	BNTR	Hoopes Spring		2008	24.3			44.2	40.2	6.18	2.21		
SE Idaho	BNTR	Hoopes Spring		2008	22.8			41.0	50.2	7.72	2.05		
SE Idaho	YCT	Hoopes Spring		2008	31.3			35.5	22.3	3.43	1.77	3.89	1.45
SE Idaho	YCT	Hoopes Spring		2008	26.3			31.4	40.2	6.18	1.57		
SE Idaho	YCT	Hoopes Spring		2008	26.0			31.2	22.3	3.43	1.56		
SE Idaho	YCT	Hoopes Spring		2008	20.9			26.7	22.3	3.43	1.34		
SE Idaho	YCT	Hoopes Spring		2008	19.8			25.7	22.3	3.43	1.29		
SE Idaho	YCT	Hoopes Spring		2008	17.8			23.9	22.3	3.43	1.19		
SE Idaho	BNTR	Hoopes Spring	Hoopes Spring (discharge channel) near Sage Creek confluence	2011	27.3			50.8	51.9	7.98	2.54	7.98	2.54
SE Idaho	YCT	Hoopes Spring	Hoopes Spring (discharge channel) near Sage Creek confluence	2011	11.4			17.5	51.9	7.98	0.87	7.98	0.87
West Virginia	BG	Hughes Fork		2006	4.7			12.2	5.1	0.78	0.61	0.78	0.61
West Virginia	BG	Kanawha River	upstream St. Albans, WV.	2007	2.8			6.9	0.5	0.08	0.35	0.08	0.35
West Virginia	BG	Kiah Creek		2005	4.2			10.8	1.6	0.25	0.54	0.25	0.36
West Virginia	BG	Kiah Creek		2005	4.1			10.5	1.6	0.25	0.52		
West Virginia	BG	Kiah Creek		2005	4.0			10.2	1.6	0.25	0.51		
West Virginia	BG	Kiah Creek		2005	1.0			2.2	1.6	0.25	0.11		
West Virginia	BG	Kiah Creek		2005	1.0			2.2	1.6	0.25	0.11		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West Virginia	BG	Kiah Creek		2006	4.3			11.0	1.6	0.25	0.55	0.25	0.32
West Virginia	BG	Kiah Creek		2006	3.3			8.2	1.6	0.25	0.41		
West Virginia	BG	Kiah Creek		2006	2.5			6.1	1.6	0.25	0.30		
West Virginia	BG	Kiah Creek		2006	2.5			6.1	1.6	0.25	0.30		
West Virginia	BG	Kiah Creek		2006	1.7			4.0	1.6	0.25	0.20		
West Virginia	BG	Kiah Creek		2006	1.2			2.7	1.6	0.25	0.13		
West Virginia	BG	Kiah Creek		2007	3.2			8.0	1.6	0.25	0.40	0.25	0.35
West Virginia	BG	Kiah Creek		2007	3.1			7.7	1.6	0.25	0.38		
West Virginia	BG	Kiah Creek		2007	2.7			6.6	1.6	0.25	0.33		
West Virginia	BG	Kiah Creek		2007	2.7			6.6	1.6	0.25	0.33		
West Virginia	BG	Kiah Creek		2007	2.6			6.3	1.6	0.25	0.32		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2001		9.8	16.4	16.4	12.8	1.97	0.82	1.97	0.73
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2001		8.5	15.9	15.9	12.8	1.97	0.80		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2001		8.4	14.7	14.7	12.8	1.97	0.74		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2001		9.2		14.7	12.8	1.97	0.74		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2001		8.1		12.8	12.8	1.97	0.64		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2001		8.5		13.5	12.8	1.97	0.67		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		16.0	20.0	20.0	16.2	2.49	1.00	2.49	0.75
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		8.0	19.0	19.0	16.2	2.49	0.95		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		9.0	16.0	16.0	16.2	2.49	0.80		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		8.0	14.0	14.0	16.2	2.49	0.70		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		7.0	14.0	14.0	16.2	2.49	0.70		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		7.0	14.0	14.0	16.2	2.49	0.70		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		7.0	14.0	14.0	16.2	2.49	0.70		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		7.0	14.0	14.0	16.2	2.49	0.70		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		7.0	13.0	13.0	16.2	2.49	0.65		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2002		8.0		12.6	16.2	2.49	0.63		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2003		7.2		11.2	16.6	2.55	0.56	2.55	0.55
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2003		6.4		9.9	16.6	2.55	0.49		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2003		7.4		11.6	16.6	2.55	0.58		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2006		7.4	21.3	21.3	29.8	4.58	1.07	4.58	0.70
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2006		13.1	15.3	15.3	29.8	4.58	0.77		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2006		7.9	11.4	11.4	29.8	4.58	0.57		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2006		15.2	11.3	11.3	29.8	4.58	0.57		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2006		7.7	10.7	10.7	29.8	4.58	0.54		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2009		11.5		18.8	31.9	4.91	0.94	4.91	0.99
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2009		10.8		17.6	31.9	4.91	0.88		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2009		11.4		18.7	31.9	4.91	0.93		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2009		13.7		22.9	31.9	4.91	1.14		
Elk Valley	WCT	Line Creek	at fish fence (Site 7)	2009		13.0		21.5	31.9	4.91	1.08		
West Virginia	BG	Little Scary Creek	Tributary of Kanawha Riv	1996			23.4	23.4	32.0	4.92	1.17	4.92	1.17

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West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		39.1		28.5	5.9	0.91	1.43	0.91	0.75
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		38.9		28.4	5.9	0.91	1.42		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		26.3		20.7	5.9	0.91	1.04		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		22.9		18.6	5.9	0.91	0.93		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		22.0		18.0	5.9	0.91	0.90		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		18.5		15.6	5.9	0.91	0.78		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		17.9		15.2	5.9	0.91	0.76		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		15.2		13.4	5.9	0.91	0.67		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		14.3		12.7	5.9	0.91	0.63		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		13.8		12.4	5.9	0.91	0.62		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		13.0		11.8	5.9	0.91	0.59		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		12.8		11.6	5.9	0.91	0.58		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		12.5		11.4	5.9	0.91	0.57		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		11.7		10.8	5.9	0.91	0.54		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		11.1		10.4	5.9	0.91	0.52		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		10.9		10.2	5.9	0.91	0.51		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		10.3		9.8	5.9	0.91	0.49		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2000		9.8		9.3	5.9	0.91	0.47		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		37.3		27.5	4.8	0.74	1.38	0.74	0.76
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		29.8		22.9	4.8	0.74	1.15		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		19.6		16.3	4.8	0.74	0.82		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		17.0		14.6	4.8	0.74	0.73		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		15.2		13.3	4.8	0.74	0.67		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		14.9		13.2	4.8	0.74	0.66		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		11.3		10.5	4.8	0.74	0.53		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		10.4		9.8	4.8	0.74	0.49		
West-Central Alberta	BKT	Luscar Creek	Luscar Creek	2001		9.3		9.0	4.8	0.74	0.45		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		21.5		86.3	9.1	1.40	4.31	1.40	4.15
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		17.4		69.1	9.1	1.40	3.46		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		13.9		54.7	9.1	1.40	2.73		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		15.0		59.2	9.1	1.40	2.96		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		16.7		66.0	9.1	1.40	3.30		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		23.6		95.1	9.1	1.40	4.75		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		16.6		65.8	9.1	1.40	3.29		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		46.7		194.1	9.1	1.40	9.71		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		18.2		72.5	9.1	1.40	3.62		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	1999		17.0		67.5	9.1	1.40	3.37		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		5.6		21.1	5.9	0.91	1.05	0.91	2.14
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		15.4		60.8	5.9	0.91	3.04		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		9.5		36.5	5.9	0.91	1.83		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		4.8		18.0	5.9	0.91	0.90		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		10.6		41.2	5.9	0.91	2.06		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		8.3		31.8	5.9	0.91	1.59		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		2.7		9.7	5.9	0.91	0.48		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		10.2		39.4	5.9	0.91	1.97		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		10.5		40.9	5.9	0.91	2.04		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		14.7		57.9	5.9	0.91	2.90		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		32.6		133.2	5.9	0.91	6.66		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		9.1		35.1	5.9	0.91	1.75		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		11.8		46.1	5.9	0.91	2.30		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		8.5		32.6	5.9	0.91	1.63		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		14.5		57.2	5.9	0.91	2.86		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		9.5		36.9	5.9	0.91	1.84		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2000		7.6		29.0	5.9	0.91	1.45		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2001		14.1		55.3	4.8	0.74	2.77	0.74	2.22
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2001		8.7		33.6	4.8	0.74	1.68		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2001		11.1		43.0	4.8	0.74	2.15		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2001		11.0		43.0	4.8	0.74	2.15		
West-Central Alberta	RBT	Luscar Creek	Luscar Creek	2001		12.1		47.3	4.8	0.74	2.36		
West-Central Alberta	BKT	M. McLeod River	M. McLeod River	2001		9.3		9.0	0.5	0.08	0.45	0.08	0.32
West-Central Alberta	BKT	M. McLeod River	M. McLeod River	2001		7.8		7.8	0.5	0.08	0.39		
West-Central Alberta	BKT	M. McLeod River	M. McLeod River	2001		6.9		7.1	0.5	0.08	0.35		
West-Central Alberta	BKT	M. McLeod River	M. McLeod River	2001		6.0		6.3	0.5	0.08	0.32		
West-Central Alberta	BKT	M. McLeod River	M. McLeod River	2001		1.5		2.1	0.5	0.08	0.10		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	1999		5.9		22.3	0.8	0.12	1.12	0.12	1.33
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	1999		6.2		23.3	0.8	0.12	1.16		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	1999		8.1		31.1	0.8	0.12	1.55		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	1999		7.7		29.5	0.8	0.12	1.47		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		11.1		43.3	0.8	0.12	2.17	0.12	1.88
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		13.2		51.8	0.8	0.12	2.59		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		10.7		41.7	0.8	0.12	2.08		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		8.5		32.6	0.8	0.12	1.63		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		3.7		13.7	0.8	0.12	0.68		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		9.9		38.1	0.8	0.12	1.91		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		10.9		42.2	0.8	0.12	2.11		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		9.9		38.5	0.8	0.12	1.92		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		8.9		34.3	0.8	0.12	1.72		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2000		10.3		40.1	0.8	0.12	2.01		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2001		14.8		58.5	0.5	0.08	2.93	0.08	3.36
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2001		13.4		52.4	0.5	0.08	2.62		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2001		34.3		140.7	0.5	0.08	7.04		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2001		15.4		60.6	0.5	0.08	3.03		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2001		16.4		64.9	0.5	0.08	3.24		
West-Central Alberta	RBT	M. McLeod River	M. McLeod River	2001		7.0		26.5	0.5	0.08	1.32		
West-Central Alberta	RBT	MacKenzie Creek	MacKenzie Creek	2000		5.8		22.0	0.6	0.09	1.10	0.09	0.89
West-Central Alberta	RBT	MacKenzie Creek	MacKenzie Creek	2000		4.4		16.3	0.6	0.09	0.81		
West-Central Alberta	RBT	MacKenzie Creek	MacKenzie Creek	2000		5.7		21.5	0.6	0.09	1.07		
West-Central Alberta	RBT	MacKenzie Creek	MacKenzie Creek	2000		4.2		15.5	0.6	0.09	0.78		
West-Central Alberta	RBT	MacKenzie Creek	MacKenzie Creek	2000		4.4		16.5	0.6	0.09	0.82		
West-Central Alberta	RBT	MacKenzie Creek	MacKenzie Creek	2000		3.6		13.4	0.6	0.09	0.67		
West-Central Alberta	RBT	MacKenzie Creek	MacKenzie Creek	2000		5.3		20.0	0.6	0.09	1.00		
Elk Valley	WCT	Michel Creek	Lower	2006		3.9	12.0	12.0	9.0	1.38	0.60	1.38	0.46
Elk Valley	WCT	Michel Creek	Lower	2006		4.5	10.6	10.6	9.0	1.38	0.53		
Elk Valley	WCT	Michel Creek	Lower	2006		3.7	9.2	9.2	9.0	1.38	0.46		
Elk Valley	WCT	Michel Creek	Lower	2006		4.1	7.6	7.6	9.0	1.38	0.38		
Elk Valley	WCT	Michel Creek	Lower	2006		4.2	6.2	6.2	9.0	1.38	0.31		
Elk Valley	WCT	Michel Creek	Lower	2009		5.6	13.2	13.2	3.1	0.48	0.66	0.48	0.50
Elk Valley	WCT	Michel Creek	Lower	2009		7.7	13.0	13.0	3.1	0.48	0.65		
Elk Valley	WCT	Michel Creek	Lower	2009		5.8	11.6	11.6	3.1	0.48	0.58		
Elk Valley	WCT	Michel Creek	Lower	2009		6.0	7.1	7.1	3.1	0.48	0.36		
Elk Valley	WCT	Michel Creek	Lower	2009		6.4	5.5	5.5	3.1	0.48	0.27		
Elk Valley	WCT	Michel Creek	Michel Creek	2006		4.4	10.2	10.2	2.8	0.43	0.51	0.43	0.40
Elk Valley	WCT	Michel Creek	Michel Creek	2006		4.4	9.6	9.6	2.8	0.43	0.48		
Elk Valley	WCT	Michel Creek	Michel Creek	2006		5.2	9.0	9.0	2.8	0.43	0.45		
Elk Valley	WCT	Michel Creek	Michel Creek	2006		5.0	3.5	3.5	2.8	0.43	0.17		
Elk Valley	WCT	Michel Creek	Upper	2006		5.4	9.5	9.5	1.4	0.22	0.47	0.22	0.40
Elk Valley	WCT	Michel Creek	Upper	2006		6.0	9.0	9.0	1.4	0.22	0.45		
Elk Valley	WCT	Michel Creek	Upper	2006		5.0	7.5	7.5	1.4	0.22	0.38		
Elk Valley	WCT	Michel Creek	Upper	2006		4.9	7.2	7.2	1.4	0.22	0.36		
Elk Valley	WCT	Michel Creek	Upper	2006		4.8	6.4	6.4	1.4	0.22	0.32		
Elk Valley	WCT	Michel Creek	Upper	2009		6.5	6.9	6.9	0.5	0.08	0.35	0.08	0.62
Elk Valley	WCT	Michel Creek	Upper	2009		7.5		11.8	0.5	0.08	0.59		
Elk Valley	WCT	Michel Creek	Upper	2009		10.6		17.2	0.5	0.08	0.86		
Elk Valley	WCT	Michel Creek	Upper	2009		9.8		15.7	0.5	0.08	0.79		
Elk Valley	WCT	Michel Creek	Upper	2009		6.5		10.1	0.5	0.08	0.51		
West Virginia	BG	Mud River		2006	9.8			27.4	7.9	1.22	1.37	1.22	1.03
West Virginia	BG	Mud River		2006	7.8			21.3	7.9	1.22	1.07		
West Virginia	BG	Mud River		2006	4.9			12.8	7.9	1.22	0.64		
West Virginia	BG	Mud River		2007	17.3			51.4	7.9	1.22	2.57	1.22	2.35
West Virginia	BG	Mud River		2007	14.6			42.6	7.9	1.22	2.13		
West Virginia	CKCB	Mud River		2009			17.7	17.7	7.9	1.22	0.89	1.22	0.89
West Virginia	CSR	Mud River		2009			16.9	16.9	7.9	1.22	0.85	1.22	0.85
West Virginia	WS	Mud River		2009			14.7	14.7	7.9	1.22	0.74	1.22	0.74

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SE Idaho	YCT	North Fork Deer Creek	North Fork Deer Creek 0.25 mile upstream of Deer Creek confluence	2009	9.6			15.5	0.9	0.13	0.77	0.13	0.77
SE Idaho	YCT	North Fork Deer Creek	North Fork Deer Creek 0.25 mile upstream of Deer Creek confluence	2010	9.5			15.4	1.1	0.17	0.77	0.17	0.77
SE Idaho	YCT	North Fork Deer Creek	North Fork Deer Creek 0.25 mile upstream of Deer Creek confluence	2011	8.8			14.6	1.8	0.28	0.73	0.28	0.73
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		6.6	11.0	11.0	0.5	0.08	0.55	0.08	0.41
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		4.9	10.5	10.5	0.5	0.08	0.53		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		5.3	9.6	9.6	0.5	0.08	0.48		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		3.4	8.4	8.4	0.5	0.08	0.42		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		9.9	7.0	7.0	0.5	0.08	0.35		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		2.8	5.4	5.4	0.5	0.08	0.27		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		8.4		12.8	0.5	0.08	0.64		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		3.5		6.7	0.5	0.08	0.34		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		3.0		5.9	0.5	0.08	0.29		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence in N K	2008		2.5		5.2	0.5	0.08	0.26		
NW BC (Smithers)	DV	North Kemess Creek	Upper	2007		5.8		9.7	0.5	0.08	0.49	0.08	0.50
NW BC (Smithers)	DV	North Kemess Creek	Upper	2007		8.6		13.1	0.5	0.08	0.65		
NW BC (Smithers)	DV	North Kemess Creek	Upper	2007		5.3		9.1	0.5	0.08	0.45		
NW BC (Smithers)	DV	North Kemess Creek	Upper	2007		4.5		8.0	0.5	0.08	0.40		
Ohio	BG	Ohio River	RM 260 near Cheshire, Oh	1995			3.8	3.8	1.0	0.15	0.19	0.15	0.19
Indiana	BG	Ohio River	RM 495 near Lawrenceburg	2007	3.2			7.9	1.0	0.15	0.40	0.15	0.40
Indiana	LMB	Ohio River	RM 495 near Lawrenceburg	2007	2.6			7.8	1.0	0.15	0.39	0.15	0.39
Peace River	BT	Perry Creek	Perry Creek (lower reach	2004		3.9		13.7	1.1	0.17	0.68	0.17	0.65
Peace River	BT	Perry Creek	Perry Creek (lower reach	2004		3.9		13.7	1.1	0.17	0.68		
Peace River	BT	Perry Creek	Perry Creek (lower reach	2004		3.4		11.8	1.1	0.17	0.59		
NW BC (Smithers)	DV	Reference Creek		2007		11.4	20.3	20.3	0.5	0.08	1.02	0.08	0.84
NW BC (Smithers)	DV	Reference Creek		2007		11.2	18.0	18.0	0.5	0.08	0.90		
NW BC (Smithers)	DV	Reference Creek		2007	9.5		12.4	12.4	0.5	0.08	0.62		
NW BC (Smithers)	DV	Reference Creek		2007		11.7		16.5	0.5	0.08	0.82		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	10.5			15.2	0.5	0.08	0.76	0.08	0.59
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	10.1			14.7	0.5	0.08	0.74		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	8.5			13.0	0.5	0.08	0.65		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	8.1			12.4	0.5	0.08	0.62		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	8.0			12.4	0.5	0.08	0.62		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	7.1			11.3	0.5	0.08	0.57		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	6.6			10.8	0.5	0.08	0.54		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	6.5			10.5	0.5	0.08	0.53		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	5.6			9.4	0.5	0.08	0.47		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Cree	2006	4.5			8.0	0.5	0.08	0.40		
SE Idaho	BNTR	Sage Creek		2006	22.8			41.0	9.5	1.46	2.05	1.31	1.56
SE Idaho	BNTR	Sage Creek		2006	20.8			36.8	9.5	1.46	1.84		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Sage Creek		2006	19.5			34.0	9.5	1.46	1.70		
SE Idaho	BNTR	Sage Creek		2006	19.4			33.8	9.5	1.46	1.69		
SE Idaho	BNTR	Sage Creek		2006	18.9			32.8	7.0	1.08	1.64		
SE Idaho	BNTR	Sage Creek		2006	18.1			31.2	9.5	1.46	1.56		
SE Idaho	BNTR	Sage Creek		2006	16.0			26.8	9.5	1.46	1.34		
SE Idaho	BNTR	Sage Creek		2006	15.5			25.8	7.0	1.08	1.29		
SE Idaho	BNTR	Sage Creek		2006	15.3			25.5	7.0	1.08	1.28		
SE Idaho	BNTR	Sage Creek		2006	15.1			25.0	7.0	1.08	1.25		
SE Idaho	BNTR	Sage Creek		2007	33.3			64.4	14.4	2.22	3.22	2.18	1.39
SE Idaho	BNTR	Sage Creek		2007	27.5			51.2	14.4	2.22	2.56		
SE Idaho	BNTR	Sage Creek		2007	26.4			48.8	14.4	2.22	2.44		
SE Idaho	BNTR	Sage Creek		2007	23.8			43.1	14.4	2.22	2.16		
SE Idaho	BNTR	Sage Creek		2007	23.8			43.1	14.4	2.22	2.16		
SE Idaho	BNTR	Sage Creek		2007	22.6			40.5	14.4	2.22	2.03		
SE Idaho	BNTR	Sage Creek		2007	22.2			39.7	13.5	2.08	1.98		
SE Idaho	BNTR	Sage Creek		2007	21.4			38.0	14.4	2.22	1.90		
SE Idaho	BNTR	Sage Creek		2007	21.2			37.6	14.4	2.22	1.88		
SE Idaho	BNTR	Sage Creek		2007	20.7			36.5	14.4	2.22	1.83		
SE Idaho	BNTR	Sage Creek		2007	20.7			36.5	14.4	2.22	1.83		
SE Idaho	BNTR	Sage Creek		2007	20.0			35.0	14.4	2.22	1.75		
SE Idaho	BNTR	Sage Creek		2007	19.6			34.2	14.4	2.22	1.71		
SE Idaho	BNTR	Sage Creek		2007	18.9			32.7	14.4	2.22	1.64		
SE Idaho	BNTR	Sage Creek		2007	17.9			30.7	14.4	2.22	1.53		
SE Idaho	BNTR	Sage Creek		2007	17.3			29.5	14.4	2.22	1.47		
SE Idaho	BNTR	Sage Creek		2007	17.2			29.3	14.4	2.22	1.46		
SE Idaho	BNTR	Sage Creek		2007	15.8			26.4	10.3	1.58	1.32		
SE Idaho	BNTR	Sage Creek		2007	13.8			22.5	14.4	2.22	1.13		
SE Idaho	BNTR	Sage Creek		2007	13.6			22.1	14.4	2.22	1.11		
SE Idaho	BNTR	Sage Creek		2007	13.2			21.3	14.4	2.22	1.07		
SE Idaho	BNTR	Sage Creek		2007	13.2			21.3	14.4	2.22	1.07		
SE Idaho	BNTR	Sage Creek		2007	11.4			17.9	13.5	2.08	0.90		
SE Idaho	BNTR	Sage Creek		2007	11.3			17.7	14.4	2.22	0.89		
SE Idaho	BNTR	Sage Creek		2007	10.8			16.8	14.4	2.22	0.84		
SE Idaho	BNTR	Sage Creek		2007	9.6			14.6	14.4	2.22	0.73		
SE Idaho	BNTR	Sage Creek		2007	9.2			13.9	14.4	2.22	0.69		
SE Idaho	BNTR	Sage Creek		2007	9.0			13.5	13.5	2.08	0.68		
SE Idaho	BNTR	Sage Creek		2007	8.9			13.3	14.4	2.22	0.67		
SE Idaho	BNTR	Sage Creek		2007	8.6			12.8	14.4	2.22	0.64		
SE Idaho	BNTR	Sage Creek		2007	8.5			12.6	13.5	2.08	0.63		
SE Idaho	BNTR	Sage Creek		2007	7.2			10.4	14.4	2.22	0.52		
SE Idaho	BNTR	Sage Creek		2007	6.7			9.5	14.4	2.22	0.48		

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SE Idaho	BNTR	Sage Creek		2007	6.2			8.7	14.4	2.22	0.43		
SE Idaho	BNTR	Sage Creek		2008	29.6			55.9	14.5	2.23	2.80	3.26	1.85
SE Idaho	BNTR	Sage Creek		2008	25.0			45.7	24.2	3.72	2.29		
SE Idaho	BNTR	Sage Creek		2008	24.3			44.2	24.2	3.72	2.21		
SE Idaho	BNTR	Sage Creek		2008	24.1			43.8	24.2	3.72	2.19		
SE Idaho	BNTR	Sage Creek		2008	22.4			40.1	14.5	2.23	2.01		
SE Idaho	BNTR	Sage Creek		2008	21.8			38.8	24.2	3.72	1.94		
SE Idaho	BNTR	Sage Creek		2008	20.8			36.7	24.2	3.72	1.84		
SE Idaho	BNTR	Sage Creek		2008	20.5			36.1	14.5	2.23	1.80		
SE Idaho	BNTR	Sage Creek		2008	20.5			36.1	24.2	3.72	1.80		
SE Idaho	BNTR	Sage Creek		2008	20.4			35.9	24.2	3.72	1.79		
SE Idaho	BNTR	Sage Creek		2008	19.4			33.8	24.2	3.72	1.69		
SE Idaho	BNTR	Sage Creek		2008	19.1			33.2	14.5	2.23	1.66		
SE Idaho	BNTR	Sage Creek		2008	18.9			32.7	24.2	3.72	1.64		
SE Idaho	BNTR	Sage Creek		2008	18.0			30.9	24.2	3.72	1.54		
SE Idaho	BNTR	Sage Creek		2008	17.4			29.7	24.2	3.72	1.48		
SE Idaho	BNTR	Sage Creek		2008	11.4			17.9	14.5	2.23	0.90		
SE Idaho	YCT	Sage Creek		2007	17.8			23.9	10.3	1.58	1.19	1.58	1.05
SE Idaho	YCT	Sage Creek		2007	15.4			21.6	10.3	1.58	1.08		
SE Idaho	YCT	Sage Creek		2007	11.7			17.8	10.3	1.58	0.89		
SE Idaho	YCT	Sage Creek		2008	15.2			21.4	14.5	2.23	1.07	2.23	1.07
SE Idaho	BNTR	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2010	19.9			34.8	25.9	3.98	1.74	3.98	1.74
SE Idaho	BNTR	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2011	23.9			43.3	24.0	3.69	2.17	3.69	2.17
SE Idaho	YCT	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2010	17.9			24.0	25.9	3.98	1.20	3.98	1.20
SE Idaho	YCT	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2011	16.5			22.7	24.0	3.69	1.13	3.69	1.13
SE Idaho	BNTR	Sage Creek	Sage Creek below Hoopes confluence	2010	17.4			29.7	33.2	5.11	1.48	5.11	1.48
SE Idaho	BNTR	Sage Creek	Sage Creek below Hoopes confluence	2011	17.2			29.2	25.6	3.94	1.46	3.94	1.46
SE Idaho	YCT	Sage Creek	Sage Creek below Hoopes confluence	2010	9.9			15.8	33.2	5.11	0.79	5.11	0.79
West Virginia	CKCB	Seng Creek		2009			23.8	23.8	27.2	4.18	1.19	4.18	1.00
West Virginia	CKCB	Seng Creek		2009			21.9	21.9	27.2	4.18	1.10		
West Virginia	CKCB	Seng Creek		2009			17.5	17.5	27.2	4.18	0.88		
West Virginia	CKCB	Seng Creek		2009			16.4	16.4	27.2	4.18	0.82		
West Virginia	CSR	Seng Creek		2009			13.4	13.4	27.2	4.18	0.67	4.18	0.64
West Virginia	CSR	Seng Creek		2009			12.3	12.3	27.2	4.18	0.62		
SE Idaho	YCT	Sheep Creek		2000	3.6			7.8	0.5	0.08	0.39	0.65	0.31
SE Idaho	YCT	Sheep Creek		2000	1.8			4.8	8.0	1.23	0.24		
SE Idaho	BKT	Slug Creek	Upper	2000	2.4			3.0	0.5	0.08	0.15	0.58	0.15
SE Idaho	BKT	Slug Creek	Upper	2000	2.4			3.0	7.0	1.08	0.15		

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SE Idaho	BNTR	South Fork Sage Creek	South Fork Sage Creek located approximately 75 feet upstream from road crossing, above confluence with Sage Creek	2010	12.5			20.0	13.9	2.14	1.00	2.14	1.00
SE Idaho	BNTR	South Fork Sage Creek	South Fork Sage Creek located approximately 75 feet upstream from road crossing, above confluence with Sage Creek	2011	12.2			19.3	14.9	2.29	0.97	2.29	0.97
SE Idaho	YCT	South Fork Sage Creek	South Fork Sage Creek located approximately 75 feet upstream from road crossing, above confluence with Sage Creek	2011	12.9			19.1	14.9	2.29	0.95	2.29	0.95
SE Idaho	YCT	South Fork Tincup Creek		2007	5.7			10.8	0.3	0.05	0.54	0.06	0.31
SE Idaho	YCT	South Fork Tincup Creek		2007	3.4			7.5	0.3	0.05	0.37		
SE Idaho	YCT	South Fork Tincup Creek		2007	3.1			7.0	0.4	0.06	0.35		
SE Idaho	YCT	South Fork Tincup Creek		2007	3.0			6.9	0.3	0.05	0.34		
SE Idaho	YCT	South Fork Tincup Creek		2007	3.0			6.9	0.4	0.06	0.34		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.8			6.5	0.4	0.06	0.33		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.6			6.2	0.3	0.05	0.31		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.1			5.3	0.4	0.06	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.1			5.3	0.4	0.06	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.1			5.3	0.4	0.06	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.0			5.2	0.4	0.06	0.26		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.0			5.2	0.4	0.06	0.26		
SE Idaho	YCT	South Fork Tincup Creek		2007	1.9			5.0	0.4	0.06	0.25		
SE Idaho	YCT	South Fork Tincup Creek		2007	1.8			4.8	0.4	0.06	0.24		
SE Idaho	YCT	South Fork Tincup Creek		2007	1.8			4.8	0.4	0.06	0.24		
SE Idaho	YCT	South Fork Tincup Creek		2008	9.2			15.0	0.6	0.09	0.75	0.13	0.39
SE Idaho	YCT	South Fork Tincup Creek		2008	7.5			13.0	0.6	0.09	0.65		
SE Idaho	YCT	South Fork Tincup Creek		2008	5.7			10.8	0.6	0.09	0.54		
SE Idaho	YCT	South Fork Tincup Creek		2008	4.4			9.0	0.6	0.09	0.45		
SE Idaho	YCT	South Fork Tincup Creek		2008	3.5			7.6	0.9	0.14	0.38		
SE Idaho	YCT	South Fork Tincup Creek		2008	3.4			7.5	0.9	0.14	0.37		
SE Idaho	YCT	South Fork Tincup Creek		2008	3.1			7.0	0.9	0.14	0.35		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.8			6.5	0.9	0.14	0.33		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.5			6.1	0.9	0.14	0.30		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.5			6.0	0.9	0.14	0.30		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.3			5.6	0.9	0.14	0.28		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.2			5.5	0.9	0.14	0.28		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.2			5.4	0.9	0.14	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.0			5.2	0.9	0.14	0.26		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling P	2008			24.7	24.7	71.0	10.92	1.24	10.92	1.42
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling P	2008		23.1	18.8	18.8	71.0	10.92	0.94		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling P	2008			10.3	10.3	71.0	10.92	0.51		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling P	2008		44.6		44.8	71.0	10.92	2.24		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling P	2008		36.8		38.8	71.0	10.92	1.94		

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NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling P	2008	36.0			38.2	71.0	10.92	1.91		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling P	2008		18.8		23.5	71.0	10.92	1.18		
SE Idaho	BNTR	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary. Park at corrals and hike 0.2 mi	2009	3.8			4.9	0.2	0.03	0.24	0.03	0.24
SE Idaho	BNTR	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary. Park at corrals and hike 0.2 mi	2010	2.8			3.4	0.2	0.03	0.17	0.03	0.17
SE Idaho	YCT	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary. Park at corrals and hike 0.2 mi	2009	3.6			7.8	0.2	0.03	0.39	0.03	0.39
SE Idaho	YCT	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary. Park at corrals and hike 0.2 mi	2010	2.5			6.0	0.2	0.03	0.30	0.03	0.30
SE Idaho	YCT	Spring Creek	Approx 1.2 mi east of SPC-2 following pack trail on north side of stream	2009	2.9			6.8	0.2	0.03	0.34	0.03	0.34
SE Idaho	YCT	Spring Creek	Approx 1.2 mi east of SPC-2 following pack trail on north side of stream	2010	3.2			7.2	0.2	0.03	0.36	0.03	0.36
SE Idaho	YCT	Spring Creek	Approx 1.5 mi off of FS RD 147 at the end of FS RD 221, at the beginning of pack trail	2009	1.8			4.7	0.2	0.03	0.24	0.03	0.24
SE Idaho	YCT	Spring Creek	Approx 1.5 mi off of FS RD 147 at the end of FS RD 221, at the beginning of pack trail	2010	2.7			6.4	0.3	0.04	0.32	0.04	0.32
Indiana	BG	Stingy Run	Tributary of Kyger Ck (t	1993	17.3			51.3	28.0	4.31	2.56	4.31	2.56
SE Idaho	BKT	Trail Creek	Trail Creek on State of Idaho land	2011	4.2			4.7	0.2	0.03	0.24	0.03	0.24
West-Central Alberta	BKT	U. McLeod River	U. McLeod River	2000		7.0	40.5	40.5	0.8	0.12	2.03	0.12	0.98
West-Central Alberta	BKT	U. McLeod River	U. McLeod River	2000		5.3	24.0	24.0	0.8	0.12	1.20		
West-Central Alberta	BKT	U. McLeod River	U. McLeod River	2000		6.5	22.8	22.8	0.8	0.12	1.14		
West-Central Alberta	BKT	U. McLeod River	U. McLeod River	2000		5.0	16.0	16.0	0.8	0.12	0.80		
West-Central Alberta	BKT	U. McLeod River	U. McLeod River	2000		6.1	14.8	14.8	0.8	0.12	0.74		
West-Central Alberta	BKT	U. McLeod River	U. McLeod River	2000		11.4	13.1	13.1	0.8	0.12	0.66		
West-Central Alberta	BKT	U. McLeod River	U. McLeod River	2000		6.0		6.3	0.8	0.12	0.31		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		5.2		19.6	0.8	0.12	0.98	0.12	0.88
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		3.6		13.2	0.8	0.12	0.66		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		2.5		9.1	0.8	0.12	0.45		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		5.0		18.6	0.8	0.12	0.93		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		4.9		18.2	0.8	0.12	0.91		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		4.9		18.2	0.8	0.12	0.91		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		4.4		16.2	0.8	0.12	0.81		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		5.5		20.7	0.8	0.12	1.04		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		5.7		21.5	0.8	0.12	1.08		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	1999		5.6		21.1	0.8	0.12	1.06		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		5.1		19.0	0.8	0.12	0.95	0.12	1.09
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		5.8		21.9	0.8	0.12	1.10		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		5.4		20.2	0.8	0.12	1.01		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		6.4		24.4	0.8	0.12	1.22		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		6.7		25.3	0.8	0.12	1.26		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		6.5		24.8	0.8	0.12	1.24		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		7.1		27.0	0.8	0.12	1.35		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		5.0		18.9	0.8	0.12	0.95		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		6.5		24.6	0.8	0.12	1.23		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		5.0		18.8	0.8	0.12	0.94		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		4.5		16.8	0.8	0.12	0.84		
West-Central Alberta	RBT	U. McLeod River	U. McLeod River	2000		5.4		20.5	0.8	0.12	1.02		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	7.0			11.2	1.0	0.15	0.56	0.15	0.50
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	6.1			10.1	1.0	0.15	0.51		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.8			9.7	1.0	0.15	0.49		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.7			9.6	1.0	0.15	0.48		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.7			9.6	1.0	0.15	0.48		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.5			9.3	1.0	0.15	0.46		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		2.8	10.3	10.3	0.3	0.05	0.51	0.05	0.27
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		4.1	7.4	7.4	0.3	0.05	0.37		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		5.2	6.8	6.8	0.3	0.05	0.34		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		2.9	6.8	6.8	0.3	0.05	0.34		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		5.6	6.7	6.7	0.3	0.05	0.33		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		5.2	6.3	6.3	0.3	0.05	0.32		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		3.1	6.3	6.3	0.3	0.05	0.31		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		4.0	5.4	5.4	0.3	0.05	0.27		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		3.1	5.2	5.2	0.3	0.05	0.26		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		3.4	5.1	5.1	0.3	0.05	0.25		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		3.8	4.8	4.8	0.3	0.05	0.24		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		3.0	4.0	4.0	0.3	0.05	0.20		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		2.6	3.7	3.7	0.3	0.05	0.18		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		2.6	3.5	3.5	0.3	0.05	0.18		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		1.7	3.5	3.5	0.3	0.05	0.17		
West-Central Alberta	RBT	Wampus Creek	Wampus Creek	1999		3.0		0.0	0.3	0.05	0.00		
NW BC (Smithers)	DV	Waste Rock Creek		2004	12.5			17.3	23.1	3.55	0.86	3.55	0.76
NW BC (Smithers)	DV	Waste Rock Creek		2004	11.4			16.1	23.1	3.55	0.81		
NW BC (Smithers)	DV	Waste Rock Creek		2004	10.8			15.5	23.1	3.55	0.78		
NW BC (Smithers)	DV	Waste Rock Creek		2004	10.1			14.7	23.1	3.55	0.74		
NW BC (Smithers)	DV	Waste Rock Creek		2004	10.1			14.7	23.1	3.55	0.74		
NW BC (Smithers)	DV	Waste Rock Creek		2004	8.0			12.4	23.1	3.55	0.62		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		75.8	92.3	92.3	68.5	10.54	4.62	10.54	2.44
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		73.0	40.7	40.7	68.5	10.54	2.04		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		56.6		53.6	68.5	10.54	2.68		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		20.6		25.1	68.5	10.54	1.26		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		77.4		67.7	68.5	10.54	3.39		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		45.9		45.8	68.5	10.54	2.29		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		19.6		24.2	68.5	10.54	1.21		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		70.4		63.1	68.5	10.54	3.16		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		20.0		24.6	68.5	10.54	1.23		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		59.9		55.9	68.5	10.54	2.80		
NW BC (Smithers)	DV	Waste Rock Creek	Lower	2007		43.7		44.2	68.5	10.54	2.21		
NW BC (Smithers)	RBT	Waste Rock Creek	Lower	2007		25.5		103.1	68.5	10.54	5.16	10.54	7.92
NW BC (Smithers)	RBT	Waste Rock Creek	Lower	2007		45.0		186.7	68.5	10.54	9.34		
NW BC (Smithers)	RBT	Waste Rock Creek	Lower	2007		45.7		189.8	68.5	10.54	9.49		
NW BC (Smithers)	RBT	Waste Rock Creek	Lower	2007		37.4		153.9	68.5	10.54	7.69		
NW BC (Smithers)	DV	Waste Rock Creek	Upper	2007		62.1		57.4	61.6	9.48	2.87	9.48	2.41
NW BC (Smithers)	DV	Waste Rock Creek	Upper	2007	36.9			38.9	61.6	9.48	1.95		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		62.5	70.5	70.5	38.7	5.95	3.53	5.95	2.36
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		50.2	69.5	69.5	38.7	5.95	3.47		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		50.9	54.2	54.2	38.7	5.95	2.71		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		31.3	41.8	41.8	38.7	5.95	2.09		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		47.3	41.8	41.8	38.7	5.95	2.09		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		27.9	29.7	29.7	38.7	5.95	1.49		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		20.4	25.1	25.1	38.7	5.95	1.26		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		44.5		44.8	38.7	5.95	2.24		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		55.7	65.8	65.8	50.9	7.83	3.29	7.83	2.39
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		39.5	60.5	60.5	50.9	7.83	3.03		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008			60.0	60.0	50.9	7.83	3.00		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		50.5	56.6	56.6	50.9	7.83	2.83		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008	37.2		56.3	56.3	50.9	7.83	2.82		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		88.8	53.3	53.3	50.9	7.83	2.67		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		58.3	51.9	51.9	50.9	7.83	2.59		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008			46.8	46.8	50.9	7.83	2.34		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		55.5	22.8	22.8	50.9	7.83	1.14		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008			12.1	12.1	50.9	7.83	0.60		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		51.9		50.2	50.9	7.83	2.51		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		45.1		45.2	50.9	7.83	2.26		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		39.2		40.7	50.9	7.83	2.03		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	67.2			60.9	41.5	6.38	3.05	6.38	2.19
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	59.6			55.7	41.5	6.38	2.79		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	59.0			55.3	41.5	6.38	2.76		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	46.1			46.0	41.5	6.38	2.30		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	39.6			41.0	41.5	6.38	2.05		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	38.6			40.2	41.5	6.38	2.01		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	35.1			37.5	41.5	6.38	1.87		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	27.4			31.1	41.5	6.38	1.56		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	22.9			27.2	41.5	6.38	1.36		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lotic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West Virginia	BG	White Oak Creek		2005	1.0			2.2	15.8	2.43	0.11	2.43	0.11
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		4.6	11.4	11.4	0.8	0.12	0.57	0.12	0.92
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		4.3	9.9	9.9	0.8	0.12	0.50		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		5.0		18.8	0.8	0.12	0.94		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		5.4		20.1	0.8	0.12	1.01		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		6.2		23.5	0.8	0.12	1.17		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		4.8		18.0	0.8	0.12	0.90		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		5.7		21.3	0.8	0.12	1.07		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		6.2		23.3	0.8	0.12	1.16		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		4.6		17.0	0.8	0.12	0.85		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	1999		5.7		21.3	0.8	0.12	1.07		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	2000		2.5		8.9	0.8	0.12	0.45	0.12	0.60
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	2000		3.4		12.5	0.8	0.12	0.62		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	2000		4.5		16.7	0.8	0.12	0.83		
West-Central Alberta	RBT	Whitehorse Creek	Whitehorse Creek	2000		2.7		9.8	0.8	0.12	0.49		
Peace River	BT	Wolverine River	WR1 (17km u/s Perry Cree	2004		5.1		17.8	0.6	0.09	0.89	0.09	0.80
Peace River	BT	Wolverine River	WR1 (17km u/s Perry Cree	2004		4.8		16.6	0.6	0.09	0.83		
Peace River	BT	Wolverine River	WR1 (17km u/s Perry Cree	2004		3.9		13.5	0.6	0.09	0.67		

[1] When measured fish egg or ovary Se concentrations were not available they were predicted from WB or muscle Se concentrations using the regression relationships provided in Table S9.

BG = bluegill
BKT = brook trout
BNTR = brown trout
BT = bull trout
CKCB = creek chub
CSR = sucker
CT = cutthroat trout
DV = Dolly Varden
LMB = largemouth bass
NP = northern pike
RBT = rainbow trout
WCT = westslope cutthroat trout
WS = white sucker
YCT = Yellowstone cutthroat trout
WB = whole body

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lentic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		97.2	102.0	102.0	77.9	26.0	5.1	26.0	5.1
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		107.0	107.0	107.0	77.9	26.0	5.4		
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		79.6	112.0	112.0	77.9	26.0	5.6		
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		114.0	124.0	124.0	77.9	26.0	6.2		
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		115.0	185.0	185.0	77.9	26.0	9.3		
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		109.0		87.5	77.9	26.0	4.4		
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		90.3		76.0	77.9	26.0	3.8		
NW BC (Smithers)	DV	Waste Rock Creek	Ponds	2007		76.3		67.0	77.9	26.0	3.4		
NW BC (Smithers)	DV	Waste Rock Creek	Wetlands	2007		75.2		66.3	61.6	20.5	3.3	20.5	2.3
NW BC (Smithers)	DV	Waste Rock Creek	Wetlands	2007	48.6			47.8	61.6	20.5	2.4		
NW BC (Smithers)	DV	Waste Rock Creek	Wetlands	2007	29.2			32.7	61.6	20.5	1.6		
NW BC (Smithers)	DV	Waste Rock Creek	Upper ponds	2008		71.4	96.4	96.4	50.9	17.0	4.8	17.0	4.8
NW BC (Smithers)	RBT	Waste Rock Creek	Wetlands	2007		38.7		159.5	61.6	20.5	8.0	20.5	8.0
Saskatchewan	NP	Vulture Lake	Vulture Lake	2006	5.3	5.6	6.2	6.2	0.4	0.1	0.3	0.1	0.4
Saskatchewan	NP	Vulture Lake	Vulture Lake	2006	3.1	3.0	7.4	7.4	0.4	0.1	0.4		
Saskatchewan	NP	Vulture Lake	Vulture Lake	2006	3.9	3.9	7.5	7.5	0.4	0.1	0.4		
Saskatchewan	NP	Vulture Lake	Vulture Lake	2006	5.1	5.4	8.6	8.6	0.4	0.1	0.4		
Saskatchewan	NP	Vulture Lake	Vulture Lake	2006	3.2	3.1	10.5	10.5	0.4	0.1	0.5		
Saskatchewan	WS	Vulture Lake	Vulture Lake	2006	3.8	3.8	4.6	4.6	0.4	0.1	0.2	0.1	0.3
Saskatchewan	WS	Vulture Lake	Vulture Lake	2006	3.6	3.6	4.6	4.6	0.4	0.1	0.2		
Saskatchewan	WS	Vulture Lake	Vulture Lake	2006	4.1	4.2	5.1	5.1	0.4	0.1	0.3		
Saskatchewan	WS	Vulture Lake	Vulture Lake	2006	5.6	5.9	6.3	6.3	0.4	0.1	0.3		
West Virginia	BG	Upper Mud River Reservoi		2005	60.0			203.1	4.0	1.3	10.2	1.3	5.7
West Virginia	BG	Upper Mud River Reservoi		2005	41.0			133.3	4.0	1.3	6.7		
West Virginia	BG	Upper Mud River Reservoi		2005	32.0			101.4	4.0	1.3	5.1		
West Virginia	BG	Upper Mud River Reservoi		2005	27.0			84.0	4.0	1.3	4.2		
West Virginia	BG	Upper Mud River Reservoi		2005	27.0			84.0	4.0	1.3	4.2		
West Virginia	BG	Upper Mud River Reservoi		2006	60.1			203.4	4.0	1.3	10.2	1.3	4.5
West Virginia	BG	Upper Mud River Reservoi		2006	50.9			169.3	4.0	1.3	8.5		
West Virginia	BG	Upper Mud River Reservoi		2006	41.7			135.9	4.0	1.3	6.8		
West Virginia	BG	Upper Mud River Reservoi		2006	38.0			122.6	4.0	1.3	6.1		
West Virginia	BG	Upper Mud River Reservoi		2006	24.5			75.5	4.0	1.3	3.8		
West Virginia	BG	Upper Mud River Reservoi		2006	23.3			71.4	4.0	1.3	3.6		
West Virginia	BG	Upper Mud River Reservoi		2006	16.4			48.5	4.0	1.3	2.4		
West Virginia	BG	Upper Mud River Reservoi		2006	9.8			27.4	4.0	1.3	1.4		
West Virginia	BG	Upper Mud River Reservoi		2007	37.5			120.8	4.0	1.3	6.0	1.3	2.4
West Virginia	BG	Upper Mud River Reservoi		2007	34.9			111.6	4.0	1.3	5.6		
West Virginia	BG	Upper Mud River Reservoi		2007	32.2			102.1	4.0	1.3	5.1		
West Virginia	BG	Upper Mud River Reservoi		2007	27.1			84.4	4.0	1.3	4.2		
West Virginia	BG	Upper Mud River Reservoi		2007	22.7			69.4	4.0	1.3	3.5		
West Virginia	BG	Upper Mud River Reservoi		2007	19.8			59.7	4.0	1.3	3.0		
West Virginia	BG	Upper Mud River Reservoi		2007	19.3			58.0	4.0	1.3	2.9		
West Virginia	BG	Upper Mud River Reservoi		2007	18.1			54.0	4.0	1.3	2.7		
West Virginia	BG	Upper Mud River Reservoi		2007	18.1			54.0	4.0	1.3	2.7		
West Virginia	BG	Upper Mud River Reservoi		2007	17.8			53.0	4.0	1.3	2.7		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lentic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
West Virginia	BG	Upper Mud River Reservoi		2007	14.9			43.6	4.0	1.3	2.2		
West Virginia	BG	Upper Mud River Reservoi		2007	13.9			40.4	4.0	1.3	2.0		
West Virginia	BG	Upper Mud River Reservoi		2007	13.3			38.4	4.0	1.3	1.9		
West Virginia	BG	Upper Mud River Reservoi		2007	11.2			31.8	4.0	1.3	1.6		
West Virginia	BG	Upper Mud River Reservoi		2007	11.0			31.2	4.0	1.3	1.6		
West Virginia	BG	Upper Mud River Reservoi		2007	9.0			25.0	4.0	1.3	1.2		
West Virginia	BG	Upper Mud River Reservoi		2007	8.9			24.7	4.0	1.3	1.2		
West Virginia	BG	Upper Mud River Reservoi		2007	3.9			9.9	4.0	1.3	0.5		
West Virginia	BG	Upper Mud River Reservoi		2009			9.8	9.8	4.0	1.3	0.5	1.3	0.5
West Virginia	LMB	Upper Mud River Reservoi		2007	29.3			111.1	4.0	1.3	5.6	1.3	4.7
West Virginia	LMB	Upper Mud River Reservoi		2007	27.0			101.6	4.0	1.3	5.1		
West Virginia	LMB	Upper Mud River Reservoi		2007	23.7			88.1	4.0	1.3	4.4		
West Virginia	LMB	Upper Mud River Reservoi		2007	21.0			77.2	4.0	1.3	3.9		
West Virginia	LMB	Upper Mud River Reservoi		2009			25.3	25.3	4.0	1.3	1.3	1.3	1.8
West Virginia	LMB	Upper Mud River Reservoi		2009			30.5	30.5	4.0	1.3	1.5		
West Virginia	LMB	Upper Mud River Reservoi		2009			64.6	64.6	4.0	1.3	3.2		
Saskatchewan	NP	Unknown Lake	Unknown Lake		36.2	47.8	48.2	48.2	2.3	0.8	2.4	0.8	2.4
West Virginia	BG	Plum Orchard Lake		2006	19.0			57.0	1.0	0.3	2.9	0.3	0.5
West Virginia	BG	Plum Orchard Lake		2006	16.3			48.1	1.0	0.3	2.4		
West Virginia	BG	Plum Orchard Lake		2006	15.1			44.2	1.0	0.3	2.2		
West Virginia	BG	Plum Orchard Lake		2006	8.6			23.7	1.0	0.3	1.2		
West Virginia	BG	Plum Orchard Lake		2006	7.5			20.4	1.0	0.3	1.0		
West Virginia	BG	Plum Orchard Lake		2006	4.9			12.8	1.0	0.3	0.6		
West Virginia	BG	Plum Orchard Lake		2006	4.2			10.8	1.0	0.3	0.5		
West Virginia	BG	Plum Orchard Lake		2006	2.0			4.7	1.0	0.3	0.2		
West Virginia	BG	Plum Orchard Lake		2006	1.4			3.2	1.0	0.3	0.2		
West Virginia	BG	Plum Orchard Lake		2006	1.3			2.9	1.0	0.3	0.1		
West Virginia	BG	Plum Orchard Lake		2006	1.2			2.7	1.0	0.3	0.1		
West Virginia	BG	Plum Orchard Lake		2006	1.0			2.2	1.0	0.3	0.1		
West Virginia	BG	Plum Orchard Lake		2007	19.8			59.7	1.0	0.3	3.0	0.3	0.3
West Virginia	BG	Plum Orchard Lake		2007	3.8			9.6	1.0	0.3	0.5		
West Virginia	BG	Plum Orchard Lake		2007	3.6			9.1	1.0	0.3	0.5		
West Virginia	BG	Plum Orchard Lake		2007	1.9			4.5	1.0	0.3	0.2		
West Virginia	BG	Plum Orchard Lake		2007	1.7			4.0	1.0	0.3	0.2		
West Virginia	BG	Plum Orchard Lake		2007	1.6			3.7	1.0	0.3	0.2		
West Virginia	BG	Plum Orchard Lake		2007	1.4			3.2	1.0	0.3	0.2		
West Virginia	BG	Plum Orchard Lake		2007	1.4			3.2	1.0	0.3	0.2		
West Virginia	BG	Plum Orchard Lake		2007	1.2			2.7	1.0	0.3	0.1		
West Virginia	BG	Plum Orchard Lake		2007	1.1			2.4	1.0	0.3	0.1		
West Virginia	BG	Plum Orchard Lake		2009			0.8	0.8	1.0	0.3	0.0	0.3	0.1
West Virginia	LMB	Plum Orchard Lake		2009			8.7	8.7	1.0	0.3	0.4		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		7.2	12.3	12.3	1.0	0.3	0.6	0.3	0.7
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		7.6	12.3	12.3	1.0	0.3	0.6		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.2	12.5	12.5	1.0	0.3	0.6		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.1	12.7	12.7	1.0	0.3	0.6		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lentic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.3	12.9	12.9	1.0	0.3	0.6		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.5	12.9	12.9	1.0	0.3	0.6		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		7.6	13.1	13.1	1.0	0.3	0.7		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.5	13.1	13.1	1.0	0.3	0.7		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		7.7	13.9	13.9	1.0	0.3	0.7		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.2	13.9	13.9	1.0	0.3	0.7		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.1	14.9	14.9	1.0	0.3	0.7		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.0	15.0	15.0	1.0	0.3	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		7.9	15.1	15.1	1.0	0.3	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		6.6	15.2	15.2	1.0	0.3	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		8.7	15.6	15.6	1.0	0.3	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2005		7.3	16.7	16.7	1.0	0.3	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2009		9.6	14.4	14.4	0.2	0.1	0.7	0.1	0.8
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2009		7.9	15.9	15.9	0.2	0.1	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2009		10.0	16.1	16.1	0.2	0.1	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2009		9.2	16.2	16.2	0.2	0.1	0.8		
Elk Valley	WCT	O'Rourke Lake	O'Rourke Lake	2009		10.2	16.5	16.5	0.2	0.1	0.8		
West Virginia	BG	Mount Storm Lake		2005	7.0			18.9	1.3	0.4	0.9	0.4	0.5
West Virginia	BG	Mount Storm Lake		2005	7.0			18.9	1.3	0.4	0.9		
West Virginia	BG	Mount Storm Lake		2005	7.0			18.9	1.3	0.4	0.9		
West Virginia	BG	Mount Storm Lake		2005	4.0			10.2	1.3	0.4	0.5		
West Virginia	BG	Mount Storm Lake		2005	3.0			7.4	1.3	0.4	0.4		
West Virginia	BG	Mount Storm Lake		2005	3.0			7.4	1.3	0.4	0.4		
West Virginia	BG	Mount Storm Lake		2005	3.0			7.4	1.3	0.4	0.4		
West Virginia	BG	Mount Storm Lake		2005	3.0			7.4	1.3	0.4	0.4		
West Virginia	BG	Mount Storm Lake		2005	3.0			7.4	1.3	0.4	0.4		
West Virginia	BG	Mount Storm Lake		2006	5.1			13.3	1.3	0.4	0.7	0.4	0.4
West Virginia	BG	Mount Storm Lake		2006	5.1			13.3	1.3	0.4	0.7		
West Virginia	BG	Mount Storm Lake		2006	5.1			13.3	1.3	0.4	0.7		
West Virginia	BG	Mount Storm Lake		2006	4.9			12.8	1.3	0.4	0.6		
West Virginia	BG	Mount Storm Lake		2006	4.3			11.0	1.3	0.4	0.6		
West Virginia	BG	Mount Storm Lake		2006	4.3			11.0	1.3	0.4	0.6		
West Virginia	BG	Mount Storm Lake		2006	4.2			10.8	1.3	0.4	0.5		
West Virginia	BG	Mount Storm Lake		2006	2.7			6.6	1.3	0.4	0.3		
West Virginia	BG	Mount Storm Lake		2006	2.5			6.1	1.3	0.4	0.3		
West Virginia	BG	Mount Storm Lake		2006	2.5			6.1	1.3	0.4	0.3		
West Virginia	BG	Mount Storm Lake		2006	2.4			5.8	1.3	0.4	0.3		
West Virginia	BG	Mount Storm Lake		2006	2.2			5.3	1.3	0.4	0.3		
West Virginia	BG	Mount Storm Lake		2006	2.1			5.0	1.3	0.4	0.3		
West Virginia	BG	Mount Storm Lake		2006	2.0			4.7	1.3	0.4	0.2		
West Virginia	BG	Mount Storm Lake		2006	1.6			3.7	1.3	0.4	0.2		
West Virginia	BG	Mount Storm Lake		2007	7.0			18.9	1.3	0.4	0.9	0.4	0.6
West Virginia	BG	Mount Storm Lake		2007	5.3			13.9	1.3	0.4	0.7		
West Virginia	BG	Mount Storm Lake		2007	5.3			13.9	1.3	0.4	0.7		
West Virginia	BG	Mount Storm Lake		2007	4.8			12.5	1.3	0.4	0.6		

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West Virginia	BG	Mount Storm Lake		2007	4.8			12.5	1.3	0.4	0.6		
West Virginia	BG	Mount Storm Lake		2007	3.9			9.9	1.3	0.4	0.5		
West Virginia	BG	Mount Storm Lake		2007	3.2			8.0	1.3	0.4	0.4		
Elk Valley	LSS	Lake Koocanusa	at Sand Creek	2009	1.9		3.9	3.9	0.7	0.2	0.2	0.2	0.2
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	2.8		6.7	6.7	0.8	0.3	0.3	0.3	0.5
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	4.1		7.7	7.7	0.8	0.3	0.4		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	4.8		9.7	9.7	0.8	0.3	0.5		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	5.5		11.4	11.4	0.8	0.3	0.6		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	4.9		14.1	14.1	0.8	0.3	0.7		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	5.5		16.5	16.5	0.8	0.3	0.8		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	7.7			12.0	0.8	0.3	0.6		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	6.9			10.8	0.8	0.3	0.5		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	6.7			10.4	0.8	0.3	0.5		
Elk Valley	WCT	Lake Koocanusa	at Elk River	2009	5.7			8.6	0.8	0.3	0.4		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		28.9	42.6	42.6	25.5	8.5	2.1	8.5	2.8
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		36.8	45.6	45.6	25.5	8.5	2.3		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		27.6	47.7	47.7	25.5	8.5	2.4		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		29.0	48.0	48.0	25.5	8.5	2.4		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		35.6	53.3	53.3	25.5	8.5	2.7		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		32.2	53.9	53.9	25.5	8.5	2.7		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		34.8	54.9	54.9	25.5	8.5	2.7		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		32.2	55.1	55.1	25.5	8.5	2.8		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		35.3	55.4	55.4	25.5	8.5	2.8		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		33.2	55.6	55.6	25.5	8.5	2.8		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		33.8	56.7	56.7	25.5	8.5	2.8		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		39.3	56.9	56.9	25.5	8.5	2.8		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		38.0	58.0	58.0	25.5	8.5	2.9		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		40.1	58.2	58.2	25.5	8.5	2.9		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		31.5	60.0	60.0	25.5	8.5	3.0		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		33.6	63.3	63.3	25.5	8.5	3.2		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		36.0	66.2	66.2	25.5	8.5	3.3		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		34.1	67.7	67.7	25.5	8.5	3.4		
West-Central Alberta	RBT	Lac Des Roches	Lac Des Roches	1999		36.4	70.0	70.0	25.5	8.5	3.5		
Elk Valley	KKN	Koocanusa	US Reach	2008		2.3	3.3	3.3	0.8	0.3	0.2	0.3	0.2
Elk Valley	KKN	Koocanusa	US Reach	2008		1.7	3.4	3.4	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	US Reach	2008		2.0	3.5	3.5	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	US Reach	2008		1.9	3.5	3.5	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	US Reach	2008		2.4	3.5	3.5	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	US Reach	2008		1.6	4.1	4.1	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	US Reach	2008		1.8	4.5	4.5	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	US Reach	2008		2.0	4.7	4.7	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	US Reach	2008		1.9	4.8	4.8	0.8	0.3	0.2		
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		1.5	2.8	2.8	0.1	0.0	0.1	0.0	0.2
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		1.8	3.2	3.2	0.1	0.0	0.2		
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		1.9	3.2	3.2	0.1	0.0	0.2		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lentic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		2.0	3.5	3.5	0.1	0.0	0.2		
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		2.1	3.7	3.7	0.1	0.0	0.2		
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		1.8	3.7	3.7	0.1	0.0	0.2		
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		1.6	3.8	3.8	0.1	0.0	0.2		
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		1.9	3.9	3.9	0.1	0.0	0.2		
Elk Valley	KKN	Koocanusa	Canadian Reach	2008		1.9	4.6	4.6	0.1	0.0	0.2		
Elk Valley	PMC	Koocanusa	US Reach	2008		2.3	5.0	5.0	0.8	0.3	0.3	0.3	0.4
Elk Valley	PMC	Koocanusa	US Reach	2008		1.8	5.6	5.6	0.8	0.3	0.3		
Elk Valley	PMC	Koocanusa	US Reach	2008		2.3	5.6	5.6	0.8	0.3	0.3		
Elk Valley	PMC	Koocanusa	US Reach	2008		2.3	6.4	6.4	0.8	0.3	0.3		
Elk Valley	PMC	Koocanusa	US Reach	2008		2.8	6.5	6.5	0.8	0.3	0.3		
Elk Valley	PMC	Koocanusa	US Reach	2008		4.4	8.5	8.5	0.8	0.3	0.4		
Elk Valley	PMC	Koocanusa	US Reach	2008		2.6	9.3	9.3	0.8	0.3	0.5		
Elk Valley	PMC	Koocanusa	US Reach	2008		6.4	9.7	9.7	0.8	0.3	0.5		
Elk Valley	PMC	Koocanusa	US Reach	2008		2.8	10.2	10.2	0.8	0.3	0.5		
Elk Valley	PMC	Koocanusa	US Reach	2008		5.4	11.3	11.3	0.8	0.3	0.6		
Elk Valley	WCT	Henretta Lake	Henretta Lake	2006		5.3	24.6	24.6	6.4	2.1	1.2	2.1	1.2
Elk Valley	WCT	Harmer Pond	Harmer Pond	2006		24.3	25.7	25.7	15.0	5.0	1.3	5.0	1.3
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2004			48.8	48.8	78.9	26.3	2.4	26.3	2.6
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2004			55.9	55.9	78.9	26.3	2.8		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			15.5	15.5	51.7	17.2	0.8	17.2	1.8
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			20.6	20.6	51.7	17.2	1.0		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			26.9	26.9	51.7	17.2	1.3		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			32.7	32.7	51.7	17.2	1.6		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			34.4	34.4	51.7	17.2	1.7		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			36.7	36.7	51.7	17.2	1.8		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			37.8	37.8	51.7	17.2	1.9		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			39.4	39.4	51.7	17.2	2.0		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			40.5	40.5	51.7	17.2	2.0		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			45.0	45.0	51.7	17.2	2.3		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			47.2	47.2	51.7	17.2	2.4		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			51.0	51.0	51.7	17.2	2.6		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			59.4	59.4	51.7	17.2	3.0		
Elk Valley	LNS	Goddard Marsh	Goddard Marsh	2005			65.4	65.4	51.7	17.2	3.3		
Elk Valley	WCT	Fording River Oxbow	Fording River Oxbow	2009		36.9	33.0	33.0	26.3	8.8	1.7	8.8	2.3
Elk Valley	WCT	Fording River Oxbow	Fording River Oxbow	2009		37.8	62.6	62.6	26.3	8.8	3.1		
Elk Valley	WCT	Fording River	Fording River Oxbow	2003		41.2		76.6	4.4	1.5	3.8	1.5	3.5
Elk Valley	WCT	Fording River	Fording River Oxbow	2003		40.3		74.8	4.4	1.5	3.7		
Elk Valley	WCT	Fording River	Fording River Oxbow	2003		34.1		62.2	4.4	1.5	3.1		
Elk Valley	WCT	Fording River	Fording River Oxbow	2006		50.6	45.3	45.3	13.0	4.3	2.3	4.3	3.2
Elk Valley	WCT	Fording River	Fording River Oxbow	2006		41.6	62.8	62.8	13.0	4.3	3.1		
Elk Valley	WCT	Fording River	Fording River Oxbow	2006		42.3	66.4	66.4	13.0	4.3	3.3		
Elk Valley	WCT	Fording River	Fording River Oxbow	2006		56.3	84.6	84.6	13.0	4.3	4.2		
Elk Valley	WCT	Elk Lakes	Elk Lakes	2006		4.4	6.9	6.9	1.0	0.3	0.3	0.3	0.4
Elk Valley	WCT	Elk Lakes	Elk Lakes	2006		3.0	7.4	7.4	1.0	0.3	0.4		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lentic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
Elk Valley	WCT	Elk Lakes	Elk Lakes	2006		3.5	8.4	8.4	1.0	0.3	0.4		
Elk Valley	WCT	Elk Lakes	Elk Lakes	2006		5.0	9.4	9.4	1.0	0.3	0.5		
Elk Valley	WCT	Elk Lakes	Elk Lakes	2006		4.0	10.7	10.7	1.0	0.3	0.5		
Elk Valley	WCT	Elk Lakes	Elk Lakes	2009		2.3	11.3	11.3	0.4	0.1	0.6	0.1	0.7
Elk Valley	WCT	Elk Lakes	Elk Lakes	2009		2.4	12.0	12.0	0.4	0.1	0.6		
Elk Valley	WCT	Elk Lakes	Elk Lakes	2009		3.9	15.8	15.8	0.4	0.1	0.8		
Elk Valley	WCT	Elk Lakes	Elk Lakes	2009		3.4	16.9	16.9	0.4	0.1	0.8		
West Virginia	BG	Elk Fork Lake		2006	26.1			81.0	1.0	0.3	4.0	0.3	0.4
West Virginia	BG	Elk Fork Lake		2006	16.3			48.1	1.0	0.3	2.4		
West Virginia	BG	Elk Fork Lake		2006	14.0			40.7	1.0	0.3	2.0		
West Virginia	BG	Elk Fork Lake		2006	5.3			13.9	1.0	0.3	0.7		
West Virginia	BG	Elk Fork Lake		2006	5.3			13.9	1.0	0.3	0.7		
West Virginia	BG	Elk Fork Lake		2006	1.2			2.7	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2006	1.1			2.4	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2006	1.1			2.4	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2006	0.8			1.7	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2006	0.7			1.5	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2007	1.1			2.4	1.0	0.3	0.1	0.3	0.1
West Virginia	BG	Elk Fork Lake		2007	1.1			2.4	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2007	1.1			2.4	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2007	1.1			2.4	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2007	0.8			1.7	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2007	0.8			1.7	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2007	0.8			1.7	1.0	0.3	0.1		
West Virginia	BG	Elk Fork Lake		2007	0.7			1.5	1.0	0.3	0.1		
West Virginia	BG	East Lynn Lake		2005	9.0			25.0	1.0	0.3	1.2	0.3	0.4
West Virginia	BG	East Lynn Lake		2005	4.0			10.2	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2005	4.0			10.2	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2005	4.0			10.2	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2005	1.0			2.2	1.0	0.3	0.1		
West Virginia	BG	East Lynn Lake		2006	6.1			16.2	1.0	0.3	0.8	0.3	0.4
West Virginia	BG	East Lynn Lake		2006	5.2			13.6	1.0	0.3	0.7		
West Virginia	BG	East Lynn Lake		2006	3.9			9.9	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2006	3.6			9.1	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2006	2.8			6.9	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2006	2.8			6.9	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2006	2.6			6.3	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2006	2.6			6.3	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2006	2.2			5.3	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2006	2.0			4.7	1.0	0.3	0.2		
West Virginia	BG	East Lynn Lake		2007	4.0			10.2	1.0	0.3	0.5	0.3	0.3
West Virginia	BG	East Lynn Lake		2007	3.9			9.9	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2007	3.7			9.4	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2007	3.6			9.1	1.0	0.3	0.5		
West Virginia	BG	East Lynn Lake		2007	3.6			9.1	1.0	0.3	0.5		

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West Virginia	BG	East Lynn Lake		2007	3.4			8.5	1.0	0.3	0.4		
West Virginia	BG	East Lynn Lake		2007	3.1			7.7	1.0	0.3	0.4		
West Virginia	BG	East Lynn Lake		2007	3.0			7.4	1.0	0.3	0.4		
West Virginia	BG	East Lynn Lake		2007	2.5			6.1	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2007	2.3			5.5	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2007	2.2			5.3	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2007	2.1			5.0	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2007	2.1			5.0	1.0	0.3	0.3		
West Virginia	BG	East Lynn Lake		2007	2.0			4.7	1.0	0.3	0.2		
West Virginia	BG	East Lynn Lake		2007	2.0			4.7	1.0	0.3	0.2		
West Virginia	BG	East Lynn Lake		2007	2.0			4.7	1.0	0.3	0.2		
West Virginia	BG	East Lynn Lake		2007	1.9			4.5	1.0	0.3	0.2		
West Virginia	BG	East Lynn Lake		2007	1.3			2.9	1.0	0.3	0.1		
West Virginia	BG	East Lynn Lake		2007	0.8			1.7	1.0	0.3	0.1		
Saskatchewan	NP	Delta Lake	Delta Lake		14.0	16.5	24.5	24.5	0.7	0.2	1.2	0.2	1.5
Saskatchewan	NP	Delta Lake	Delta Lake		14.0	16.5	26.1	26.1	0.7	0.2	1.3		
Saskatchewan	NP	Delta Lake	Delta Lake		14.4	17.0	43.2	43.2	0.7	0.2	2.2		
Elk Valley	WCT	Clode Pond	Clode Pond	2002		27.5	54.2	54.2	50.0	16.7	2.7	16.7	3.5
Elk Valley	WCT	Clode Pond	Clode Pond	2002		37.9	63.7	63.7	50.0	16.7	3.2		
Elk Valley	WCT	Clode Pond	Clode Pond	2002		32.2	101.5	101.5	50.0	16.7	5.1		
Elk Valley	WCT	Clode Pond	Clode Pond	2003		61.7		119.5	68.7	22.9	6.0	26.0	4.2
Elk Valley	WCT	Clode Pond	Clode Pond	2003		45.5		85.5	68.7	22.9	4.3		
Elk Valley	WCT	Clode Pond	Clode Pond	2003		44.6		83.6	68.7	22.9	4.2		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		35.4	46.8	46.8	82.0	27.3	2.3		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		34.7	51.0	51.0	82.0	27.3	2.6		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		39.0	65.3	65.3	82.0	27.3	3.3		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		35.5	75.4	75.4	82.0	27.3	3.8		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		40.4	86.3	86.3	82.0	27.3	4.3		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		38.8	88.3	88.3	82.0	27.3	4.4		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		46.1	121.0	121.0	82.0	27.3	6.1		
Elk Valley	WCT	Clode Pond	Clode Pond	2005		50.4	140.0	140.0	82.0	27.3	7.0		
Elk Valley	WCT	Clode Pond	Clode Pond	2006		37.0	65.2	65.2	58.0	19.3	3.3	19.3	4.3
Elk Valley	WCT	Clode Pond	Clode Pond	2006		61.6	68.3	68.3	58.0	19.3	3.4		
Elk Valley	WCT	Clode Pond	Clode Pond	2006		72.1	72.6	72.6	58.0	19.3	3.6		
Elk Valley	WCT	Clode Pond	Clode Pond	2006		64.2	101.9	101.9	58.0	19.3	5.1		
Elk Valley	WCT	Clode Pond	Clode Pond	2006		76.4	107.0	107.0	58.0	19.3	5.4		
Elk Valley	WCT	Clode Pond	Clode Pond	2006		35.2	111.8	111.8	58.0	19.3	5.6		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			19.5	19.5	41.6	13.9	1.0	13.9	2.3
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			19.7	19.7	41.6	13.9	1.0		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			31.5	31.5	41.6	13.9	1.6		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			47.5	47.5	41.6	13.9	2.4		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			48.9	48.9	41.6	13.9	2.4		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			54.3	54.3	41.6	13.9	2.7		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			61.1	61.1	41.6	13.9	3.1		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			61.1	61.1	41.6	13.9	3.1		

Table S8. Co-located fish Se and waterborne Se concentrations used to validate the lentic water Se screening guideline of 3.0 µg/L. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lentic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			84.8	84.8	41.6	13.9	4.2		
Elk Valley	WCT	Clode Pond	Clode Pond Outlet	2008			91.7	91.7	41.6	13.9	4.6		
Elk Valley	WCT	Clode Pond	Clode Pond	2009		41.5	41.3	41.3	65.4	21.8	2.1	21.8	4.2
Elk Valley	WCT	Clode Pond	Clode Pond	2009		33.0	45.6	45.6	65.4	21.8	2.3		
Elk Valley	WCT	Clode Pond	Clode Pond	2009		65.4	104.1	104.1	65.4	21.8	5.2		
Elk Valley	WCT	Clode Pond	Clode Pond	2009		92.4		186.5	65.4	21.8	9.3		
Elk Valley	WCT	Clode Pond	Clode Pond	2009		61.8		119.6	65.4	21.8	6.0		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			49.1	49.1	70.0	23.3	2.5	23.3	3.3
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			54.5	54.5	70.0	23.3	2.7		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			55.1	55.1	70.0	23.3	2.8		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			57.5	57.5	70.0	23.3	2.9		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			73.3	73.3	70.0	23.3	3.7		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			73.9	73.9	70.0	23.3	3.7		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			76.8	76.8	70.0	23.3	3.8		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			84.6	84.6	70.0	23.3	4.2		
Elk Valley	WCT	Clode East Pond	Clode East Pond	2008			90.4	90.4	70.0	23.3	4.5		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			3.3	3.3	41.6	13.9	0.2	13.9	3.3
Elk Valley	WCT	Clode Creek	Clode Creek	2008			39.2	39.2	41.6	13.9	2.0		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			43.5	43.5	41.6	13.9	2.2		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			55.6	55.6	41.6	13.9	2.8		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			56.1	56.1	41.6	13.9	2.8		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			57.9	57.9	41.6	13.9	2.9		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			61.4	61.4	41.6	13.9	3.1		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			63.6	63.6	41.6	13.9	3.2		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			64.7	64.7	41.6	13.9	3.2		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			67.1	67.1	41.6	13.9	3.4		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			67.8	67.8	41.6	13.9	3.4		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			70.3	70.3	41.6	13.9	3.5		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			72.1	72.1	41.6	13.9	3.6		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			75.4	75.4	41.6	13.9	3.8		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			75.9	75.9	41.6	13.9	3.8		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			76.2	76.2	41.6	13.9	3.8		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			79.4	79.4	41.6	13.9	4.0		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			79.7	79.7	41.6	13.9	4.0		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			85.4	85.4	41.6	13.9	4.3		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			89.6	89.6	41.6	13.9	4.5		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			92.2	92.2	41.6	13.9	4.6		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			95.5	95.5	41.6	13.9	4.8		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			108.2	108.2	41.6	13.9	5.4		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			112.4	112.4	41.6	13.9	5.6		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			122.3	122.3	41.6	13.9	6.1		
Elk Valley	WCT	Clode Creek	Clode Creek	2008			158.9	158.9	41.6	13.9	7.9		
Elk Valley	WCT	Barnes Lake	Barnes Lake	2002		6.4		9.9	1.0	0.3	0.5	0.3	0.3
Elk Valley	WCT	Barnes Lake	Barnes Lake	2002		4.5		6.7	1.0	0.3	0.3		
Elk Valley	WCT	Barnes Lake	Barnes Lake	2002		3.0		4.3	1.0	0.3	0.2		

Table S8. Co-located fish Se and waterborne Se concentrations used to validate the lentic water Se screening guideline of 3.0 µg/L. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Water Se (µg/L)	Ratio of Water Se to Lentic Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
Elk Valley	WCT	Barnes Lake	Barnes Lake	2006		9.4	4.6	4.6	1.0	0.3	0.2	0.3	0.4
Elk Valley	WCT	Barnes Lake	Barnes Lake	2006		7.7	6.3	6.3	1.0	0.3	0.3		
Elk Valley	WCT	Barnes Lake	Barnes Lake	2006		11.5	6.3	6.3	1.0	0.3	0.3		
Elk Valley	WCT	Barnes Lake	Barnes Lake	2006		6.0	9.6	9.6	1.0	0.3	0.5		
Elk Valley	WCT	Barnes Lake	Barnes Lake	2006		10.5	11.5	11.5	1.0	0.3	0.6		
NW BC (Smithers)	BT	Attichika wetlands		2009		27.1		94.9	6.0	2.0	4.7	2.0	4.7
NW BC (Smithers)	DV	Attichika wetlands		2009		85.2		72.8	6.0	2.0	3.6	2.0	2.5
NW BC (Smithers)	DV	Attichika wetlands		2009		55.7		53.0	6.0	2.0	2.6		
NW BC (Smithers)	DV	Attichika wetlands		2009		27.6		31.3	6.0	2.0	1.6		
NW BC (Smithers)	RBT	Attichika wetlands		2009		47.1		195.9	6.0	2.0	9.8	2.0	7.5
NW BC (Smithers)	RBT	Attichika wetlands		2009		28.6		116.0	6.0	2.0	5.8		

[1] When measured fish egg or ovary Se concentrations were not available they were predicted from WB or muscle Se concentrations using the regression relationships provided in Table S9.
BG = bluegill
BT = bull trout
DV = Dolly Varden
KKN = kokanee
LMB = largemouth bass
LNS = longnose sucker
LSS = largescale sucker
NP = northern pike
PMC = peamouth chub
RBT = rainbow trout
WCT = westslope cutthroat trout
WS = white sucker
WB = whole body

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Table S9. Co-located fish Se, waterborne Se, and waterborne SO_4 concentrations used to validate the SO_4-dependent water Se screening guideline. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	YCT	Angus Creek	near mouth	2000	6.3			11.5	11.79	6.0	22.5	6.5	0.92	0.58	0.51	0.59
SE Idaho	YCT	Angus Creek	near mouth	2000	6.7			12.0		0.6	27.5	6.5	0.09	0.60		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2007	2.5			8.6	10.58	0.7	7.5	6.5	0.11	0.43	0.11	0.53
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2007	2.6			9.1		0.7	7.5	6.5	0.11	0.46		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2007	2.7			9.3		0.7	7.5	6.5	0.11	0.46		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2007	3.1			10.8		0.7	7.5	6.5	0.11	0.54		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2007	4.3			15.0		0.7	7.5	6.5	0.11	0.75		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2008	3.2			11.3	15.61	0.9	8.5	6.5	0.14	0.57	0.14	0.78
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2008		4.3		15.1		0.9	8.5	6.5	0.14	0.75		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2008		4.4		15.4		0.9	8.5	6.5	0.14	0.77		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2008	4.9			17.1		0.9	8.5	6.5	0.14	0.86		
NW BC (Smithers)	BT	Attichika Creek	d/s of WRC confluence	2008	5.5			19.2		0.9	8.5	6.5	0.14	0.96		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence	2007	3.0			6.0	8.27	0.7	7.5	6.5	0.11	0.30	0.11	0.41
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence	2007	3.8			7.0		0.7	7.5	6.5	0.11	0.35		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence	2007	4.1			7.5		0.7	7.5	6.5	0.11	0.38		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence	2007	5.4			9.2		0.7	7.5	6.5	0.11	0.46		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence	2007	5.7			9.6		0.7	7.5	6.5	0.11	0.48		
NW BC (Smithers)	DV	Attichika Creek	d/s of WRC confluence	2008		6.2		10.2		0.9	8.5	6.5	0.14	0.51		
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence	2007	3.0			10.8	12.11	0.7	7.5	6.5	0.11	0.54	0.11	0.61
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence	2007	3.1			11.3		0.7	7.5	6.5	0.11	0.56		
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence	2007	3.1			11.3		0.7	7.5	6.5	0.11	0.57		
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence	2007	3.4			12.5		0.7	7.5	6.5	0.11	0.62		
NW BC (Smithers)	RBT	Attichika Creek	d/s of WRC confluence	2007	3.9			14.6		0.7	7.5	6.5	0.11	0.73		
Peace River	BT	Babcock Creek	at Gordon Ck confluence	2004	3.6			12.5	14.67	0.6	16.5	6.5	0.09	0.62	0.09	0.73
Peace River	BT	Babcock Creek	at Gordon Ck confluence	2004	3.8			13.1		0.6	16.5	6.5	0.09	0.66		
Peace River	BT	Babcock Creek	at Gordon Ck confluence	2004	5.3			18.4		0.6	16.5	6.5	0.09	0.92		
Indiana	BG	Campaign Creek	tributary to Ohio River	1994	2.8			6.9	6.87	5.0	138.0	33.1	0.15	0.34	0.15	0.34
West Virginia	BG	Conner Run	1.5 km u/s confluence	2007	5.6			14.6	74.65	160.0	969.0	495.5	0.32	0.73	0.36	3.73
West Virginia	BG	Conner Run	1.5 km u/s confluence	2007	41.4			134.7		137.0	734.0	336.9	0.41	6.73		
West Virginia	BG	Conner Run	1.5 km u/s confluence	2008	11.6			33.0	33.05	57.8	794.0	375.7	0.15	1.65	0.15	1.65
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	8.2			12.0	16.23	2.9	24.7	6.5	0.45	0.60	0.45	0.81
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	9.1			13.8		3.0	17.5	6.5	0.46	0.69		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	9.3			14.0		2.9	24.7	6.5	0.45	0.70		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	10.0			15.3		3.0	17.5	6.5	0.46	0.76		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	11.9			18.8		2.9	24.7	6.5	0.45	0.94		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2006	14.3			23.6		3.0	17.5	6.5	0.46	1.18		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	5.3			7.2	15.03	3.6	36.5	6.5	0.55	0.36	0.24	0.75
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.3			8.8		1.4	35.0	6.5	0.22	0.44		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.3			8.8		3.6	36.5	6.5	0.55	0.44		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.4			9.0		1.4	34.9	6.5	0.22	0.45		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	6.4			9.0		3.6	36.5	6.5	0.55	0.45		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.1			10.2		1.4	35.0	6.5	0.22	0.51		

Table S9. Co-located fish Se, waterborne Se, and waterborne SO_4 concentrations used to validate the SO_4-dependent water Se screening guideline. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.4			10.7		1.6	22.4	6.5	0.25	0.54		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.5			10.9		1.3	29.9	6.5	0.20	0.54		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.8			11.4		1.4	35.0	6.5	0.22	0.57		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	7.8			11.4		1.1	35.8	6.5	0.17	0.57		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.0			11.7		1.3	29.9	6.5	0.20	0.59		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.0			11.7		3.6	36.5	6.5	0.55	0.59		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.4			12.5		1.4	35.0	6.5	0.22	0.62		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.6			12.8		1.3	29.9	6.5	0.20	0.64		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.7			13.0		1.4	34.9	6.5	0.22	0.65		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.9			13.3		1.1	35.8	6.5	0.17	0.67		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	8.9			13.3		1.1	35.8	6.5	0.17	0.67		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.1			13.7		1.4	35.0	6.5	0.22	0.68		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.1			13.7		1.1	35.8	6.5	0.17	0.68		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.1			13.7		1.1	35.8	6.5	0.17	0.68		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	9.5			14.4		1.4	35.0	6.5	0.22	0.72		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.3			15.9		1.1	35.8	6.5	0.17	0.79		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.4			16.1		1.4	35.0	6.5	0.22	0.80		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.6			16.4		1.1	35.8	6.5	0.17	0.82		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	10.7			16.6		1.6	22.4	6.5	0.25	0.83		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	11.0			17.2		1.1	35.8	6.5	0.17	0.86		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	11.6			18.3		1.4	35.0	6.5	0.22	0.91		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	11.9			18.9		1.4	35.0	6.5	0.22	0.94		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	12.5			20.0		1.4	35.0	6.5	0.22	1.00		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	12.7			20.4		1.3	29.9	6.5	0.20	1.02		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	13.4			21.7		1.1	35.8	6.5	0.17	1.09		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	13.7			22.3		1.1	35.8	6.5	0.17	1.12		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	13.8			22.5		1.1	35.8	6.5	0.17	1.13		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	14.0			22.9		1.1	35.8	6.5	0.17	1.14		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	14.8			24.5		1.4	35.0	6.5	0.22	1.22		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2007	15.6			26.1		1.1	35.8	6.5	0.17	1.30		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	8.0			11.8	28.10	6.5	31.4	6.5	1.00	0.59	0.81	1.41
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	11.3			17.7		6.5	31.4	6.5	1.00	0.89		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	11.8			18.7		6.5	31.4	6.5	1.00	0.93		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	13.2			21.3		6.5	31.4	6.5	1.00	1.07		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	13.5			21.9		6.5	31.4	6.5	1.00	1.10		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	13.8			22.5		6.5	31.4	6.5	1.00	1.13		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	14.4			23.7		6.5	31.4	6.5	1.00	1.18		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.0			24.9		3.6	32.1	6.5	0.55	1.24		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.1			25.1		3.6	32.1	6.5	0.55	1.25		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.4			25.7		6.5	31.4	6.5	1.00	1.28		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.6			26.1		3.6	32.1	6.5	0.55	1.30		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.8			26.4		3.6	32.1	6.5	0.55	1.32		

Table S9. Co-located fish Se, waterborne Se, and waterborne SO_4 concentrations used to validate the SO_4-dependent water Se screening guideline. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	15.9			26.6		6.5	31.4	6.5	1.00	1.33		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	16.3			27.5		5.8	32.1	6.5	0.89	1.37		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	16.4			27.7		3.2	31.4	6.5	0.49	1.38		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	17.2			29.3		3.2	31.4	6.5	0.49	1.46		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	17.6			30.1		3.2	31.4	6.5	0.49	1.50		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	18.2			31.3		3.2	31.4	6.5	0.49	1.57		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	18.3			31.5		3.2	31.4	6.5	0.49	1.58		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	18.3			31.5		5.8	32.1	6.5	0.89	1.58		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	19.1			33.2		5.8	32.1	6.5	0.89	1.66		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	19.2			33.4		5.8	32.1	6.5	0.89	1.67		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	19.8			34.6		5.8	32.1	6.5	0.89	1.73		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	20.2			35.5		5.8	32.1	6.5	0.89	1.77		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	21.3			37.8		5.8	32.1	6.5	0.89	1.89		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	23.0			41.4		6.5	31.4	6.5	1.00	2.07		
SE Idaho	BNTR	Crow Creek	D/S of Sage Creek	2008	23.2			41.8		5.8	32.1	6.5	0.89	2.09		
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2006	8.3			14.0	16.45	3.0	17.5	6.5	0.46	0.70	0.45	0.82
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2006	12.7			18.9		2.9	24.7	6.5	0.45	0.94		
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2007	9.9			15.8	15.83	1.6	22.4	6.5	0.25	0.79	0.25	0.79
SE Idaho	YCT	Crow Creek	D/S of Sage Creek	2008	13.4			19.6	19.58	3.2	31.4	6.5	0.49	0.98	0.49	0.98
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	3.5			4.4	7.35	0.5	24.6	6.5	0.08	0.22	0.09	0.37
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	4.1			5.3		0.5	24.6	6.5	0.08	0.27		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	4.6			6.0		0.5	24.6	6.5	0.08	0.30		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	4.8			6.3		0.6	11.8	6.5	0.09	0.32		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	5.0			6.6		0.6	11.8	6.5	0.09	0.33		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	5.9			8.2		0.6	11.8	6.5	0.09	0.41		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	7.4			10.7		0.8	16.1	6.5	0.12	0.54		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2006	7.7			11.2		0.6	11.8	6.5	0.09	0.56		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.6			3.1	7.47	0.3	25.5	6.5	0.05	0.15	0.07	0.37
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.7			3.2		0.3	25.5	6.5	0.05	0.16		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.8			3.4		0.3	25.5	6.5	0.05	0.17		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.9			3.5		0.3	25.5	6.5	0.05	0.18		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	2.9			3.5		0.3	25.5	6.5	0.05	0.18		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.1			3.8		0.3	25.5	6.5	0.05	0.19		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.2			3.9		0.3	25.5	6.5	0.05	0.20		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.5			4.4		0.3	25.5	6.5	0.05	0.22		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.6			4.5		0.3	25.5	6.5	0.05	0.23		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	3.6			4.5		0.3	25.5	6.5	0.05	0.23		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.1			5.3		0.3	25.5	6.5	0.05	0.26		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.3			5.6		0.6	12.6	6.5	0.09	0.28		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.6			6.1		0.2	17.8	6.5	0.03	0.30		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.7			6.2		0.6	12.6	6.5	0.09	0.31		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	4.8			6.4		0.5	24.6	6.5	0.08	0.32		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.4			7.4		0.6	12.6	6.5	0.09	0.37		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.5			7.5		0.2	18.5	6.5	0.03	0.38		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.6			7.7		0.6	12.6	6.5	0.09	0.38		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.6			7.7		0.6	12.6	6.5	0.09	0.38		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.7			7.8		0.2	17.8	6.5	0.03	0.39		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	5.9			8.2		0.6	12.6	6.5	0.09	0.41		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.0			8.3		0.6	12.6	6.5	0.09	0.42		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.0			8.3		0.2	17.8	6.5	0.03	0.42		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.1			8.5		0.6	12.6	6.5	0.09	0.43		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	6.7			9.5		0.6	12.6	6.5	0.09	0.48		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	7.0			10.0		0.6	12.6	6.5	0.09	0.50		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	7.2			10.4		0.6	12.6	6.5	0.09	0.52		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.0			11.7		0.8	14.4	6.5	0.12	0.59		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.0			11.7		0.8	14.4	6.5	0.12	0.59		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.4			12.5		0.6	12.6	6.5	0.09	0.62		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	8.5			12.6		0.2	18.5	6.5	0.03	0.63		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	9.2			13.9		0.2	18.5	6.5	0.03	0.69		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2007	10.0			15.3		0.8	14.4	6.5	0.12	0.77		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	4.3			5.6	12.20	1.5	24.7	6.5	0.23	0.28	0.24	0.61
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	4.7			6.2		1.5	24.7	6.5	0.23	0.31		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	5.0			6.8		1.2	23.7	6.5	0.18	0.34		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	5.1			6.9		2.3	17.8	6.5	0.35	0.35		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	5.3			7.1		1.2	24.7	6.5	0.18	0.36		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.1			8.6		2.3	17.8	6.5	0.35	0.43		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.2			8.7		1.5	24.7	6.5	0.23	0.44		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.6			9.4		1.5	24.7	6.5	0.23	0.47		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.6			9.4		1.2	23.7	6.5	0.18	0.47		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	6.7			9.5		1.5	24.7	6.5	0.23	0.48		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	7.0			9.9		1.5	24.7	6.5	0.23	0.50		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	7.9			11.5		1.5	24.7	6.5	0.23	0.57		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.2			12.0		1.2	23.7	6.5	0.18	0.60		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.2			12.1		2.3	17.8	6.5	0.35	0.60		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.4			12.5		2.3	17.8	6.5	0.35	0.62		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.6			12.8		1.8	17.8	6.5	0.28	0.64		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	8.7			13.0		1.2	23.7	6.5	0.18	0.65		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.1			13.6		1.8	17.8	6.5	0.28	0.68		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.4			14.2		1.5	24.7	6.5	0.23	0.71		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.9			15.2		2.3	17.8	6.5	0.35	0.76		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	9.9			15.2		1.2	24.7	6.5	0.18	0.76		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	10.2			15.7		1.2	24.7	6.5	0.18	0.78		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	10.4			16.1		1.2	23.7	6.5	0.18	0.80		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	10.6			16.4		1.2	23.7	6.5	0.18	0.82		

Table S9. Co-located fish Se, waterborne Se, and waterborne SO_4 concentrations used to validate the SO_4-dependent water Se screening guideline. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	11.8			18.7		1.8	17.8	6.5	0.28	0.93		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	13.0			21.0		1.2	24.7	6.5	0.18	1.05		
SE Idaho	BNTR	Crow Creek	U/S of Sage Creek	2008	13.2			21.3		1.2	24.7	6.5	0.18	1.07		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	4.0			8.4	10.33	0.5	24.6	6.5	0.08	0.42	0.10	0.52
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	4.6			9.3		0.8	16.1	6.5	0.12	0.46		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	6.3			11.5		0.5	24.6	6.5	0.08	0.57		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2006	6.8			12.2		0.8	16.1	6.5	0.12	0.61		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	5.9			11.0	13.19	0.5	24.6	6.5	0.08	0.55	0.10	0.66
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	6.8			12.2		0.2	17.8	6.5	0.03	0.61		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	7.4			12.9		0.8	18.4	6.5	0.12	0.65		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	8.5			14.2		0.8	18.4	6.5	0.12	0.71		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2007	9.7			15.6		0.8	18.4	6.5	0.12	0.78		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	2.5			6.1	14.07	2.3	17.8	6.5	0.35	0.30	0.26	0.70
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	5.0			9.8		1.2	23.7	6.5	0.18	0.49		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	5.6			10.6		2.3	17.8	6.5	0.35	0.53		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	5.7			10.8		1.5	24.7	6.5	0.23	0.54		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	7.6			13.1		1.5	24.7	6.5	0.23	0.66		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	7.6			13.2		1.2	23.7	6.5	0.18	0.66		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	8.3			14.0		2.3	17.8	6.5	0.35	0.70		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	8.5			14.2		1.2	23.7	6.5	0.18	0.71		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	8.9			14.6		1.2	23.7	6.5	0.18	0.73		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	9.1			14.9		1.8	17.8	6.5	0.28	0.74		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	10.7			16.7		2.3	17.8	6.5	0.35	0.84		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	10.9			16.9		1.0	23.7	6.5	0.15	0.85		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	12.1			18.2		1.0	23.7	6.5	0.15	0.91		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	12.2			18.3		1.8	17.8	6.5	0.28	0.92		
SE Idaho	YCT	Crow Creek	U/S of Sage Creek	2008	13.5			19.7		2.3	17.8	6.5	0.35	0.98		
Saskatchewan	NP	Davies Creek	Davies Creek		1.2	1.0	2.7	2.7	3.07	0.5	0.3	6.5	0.08	0.13	0.08	0.15
Saskatchewan	NP	Davies Creek	Davies Creek		2.0	1.9	2.7	2.7		0.5	0.3	6.5	0.08	0.14		
Saskatchewan	NP	Davies Creek	Davies Creek		1.0	0.9	3.0	3.0		0.5	0.3	6.5	0.08	0.15		
Saskatchewan	NP	Davies Creek	Davies Creek		2.7	2.6	3.2	3.2		0.5	0.3	6.5	0.08	0.16		
Saskatchewan	NP	Davies Creek	Davies Creek		1.5	1.4	3.7	3.7		0.5	0.3	6.5	0.08	0.19		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	8.1			13.7	14.27	1.4	9.0	6.5	0.22	0.68	0.22	0.71
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	8.3			14.0		1.4	9.0	6.5	0.22	0.70		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	8.4			14.1		1.4	9.0	6.5	0.22	0.70		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2006	9.4			15.3		1.4	9.0	6.5	0.22	0.77		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.1			8.5	11.02	1.8	9.0	6.5	0.28	0.43	0.28	0.55
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.3			8.8		1.9	9.0	6.5	0.29	0.44		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.3			8.8		1.8	9.0	6.5	0.28	0.44		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.8			9.5		1.9	9.0	6.5	0.29	0.48		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	4.8			9.5		1.8	9.0	6.5	0.28	0.48		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	5.3			10.2		1.8	9.0	6.5	0.28	0.51		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	5.9			11.0		1.8	9.0	6.5	0.28	0.55		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.1			11.3		1.9	9.0	6.5	0.29	0.56		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.5			11.8		1.8	9.0	6.5	0.28	0.59		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.9			12.3		1.9	9.0	6.5	0.29	0.61		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	6.9			12.3		1.8	9.0	6.5	0.28	0.61		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	7.2			12.7		1.8	9.0	6.5	0.28	0.63		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	7.5			13.0		1.9	9.0	6.5	0.29	0.65		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2007	8.7			14.5		1.8	9.0	6.5	0.28	0.72		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	6.4			11.6	17.33	3.1	9.0	6.5	0.48	0.58	0.38	0.87
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	7.1			12.5		3.1	9.0	6.5	0.48	0.63		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	8.4			14.1		3.1	9.0	6.5	0.48	0.71		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	8.7			14.4		3.1	9.0	6.5	0.48	0.72		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.3			15.1		1.5	9.0	6.5	0.23	0.76		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.6			15.5		3.1	9.0	6.5	0.48	0.78		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.8			15.7		3.1	9.0	6.5	0.48	0.78		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	9.8			15.7		3.1	9.0	6.5	0.48	0.79		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	11.8			17.9		1.5	9.0	6.5	0.23	0.90		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	12.1			18.2		3.1	9.0	6.5	0.48	0.91		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	13.1			19.3		1.5	9.0	6.5	0.23	0.96		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.1			20.3		1.5	9.0	6.5	0.23	1.01		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.3			20.5		1.5	9.0	6.5	0.23	1.02		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.4			20.6		1.5	9.0	6.5	0.23	1.03		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	14.9			21.1		3.1	9.0	6.5	0.48	1.05		
SE Idaho	YCT	Deer Creek	U/S of Sage Creek	2008	18.7			24.7		3.1	9.0	6.5	0.48	1.24		
SE Idaho	BKT	Dry Valley Creek		2000	8.0			8.0	7.96	8.0	52.5	8.6	0.93	0.40	0.93	0.40
SE Idaho	YCT	Dry Valley Creek		2000	10.2			16.2	19.46	8.0	52.5	8.6	0.93	0.81	0.48	0.97
SE Idaho	YCT	Dry Valley Creek		2000	16.6			22.7		0.5	96.0	20.0	0.03	1.14		
SE Idaho	YCT	East Mill Creek	Lower	2000	52.3			50.8	50.84	24.0	7.7	6.5	3.69	2.54	3.69	2.54
SE Idaho	BKT	East Mill Creek	Upper	2000	42.7			30.7	30.67	29.9	13.2	6.5	4.60	1.53	4.60	1.53
SE Idaho	YCT	East Mill Creek	Upper	2000	24.3			29.7	30.85	29.9	13.2	6.5	4.60	1.49	4.15	1.54
SE Idaho	YCT	East Mill Creek	Upper	2000	27.0			32.0		24.0	7.6	6.5	3.69	1.60		
Elk Valley	BT	Fording River	d/s Line Creek	2009		4.4	12.5	12.5	14.50	25.9	130.0	30.4	0.85	0.62	0.85	0.72
Elk Valley	BT	Fording River	d/s Line Creek	2009		4.1	12.7	12.7		25.9	130.0	30.4	0.85	0.63		
Elk Valley	BT	Fording River	d/s Line Creek	2009		4.8	13.4	13.4		25.9	130.0	30.4	0.85	0.67		
Elk Valley	BT	Fording River	d/s Line Creek	2009		3.6	15.0	15.0		25.9	130.0	30.4	0.85	0.75		
Elk Valley	BT	Fording River	d/s Line Creek	2009		4.0	19.0	19.0		25.9	130.0	30.4	0.85	0.95		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		5.8	10.5	10.5	15.85	25.9	130.0	30.4	0.85	0.52	0.85	0.79
Elk Valley	WCT	Fording River	d/s Line Creek	2009		7.6	11.5	11.5		25.9	130.0	30.4	0.85	0.57		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		8.2	14.5	14.5		25.9	130.0	30.4	0.85	0.72		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		7.1	14.9	14.9		25.9	130.0	30.4	0.85	0.75		
Elk Valley	WCT	Fording River	d/s Line Creek	2009	7.6		15.0	15.0		25.6	130.0	30.4	0.84	0.75		
Elk Valley	WCT	Fording River	d/s Line Creek	2009	7.9		17.0	17.0		25.6	130.0	30.4	0.84	0.85		

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Elk Valley	WCT	Fording River	d/s Line Creek	2009	8.0		17.0	17.0		25.6	130.0	30.4	0.84	0.85		
Elk Valley	WCT	Fording River	d/s Line Creek	2009		19.5	26.5	26.5		25.9	130.0	30.4	0.85	1.33		
SE Idaho	BNTR	Hoopes Spring		2006	14.1			23.0	32.77	17.4	47.2	7.4	2.34	1.15	1.95	1.64
SE Idaho	BNTR	Hoopes Spring		2006	15.5			25.8		17.4	47.2	7.4	2.34	1.29		
SE Idaho	BNTR	Hoopes Spring		2006	17.5			29.9		10.8	39.1	6.5	1.66	1.50		
SE Idaho	BNTR	Hoopes Spring		2006	18.8			32.6		10.8	39.1	6.5	1.66	1.63		
SE Idaho	BNTR	Hoopes Spring		2006	20.0			35.0		17.4	47.2	7.4	2.34	1.75		
SE Idaho	BNTR	Hoopes Spring		2006	20.4			35.9		10.8	39.1	6.5	1.66	1.80		
SE Idaho	BNTR	Hoopes Spring		2006	25.6			47.1		10.8	39.1	6.5	1.66	2.35		
SE Idaho	BNTR	Hoopes Spring		2007	12.2			19.4	34.90	15.8	42.0	6.5	2.43	0.97	2.77	1.74
SE Idaho	BNTR	Hoopes Spring		2007	13.7			22.3		15.8	42.0	6.5	2.43	1.12		
SE Idaho	BNTR	Hoopes Spring		2007	14.2			23.3		15.8	42.0	6.5	2.43	1.16		
SE Idaho	BNTR	Hoopes Spring		2007	14.7			24.3		19.8	44.3	6.8	2.90	1.21		
SE Idaho	BNTR	Hoopes Spring		2007	16.2			27.2		15.8	42.0	6.5	2.43	1.36		
SE Idaho	BNTR	Hoopes Spring		2007	16.3			27.5		15.8	42.0	6.5	2.43	1.37		
SE Idaho	BNTR	Hoopes Spring		2007	17.2			29.3		19.8	44.3	6.8	2.90	1.46		
SE Idaho	BNTR	Hoopes Spring		2007	18.3			31.5		15.8	42.0	6.5	2.43	1.58		
SE Idaho	BNTR	Hoopes Spring		2007	18.4			31.7		15.8	42.0	6.5	2.43	1.59		
SE Idaho	BNTR	Hoopes Spring		2007	19.3			33.6		15.8	42.0	6.5	2.43	1.68		
SE Idaho	BNTR	Hoopes Spring		2007	19.7			34.4		15.8	42.0	6.5	2.43	1.72		
SE Idaho	BNTR	Hoopes Spring		2007	21.0			37.1		24.2	46.5	7.3	3.32	1.86		
SE Idaho	BNTR	Hoopes Spring		2007	21.4			38.0		19.8	44.3	6.8	2.90	1.90		
SE Idaho	BNTR	Hoopes Spring		2007	22.0			39.3		19.8	44.3	6.8	2.90	1.96		
SE Idaho	BNTR	Hoopes Spring		2007	22.7			40.7		24.2	46.5	7.3	3.32	2.04		
SE Idaho	BNTR	Hoopes Spring		2007	24.1			43.8		15.8	42.0	6.5	2.43	2.19		
SE Idaho	BNTR	Hoopes Spring		2007	24.4			44.4		15.8	42.0	6.5	2.43	2.22		
SE Idaho	BNTR	Hoopes Spring		2007	25.0			45.7		30.1	48.7	7.8	3.87	2.29		
SE Idaho	BNTR	Hoopes Spring		2007	27.1			50.3		24.2	46.5	7.3	3.32	2.52		
SE Idaho	BNTR	Hoopes Spring		2007	28.8			54.1		24.2	46.5	7.3	3.32	2.71		
SE Idaho	BNTR	Hoopes Spring		2008	22.8			41.0	55.45	50.2	49.8	8.0	6.26	2.05	5.40	2.77
SE Idaho	BNTR	Hoopes Spring		2008	24.3			44.2		40.2	43.2	6.6	6.10	2.21		
SE Idaho	BNTR	Hoopes Spring		2008	24.9			45.5		40.2	43.2	6.6	6.10	2.27		
SE Idaho	BNTR	Hoopes Spring		2008	25.3			46.4		40.2	43.2	6.6	6.10	2.32		
SE Idaho	BNTR	Hoopes Spring		2008	26.3			48.6		22.3	43.2	6.6	3.39	2.43		
SE Idaho	BNTR	Hoopes Spring		2008	26.9			49.9		40.2	43.2	6.6	6.10	2.49		
SE Idaho	BNTR	Hoopes Spring		2008	28.0			52.3		40.2	43.2	6.6	6.10	2.62		
SE Idaho	BNTR	Hoopes Spring		2008	28.1			52.6		40.2	43.2	6.6	6.10	2.63		
SE Idaho	BNTR	Hoopes Spring		2008	28.2			52.8		29.6	49.8	8.0	3.69	2.64		
SE Idaho	BNTR	Hoopes Spring		2008	30.8			58.6		29.6	49.8	8.0	3.69	2.93		
SE Idaho	BNTR	Hoopes Spring		2008	32.2			61.8		40.2	43.2	6.6	6.10	3.09		
SE Idaho	BNTR	Hoopes Spring		2008	35.2			68.8		40.2	43.2	6.6	6.10	3.44		
SE Idaho	BNTR	Hoopes Spring		2008	38.5			76.5		40.2	43.2	6.6	6.10	3.83		

Table S9. Co-located fish Se, waterborne Se, and waterborne SO_4 concentrations used to validate the SO_4-dependent water Se screening guideline. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Hoopes Spring		2008	38.9			77.5		29.6	49.8	8.0	3.69	3.87		
SE Idaho	YCT	Hoopes Spring		2008	17.8			23.9	29.07	22.3	43.2	6.6	3.39	1.19	3.84	1.45
SE Idaho	YCT	Hoopes Spring		2008	19.8			25.7		22.3	43.2	6.6	3.39	1.29		
SE Idaho	YCT	Hoopes Spring		2008	20.9			26.7		22.3	43.2	6.6	3.39	1.34		
SE Idaho	YCT	Hoopes Spring		2008	26.0			31.2		22.3	43.2	6.6	3.39	1.56		
SE Idaho	YCT	Hoopes Spring		2008	26.3			31.4		40.2	43.2	6.6	6.10	1.57		
SE Idaho	YCT	Hoopes Spring		2008	31.3			35.5		22.3	43.2	6.6	3.39	1.77		
West Virginia	BG	Kanawha River	upstream St. Albans, WV.	2007	2.8			6.9	6.90	0.5	37.0	6.5	0.08	0.35	0.08	0.35
West Virginia	BG	Little Scary Creek	Tributary of Kanawha River	1996			23.4	23.4	23.38	32.0	145.0	35.4	0.90	1.17	0.90	1.17
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		2.5		5.2	5.18	0.5	11.7	6.5	0.08	0.26	0.08	0.26
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		2.8	5.4	5.4	8.61	0.5	11.7	6.5	0.08	0.27	0.08	0.43
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		3.0		5.9		0.5	11.7	6.5	0.08	0.29		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		3.5		6.7		0.5	11.7	6.5	0.08	0.34		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		9.9	7.0	7.0		0.5	11.7	6.5	0.08	0.35		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		3.4	8.4	8.4		0.5	11.7	6.5	0.08	0.42		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		5.3	9.6	9.6		0.5	11.7	6.5	0.08	0.48		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		4.9	10.5	10.5		0.5	11.7	6.5	0.08	0.53		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		6.6	11.0	11.0		0.5	11.7	6.5	0.08	0.55		
NW BC (Smithers)	DV	North Kemess Creek	U/S of confluence	2008		8.4		12.8		0.5	11.7	6.5	0.08	0.64		
Ohio	BG	Ohio River	RM 260 near Cheshire, Ohio	1995			3.8	3.8	3.78	1.0	104.0	22.3	0.04	0.19	0.04	0.19
Indiana	BG	Ohio River	RM 495 near Lawrenceburg	2007	3.2			7.9	7.94	1.0	88.0	17.7	0.06	0.40	0.06	0.40
Indiana	LMB	Ohio River	RM 495 near Lawrenceburg	2007	2.6			7.8	7.81	1.0	88.0	17.7	0.06	0.39	0.06	0.39
Peace River	BT	Perry Creek	Perry Creek (lower reach	2004		3.4		11.8	13.04	1.1	13.5	6.5	0.17	0.59	0.17	0.65
Peace River	BT	Perry Creek	Perry Creek (lower reach	2004		3.9		13.7		1.1	13.5	6.5	0.17	0.68		
Peace River	BT	Perry Creek	Perry Creek (lower reach	2004		3.9		13.7		1.1	13.5	6.5	0.17	0.68		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	4.5			8.0	11.78	0.5	6.3	6.5	0.08	0.40	0.08	0.59
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	5.6			9.4		0.5	6.3	6.5	0.08	0.47		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	6.5			10.5		0.5	6.3	6.5	0.08	0.53		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	6.6			10.8		0.5	6.3	6.5	0.08	0.54		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	7.1			11.3		0.5	6.3	6.5	0.08	0.57		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	8.0			12.4		0.5	6.3	6.5	0.08	0.62		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	8.1			12.4		0.5	6.3	6.5	0.08	0.62		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	8.5			13.0		0.5	6.3	6.5	0.08	0.65		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	10.1			14.7		0.5	6.3	6.5	0.08	0.74		
NW BC (Smithers)	DV	Reference Creek	Reference/Diversion Creek	2006	10.5			15.2		0.5	6.3	6.5	0.08	0.76		
SE Idaho	BNTR	Sage Creek		2006	15.1			25.0	31.27	7.0	29.0	6.5	1.08	1.25	1.31	1.56
SE Idaho	BNTR	Sage Creek		2006	15.3			25.5		7.0	29.0	6.5	1.08	1.28		
SE Idaho	BNTR	Sage Creek		2006	15.5			25.8		7.0	29.0	6.5	1.08	1.29		
SE Idaho	BNTR	Sage Creek		2006	16.0			26.8		9.5	38.0	6.5	1.46	1.34		
SE Idaho	BNTR	Sage Creek		2006	18.1			31.2		9.5	38.0	6.5	1.46	1.56		
SE Idaho	BNTR	Sage Creek		2006	18.9			32.8		7.0	29.0	6.5	1.08	1.64		
SE Idaho	BNTR	Sage Creek		2006	19.4			33.8		9.5	38.0	6.5	1.46	1.69		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	BNTR	Sage Creek		2006	19.5			34.0		9.5	38.0	6.5	1.46	1.70		
SE Idaho	BNTR	Sage Creek		2006	20.8			36.8		9.5	38.0	6.5	1.46	1.84		
SE Idaho	BNTR	Sage Creek		2006	22.8			41.0		9.5	38.0	6.5	1.46	2.05		
SE Idaho	BNTR	Sage Creek		2007	6.2			8.7	27.83	14.4	42.8	6.5	2.22	0.43	2.18	1.39
SE Idaho	BNTR	Sage Creek		2007	6.7			9.5		14.4	42.8	6.5	2.22	0.48		
SE Idaho	BNTR	Sage Creek		2007	7.2			10.4		14.4	42.8	6.5	2.22	0.52		
SE Idaho	BNTR	Sage Creek		2007	8.5			12.6		13.5	41.0	6.5	2.08	0.63		
SE Idaho	BNTR	Sage Creek		2007	8.6			12.8		14.4	42.8	6.5	2.22	0.64		
SE Idaho	BNTR	Sage Creek		2007	8.9			13.3		14.4	42.8	6.5	2.22	0.67		
SE Idaho	BNTR	Sage Creek		2007	9.0			13.5		13.5	41.0	6.5	2.08	0.68		
SE Idaho	BNTR	Sage Creek		2007	9.2			13.9		14.4	42.8	6.5	2.22	0.69		
SE Idaho	BNTR	Sage Creek		2007	9.6			14.6		14.4	42.8	6.5	2.22	0.73		
SE Idaho	BNTR	Sage Creek		2007	10.8			16.8		14.4	40.3	6.5	2.22	0.84		
SE Idaho	BNTR	Sage Creek		2007	11.3			17.7		14.4	42.8	6.5	2.22	0.89		
SE Idaho	BNTR	Sage Creek		2007	11.4			17.9		13.5	41.0	6.5	2.08	0.90		
SE Idaho	BNTR	Sage Creek		2007	13.2			21.3		14.4	42.8	6.5	2.22	1.07		
SE Idaho	BNTR	Sage Creek		2007	13.2			21.3		14.4	42.8	6.5	2.22	1.07		
SE Idaho	BNTR	Sage Creek		2007	13.6			22.1		14.4	42.8	6.5	2.22	1.11		
SE Idaho	BNTR	Sage Creek		2007	13.8			22.5		14.4	42.8	6.5	2.22	1.13		
SE Idaho	BNTR	Sage Creek		2007	15.8			26.4		10.3	31.2	6.5	1.58	1.32		
SE Idaho	BNTR	Sage Creek		2007	17.2			29.3		14.4	42.8	6.5	2.22	1.46		
SE Idaho	BNTR	Sage Creek		2007	17.3			29.5		14.4	42.8	6.5	2.22	1.47		
SE Idaho	BNTR	Sage Creek		2007	17.9			30.7		14.4	42.8	6.5	2.22	1.53		
SE Idaho	BNTR	Sage Creek		2007	18.9			32.7		14.4	42.8	6.5	2.22	1.64		
SE Idaho	BNTR	Sage Creek		2007	19.6			34.2		14.4	40.3	6.5	2.22	1.71		
SE Idaho	BNTR	Sage Creek		2007	20.0			35.0		14.4	42.8	6.5	2.22	1.75		
SE Idaho	BNTR	Sage Creek		2007	20.7			36.5		14.4	40.3	6.5	2.22	1.83		
SE Idaho	BNTR	Sage Creek		2007	20.7			36.5		14.4	40.3	6.5	2.22	1.83		
SE Idaho	BNTR	Sage Creek		2007	21.2			37.6		14.4	40.3	6.5	2.22	1.88		
SE Idaho	BNTR	Sage Creek		2007	21.4			38.0		14.4	42.8	6.5	2.22	1.90		
SE Idaho	BNTR	Sage Creek		2007	22.2			39.7		13.5	41.0	6.5	2.08	1.98		
SE Idaho	BNTR	Sage Creek		2007	22.6			40.5		14.4	42.8	6.5	2.22	2.03		
SE Idaho	BNTR	Sage Creek		2007	23.8			43.1		14.4	40.3	6.5	2.22	2.16		
SE Idaho	BNTR	Sage Creek		2007	23.8			43.1		14.4	42.8	6.5	2.22	2.16		
SE Idaho	BNTR	Sage Creek		2007	26.4			48.8		14.4	40.3	6.5	2.22	2.44		
SE Idaho	BNTR	Sage Creek		2007	27.5			51.2		14.4	40.3	6.5	2.22	2.56		
SE Idaho	BNTR	Sage Creek		2007	33.3			64.4		14.4	40.3	6.5	2.22	3.22		
SE Idaho	BNTR	Sage Creek		2008	11.4			17.9	36.97	14.5	38.7	6.5	2.23	0.90	3.26	1.85
SE Idaho	BNTR	Sage Creek		2008	17.4			29.7		24.2	38.7	6.5	3.72	1.48		
SE Idaho	BNTR	Sage Creek		2008	18.0			30.9		24.2	38.7	6.5	3.72	1.54		
SE Idaho	BNTR	Sage Creek		2008	18.9			32.7		24.2	38.7	6.5	3.72	1.64		
SE Idaho	BNTR	Sage Creek		2008	19.1			33.2		14.5	38.7	6.5	2.23	1.66		

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SE Idaho	BNTR	Sage Creek		2008	19.4			33.8		24.2	38.7	6.5	3.72	1.69		
SE Idaho	BNTR	Sage Creek		2008	20.4			35.9		24.2	38.7	6.5	3.72	1.79		
SE Idaho	BNTR	Sage Creek		2008	20.5			36.1		24.2	38.7	6.5	3.72	1.80		
SE Idaho	BNTR	Sage Creek		2008	20.5			36.1		14.5	38.7	6.5	2.23	1.80		
SE Idaho	BNTR	Sage Creek		2008	20.8			36.7		24.2	38.7	6.5	3.72	1.84		
SE Idaho	BNTR	Sage Creek		2008	21.8			38.8		24.2	38.7	6.5	3.72	1.94		
SE Idaho	BNTR	Sage Creek		2008	22.4			40.1		14.5	38.7	6.5	2.23	2.01		
SE Idaho	BNTR	Sage Creek		2008	24.1			43.8		24.2	38.7	6.5	3.72	2.19		
SE Idaho	BNTR	Sage Creek		2008	24.3			44.2		24.2	38.7	6.5	3.72	2.21		
SE Idaho	BNTR	Sage Creek		2008	25.0			45.7		24.2	38.7	6.5	3.72	2.29		
SE Idaho	BNTR	Sage Creek		2008	29.6			55.9		14.5	38.7	6.5	2.23	2.80		
SE Idaho	YCT	Sage Creek		2007	11.7			17.8	21.09	10.3	31.2	6.5	1.58	0.89	1.58	1.05
SE Idaho	YCT	Sage Creek		2007	15.4			21.6		10.3	31.2	6.5	1.58	1.08		
SE Idaho	YCT	Sage Creek		2007	17.8			23.9		10.3	31.2	6.5	1.58	1.19		
SE Idaho	YCT	Sage Creek		2008	15.2			21.4	21.38	14.5	38.7	6.5	2.23	1.07	2.23	1.07
SE Idaho	YCT	Sheep Creek		2000	1.8			4.8	6.29	8.0	7.1	6.5	1.23	0.24	0.65	0.31
SE Idaho	YCT	Sheep Creek		2000	3.6			7.8		0.5	12.8	6.5	0.08	0.39		
SE Idaho	BKT	Slug Creek	Upper	2000	2.4			3.0	3.02	0.5	5.0	6.5	0.08	0.15	0.58	0.15
SE Idaho	BKT	Slug Creek	Upper	2000	2.4			3.0		7.0	6.0	6.5	1.08	0.15		
SE Idaho	YCT	South Fork Tincup Creek		2007	1.8			4.8	6.18	0.4	10.2	6.5	0.06	0.24	0.06	0.31
SE Idaho	YCT	South Fork Tincup Creek		2007	1.8			4.8		0.4	10.2	6.5	0.06	0.24		
SE Idaho	YCT	South Fork Tincup Creek		2007	1.9			5.0		0.4	10.2	6.5	0.06	0.25		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.0			5.2		0.4	10.2	6.5	0.06	0.26		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.0			5.2		0.4	10.2	6.5	0.06	0.26		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.1			5.3		0.4	10.2	6.5	0.06	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.1			5.3		0.4	10.2	6.5	0.06	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.1			5.3		0.4	10.2	6.5	0.06	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.6			6.2		0.3	10.2	6.5	0.05	0.31		
SE Idaho	YCT	South Fork Tincup Creek		2007	2.8			6.5		0.4	10.2	6.5	0.06	0.33		
SE Idaho	YCT	South Fork Tincup Creek		2007	3.0			6.9		0.4	10.2	6.5	0.06	0.34		
SE Idaho	YCT	South Fork Tincup Creek		2007	3.0			6.9		0.3	10.2	6.5	0.05	0.34		
SE Idaho	YCT	South Fork Tincup Creek		2007	3.1			7.0		0.4	10.2	6.5	0.06	0.35		
SE Idaho	YCT	South Fork Tincup Creek		2007	3.4			7.5		0.3	10.2	6.5	0.05	0.37		
SE Idaho	YCT	South Fork Tincup Creek		2007	5.7			10.8		0.3	10.2	6.5	0.05	0.54		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.0			5.2	7.87	0.9	10.2	6.5	0.14	0.26	0.13	0.39
SE Idaho	YCT	South Fork Tincup Creek		2008	2.2			5.4		0.9	10.2	6.5	0.14	0.27		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.2			5.5		0.9	10.2	6.5	0.14	0.28		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.3			5.6		0.9	10.2	6.5	0.14	0.28		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.5			6.0		0.9	10.2	6.5	0.14	0.30		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.5			6.1		0.9	10.2	6.5	0.14	0.30		
SE Idaho	YCT	South Fork Tincup Creek		2008	2.8			6.5		0.9	10.2	6.5	0.14	0.33		
SE Idaho	YCT	South Fork Tincup Creek		2008	3.1			7.0		0.9	10.2	6.5	0.14	0.35		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	YCT	South Fork Tincup Creek		2008	3.4			7.5		0.9	10.2	6.5	0.14	0.37		
SE Idaho	YCT	South Fork Tincup Creek		2008	3.5			7.6		0.9	10.2	6.5	0.14	0.38		
SE Idaho	YCT	South Fork Tincup Creek		2008	4.4			9.0		0.6	10.2	6.5	0.09	0.45		
SE Idaho	YCT	South Fork Tincup Creek		2008	5.7			10.8		0.6	10.2	6.5	0.09	0.54		
SE Idaho	YCT	South Fork Tincup Creek		2008	7.5			13.0		0.6	10.2	6.5	0.09	0.65		
SE Idaho	YCT	South Fork Tincup Creek		2008	9.2			15.0		0.6	10.2	6.5	0.09	0.75		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling Pond	2008			10.3	10.3	28.45	71.0	101.2	21.5	3.30	0.51	3.30	1.42
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling Pond	2008		23.1	18.8	18.8		71.0	101.2	21.5	3.30	0.94		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling Pond	2008		18.8		23.5		71.0	101.2	21.5	3.30	1.18		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling Pond	2008			24.7	24.7		71.0	101.2	21.5	3.30	1.24		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling Pond	2008	36.0			38.2		71.0	101.2	21.5	3.30	1.91		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling Pond	2008		36.8		38.8		71.0	101.2	21.5	3.30	1.94		
NW BC (Smithers)	DV	Southern Collection Ditc	SCD U/S of SC Settling Pond	2008		44.6		44.8		71.0	101.2	21.5	3.30	2.24		
Indiana	BG	Stingy Run	Tributary of Kyger Ck	1993	17.3			51.3	51.27	28.0	573.0	238.8	0.12	2.56	0.12	2.56
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.5			9.3	9.92	1.0	6.6	6.5	0.15	0.46	0.15	0.50
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.7			9.6		1.0	6.6	6.5	0.15	0.48		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.7			9.6		1.0	6.6	6.5	0.15	0.48		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	5.8			9.7		1.0	6.6	6.5	0.15	0.49		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	6.1			10.1		1.0	6.6	6.5	0.15	0.51		
NW BC (Smithers)	DV	Unnamed Creek (Diversion		2004	7.0			11.2		1.0	6.6	6.5	0.15	0.56		
NW BC (Smithers)	DV	Waste Rock Creek		2004	8.0			12.4	15.14	23.1	43.0	6.5	3.53	0.62	3.53	0.76
NW BC (Smithers)	DV	Waste Rock Creek		2004	10.1			14.7		23.1	43.0	6.5	3.53	0.74		
NW BC (Smithers)	DV	Waste Rock Creek		2004	10.1			14.7		23.1	43.0	6.5	3.53	0.74		
NW BC (Smithers)	DV	Waste Rock Creek		2004	10.8			15.5		23.1	43.0	6.5	3.53	0.78		
NW BC (Smithers)	DV	Waste Rock Creek		2004	11.4			16.1		23.1	43.0	6.5	3.53	0.81		
NW BC (Smithers)	DV	Waste Rock Creek		2004	12.5			17.3		23.1	43.0	6.5	3.53	0.86		
NW BC (Smithers)	DV	Waste Rock Creek	Upper	2007	36.9			38.9	48.18	61.6	77.2	14.7	4.18	1.95	4.18	2.41
NW BC (Smithers)	DV	Waste Rock Creek	Upper	2007		62.1		57.4		61.6	77.2	14.7	4.18	2.87		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		20.4	25.1	25.1	47.52	38.7	67.9	12.3	3.14	1.26	3.14	2.38
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		27.9	29.7	29.7		38.7	67.9	12.3	3.14	1.49		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		47.3	41.8	41.8		38.7	67.9	12.3	3.14	2.09		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		31.3	41.8	41.8		38.7	67.9	12.3	3.14	2.09		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		50.9	54.2	54.2		38.7	67.9	12.3	3.14	2.71		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		50.2	69.5	69.5		38.7	67.9	12.3	3.14	3.47		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ below mainstem	2009		62.5	70.5	70.5		38.7	67.9	12.3	3.14	3.53		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008			12.1	12.1	47.86	50.9	79.1	15.3	3.33	0.60	3.33	2.39
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		55.5	22.8	22.8		50.9	79.1	15.3	3.33	1.14		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		39.2		40.7		50.9	79.1	15.3	3.33	2.03		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		45.1		45.2		50.9	79.1	15.3	3.33	2.26		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008			46.8	46.8		50.9	79.1	15.3	3.33	2.34		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		51.9		50.2		50.9	79.1	15.3	3.33	2.51		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		58.3	51.9	51.9		50.9	79.1	15.3	3.33	2.59		

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Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		88.8	53.3	53.3		50.9	79.1	15.3	3.33	2.67		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008	37.2		56.3	56.3		50.9	79.1	15.3	3.33	2.82		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		50.5	56.6	56.6		50.9	79.1	15.3	3.33	2.83		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008			60.0	60.0		50.9	79.1	15.3	3.33	3.00		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		39.5	60.5	60.5		50.9	79.1	15.3	3.33	3.03		
NW BC (Smithers)	DV	Waste Rock Creek	Upper/ d/s of culvert	2008		55.7	65.8	65.8		50.9	79.1	15.3	3.33	3.29		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	22.9			27.2	43.89	41.5	75.4	14.3	2.90	1.36	2.90	2.19
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	27.4			31.1		41.5	75.4	14.3	2.90	1.56		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	35.1			37.5		41.5	75.4	14.3	2.90	1.87		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	38.6			40.2		41.5	75.4	14.3	2.90	2.01		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	39.6			41.0		41.5	75.4	14.3	2.90	2.05		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	46.1			46.0		41.5	75.4	14.3	2.90	2.30		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	59.0			55.3		41.5	75.4	14.3	2.90	2.76		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	59.6			55.7		41.5	75.4	14.3	2.90	2.79		
NW BC (Smithers)	DV	Waste Rock Creek	Waste Rock Creek	2006	67.2			60.9		41.5	75.4	14.3	2.90	3.05		
Peace River	BT	Wolverine River	WR1 (17km u/s Perry Creek	2004		3.9		13.5	15.97	0.6	8.9	6.5	0.09	0.67	0.09	0.80
Peace River	BT	Wolverine River	WR1 (17km u/s Perry Creek	2004		4.8		16.6		0.6	8.9	6.5	0.09	0.83		
Peace River	BT	Wolverine River	WR1 (17km u/s Perry Creek	2004		5.1		17.8		0.6	8.9	6.5	0.09	0.89		
SE Idaho	BKT	Crow Creek	Crow Creek @ bridge on Meade Peak Ranch	2010	6.3			6.6	6.58	8.5	34.1	6.5	1.30	0.33	1.30	0.33
SE Idaho	BNTR	Crow Creek	Crow Creek @ bridge on Meade Peak Ranch	2010	14.3			23.5	23.48	8.5	34.1	6.5	1.30	1.17	1.30	1.17
SE Idaho	YCT	Crow Creek	Crow Creek @ bridge on Meade Peak Ranch	2010	10.0			15.9	15.93	8.5	34.1	6.5	1.30	0.80	1.30	0.80
SE Idaho	BNTR	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2010	8.1			11.8	11.85	0.8	16.9	6.5	0.13	0.59	0.13	0.59
SE Idaho	BNTR	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2011	8.1			11.9	11.90	1.0	17.5	6.5	0.15	0.59	0.15	0.59
SE Idaho	YCT	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2010	7.2			12.7	12.68	0.8	16.9	6.5	0.13	0.63	0.13	0.63
SE Idaho	YCT	Crow Creek	Crow Creek approx 1/2 mile DS of Deer Creek	2011	8.4			14.1	14.14	1.0	17.5	6.5	0.15	0.71	0.15	0.71
SE Idaho	BNTR	Crow Creek	Crow Creek at south end (upstream end) of Nate's Property	2010	6.1			8.5	8.46	0.8	12.6	6.5	0.12	0.42	0.12	0.42
SE Idaho	YCT	Crow Creek	Crow Creek at south end (upstream end) of Nate's Property	2010	7.2			12.7	12.69	0.8	12.6	6.5	0.12	0.63	0.12	0.63
SE Idaho	BNTR	Crow Creek	Crow Creek U/S of Stewarts Property	2009	6.1			8.5	8.52	0.4	22.0	6.5	0.06	0.43	0.06	0.43
SE Idaho	BNTR	Crow Creek	Crow Creek U/S of Stewarts Property	2010	5.9			8.2	8.22	0.5	22.5	6.5	0.08	0.41	0.08	0.41
SE Idaho	YCT	Crow Creek	Crow Creek U/S of Stewarts Property	2009	5.8			10.8	10.85	0.4	22.0	6.5	0.06	0.54	0.06	0.54
SE Idaho	YCT	Crow Creek	Crow Creek U/S of Stewarts Property	2010	5.3			10.3	10.28	0.5	22.5	6.5	0.08	0.51	0.08	0.51
SE Idaho	YCT	Deer Creek	Deer Creek ~1.2mi downstream of north fork confluence	2009	9.5			15.4	15.43	0.8	7.6	6.5	0.13	0.77	0.13	0.77
SE Idaho	YCT	Deer Creek	Deer Creek ~1.2mi downstream of north fork confluence	2010	11.0			17.0	17.00	1.7	7.9	6.5	0.26	0.85	0.26	0.85
SE Idaho	YCT	Deer Creek	Deer Creek ~1.2mi downstream of north fork confluence	2011	11.2			17.3	17.26	1.8	8.2	6.5	0.28	0.86	0.28	0.86
SE Idaho	YCT	Deer Creek	Deer Creek 0.50 mile downstream of divide	2009	7.2			12.6	12.61	1.4	15.6	6.5	0.22	0.63	0.22	0.63
SE Idaho	YCT	Deer Creek	Deer Creek 0.50 mile downstream of divide	2010	6.8			12.1	12.11	1.9	14.6	6.5	0.29	0.61	0.29	0.61
SE Idaho	YCT	Deer Creek	Deer Creek 0.50 mile downstream of divide	2011	7.7			13.3	13.29	1.7	9.1	6.5	0.26	0.66	0.26	0.66

Table S9. Co-located fish Se, waterborne Se, and waterborne SO_4 concentrations used to validate the SO_4-dependent water Se screening guideline. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	YCT	Deer Creek	Deer Creek just off Diamond Creek Road	2009	8.2			13.9	13.85	0.3	6.4	6.5	0.05	0.69	0.05	0.69
SE Idaho	YCT	Deer Creek	Deer Creek just off Diamond Creek Road	2010	7.7			13.3	13.29	0.8	7.0	6.5	0.12	0.66	0.12	0.66
SE Idaho	BNTR	Hoopes Spring	Hoopes Spring (discharge channel) near Sage Creek confluence	2011	27.3			50.8	50.78	51.9	45.1	7.0	7.42	2.54	7.42	2.54
SE Idaho	YCT	Hoopes Spring	Hoopes Spring (discharge channel) near Sage Creek confluence	2011	11.4			17.5	17.48	51.9	45.1	7.0	7.42	0.87	7.42	0.87
SE Idaho	YCT	North Fork Deer Creek	North Fork Deer Creek 0.25 mile upstream of Deer Creek confluence	2009	9.6			15.5	15.46	0.9	11.9	6.5	0.13	0.77	0.13	0.77
SE Idaho	YCT	North Fork Deer Creek	North Fork Deer Creek 0.25 mile upstream of Deer Creek confluence	2010	9.5			15.4	15.39	1.1	12.2	6.5	0.17	0.77	0.17	0.77
SE Idaho	YCT	North Fork Deer Creek	North Fork Deer Creek 0.25 mile upstream of Deer Creek confluence	2011	8.8			14.6	14.61	1.8	10.5	6.5	0.28	0.73	0.28	0.73
SE Idaho	BNTR	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2010	19.9			34.8	34.83	25.9	32.5	6.5	3.98	1.74	3.98	1.74
SE Idaho	BNTR	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2011	23.9			43.3	43.33	24.0	27.9	6.5	3.69	2.17	3.69	2.17
SE Idaho	YCT	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2010	17.9			24.0	24.00	25.9	32.5	6.5	3.98	1.20	3.98	1.20
SE Idaho	YCT	Sage Creek	Sage Creek above Crow Creek, just above bridge for main Crow Creek road	2011	16.5			22.7	22.65	24.0	27.9	6.5	3.69	1.13	3.69	1.13
SE Idaho	BNTR	Sage Creek	Sage Creek below Hoopes confluence	2010	17.4			29.7	29.67	33.2	43.6	6.7	4.98	1.48	4.98	1.48
SE Idaho	BNTR	Sage Creek	Sage Creek below Hoopes confluence	2011	17.2			29.2	29.19	25.6	32.2	6.5	3.94	1.46	3.94	1.46
SE Idaho	YCT	Sage Creek	Sage Creek below Hoopes confluence	2010	9.9			15.8	15.80	33.2	43.6	6.7	4.98	0.79	4.98	0.79
SE Idaho	BNTR	South Fork Sage Creek	South Fork Sage Creek located approximately 75 feet upstream from road crossing, above confluence with Sage Creek	2010	12.5			20.0	20.01	13.9	15.4	6.5	2.14	1.00	2.14	1.00
SE Idaho	BNTR	South Fork Sage Creek	South Fork Sage Creek located approximately 75 feet upstream from road crossing, above confluence with Sage Creek	2011	12.2			19.3	19.34	14.9	15.4	6.5	2.29	0.97	2.29	0.97
SE Idaho	YCT	South Fork Sage Creek	South Fork Sage Creek located approximately 75 feet upstream from road crossing, above confluence with Sage Creek	2011	12.9			19.1	19.06	14.9	15.4	6.5	2.29	0.95	2.29	0.95
SE Idaho	BNTR	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary.	2009	3.8			4.9	4.86	0.2	31.0	6.5	0.03	0.24	0.03	0.24
SE Idaho	BNTR	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary.	2010	2.8			3.4	3.42	0.2	35.6	6.5	0.03	0.17	0.03	0.17
SE Idaho	YCT	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary.	2009	3.6			7.8	7.79	0.2	31.0	6.5	0.03	0.39	0.03	0.39
SE Idaho	YCT	Spring Creek	Accessed by driving through Fairview, across private property, to FS boundary.	2010	2.5			6.0	5.96	0.2	35.6	6.5	0.03	0.30	0.03	0.30
SE Idaho	YCT	Spring Creek	Approx 1.2 mi east of SPC-2 following pack trail on north side of stream	2009	2.9			6.8	6.76	0.2	14.6	6.5	0.03	0.34	0.03	0.34

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Table S9. Co-located fish Se, waterborne Se, and waterborne SO_4 concentrations used to validate the SO_4-dependent water Se screening guideline. Measured concentration data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</RecNum><DisplayText>Golder Associates (2013b)</DisplayText><record><rec-number>1707</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1707</key></foreign-keys><ref-type name="Report">27</ref-type><contributors><authors><author>Golder Associates,</author></authors></contributors><titles><title>Statistical analysis of selenium bioaccumulation in fish</title><secondary-title>Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</secondary-title></titles><keywords><keyword>selenium, bioaccumulation model</keyword></keywords><dates><year>2013</year></dates><pub-location>Burnaby, BC, Canada. Prepared for the North American Metals Council - Selenium Working Group, Washington, D.C.</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Formation Environmental</Author><Year>2014</Year><RecNum>1954</RecNum><DisplayText>Formation Environmental (2014)</DisplayText><record><rec-number>1954</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1954</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Formation Environmental,</author></authors></contributors><titles><title>Personal communication of August 12, 2014. Austin, TX, USA.</title></titles><dates><year>2014</year></dates><urls></urls></record></Cite></EndNote>].

Region	Fish Species	Water Body	Sampling Location	Year	Measured Fish WB Se (µg/g dw)	Measured Fish Muscle Se (µg/g dw)	Measured Fish Egg or Ovary Se (µg/g dw)	Measured or Predicted Egg/Ovary Se (µg/g dw)[1]	Average Measured or Predicted Egg/Ovary Se (µg/g dw)	Water Se (µg/L)	Water SO_4 (mg/L)	SO_4-dependent Water Se Screeing Guideline (µg/L)[2]	Ratio of Water Se to SO_4-dependent Water Se Screeing Guideline	Ratio of Fish Egg or Ovary Se to Guideline of 20 µg/g dw	Mean Water Ratio by Species, Location, and Year	Mean Fish Egg or Ovary Ratio by Species, Location, and Year
SE Idaho	YCT	Spring Creek	Approx 1.2 mi east of SPC-2 following pack trail on north side of stream	2010	3.2			7.2	7.25	0.2	14.3	6.5	0.03	0.36	0.03	0.36
SE Idaho	YCT	Spring Creek	Approx 1.5 mi off of FS RD 147 at the end of FS RD 221, at the beginning of pack trail	2009	1.8			4.7	4.71	0.2	12.4	6.5	0.03	0.24	0.03	0.24
SE Idaho	YCT	Spring Creek	Approx 1.5 mi off of FS RD 147 at the end of FS RD 221, at the beginning of pack trail	2010	2.7			6.4	6.36	0.3	10.8	6.5	0.04	0.32	0.04	0.32
SE Idaho	BKT	Trail Creek	Trail Creek on State of Idaho land	2011	4.2			4.7	4.73	0.2	6.9	6.5	0.03	0.24	0.03	0.24

[1] When measured fish egg or ovary Se concentrations were not available they were predicted from WB or muscle Se concentrations using the regression relationships provided in Table S9.
[2] The SO_4-dependent water Se screening guidelines were calculated using Equation 4 in the main body of the paper. The screening guideline was capped at 6.5 µg/L at sulphate concentrations <43 mg/L.

BG = bluegill
BKT = brook trout
BNTR = brown trout
BT = bull trout
CT = cutthroat trout
DV = Dolly Varden
WB = whole body
LMB = largemouth bass
NP = northern pike
RBT = rainbow trout
WCT = westslope cutthroat trout
YCT = Yellowstone cutthroat trout

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Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
Bluegill	WB-to-egg	0.9	1.9	-0.05	0.28	1.105	0.343	0.99	[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		0.9	1.9	-0.05	0.28				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		2.9	7.3	0.46	0.86				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		4.9	13	0.69	1.11				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		7.2	22.8	0.86	1.36				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		16	41.3	1.20	1.62				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
Brook trout	Muscle-to-egg	3.1	1.5	0.49	0.18	0.806	0.173	0.87	[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		1.6	2.5	0.20	0.40				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		2.4	3.4	0.38	0.53				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		2.2	4.7	0.34	0.67				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		2.5	2.9	0.40	0.46				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		5.6	5.6	0.75	0.75				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		10.9	9.9	1.04	1.00				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		11.8	15.4	1.07	1.19				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		12.6	12.8	1.10	1.11				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		12.8	14.8	1.11	1.17				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		13.8	12.2	1.14	1.09				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		17.9	12.4	1.25	1.09				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		18.5	13.2	1.27	1.12				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		22.1	15.5	1.34	1.19				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		22.9	15.3	1.36	1.18				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		26.3	25.4	1.42	1.40				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		39	32.5	1.59	1.51				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
Brown trout	WB-to-egg	8.9	12.8	0.95	1.11	1.193	-0.007	0.80	[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
		13.8	40.3	1.14	1.61				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		17.9	36	1.25	1.56				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		13.6	26.8	1.13	1.43				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		17.2	26.9	1.24	1.43				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat
		6.7	18.6	0.83	1.27				location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat
		9.6	17.7	0.98	1.25				location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat
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		7.2	13.2	0.86	1.12				Sage and Crow Creeks, Idaho</title><secondary-title>Prepare

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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		20	28.1	1.30	1.45				Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer
		8.4	12.8	0.92	1.11				Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer
		5.6	8.4	0.75	0.92				Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re
		6.7	8.5	0.83	0.93				2012)</DisplayText><record><rec-number>1771</rec-numbe

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		5.9	8.4	0.77	0.92				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe
									id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		6	9.1	0.78	0.96				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe
									id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		7	7.5	0.85	0.88				
		5.6	6.6	0.75	0.82				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		4.7	6.9	0.67	0.84				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		7.2	6.2	0.86	0.79				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		9.2	14	0.96	1.15				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									0112.pdf</call-num><urls></urls></record></Cite></EndNote
		5.5	6.9	0.74	0.84				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		8.5	9.5	0.93	0.98				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
Bull trout	WB-to-egg	3.96	19.03	0.60	1.28	Insufficient data to develop regression relationship; mean muscle-to-egg Se concentration is 3.5			[ADDIN EN.CITE <EndNote><Cite><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</R number>1707</rec-number><foreign-keys><key app="EN" db type name="Report">27</ref-type><contributors><authors><a Associates,</author></authors></contributors><titles><title>S title>Prepared for the North American Metals Council - Seleni title></titles><keywords><keyword>selenium, bioaccumulatio location>Burnaby, BC, Canada. Prepared for the North Ameri location><urls></urls></record></Cite></EndNote>
		3.61	14.95	0.56	1.17				[ADDIN EN.CITE <EndNote><Cite><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</R number>1707</rec-number><foreign-keys><key app="EN" db type name="Report">27</ref-type><contributors><authors><a Associates,</author></authors></contributors><titles><title>S title>Prepared for the North American Metals Council - Seleni title></titles><keywords><keyword>selenium, bioaccumulatio location>Burnaby, BC, Canada. Prepared for the North Ameri location><urls></urls></record></Cite></EndNote>

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
		4.77	13.35	0.68	1.13				[ADDIN EN.CITE <EndNote><Cite><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</R number>1707</rec-number><foreign-keys><key app="EN" db type name="Report">27</ref-type><contributors><authors><a Associates,</author></authors></contributors><titles><title>S title>Prepared for the North American Metals Council - Seleni title></titles><keywords><keyword>selenium, bioaccumulatio location>Burnaby, BC, Canada. Prepared for the North Ameri location><urls></urls></record></Cite></EndNote>]
		4.14	12.66	0.62	1.10				[ADDIN EN.CITE <EndNote><Cite><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</R number>1707</rec-number><foreign-keys><key app="EN" db type name="Report">27</ref-type><contributors><authors><a Associates,</author></authors></contributors><titles><title>S title>Prepared for the North American Metals Council - Seleni title></titles><keywords><keyword>selenium, bioaccumulatio location>Burnaby, BC, Canada. Prepared for the North Ameri location><urls></urls></record></Cite></EndNote>]
		4.41	12.49	0.64	1.10				[ADDIN EN.CITE <EndNote><Cite><Author>Golder Associates</Author><Year>2013</Year><RecNum>1707</R number>1707</rec-number><foreign-keys><key app="EN" db type name="Report">27</ref-type><contributors><authors><a Associates,</author></authors></contributors><titles><title>S title>Prepared for the North American Metals Council - Seleni title></titles><keywords><keyword>selenium, bioaccumulatio location>Burnaby, BC, Canada. Prepared for the North Ameri location><urls></urls></record></Cite></EndNote>]
Dolly Varden		2.77	5.42	0.44	0.73				[ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abb 2805</pages><volume>29</volume><number>12</number>
	Muscle-to-egg					0.749	0.417	0.86	deformities</keyword></keywords><dates><year>2010</yea
		9.92	7.03	1.00	0.85				[ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
		3.4	8.43	0.53	0.93				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</year [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		5.3	9.59	0.72	0.98				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</year [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		4.91	10.53	0.69	1.02				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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		6.58	11.03	0.82	1.04				P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta
									title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number> deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc
		20.43	25.13	1.31	1.40				P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta
									title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number> deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc
		27.9	29.74	1.45	1.47				P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta
									title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number> deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		47.27	41.76	1.67	1.62				

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Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		31.33	41.84	1.50	1.62				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		50.91	54.17	1.71	1.73				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		50.22	69.47	1.70	1.84				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta

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		55.45	22.8	1.74	1.36				P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta
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		58.26	51.89	1.77	1.72				et al. 2010)</DisplayText><record><rec-number>1285</rec-n

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number> deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		88.82	53.3	1.95	1.73				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number> deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		50.45	56.58	1.70	1.75				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number> deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n
		39.45	60.54	1.60	1.78				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
		55.65	65.76	1.75	1.82				title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta
		23.1	18.8	1.36	1.27				title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>McDonald</Aut et al. 2010)</DisplayText><record><rec-number>1285</rec-n id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1285</key></for type><contributors><authors><author>McDonald, B.G.</auth J.R.F.</author><author>Davies, M.</author><author>Bustarc P.M.</author></authors></contributors><titles><title><style fa Dolly Varden char (</style><style face="italic" font="default" s size="100%">).</style></title><secondary-title>Environmenta
Largemouth bass	Muscle-to-ovary	1.5	3.1	0.18	0.49	1.094	0.440	0.95	title>Environmental Toxicology and Chemistry</full-title><abb 2><abbr-3>Environmental Toxicology & Chemistry</abbr 2805</pages><volume>29</volume><number>12</number>< deformities</keyword></keywords><dates><year>2010</yea [ADDIN EN.CITE <EndNote><Cite><Author>Carolina Power Light</Author><Year>1997</Year><RecNum>2</RecNum>< number>2</rec-number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><authors><autho Light,</author></authors></contributors><titles><title>Largem bioassay</title></titles><pages>14</pages><keywords><key bioassay</keyword></keywords><dates><year>1997</year>< Services Section</publisher><urls></urls></record></Cite></
		2.3	8.8	0.36	0.94				[ADDIN EN.CITE <EndNote><Cite><Author>Carolina Power Light</Author><Year>1997</Year><RecNum>2</RecNum>< number>2</rec-number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><authors><autho Light,</author></authors></contributors><titles><title>Largem

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									bioassay</title></titles><pages>14</pages><keywords><key bioassay</keyword></keywords><dates><year>1997</year> Services Section</publisher><urls></urls></record></Cite></ [ADDIN EN.CITE <EndNote><Cite><Author>Carolina Power Light</Author><Year>1997</Year><RecNum>2</RecNum> number>2</rec-number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><authors><autho Light,</author></authors></contributors><titles><title>Largem bioassay</title></titles><pages>14</pages><keywords><key
		4.3	10.8	0.63	1.03				bioassay</keyword></keywords><dates><year>1997</year> Services Section</publisher><urls></urls></record></Cite></ [ADDIN EN.CITE <EndNote><Cite><Author>Carolina Power Light</Author><Year>1997</Year><RecNum>2</RecNum> number>2</rec-number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><authors><autho Light,</author></authors></contributors><titles><title>Largem bioassay</title></titles><pages>14</pages><keywords><key
		5.1	25	0.71	1.40				bioassay</keyword></keywords><dates><year>1997</year> Services Section</publisher><urls></urls></record></Cite></ [ADDIN EN.CITE <EndNote><Cite><Author>Carolina Power Light</Author><Year>1997</Year><RecNum>2</RecNum> number>2</rec-number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><authors><autho Light,</author></authors></contributors><titles><title>Largem bioassay</title></titles><pages>14</pages><keywords><key
		10.4	40	1.02	1.60				bioassay</keyword></keywords><dates><year>1997</year> Services Section</publisher><urls></urls></record></Cite></ [ADDIN EN.CITE <EndNote><Cite><Author>Carolina Power Light</Author><Year>1997</Year><RecNum>2</RecNum> number>2</rec-number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><authors><autho Light,</author></authors></contributors><titles><title>Largem bioassay</title></titles><pages>14</pages><keywords><key
		18.8	61	1.27	1.79				bioassay</keyword></keywords><dates><year>1997</year> Services Section</publisher><urls></urls></record></Cite></ [ADDIN EN.CITE <EndNote><Cite><Author>Carolina Power Light</Author><Year>1997</Year><RecNum>2</RecNum> number>2</rec-number><foreign-keys><key app="EN" db-id= name="Report">27</ref-type><contributors><authors><autho Light,</author></authors></contributors><titles><title>Largem bioassay</title></titles><pages>14</pages><keywords><key
		23.4	77.6	1.37	1.89				bioassay</keyword></keywords><dates><year>1997</year>

ED_013890_00032364-00605

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									Services Section</publisher><urls></urls></record></Cite></
Northern pike	Muscle-to-egg	3.19	1.64	0.50	0.21	0.881	0.345	0.991	[ADDIN EN.CITE <EndNote><Cite><Author>Muscatello</Au et al. 2006)</DisplayText><record><rec-number>644</rec-nu id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">644</key></forei type><contributors><authors><author>Muscatello, J.R.</auth K.T.</author><author>Belknap, A.M.</author><author>Janz, font="default" size="100%">Larval deformities associated with font="default" size="100%">Esox lucius</style><style face="n effluent.</style></title><secondary-title>Environmental Scienc Science and Technology</full-title><abbr-1>Environ. Sci. Tec 6512</pages><volume>40</volume><keywords><keyword>s mining, Saskatchewan</keyword></keywords><dates><year>
		48.23	38.27	1.68	1.58				[ADDIN EN.CITE <EndNote><Cite><Author>Muscatello</Au et al. 2006)</DisplayText><record><rec-number>644</rec-nu id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">644</key></forei type><contributors><authors><author>Muscatello, J.R.</auth K.T.</author><author>Belknap, A.M.</author><author>Janz, font="default" size="100%">Larval deformities associated with font="default" size="100%">Esox lucius</style><style face="n effluent.</style></title><secondary-title>Environmental Scienc Science and Technology</full-title><abbr-1>Environ. Sci. Tec 6512</pages><volume>40</volume><keywords><keyword>s mining, Saskatchewan</keyword></keywords><dates><year>
		31.28	16.58	1.50	1.22				[ADDIN EN.CITE <EndNote><Cite><Author>Muscatello</Au et al. 2006)</DisplayText><record><rec-number>644</rec-nu id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">644</key></forei type><contributors><authors><author>Muscatello, J.R.</auth K.T.</author><author>Belknap, A.M.</author><author>Janz, font="default" size="100%">Larval deformities associated with font="default" size="100%">Esox lucius</style><style face="n effluent.</style></title><secondary-title>Environmental Scienc Science and Technology</full-title><abbr-1>Environ. Sci. Tec 6512</pages><volume>40</volume><keywords><keyword>s mining, Saskatchewan</keyword></keywords><dates><year>
		3.8	1.8	0.58	0.26				[ADDIN EN.CITE <EndNote><Cite><Author>Muscatello</Au et al. 2006)</DisplayText><record><rec-number>644</rec-nu id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">644</key></forei type><contributors><authors><author>Muscatello, J.R.</auth K.T.</author><author>Belknap, A.M.</author><author>Janz, font="default" size="100%">Larval deformities associated with font="default" size="100%">Esox lucius</style><style face="n

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Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									effluent.</style></title><secondary-title>Environmental Scienc Science and Technology</full-title><abbr-1>Environ. Sci. Tec 6512</pages><volume>40</volume><keywords><keyword>s mining, Saskatchewan</keyword></keywords><dates><year>
Rainbow trout	Muscle-to-egg	21.5	99.5	1.33	2.00	1.046	0.542	0.68	[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re
		17.4	81	1.24	1.91				
		13.9	82.5	1.14	1.92				[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig
		23.6	104.5	1.37	2.02				type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig
		5.2	27.75	0.72	1.44				type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors><<

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									P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb
		5.3	20.4	0.72	1.31				
		15	88	1.18	1.94				
		5	57	0.70	1.76				

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Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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		6.2	106	0.79	2.03				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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		16.65	82.5	1.22	1.92				type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db
		16.6	144.5	1.22	2.16				type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re
		2.485	29.85	0.40	1.47				[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author>

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author>
		4.965	28.95	0.70	1.46				2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author>
		7.1	49.15	0.85	1.69				2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author
		6.25	36.15	0.80	1.56				number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author
		9.35	46.4	0.97	1.67				number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
		5.45	10.85	0.74	1.04				[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re
		5.65	60.5	0.75	1.78				[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re
		6.15	54	0.79	1.73				[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M
		4.985	44.75	0.70	1.65				urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M
		7.55	49.8	0.88	1.70				urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group

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Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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									the North American Metals Council - Selenium Working Group
		5.9	46.05	0.77	1.66				urls><url>http://www.namc.org/docs/00043675.PDF</url></re
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									id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig
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									of selenium in surface water, sediment and fish from the McLe
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									the North American Metals Council - Selenium Working Group
		5.9	93.5	0.77	1.97				urls><url>http://www.namc.org/docs/00043675.PDF</url></re
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									Interim report.</title></titles><pages>29</pages><keywords>
		6.15	70	0.79	1.85				Alberta</keyword></keywords><dates><year>2000</year></

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									urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></
		0.75	2.175	-0.12	0.34				urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></
		0.665	1.81	-0.18	0.26				urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco

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									the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors><a P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco
		0.685	2.495	-0.16	0.40				the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors><a P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco
		32.15	107.5	1.51	2.03				the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe
		34.75	107	1.54	2.03				Interim report.</title></titles><pages>29</pages><keywords>

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Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords>
		36.35	136.5	1.56	2.14				Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><
		31.5	117	1.50	2.07				of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t
		35.6	104	1.55	2.02				to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url>/re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t
		33.15	108.5	1.52	2.04				to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url>/re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a
		33.8	110.5	1.53	2.04				of selenium in surface water, sediment and fish from the McLe

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe
		33.6	123.5	1.53	2.09				Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year>/ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe
		36.8	89	1.57	1.95				Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year>/ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer

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Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer
		35.25	108	1.55	2.03				http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer
		35.95	129	1.56	2.11				http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig
		40.05	113.5	1.60	2.05				type><contributors><authors><author>Casey, R.</author><a

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a
		27.6	93	1.44	1.97				of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a
		34.05	132	1.53	2.12				of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig
		28.85	83	1.46	1.92				
		39.3	111	1.59	2.05				
		38	113	1.58	2.05				

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig
		32.2	105	1.51	2.02				type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig
		29	93.5	1.46	1.97				type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors><<

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb
		4.585	22.25	0.66	1.35				
		4.32	19.3	0.64	1.29				
		2.965	0.105	0.47	-0.98				

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb
		3.745	9.4	0.57	0.97				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb
		2.605	6.85	0.42	0.84				id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db
		3.115	10.15	0.49	1.01				type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db
		2.635	7.15	0.42	0.85				type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re
		3.1	12.25	0.49	1.09				[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author>

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author>
		3.385	9.85	0.53	0.99				2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author>
		5.55	13	0.74	1.11				2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author
		1.67	6.8	0.22	0.83				number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author
		2.9	13.2	0.46	1.12				number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group
		5.2	13.25	0.72	1.12				urls><url>http://www.namc.org/docs/00043675.PDF</url></re
									[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group
		5.2	12.3	0.72	1.09				urls><url>http://www.namc.org/docs/00043675.PDF</url></re
									[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></
		4.02	10.5	0.60	1.02				urls><url>file:///C:/Documents%20and%20Settings/defordav/M

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M
		2.75	20.05	0.44	1.30				urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group urls><url>http://www.namc.org/docs/00043675.PDF</url></re [ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/M
		4.145	14.45	0.62	1.16				urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors> P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary-t to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									urls><url>http://www.namc.org/docs/00043675.PDF</url></re
									[ADDIN EN.CITE <EndNote><Cite><Author>Casey</Author> 2000; deBruyn et al. 2008)</DisplayText><record><rec-numb id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">16</key></foreig type><contributors><authors><author>Casey, R.</author><a of selenium in surface water, sediment and fish from the McLe Interim report.</title></titles><pages>29</pages><keywords> Alberta</keyword></keywords><dates><year>2000</year></ urls><url>file:///C:/Documents%20and%20Settings/defordav/ urls></urls></record></Cite><Cite><Author>deBruyn</Author number>1915</rec-number><foreign-keys><key app="EN" db type name="Generic">13</ref-type><contributors><authors>< P.</author></authors></contributors><titles><title>Tissue sel selenium tissue threshold in fish. Prepared for the North Amer http://www.namc.org/docs/00043675.PDF</title><secondary- to Predict Population or Community Effects in the Field</seco the North American Metals Council - Selenium Working Group
		3.04	7.8	0.48	0.89				urls><url>http://www.namc.org/docs/00043675.PDF</url></re
		1.9	1	0.28	0.00				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		1.8	3.5	0.26	0.54				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		1.4	4.6	0.15	0.66				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		4.5	12.8	0.65	1.11				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		4.9	17.1	0.69	1.23				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		9.5	17.5	0.98	1.24				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8.4	29.7	0.92	1.47				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
Westslope cutthroat trout	Muscle-to-egg	41.3	75.4	1.62	1.88	1.101	0.107	0.85	[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		15.3	58.4	1.18	1.77				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		14.1	30.6	1.15	1.49				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		12.5	20.2	1.10	1.31				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		13.7	19.4	1.14	1.29				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		14.3	16.2	1.16	1.21				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		9.5	16.1	0.98	1.21				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		9.4	14.4	0.97	1.16				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8.7	13.2	0.94	1.12				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		9.5	12.6	0.98	1.10				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		10.2	12.3	1.01	1.09				[ADDIN EN.CITE ADDIN EN.CITE.DATA]

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
		10.7	10.5	1.03	1.02				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		6.6	9.9	0.82	1.00				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		9.7	9.1	0.99	0.96				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		10.9	8.5	1.04	0.93				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		6.9	13.2	0.84	1.12				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		7.7	13.9	0.89	1.14				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8.2	12.5	0.91	1.10				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8	15	0.90	1.18				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8.1	14.9	0.91	1.17				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		6.6	15.2	0.82	1.18				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8.5	12.9	0.93	1.11				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		7.2	12.3	0.86	1.09				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		7.3	16.7	0.86	1.22				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		7.6	13.1	0.88	1.12				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8.7	15.6	0.94	1.19				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		8.2	13.9	0.91	1.14				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		7.9	15.1	0.90	1.18				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		7.6	12.3	0.88	1.09				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		11.8	16.1	1.07	1.21				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		40.4	86.3	1.61	1.94				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		46.1	121	1.66	2.08				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		50.4	140	1.70	2.15				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		34.7	51	1.54	1.71				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		39	65.3	1.59	1.81				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		35.4	46.8	1.55	1.67				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		11.3	16.9	1.05	1.23				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
		13.4	20.6	1.13	1.31				[ADDIN EN.CITE ADDIN EN.CITE.DATA]
Yellowstone cutthroat trout	WB-to-egg	0.40	1.65	-0.40	0.22	0.701	0.502	0.92	[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat
		0.45	2.03	-0.35	0.31				location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat
		0.44	2.48	-0.36	0.39				location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat
		0.36	1.36	-0.44	0.13				location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis
		0.50	2.33	-0.30	0.37				Sage and Crow Creeks, Idaho</title><secondary-title>Prepare

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare
		0.36	0.83	-0.44	-0.08				title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare
		0.44	2.26	-0.36	0.35				title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare
		0.28	1.87	-0.55	0.27				title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for
		0.44	1.98	-0.36	0.30				type><contributors><authors><author>Formation Environmer

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer
		0.43	1.34	-0.37	0.13				Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer
		0.31	3.23	-0.51	0.51				Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer
		0.23	1.58	-0.64	0.20				Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re
		0.72	1.93	-0.14	0.29				2012)</DisplayText><record><rec-number>1771</rec-numbe

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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		0.73	1.79	-0.14	0.25				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		0.91	2.06	-0.04	0.31				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		0.85	1.74	-0.07	0.24				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		19.40	40.10	1.29	1.60				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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		21.00	30.00	1.32	1.48				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		18.60	35.60	1.27	1.55				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote
		22.50	30.50	1.35	1.48				[ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
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		9.07	15.40	0.96	1.19				0112.pdf</call-num><urls></urls></record></Cite></EndNote
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		8.63	11.40	0.94	1.06				0112.pdf</call-num><urls></urls></record></Cite></EndNote
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		16.60	12.70	1.22	1.10				title></titles><keywords><keyword>selenium, enrichment fact

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact
		16.30	17.60	1.21	1.25				BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact
		20.70	27.90	1.32	1.45				BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact
		19.40	29.70	1.29	1.47				BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer
		17.00	22.30	1.23	1.35				Summary of exposure conditions: surface water, sediment, tis

Table S10. Regression statistics for log:log relationships between Se concentrations in eggs/ovaries versus whole body/muscle.

Species	Relationship	WB or Muscle Se (µg/g dw)	Egg or Ovary Se (µg/g dw)	Log WB or Muscle Se (µg/g dw)	Log Egg or Ovary Se (µg/g dw)	Slope	Intercept	R^2	Source
									Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis
		16.70	14.60	1.22	1.16				Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis
		25.70	47.60	1.41	1.68				Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote [ADDIN EN.CITE <EndNote><Cite><Author>Formation Envir HabiTech</Author><Year>2012</Year><RecNum>1771</Re 2012)</DisplayText><record><rec-number>1771</rec-numbe id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1771</key></for type><contributors><authors><author>Formation Environmer Summary of exposure conditions: surface water, sediment, tis
		2.56	3.43	0.41	0.54				Sage and Crow Creeks, Idaho</title><secondary-title>Prepare title></titles><keywords><keyword>selenium, enrichment fact BAF</keyword></keywords><dates><year>2012</year></dat location><call-num>https://www.deq.idaho.gov/media/804997 0112.pdf</call-num><urls></urls></record></Cite></EndNote

dw = dry weight
WB = whole body

Table S11. Ratio of egg/ovary Se to whole body/muscle Se at the egg Se EC10.

Species	Egg/Ovary Se EC10 (µg/g dw)[1]	Slope	Intercept	Pred. WB/Muscle Se at Egg Se EC10 (µg/g dw)	Egg/Ovary-to-WB/Muscle Se Ratio
Brook trout	>20	0.821	0.164	>24.2	0.8
Northern pike	20.4	0.881	0.345	12.4	1.6
Brown trout	20.8	1.193	-0.007	12.9	1.6
Westslope cutthroat trout	21	1.101	0.107	12.7	1.7
Bluegill	21.5	1.105	0.343	7.9	2.7
Largemouth bass	22	1.094	0.440	6.7	3.3
Rainbow trout	23	1.046	0.542	6.1	3.8
Mountain whitefish	>33.2	Ratio = 7.5		>4.4	7.5
Dolly Varden	54	0.749	0.417	57.2	0.9

[1] EC10s (or alternative threshold) from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>DeForest</Author><Year>2012</Year><RecNum>1518</RecNum><DisplayText>DeForest et al. (2012)</DisplayText><record><rec-number>1518</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1518</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>DeForest, D.K.</author><author>Gilron, G.</author><author>Armstrong, S.A.</author><author>Robertson, E.L.</author></authors></contributors><titles><title>Species sensitivity distribution (SSD) evaluation for selenium in fish eggs: Considerations for development of a Canadian tissue-based guideline.</title><secondary-title>Integr Environ Assess Manag</secondary-title></titles><periodical><full-title>Integrated Environmental Assessment and Management</full-title><abbr-1>Integr. Environ. Assess. Manag.</abbr-1><abbr-2>Integr Environ Assess Manag</abbr-2><abbr-3>Integrated Environmental Assessment & Management</abbr-3></periodical><pages>6-12</pages><volume>8</volume><number>1</number><keywords><keyword>selenium, fish eggs, SSD, guideline</keyword></keywords><dates><year>2012</year></dates><urls></urls></record></Cite></EndNote>].
EC10 = 10% effect concentration
dw = dry weight
WB = whole body

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SUPPORTING INFORMATION FIGURES

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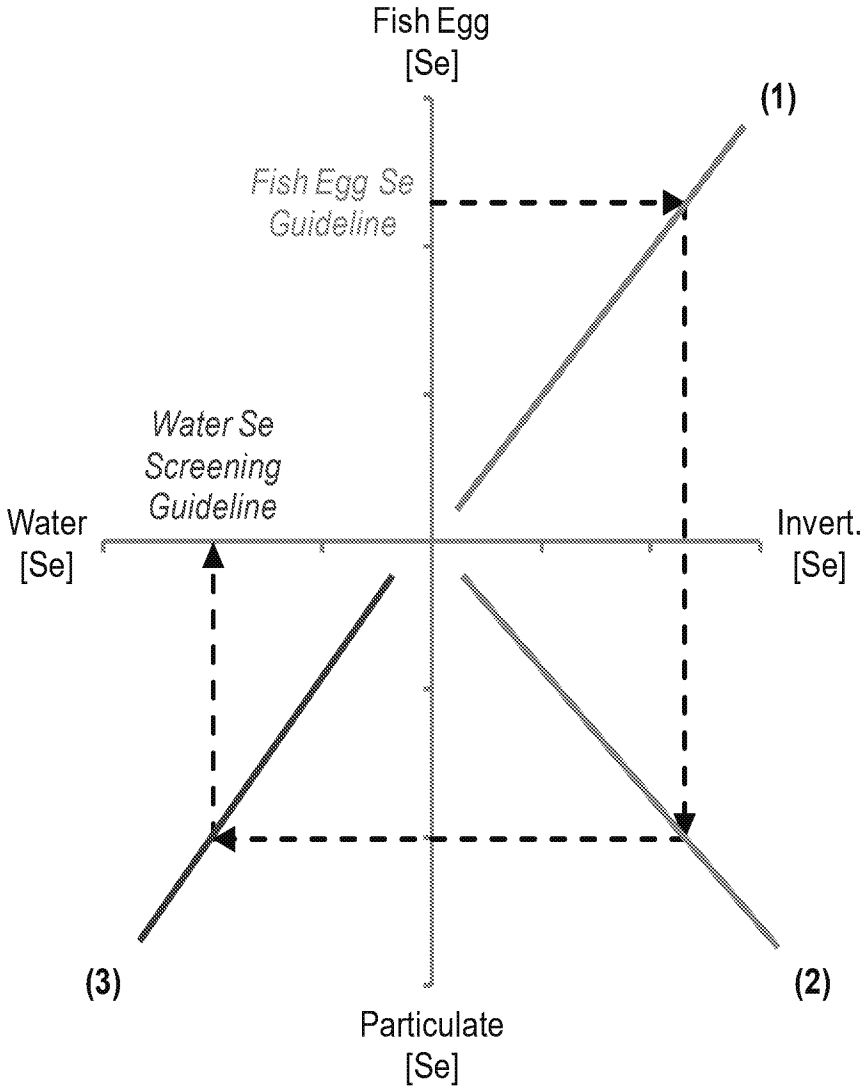

Figure S1. Conceptual diagram for linking a fish Se guideline to a waterborne Se guideline using a quantile regression multi-step model. Quadrants 1, 2, and 3 are labelled for reference in the text.

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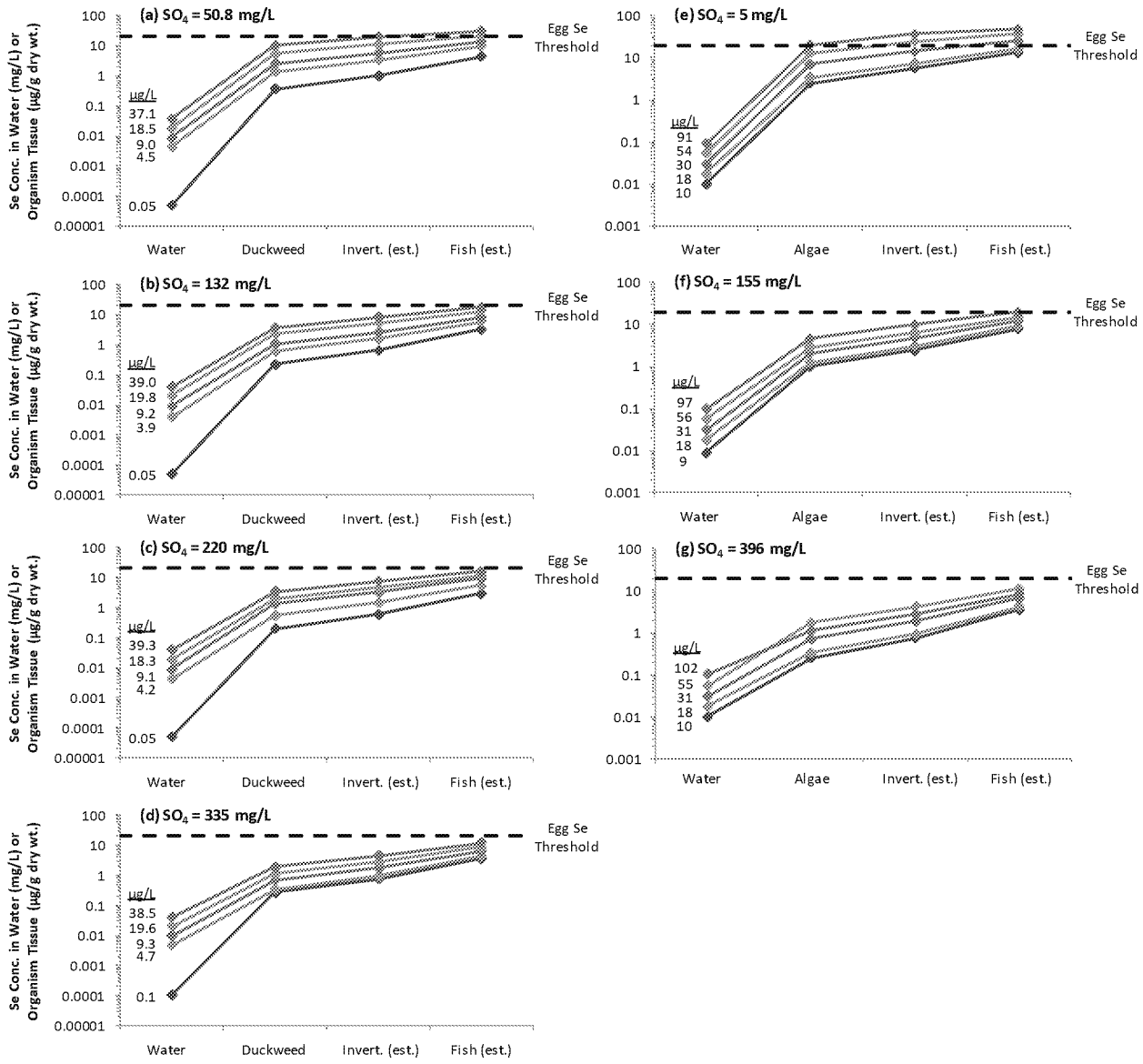

Figure S2. Relationships between waterborne selenium versus (a-d) duckweed selenium and (e-g) algae selenium as a function of sulphate concentrations and comparison of estimated selenium concentrations in fish eggs/ovaries to an egg/ovary selenium guideline of 20 µg/g dw. Estimated selenium concentrations in invertebrates and fish eggs/ovaries were modeled using the 75th quantile regression equations. Duckweed and algae selenium data from [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Nautilus Environmental</Author><Year>2013</Year><RecNum>1750</RecNum><DisplayText>Nautilus Environmental (2013)</DisplayText><record><rec-

number>1750</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">1750</key></foreign-keys><ref-type name="Generic">13</ref-type><contributors><authors><author>Nautilus Environmental,</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">Evaluation of the effect of modifying factors on the uptake of selenium by </style><style face="italic" font="default" size="100%">Lemna minor</style></title><secondary-title>Prepared for the North American Mining Association - Selenium Working Group (NAMC-SWG), Washington, D.C</secondary-title></titles><pages>7</pages><dates><year>2013</year></dates><pub-location>Burnaby (BC), Canada</pub-location><urls></urls></record></Cite></EndNote>] and [ADDIN EN.CITE <EndNote><Cite AuthorYear="1"><Author>Lo</Author><Year>2015</Year><RecNum>2114</RecNum><DisplayText>Lo et al. (2015)</DisplayText><record><rec-number>2114</rec-number><foreign-keys><key app="EN" db-id="f2ses990ar2t0jefdx25x5aj9vavpfddxrpr">2114</key></foreign-keys><ref-type name="Journal Article">17</ref-type><contributors><authors><author>Lo, B.P.</author><author>Elphick, J.R.</author><author>Bailey, H.C.</author><author>Baker, J.A.</author><author>Kennedy, C.J.</author></authors></contributors><titles><title><style face="normal" font="default" size="100%">The effect of sulphate on selenate bioaccumulation in two freshwater primary producers: a duckweed, </style><style face="italic" font="default" size="100%">Lemna minor</style><style face="normal" font="default" size="100%">, and a green alga, </style><style face="italic" font="default" size="100%">Pseudokirchneriella subcapitata.</style></title><secondary-title>Environmental Toxicology and Chemistry</secondary-title></titles><periodical><full-title>Environmental Toxicology and Chemistry</full-title><abbr-1>Environ. Toxicol. Chem.</abbr-1><abbr-2>Environ Toxicol Chem</abbr-2><abbr-3>Environmental Toxicology & Chemistry</abbr-3></periodical><pages>2841-2845</pages><volume>34</volume><dates><year>2015</year></dates><urls></urls></record></Cite></EndNote>].

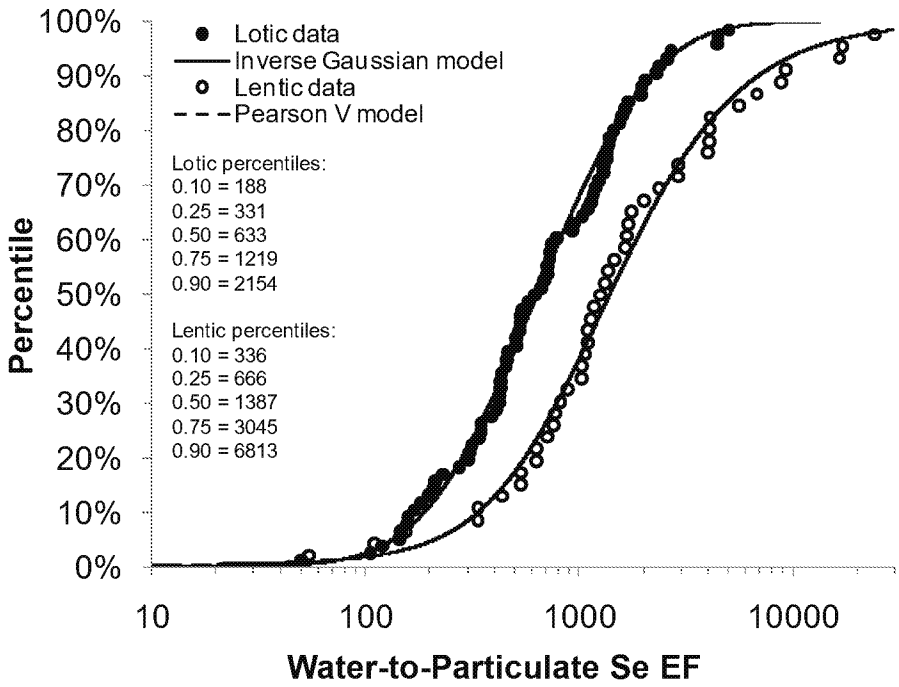

Figure S3. Cumulative probability distributions of selenium enrichment factors (EFs) for lotic (flowing water) and lentic (standing water) sites.

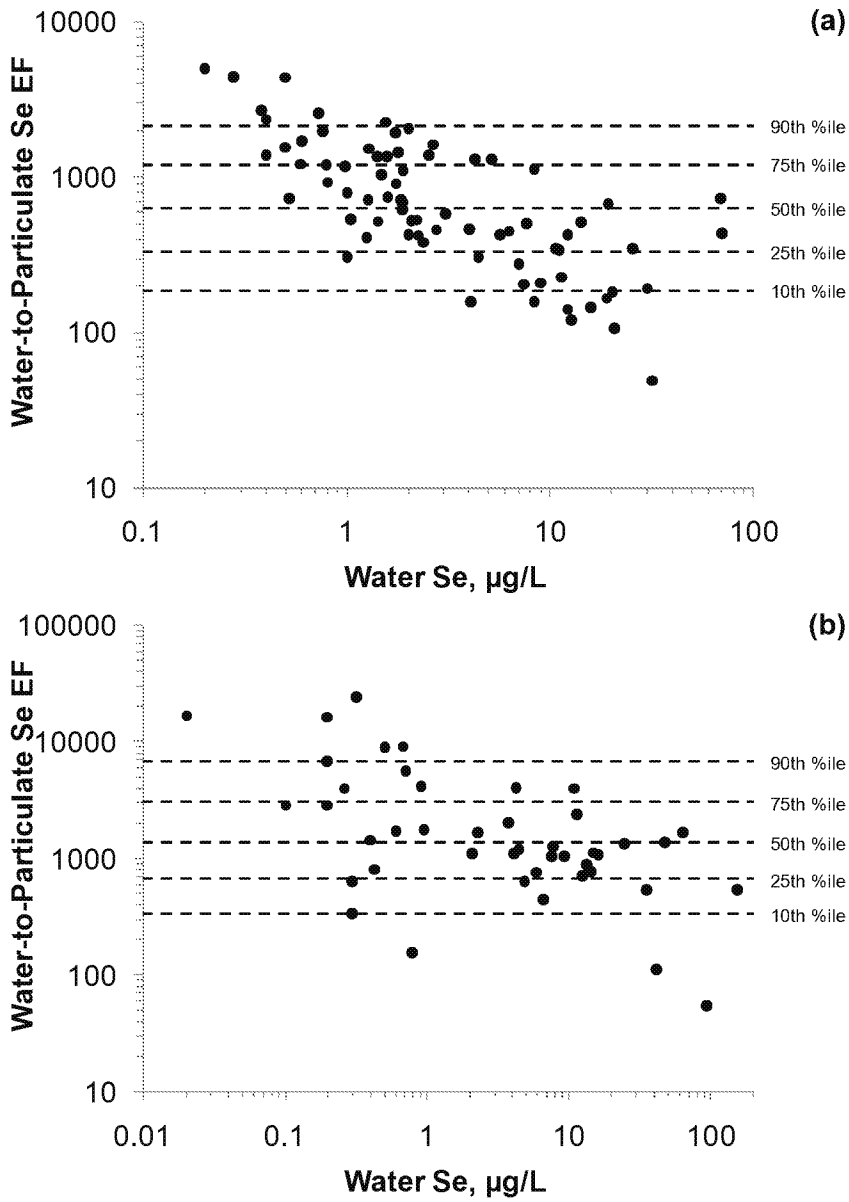

Figure S4. Relationships between selenium enrichment factors (EFs) versus water selenium concentrations for (a) lotic (flowing water) and (b) lentic (standing water) sites. Horizontal dashed lines show percentiles from Figure S3.

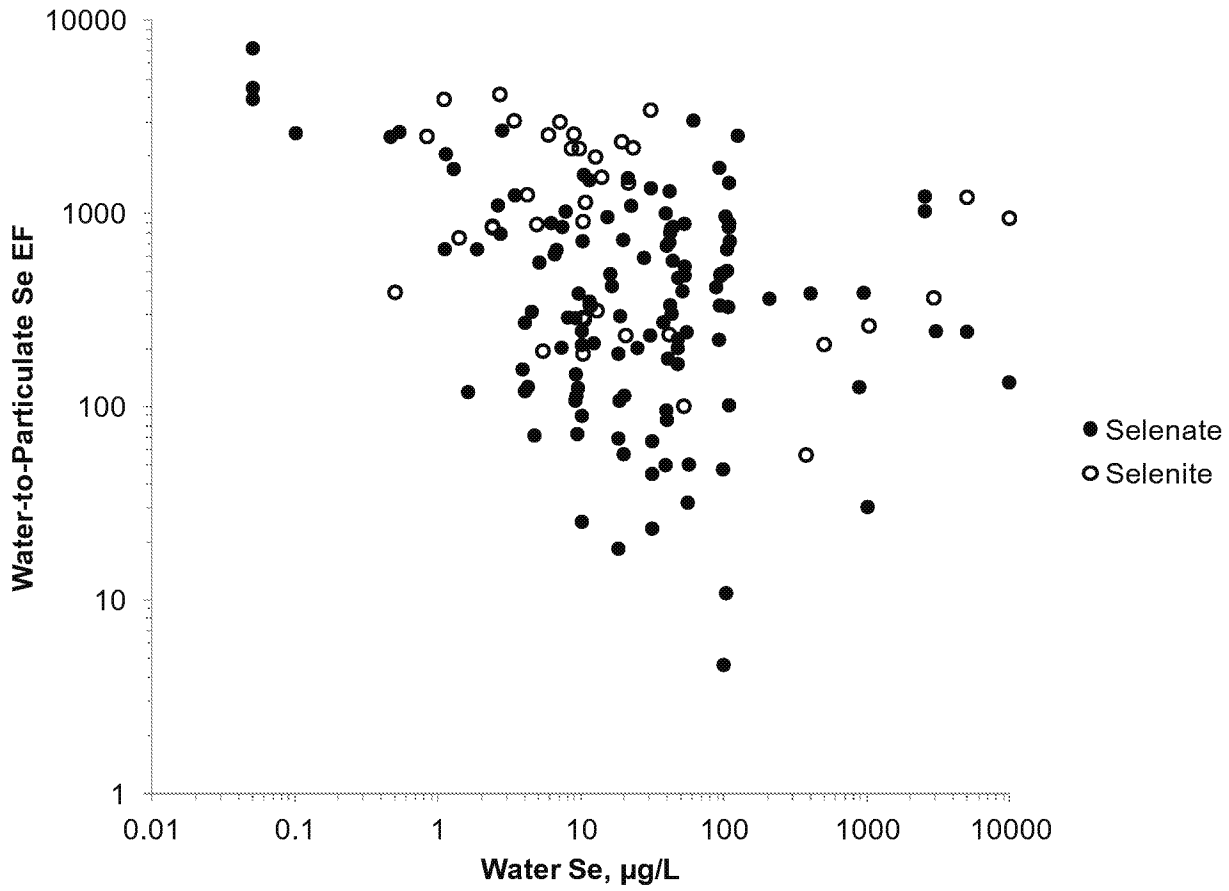

Figure S5. Relationships between selenium enrichment factors (EFs) versus water selenium concentrations based on laboratory studies with selenate and selenite.

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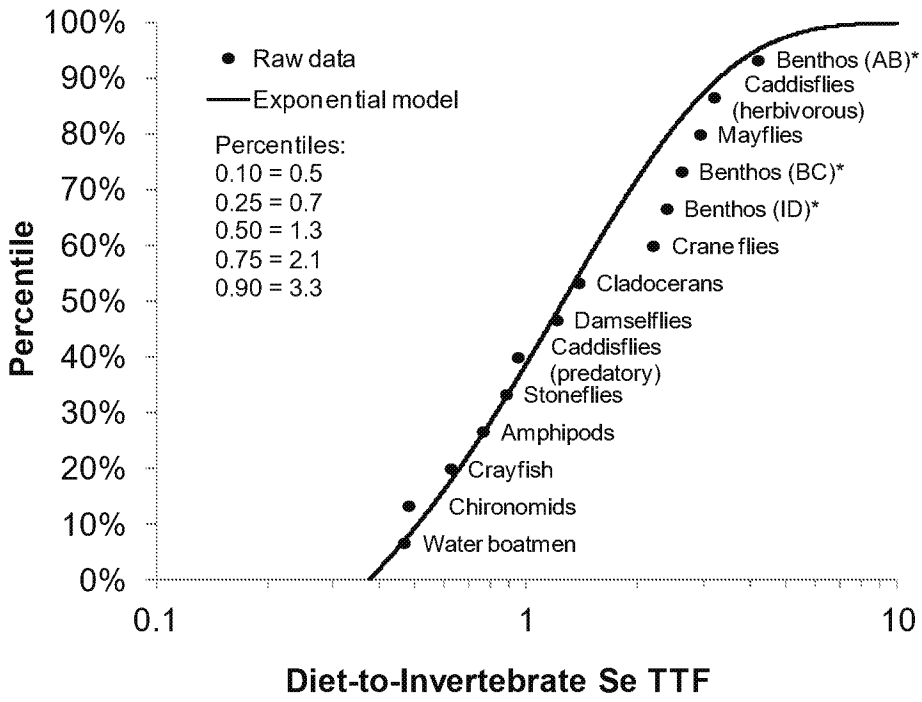

Figure S6. Cumulative probability distribution of selenium trophic transfer factors (TTFs) for invertebrate taxa from laboratory and field studies. *Composite benthic invertebrate samples from several sites in Alberta, Canada (AB), British Columbia, Canada (BC), and Idaho, USA (ID) study areas.

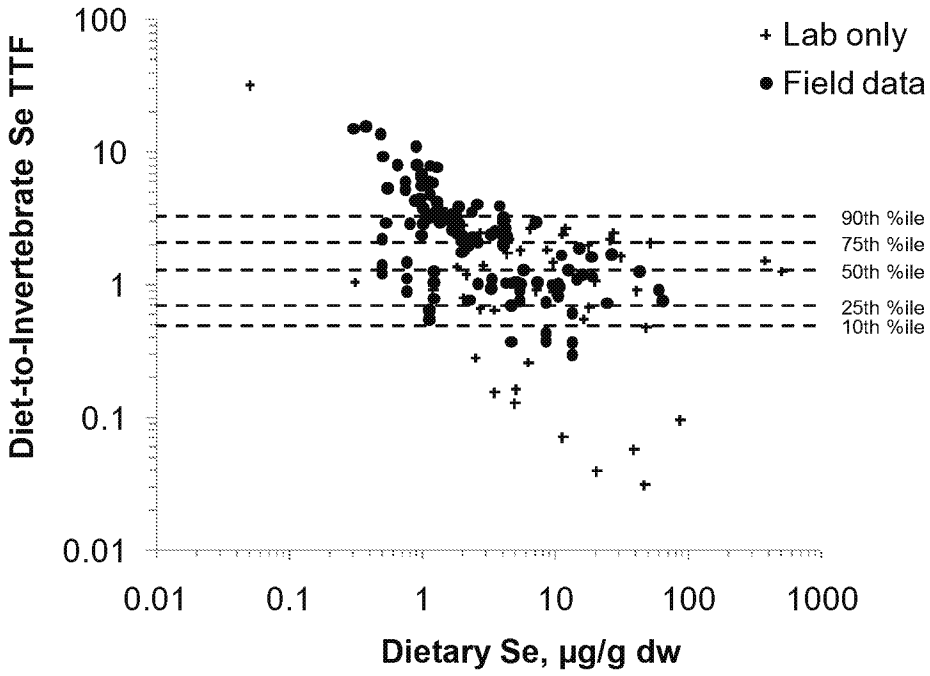

Figure S7. Relationship between selenium trophic transfer factors (TTFs) and dietary selenium concentrations for freshwater invertebrate taxa. Horizontal dashed lines show percentiles from Figure S6.

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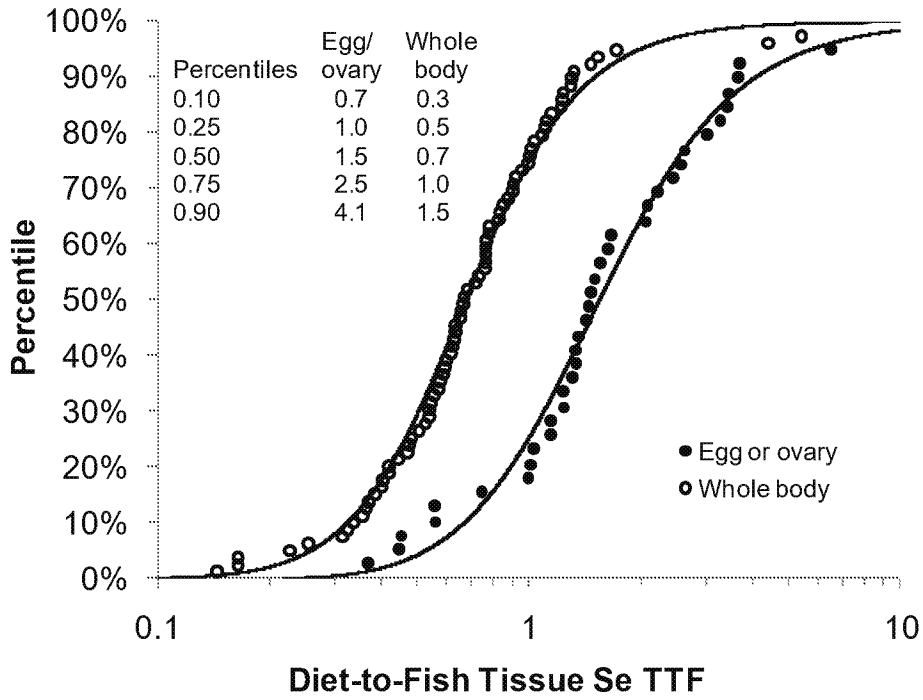
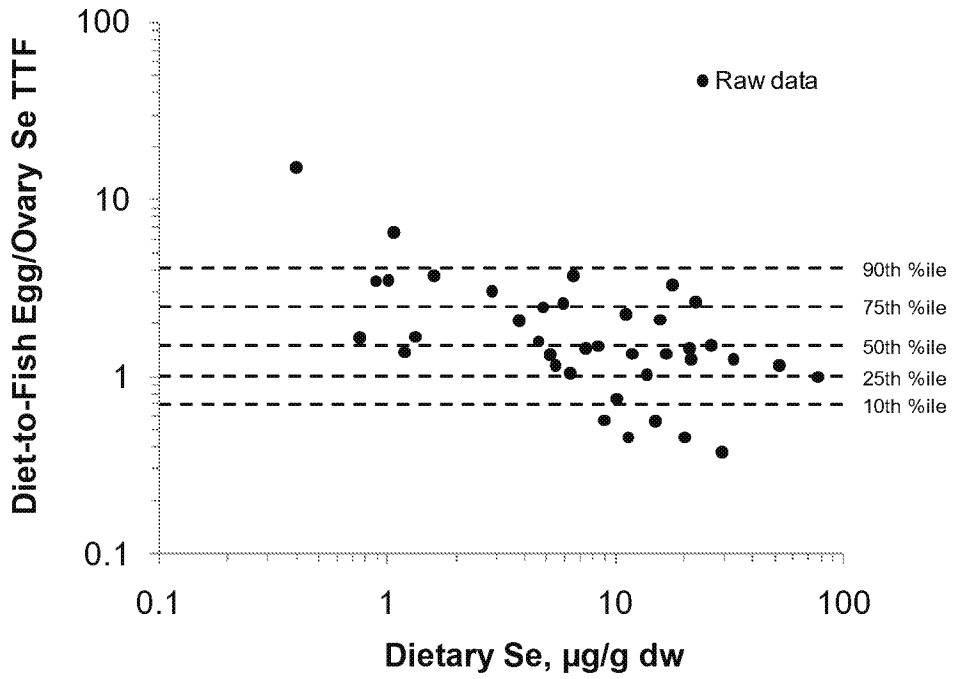


Figure S8. Cumulative probability distribution of selenium trophic transfer factors (TTFs) for freshwater fish eggs or ovaries and for whole-body fish.



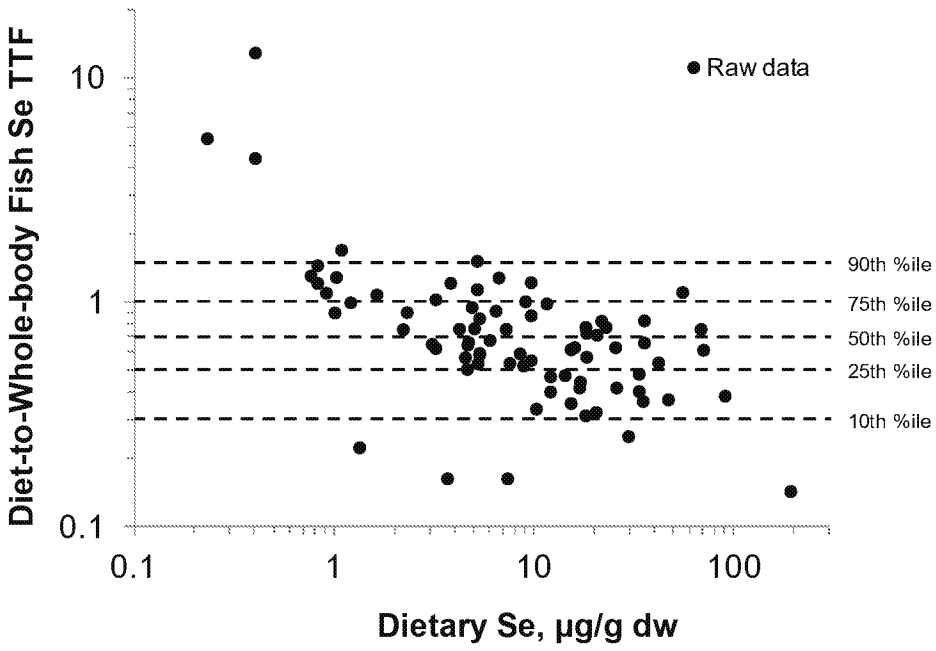


Figure S9. Relationship between selenium trophic transfer factors (TTFs) and dietary selenium concentrations for (a) freshwater fish eggs and ovaries and (b) whole-body freshwater fish. Horizontal dashed lines show percentiles from Figure S8.

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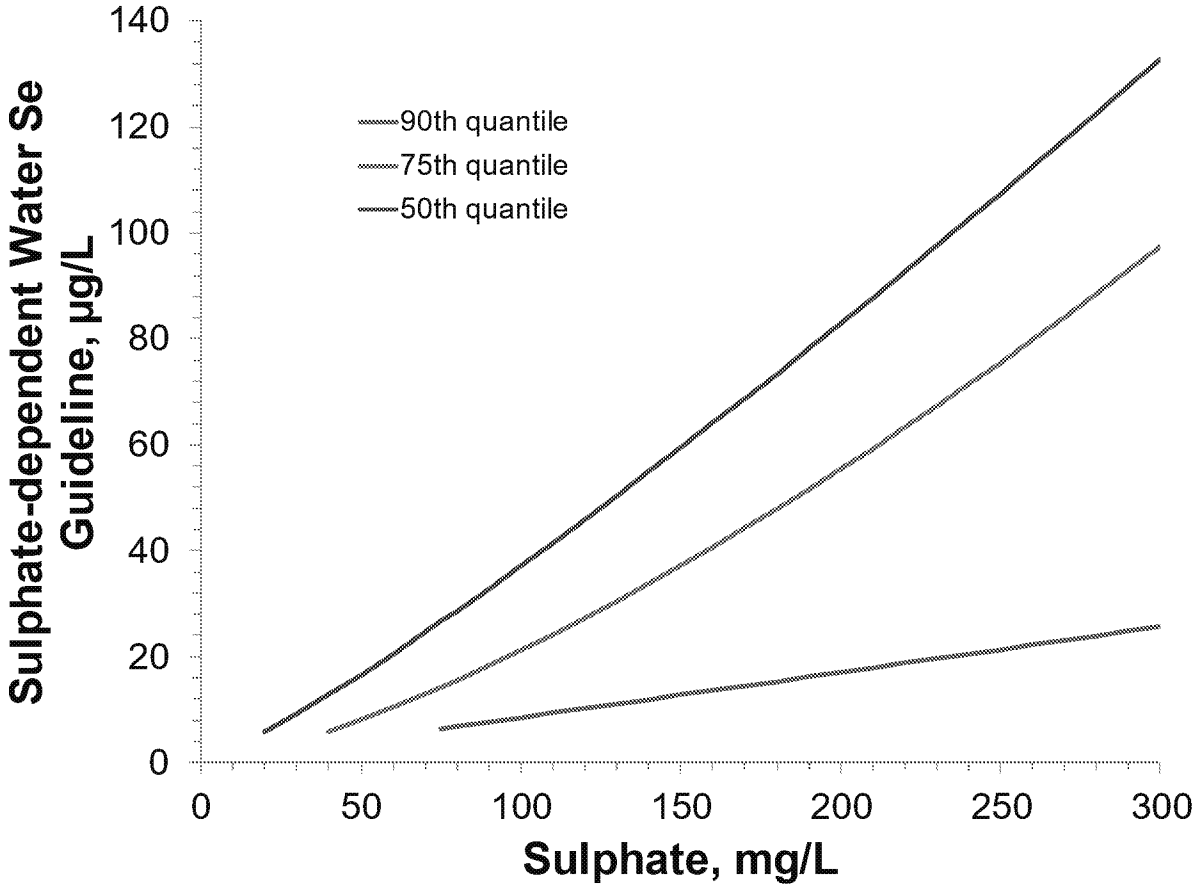

Figure S10. Comparison of possible sulphate-dependent water selenium screening guidelines for selenate-dominated waters based on the 50th, 75th, and 90th quantiles of the multiple quantile regression analysis.

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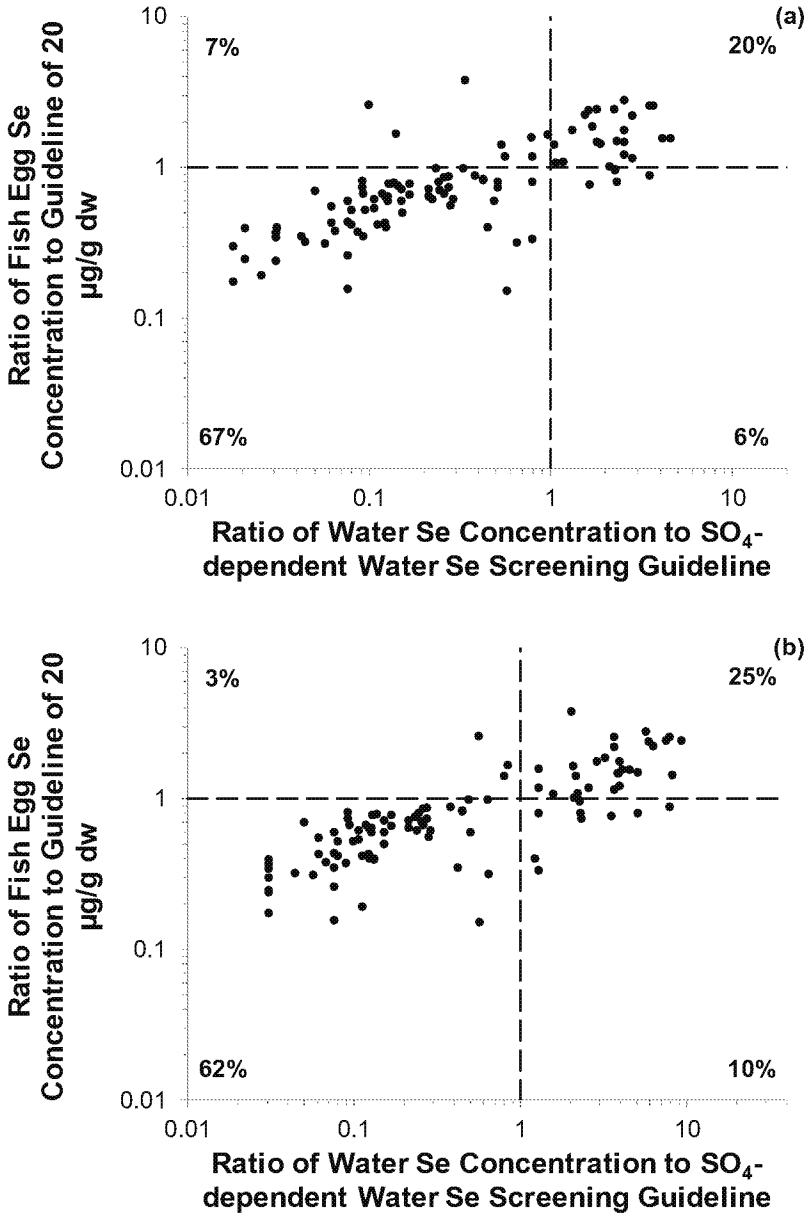

Figure S11. Comparison of mean fish egg selenium concentration:guideline ratios versus co-located mean water selenium:sulphate dependent screening guideline ratios based on (a) the 50th and (b) 90th quantile of the multiple quantile regression analysis. See Figure 7 in the main paper for the results based on the 75th quantile.

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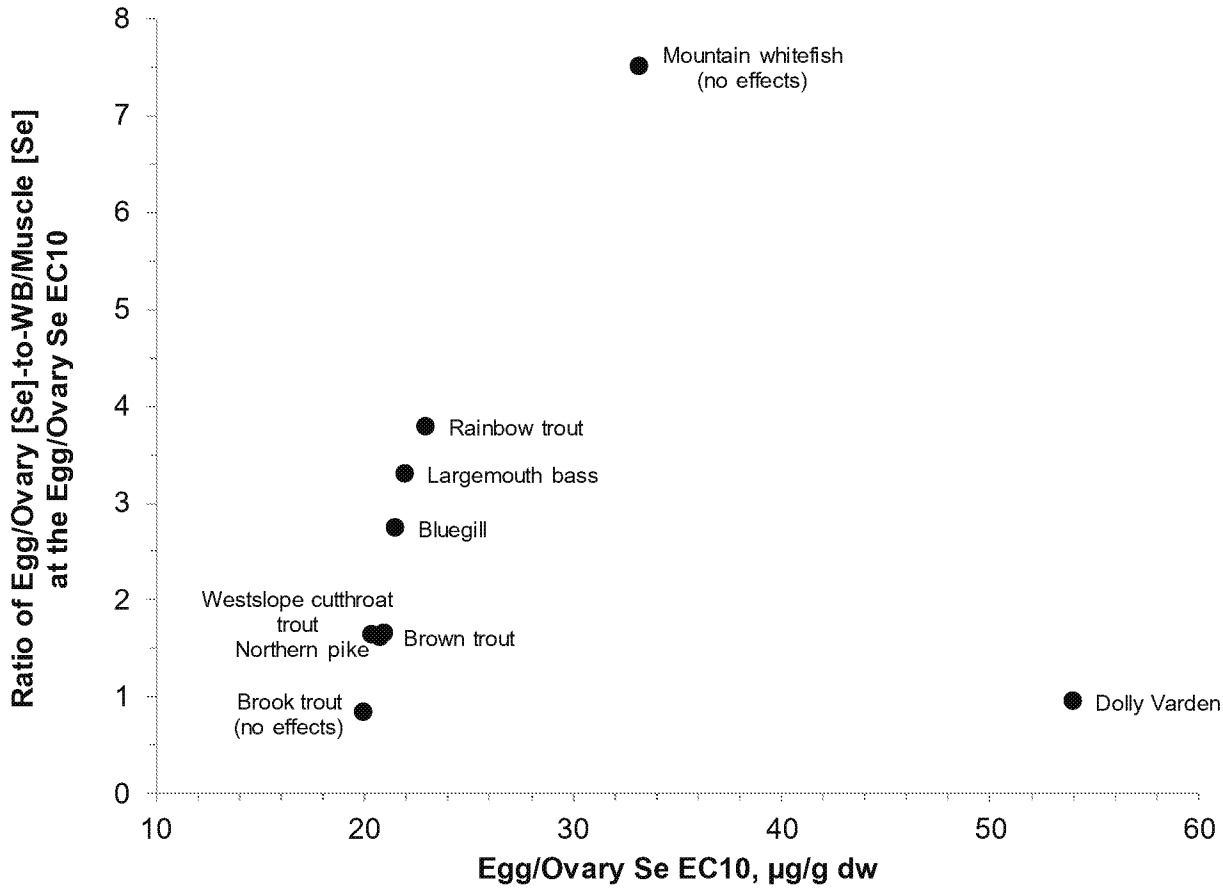

Figure S12. Relationship between egg/ovary Se-to-whole body/muscle ratios versus egg/ovary Se EC10s. See Tables S9 and S10 for data sources.

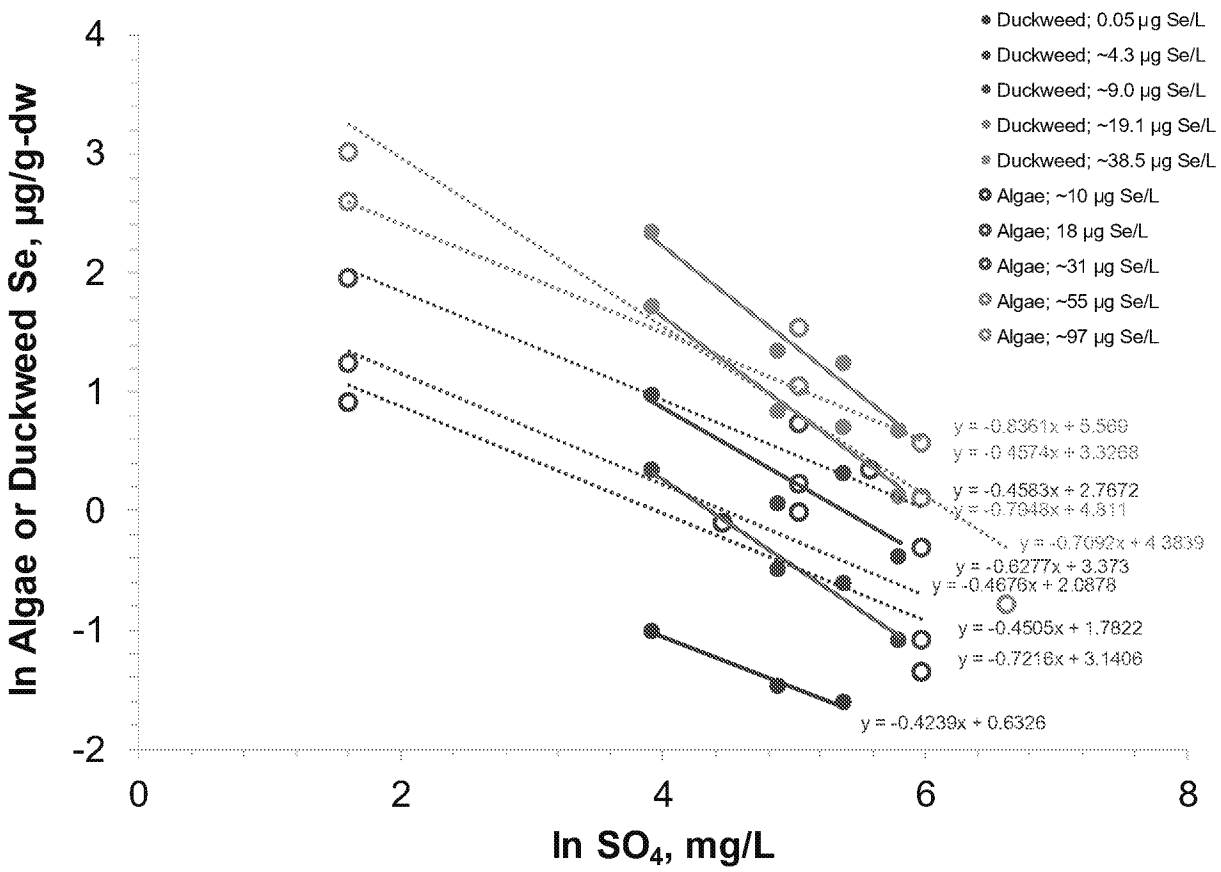

Figure S13. Relationship between Se concentrations in algae or duckweed versus waterborne sulphate concentration. Solid regression lines are fit to closed symbols; dashed regression lines are fit to open symbols.

REFERENCES

[ADDIN EN.REFLIST]

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