

**Appendix D. COC Concentration and Mass Flux Estimates –
Non-detect substitution Method 2 (Lowest RL)**

Table D-1. Groundwater Discharge Concentration and Mass Flux Summary - 2,4-DDD (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
	Admiralty Inlet				0	0	0
Commencement Bay				0	0	0	0
Hood Canal North				0	0	0	0
Elliott Bay	4.80E-04	21	90	2.1	21	3.24E-05	3.24E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				2.1	21	3.24E-05	3.24E-04
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
	Admiralty Inlet	4.80E-04	21	90	5	47	7.16E-05
Commencement Bay	4.80E-04	21	90	35	353	5.35E-04	5.35E-03
Hood Canal North	4.80E-04	21	90	18	179	2.71E-04	2.71E-03
Elliott Bay	4.80E-04	21	90	9	93	1.40E-04	1.40E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	4.80E-04	21	90	12	124	1.87E-04	1.87E-03
Main Basin	4.80E-04	21	90	147	1466	2.22E-03	2.22E-02
Port Gardner	4.80E-04	21	90	7	73	1.11E-04	1.11E-03
San Juan Islands	4.80E-04	21	90	5	50	7.53E-05	7.53E-04
Sinclair/Dyes Inlet	4.80E-04	21	90	126	1257	1.90E-03	1.90E-02
South Sound East	4.80E-04	21	90	170	1702	2.58E-03	2.58E-02
South Sound West	4.80E-04	21	90	85	848	1.28E-03	1.28E-02
Strait of Georgia	4.80E-04	21	90	39	386	5.84E-04	5.84E-03
Whidbey Basin	4.80E-04	21	90	44	444	6.72E-04	6.72E-03
Subtotal				702	7022	0.01	0.11
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
	Admiralty Inlet	4.80E-04	21	90	38	384	5.82E-04
Commencement Bay				0	0	0	0
Hood Canal North	4.80E-04	21	90	146	1458	2.21E-03	2.21E-02
Elliott Bay				0	0	0	0
Hood Canal South	4.80E-04	21	90	574	5741	8.69E-03	8.69E-02
Strait of Juan de Fuca	4.80E-04	21	90	53	528	7.99E-04	7.99E-03
Main Basin	4.80E-04	21	90	133	1331	2.02E-03	2.02E-02
Port Gardner	4.80E-04	21	90	14	139	2.11E-04	2.11E-03
San Juan Islands	4.80E-04	21	90	100	998	1.51E-03	1.51E-02
Sinclair/Dyes Inlet	4.80E-04	21	90	52	520	7.87E-04	7.87E-03
South Sound East	4.80E-04	21	90	193	1929	2.92E-03	2.92E-02
South Sound West	4.80E-04	21	90	549	5486	8.30E-03	8.30E-02
Strait of Georgia	4.80E-04	21	90	108	1076	1.63E-03	1.63E-02
Whidbey Basin	4.80E-04	21	90	169	1686	2.55E-03	2.55E-02
Subtotal				2128	21277	0.03	0.32
* - All non-detect results substituted with the lowest reporting limit of the data set.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.04	0.43

Table D-2. Groundwater Discharge Concentration and Mass Flux Summary - 2,4-DDE (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay				0	0	0	0
Hood Canal North				0	0	0	0
Elliott Bay	4.80E-04	21	90	2.1	21	3.2442E-05	3.24E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				2.1	21	3.24E-05	3.24E-04
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	4.80E-04	21	90	5	47	7.16E-05	7.16E-04
Commencement Bay	4.80E-04	21	90	35	353	5.35E-04	5.35E-03
Hood Canal North	4.80E-04	21	90	18	179	2.71E-04	2.71E-03
Elliott Bay	4.80E-04	21	90	9	93	1.40E-04	1.40E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	4.80E-04	21	90	12	124	1.87E-04	1.87E-03
Main Basin	4.80E-04	21	90	147	1466	2.22E-03	2.22E-02
Port Gardner	4.80E-04	21	90	7	73	1.11E-04	1.11E-03
San Juan Islands	4.80E-04	21	90	20	199	3.01E-04	3.01E-03
Sinclair/Dyes Inlet	4.80E-04	21	90	126	1257	1.90E-03	1.90E-02
South Sound East	4.80E-04	21	90	170	1702	2.58E-03	2.58E-02
South Sound West	4.80E-04	21	90	85	848	1.28E-03	1.28E-02
Strait of Georgia	4.80E-04	21	90	39	386	5.84E-04	5.84E-03
Whidbey Basin	4.80E-04	21	90	44	444	6.72E-04	6.72E-03
Subtotal				717	7171	0.01	0.11
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	4.80E-04	21	90	38	384	5.82E-04	5.82E-03
Commencement Bay				0	0	0	0
Hood Canal North	4.80E-04	21	90	146	1458	2.21E-03	2.21E-02
Elliott Bay				0	0	0	0
Hood Canal South	4.80E-04	21	90	574	5741	8.69E-03	8.69E-02
Strait of Juan de Fuca	4.80E-04	21	90	53	528	7.99E-04	7.99E-03
Main Basin	4.80E-04	21	90	133	1331	2.02E-03	2.02E-02
Port Gardner	4.80E-04	21	90	14	139	2.11E-04	2.11E-03
San Juan Islands	4.80E-04	21	90	85	849	1.29E-03	1.29E-02
Sinclair/Dyes Inlet	4.80E-04	21	90	52	520	7.87E-04	7.87E-03
South Sound East	4.80E-04	21	90	193	1929	2.92E-03	2.92E-02
South Sound West	4.80E-04	21	90	549	5486	8.30E-03	8.30E-02
Strait of Georgia	4.80E-04	21	90	108	1076	1.63E-03	1.63E-02
Whidbey Basin	4.80E-04	21	90	169	1686	2.55E-03	2.55E-02
Subtotal				2113	21128	0.03	0.32
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.04	0.43

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-3. Groundwater Discharge Concentration and Mass Flux Summary - 2,4-DDT (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow Annual Mass Flux (F_{SB}) (kg/yr)	High Flow Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay				0	0	0	0
Hood Canal North				0	0	0	0
Elliott Bay	4.80E-04	21	71	2.1	21	3.24E-05	3.24E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				2.1	21	3.24E-05	3.24E-04
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow Annual Mass Flux (F_{SB}) (kg/yr)	High Flow Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	4.80E-04	21	71	5	47	7.16E-05	7.16E-04
Commencement Bay	4.80E-04	21	71	35	353	5.35E-04	5.35E-03
Hood Canal North	4.80E-04	21	71	18	179	2.71E-04	2.71E-03
Elliott Bay	4.80E-04	21	71	9	93	1.40E-04	1.40E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	4.80E-04	21	71	12	124	1.87E-04	1.87E-03
Main Basin	4.80E-04	21	71	147	1466	2.22E-03	2.22E-02
Port Gardner	4.80E-04	21	71	7	73	1.11E-04	1.11E-03
San Juan Islands	4.80E-04	21	71	5	50	7.53E-05	7.53E-04
Sinclair/Dyes Inlet	4.80E-04	21	71	126	1257	1.90E-03	1.90E-02
South Sound East	4.80E-04	21	71	170	1702	2.58E-03	2.58E-02
South Sound West	4.80E-04	21	71	85	848	1.28E-03	1.28E-02
Strait of Georgia	4.80E-04	21	71	39	386	5.84E-04	5.84E-03
Whidbey Basin	4.80E-04	21	71	44	444	6.72E-04	6.72E-03
Subtotal				702	7022	0.01	0.11
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow Annual Mass Flux (F_{SB}) (kg/yr)	High Flow Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	4.80E-04	21	71	38	384	5.82E-04	5.82E-03
Commencement Bay				0	0	0	0
Hood Canal North	4.80E-04	21	71	146	1458	2.21E-03	2.21E-02
Elliott Bay				0	0	0	0
Hood Canal South	4.80E-04	21	71	574	5741	8.69E-03	8.69E-02
Strait of Juan de Fuca	4.80E-04	21	71	53	528	7.99E-04	7.99E-03
Main Basin	4.80E-04	21	71	133	1331	2.02E-03	2.02E-02
Port Gardner	4.80E-04	21	71	14	139	2.11E-04	2.11E-03
San Juan Islands	4.80E-04	21	71	100	998	1.51E-03	1.51E-02
Sinclair/Dyes Inlet	4.80E-04	21	71	52	520	7.87E-04	7.87E-03
South Sound East	4.80E-04	21	71	193	1929	2.92E-03	2.92E-02
South Sound West	4.80E-04	21	71	549	5486	8.30E-03	8.30E-02
Strait of Georgia	4.80E-04	21	71	108	1076	1.63E-03	1.63E-02
Whidbey Basin	4.80E-04	21	71	169	1686	2.55E-03	2.55E-02
Subtotal				2128	21277	0.03	0.32
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.04	0.43

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-4. Groundwater Discharge Concentration and Mass Flux Summary - 4,4-DDD (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.0028	82	100	3	33	2.88E-04	2.88E-03
Hood Canal North				0	0	0	0
Elliott Bay	4.80E-04	24	83	3	30	4.60E-05	4.60E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands	0.0017	13	85	0.2	2	9.78E-06	9.78E-05
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia				0	0	0	0
Whidbey Basin				0	0	0	0
Subtotal				6.5	65	3.44E-04	3.44E-03
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	4.80E-04	123	95	5	47	7.16E-05	7.16E-04
Commencement Bay	4.80E-04	123	95	32	321	4.86E-04	4.86E-03
Hood Canal North	4.80E-04	123	95	18	179	2.71E-04	2.71E-03
Elliott Bay	4.80E-04	123	95	8	84	1.27E-04	1.27E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	4.80E-04	123	95	12	124	1.87E-04	1.87E-03
Main Basin	4.80E-04	123	95	147	1466	2.22E-03	2.22E-02
Port Gardner	4.80E-04	123	95	7	73	1.11E-04	1.11E-03
San Juan Islands	4.80E-04	123	95	5	50	7.53E-05	7.53E-04
Sinclair/Dyes Inlet	4.80E-04	123	95	126	1257	1.90E-03	1.90E-02
South Sound East	4.80E-04	123	95	170	1702	2.58E-03	2.58E-02
South Sound West	4.80E-04	123	95	85	848	1.28E-03	1.28E-02
Strait of Georgia	4.80E-04	123	95	39	386	5.84E-04	5.84E-03
Whidbey Basin	4.80E-04	123	95	44	444	6.72E-04	6.72E-03
Subtotal				698	6980	0.01	0.11
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	4.80E-04	123	95	38	384	5.82E-04	5.82E-03
Commencement Bay				0	0	0	0
Hood Canal North	4.80E-04	123	95	146	1458	2.21E-03	2.21E-02
Elliott Bay				0	0	0	0
Hood Canal South	4.80E-04	123	95	574	5741	8.69E-03	8.69E-02
Strait of Juan de Fuca	4.80E-04	123	95	53	528	7.99E-04	7.99E-03
Main Basin	4.80E-04	123	95	133	1331	2.02E-03	2.02E-02
Port Gardner	4.80E-04	123	95	14	139	2.11E-04	2.11E-03
San Juan Islands	4.80E-04	123	95	100	996	1.51E-03	1.51E-02
Sinclair/Dyes Inlet	4.80E-04	123	95	52	520	7.87E-04	7.87E-03
South Sound East	4.80E-04	123	95	193	1929	2.92E-03	2.92E-02
South Sound West	4.80E-04	123	95	549	5486	8.30E-03	8.30E-02
Strait of Georgia	4.80E-04	123	95	108	1076	1.63E-03	1.63E-02
Whidbey Basin	4.80E-04	123	95	169	1686	2.55E-03	2.55E-02
Subtotal				2127	21275	0.03	0.32
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.04	0.43

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-5. Groundwater Discharge Concentration and Mass Flux Summary - 4,4-DDE (Method 2)*

IMPACTED AREAS									
Sub-basin Name	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)		
Admiralty Inlet				0	0	0	0		
Commencement Bay	0.0028	86	100	3.3	33	2.88E-04	2.88E-03		
Hood Canal North				0	0	0	0		
Elliott Bay	4.90E-04	24	75	3.0	30	4.70E-05	4.70E-04		
Hood Canal South				0	0	0	0		
Strait of Juan de Fuca				0	0	0	0		
Main Basin				0	0	0	0		
Port Gardner				0	0	0	0		
San Juan Islands	0.0017	13	77	0.2	2	9.78E-06	9.78E-05		
Sinclair/Dyes Inlet				0	0	0	0		
South Sound East				0	0	0	0		
South Sound West				0	0	0	0		
Strait of Georgia				0	0	0	0		
Whidbey Basin				0	0	0	0		
Subtotal				6.5	65	3.45E-04	3.45E-03		
URBAN AMBIENT AREAS									
Sub-basin Name	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)		
Admiralty Inlet	4.90E-04	127	93	5	47	7.31E-05	7.31E-04		
Commencement Bay	4.90E-04	127	93	32	321	4.96E-04	4.96E-03		
Hood Canal North	4.90E-04	127	93	18	179	2.77E-04	2.77E-03		
Elliott Bay	4.90E-04	127	93	8	84	1.29E-04	1.29E-03		
Hood Canal South				0	0	0	0		
Strait of Juan de Fuca	4.90E-04	127	93	12	124	1.91E-04	1.91E-03		
Main Basin	4.90E-04	127	93	147	1466	2.27E-03	2.27E-02		
Port Gardner	4.90E-04	127	93	7	73	1.13E-04	1.13E-03		
San Juan Islands	4.90E-04	127	93	5	50	7.69E-05	7.69E-04		
Sinclair/Dyes Inlet	4.90E-04	127	93	126	1257	1.94E-03	1.94E-02		
South Sound East	4.90E-04	127	93	170	1702	2.63E-03	2.63E-02		
South Sound West	4.90E-04	127	93	85	848	1.31E-03	1.31E-02		
Strait of Georgia	4.90E-04	127	93	39	386	5.96E-04	5.96E-03		
Whidbey Basin	4.90E-04	127	93	44	444	6.86E-04	6.86E-03		
Subtotal				698	6980	0.01	0.11		
NON-URBAN AMBIENT AREAS									
Sub-basin Name	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)		
Admiralty Inlet	4.90E-04	127	93	38	384	5.94E-04	5.94E-03		
Commencement Bay				0	0	0	0		
Hood Canal North	4.90E-04	127	93	146	1458	2.25E-03	2.25E-02		
Elliott Bay				0	0	0	0		
Hood Canal South	4.90E-04	127	93	574	5741	8.87E-03	8.87E-02		
Strait of Juan de Fuca	4.90E-04	127	93	53	528	8.15E-04	8.15E-03		
Main Basin	4.90E-04	127	93	133	1331	2.06E-03	2.06E-02		
Port Gardner	4.90E-04	127	93	14	139	2.16E-04	2.16E-03		
San Juan Islands	4.90E-04	127	93	100	996	1.54E-03	1.54E-02		
Sinclair/Dyes Inlet	4.90E-04	127	93	52	520	8.04E-04	8.04E-03		
South Sound East	4.90E-04	127	93	193	1929	2.98E-03	2.98E-02		
South Sound West	4.90E-04	127	93	549	5486	8.48E-03	8.48E-02		
Strait of Georgia	4.90E-04	127	93	108	1076	1.66E-03	1.66E-02		
Whidbey Basin	4.90E-04	127	93	169	1686	2.61E-03	2.61E-02		
Subtotal				2127	21275	0.03	0.33		
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)		
						0.04	0.44		

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-6. Groundwater Discharge Concentration and Mass Flux Summary - 4,4-DDT (Method 2)*

Sub-basin Name	IMPACTED AREAS							
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet				0	0	0	0	
Commencement Bay	0.011	86	99	3.3	33	1.13E-03	1.13E-02	
Hood Canal North				0	0	0	0	
Elliott Bay	4.90E-04	36	83	3.0	30	4.70E-05	4.70E-04	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca				0	0	0	0	
Main Basin				0	0	0	0	
Port Gardner				0	0	0	0	
San Juan Islands	0.0017	13	100	0.2	2	9.78E-06	9.78E-05	
Sinclair/Dyes Inlet				0	0	0	0	
South Sound East				0	0	0	0	
South Sound West				0	0	0	0	
Strait of Georgia				0	0	0	0	
Whidbey Basin				0	0	0	0	
Subtotal				6.5	65	1.19E-03	0.01	
Sub-basin Name	URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	4.90E-04	142	94	5	47	7.31E-05	7.31E-04	
Commencement Bay	4.90E-04	142	94	32	321	4.96E-04	4.96E-03	
Hood Canal North	4.90E-04	142	94	18	179	2.77E-04	2.77E-03	
Elliott Bay	4.90E-04	142	94	8	84	1.29E-04	1.29E-03	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca	4.90E-04	142	94	12	124	1.91E-04	1.91E-03	
Main Basin	4.90E-04	142	94	147	1466	2.27E-03	2.27E-02	
Port Gardner	4.90E-04	142	94	7	73	1.13E-04	1.13E-03	
San Juan Islands	4.90E-04	142	94	5	50	7.69E-05	7.69E-04	
Sinclair/Dyes Inlet	4.90E-04	142	94	126	1257	1.94E-03	1.94E-02	
South Sound East	4.90E-04	142	94	170	1702	2.63E-03	2.63E-02	
South Sound West	4.90E-04	142	94	85	848	1.31E-03	1.31E-02	
Strait of Georgia	4.90E-04	142	94	39	386	5.96E-04	5.96E-03	
Whidbey Basin	4.90E-04	142	94	44	444	6.86E-04	6.86E-03	
Subtotal				698	6980	0.01	0.11	
Sub-basin Name	NON-URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	4.90E-04	142	94	38	384	5.94E-04	5.94E-03	
Commencement Bay				0	0	0	0	
Hood Canal North	4.90E-04	142	94	146	1458	2.25E-03	2.25E-02	
Elliott Bay				0	0	0	0	
Hood Canal South	4.90E-04	142	94	574	5741	8.87E-03	8.87E-02	
Strait of Juan de Fuca	4.90E-04	142	94	53	528	8.15E-04	8.15E-03	
Main Basin	4.90E-04	142	94	133	1331	2.06E-03	2.06E-02	
Port Gardner	4.90E-04	142	94	14	139	2.16E-04	2.16E-03	
San Juan Islands	4.90E-04	142	94	100	996	1.54E-03	1.54E-02	
Sinclair/Dyes Inlet	4.90E-04	142	94	52	520	8.04E-04	8.04E-03	
South Sound East	4.90E-04	142	94	193	1929	2.98E-03	2.98E-02	
South Sound West	4.90E-04	142	94	549	5486	8.48E-03	8.48E-02	
Strait of Georgia	4.90E-04	142	94	108	1076	1.66E-03	1.66E-02	
Whidbey Basin	4.90E-04	142	94	169	1686	2.61E-03	2.61E-02	
Subtotal				2127	21275	0.03	0.33	
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)	
						0.04	0.45	

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-7. Groundwater Discharge Concentration and Mass Flux Summary - Acenaphthene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	18	94	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.02	228	71	11	107	6.75E-03	6.75E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.004	91	71	6	59	8.17E-04	8.17E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.011	86	45	3	33	1.16E-03	1.16E-02
Port Gardner	0.05	65	60	2	16	2.46E-03	2.46E-02
San Juan Islands	0.018	31	68	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.01	37	62	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.02	93	78	5	51	3.24E-03	3.24E-02
Strait of Georgia	0.005	32	56	1	12	1.82E-04	1.82E-03
Whidbey Basin	0.01	5	80	0.3	3	8.94E-05	8.94E-04
Subtotal				31	308	0.02	0.16
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.004	686	67	5	46	6.36E-04	6.36E-03
Commencement Bay	0.004	686	67	25	246	3.42E-03	3.42E-02
Hood Canal North	0.004	686	67	18	179	2.48E-03	2.48E-02
Elliott Bay	0.004	686	67	6	55	7.65E-04	7.65E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.004	686	67	12	124	1.71E-03	1.71E-02
Main Basin	0.004	686	67	143	1433	1.99E-02	1.99E-01
Port Gardner	0.004	686	67	6	58	7.99E-04	7.99E-03
San Juan Islands	0.004	686	67	5	49	6.80E-04	6.80E-03
Sinclair/Dyes Inlet	0.004	686	67	123	1234	1.71E-02	1.71E-01
South Sound East	0.004	686	67	170	1702	2.36E-02	2.36E-01
South Sound West	0.004	686	67	80	797	1.11E-02	1.11E-01
Strait of Georgia	0.004	686	67	37	374	5.19E-03	5.19E-02
Whidbey Basin	0.004	686	67	44	441	6.12E-03	6.12E-02
Subtotal				674	6737	0.09	0.93
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.002	12	100	38	384	2.91E-03	2.91E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.002	12	100	146	1458	1.10E-02	1.10E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.002	12	100	574	5741	4.34E-02	4.34E-01
Strait of Juan de Fuca	0.002	12	100	53	528	3.99E-03	3.99E-02
Main Basin	0.002	8	100	133	1331	1.01E-02	1.01E-01
Port Gardner	0.002	12	100	14	139	1.06E-03	1.06E-02
San Juan Islands	0.002	12	100	100	996	7.54E-03	7.54E-02
Sinclair/Dyes Inlet	0.002	12	100	52	520	3.94E-03	3.94E-02
South Sound East	0.002	12	100	193	1929	1.46E-02	1.46E-01
South Sound West	0.002	12	100	549	5486	4.15E-02	4.15E-01
Strait of Georgia	0.002	12	100	108	1076	8.14E-03	8.14E-02
Whidbey Basin	0.002	12	100	169	1686	1.28E-02	1.28E-01
Subtotal				2128	21275	0.16	1.6
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.27	2.7

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-8. Groundwater Discharge Concentration and Mass Flux Summary - Acenaphthylene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	100	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.010	221	80	11	107	3.27E-03	3.27E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.003	91	91	6	59	6.32E-04	6.32E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	79	76	3	33	9.89E-04	9.89E-03
Port Gardner	0.05	29	97	2	16	2.46E-03	2.46E-02
San Juan Islands	0.018	31	97	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.011	37	81	2	23	8.08E-04	8.08E-03
South Sound East				0	0	0	0
South Sound West	0.004	94	95	5	51	6.31E-04	6.31E-03
Strait of Georgia	0.005	30	77	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.02	5	100	0.3	3	1.79E-04	1.79E-03
Subtotal				31	308	0.01	0.09
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	638	86	5	46	4.92E-04	4.92E-03
Commencement Bay	0.003	638	86	25	246	2.64E-03	2.64E-02
Hood Canal North	0.003	638	86	18	179	1.92E-03	1.92E-02
Elliott Bay	0.003	638	86	6	55	5.91E-04	5.91E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.003	638	86	12	124	1.32E-03	1.32E-02
Main Basin	0.003	638	86	143	1433	1.54E-02	1.54E-01
Port Gardner	0.003	638	86	6	58	6.17E-04	6.17E-03
San Juan Islands	0.003	638	86	5	49	5.26E-04	5.26E-03
Sinclair/Dyes Inlet	0.003	638	86	123	1234	1.32E-02	1.32E-01
South Sound East	0.003	638	86	170	1702	1.83E-02	1.83E-01
South Sound West	0.003	638	86	80	797	8.54E-03	8.54E-02
Strait of Georgia	0.003	638	86	37	374	4.01E-03	4.01E-02
Whidbey Basin	0.003	638	86	44	441	4.73E-03	4.73E-02
Subtotal				674	6737	0.07	0.72
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01
Subtotal				2128	21275	0.32	3.2
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.40	4.0

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-9. Groundwater Discharge Concentration and Mass Flux Summary - Anthracene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C _{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	High Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	Low Flow GW Annual Mass Flux (F _{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F _{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.02	222	79	12	124	7.85E-03	7.85E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.004	91	80	6	59	6.69E-04	6.69E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	86	64	3	33	9.89E-04	9.89E-03
Port Gardner	0.05	66	80	2	16	2.46E-03	2.46E-02
San Juan Islands	0.018	31	94	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.011	37	84	2	23	8.08E-04	8.08E-03
South Sound East				0	0	0	0
South Sound West	0.019	94	90	5	51	3.07E-03	3.07E-02
Strait of Georgia	0.25	32	56	1	12	9.09E-03	9.09E-02
Whidbey Basin	0.02	5	100	0.3	3	1.79E-04	1.79E-03
Subtotal				33	325	0.03	0.25
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C _{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	High Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	Low Flow GW Annual Mass Flux (F _{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F _{SB}) (kg/yr)
Admiralty Inlet	0.004	685	79	5	46	5.20E-04	5.20E-03
Commencement Bay	0.004	685	79	23	229	2.60E-03	2.60E-02
Hood Canal North	0.004	685	79	18	179	2.03E-03	2.03E-02
Elliott Bay	0.004	685	79	6	55	6.26E-04	6.26E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.004	685	79	12	124	1.40E-03	1.40E-02
Main Basin	0.004	685	79	143	1433	1.63E-02	1.63E-01
Port Gardner	0.004	685	79	6	58	6.53E-04	6.53E-03
San Juan Islands	0.004	685	79	5	49	5.57E-04	5.57E-03
Sinclair/Dyes Inlet	0.004	685	79	123	1234	1.40E-02	1.40E-01
South Sound East	0.004	685	79	170	1702	1.93E-02	1.93E-01
South Sound West	0.004	685	79	80	797	9.05E-03	9.05E-02
Strait of Georgia	0.004	685	79	37	374	4.25E-03	4.25E-02
Whidbey Basin	0.004	685	79	44	441	5.01E-03	5.01E-02
Subtotal				672	6720	0.08	0.76
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C _{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	High Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	Low Flow GW Annual Mass Flux (F _{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F _{SB}) (kg/yr)
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01
Subtotal				2128	21275	0.32	3.2

* - All non-detect results substituted with the lowest reporting limit of the data set.

Total Annual Low Flow Groundwater Mass Flux (F _M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F _M) (kg/yr)
0.42	4.2

Table D-10. Groundwater Discharge Concentration and Mass Flux Summary - Fluorene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.010	221	72	12	124	3.81E-03	3.81E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.004	91	81	6	59	7.06E-04	7.06E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	84	55	3	33	9.89E-04	9.89E-03
Port Gardner	0.05	66	68	2	16	2.46E-03	2.46E-02
San Juan Islands	0.018	31	77	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.01	37	70	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.02	94	83	5	51	3.24E-03	3.24E-02
Strait of Georgia	0.005	30	70	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.01	5	100	0.3	3	8.94E-05	8.94E-04
Subtotal				33	325	0.01	0.12
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.004	680	73	5	46	5.49E-04	5.49E-03
Commencement Bay	0.004	680	73	23	229	2.74E-03	2.74E-02
Hood Canal North	0.004	680	73	18	179	2.14E-03	2.14E-02
Elliott Bay	0.004	680	73	6	55	6.60E-04	6.60E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.004	680	73	12	124	1.48E-03	1.48E-02
Main Basin	0.004	680	73	143	1433	1.72E-02	1.72E-01
Port Gardner	0.004	680	73	6	58	6.90E-04	6.90E-03
San Juan Islands	0.004	680	73	5	49	5.88E-04	5.88E-03
Sinclair/Dyes Inlet	0.004	680	73	123	1234	1.48E-02	1.48E-01
South Sound East	0.004	680	73	170	1702	2.04E-02	2.04E-01
South Sound West	0.004	680	73	80	797	9.55E-03	9.55E-02
Strait of Georgia	0.004	680	73	37	374	4.48E-03	4.48E-02
Whidbey Basin	0.004	680	73	44	441	5.29E-03	5.29E-02
Subtotal				672	6720	0.08	0.81
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.002	12	100	38	384	2.91E-03	2.91E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.002	12	100	146	1458	1.10E-02	1.10E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.002	12	100	574	5741	4.34E-02	4.34E-01
Strait of Juan de Fuca	0.002	12	100	53	528	3.99E-03	3.99E-02
Main Basin	0.002	8	100	133	1331	1.01E-02	1.01E-01
Port Gardner	0.002	12	100	14	139	1.06E-03	1.06E-02
San Juan Islands	0.002	12	100	100	996	7.54E-03	7.54E-02
Sinclair/Dyes Inlet	0.002	12	100	52	520	3.94E-03	3.94E-02
South Sound East	0.002	12	100	193	1929	1.46E-02	1.46E-01
South Sound West	0.002	12	100	549	5486	4.15E-02	4.15E-01
Strait of Georgia	0.002	12	100	108	1076	8.14E-03	8.14E-02
Whidbey Basin	0.002	12	100	169	1686	1.28E-02	1.28E-01
Subtotal				2128	21275	0.16	1.6
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.25	2.5

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-11. Groundwater Discharge Concentration and Mass Flux Summary - Naphthalene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	62	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.009	260	75	12	123	3.65E-03	3.65E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.01	106	80	6	59	1.86E-03	1.86E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.017	121	42	3	33	1.79E-03	1.79E-02
Port Gardner	0.25	70	69	2	16	1.23E-02	1.23E-01
San Juan Islands	0.018	32	78	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.01	77	75	2	23	7.34E-04	7.34E-03
South Sound East	1	8	100	0.3	3	8.09E-03	8.09E-02
South Sound West	0.094	135	80	5	51	1.52E-02	1.52E-01
Strait of Georgia	0.46	33	58	1	12	1.67E-02	1.67E-01
Whidbey Basin	0.01	12	83	0.3	3	8.92E-05	8.92E-04
Subtotal				33	326	0.06	0.61
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.2	11	100	5	46	2.89E-02	2.89E-01
Commencement Bay	0.2	11	100	23	230	1.45E-01	1.45E+00
Hood Canal North	0.2	11	100	18	179	1.13E-01	1.13E+00
Elliott Bay	0.2	11	100	6	55	3.48E-02	3.48E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.2	11	100	12	124	7.79E-02	7.79E-01
Main Basin	0.2	11	100	143	1433	9.04E-01	9.04E+00
Port Gardner	0.2	11	100	6	58	3.63E-02	3.63E-01
San Juan Islands	0.2	11	100	5	49	3.09E-02	3.09E-01
Sinclair/Dyes Inlet	0.2	11	100	123	1234	7.78E-01	7.78E+00
South Sound East	0.2	11	100	170	1700	1.07E+00	1.07E+01
South Sound West	0.2	11	100	80	797	5.03E-01	5.03E+00
Strait of Georgia	0.2	11	100	37	374	2.36E-01	2.36E+00
Whidbey Basin	0.2	11	100	44	441	2.78E-01	2.78E+00
Subtotal				672	6718	4.2	42
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.002	18	100	38	384	2.91E-03	2.91E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.2	6	100	146	1458	9.19E-01	9.19E+00
Elliott Bay				0	0	0	0
Hood Canal South	0.002	18	100	574	5741	4.34E-02	4.34E-01
Strait of Juan de Fuca	0.002	18	100	53	528	3.99E-03	3.99E-02
Main Basin	0.002	8	100	133	1331	1.01E-02	1.01E-01
Port Gardner	0.002	18	100	14	139	1.06E-03	1.06E-02
San Juan Islands	0.002	18	100	100	996	7.54E-03	7.54E-02
Sinclair/Dyes Inlet	0.002	18	100	52	520	3.94E-03	3.94E-02
South Sound East	0.002	18	100	193	1929	1.46E-02	1.46E-01
South Sound West	0.002	18	100	549	5486	4.15E-02	4.15E-01
Strait of Georgia	0.002	18	100	108	1076	8.14E-03	8.14E-02
Whidbey Basin	0.002	18	100	169	1686	1.28E-02	1.28E-01
Subtotal				2128	21275	1.1	11
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						5.4	54

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-12. Groundwater Discharge Concentration and Mass Flux Summary - Phenanthrene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.02	208	75	12	124	7.85E-03	7.85E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.005	91	77	6	59	9.29E-04	9.29E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	79	65	3	33	9.89E-04	9.89E-03
Port Gardner	0.05	66	71	2	16	2.46E-03	2.46E-02
San Juan Islands	0.018	31	84	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.01	32	72	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.02	82	84	5	51	3.24E-03	3.24E-02
Strait of Georgia	0.01	29	52	1	12	3.64E-04	3.64E-03
Whidbey Basin	0.01	5	80	0.3	3	8.94E-05	8.94E-04
Subtotal				33	325	0.02	0.17
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	644	75	5	46	7.23E-04	7.23E-03
Commencement Bay	0.005	644	75	23	229	3.61E-03	3.61E-02
Hood Canal North	0.005	644	75	18	179	2.82E-03	2.82E-02
Elliott Bay	0.005	644	75	6	55	8.69E-04	8.69E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.005	644	75	12	124	1.95E-03	1.95E-02
Main Basin	0.005	644	75	143	1433	2.26E-02	2.26E-01
Port Gardner	0.005	644	75	6	58	9.07E-04	9.07E-03
San Juan Islands	0.005	644	75	5	49	7.73E-04	7.73E-03
Sinclair/Dyes Inlet	0.005	644	75	123	1234	1.95E-02	1.95E-01
South Sound East	0.005	644	75	170	1702	2.68E-02	2.68E-01
South Sound West	0.005	644	75	80	797	1.26E-02	1.26E-01
Strait of Georgia	0.005	644	75	37	374	5.90E-03	5.90E-02
Whidbey Basin	0.005	644	75	44	441	6.95E-03	6.95E-02
Subtotal				672	6720	0.11	1.1
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.002	12	100	38	384	2.91E-03	2.91E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.002	12	100	146	1458	1.10E-02	1.10E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.002	12	100	574	5741	4.34E-02	4.34E-01
Strait of Juan de Fuca	0.002	12	100	53	528	3.99E-03	3.99E-02
Main Basin	0.002	8	100	133	1331	1.01E-02	1.01E-01
Port Gardner	0.002	12	100	14	139	1.06E-03	1.06E-02
San Juan Islands	0.002	12	100	100	996	7.54E-03	7.54E-02
Sinclair/Dyes Inlet	0.002	12	100	52	520	3.94E-03	3.94E-02
South Sound East	0.002	12	100	193	1929	1.46E-02	1.46E-01
South Sound West	0.002	12	100	549	5486	4.15E-02	4.15E-01
Strait of Georgia	0.002	12	100	108	1076	8.14E-03	8.14E-02
Whidbey Basin	0.002	12	100	169	1686	1.28E-02	1.28E-01
Subtotal				2128	21275	0.16	1.6
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.28	2.8

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-13. Groundwater Discharge Concentration and Mass Flux Summary - Benz(a)anthracene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C _{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	High Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	Low Flow GW Annual Mass Flux (F _{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F _{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.009	221	80	11	107	3.17E-03	3.17E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.003	100	86	6	59	4.83E-04	4.83E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	85	96	3	33	9.89E-04	9.89E-03
Port Gardner	0.010	69	90	2	16	4.68E-04	4.68E-03
San Juan Islands	0.010	31	87	0.2	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	81	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.009	108	83	5	51	1.41E-03	1.41E-02
Strait of Georgia	0.005	30	70	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.02	11	100	0.3	3	1.79E-04	1.79E-03
Subtotal				31	308	0.01	0.08
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C _{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	High Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	Low Flow GW Annual Mass Flux (F _{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F _{SB}) (kg/yr)
Admiralty Inlet	0.0026	713	85	5	46	3.76E-04	3.76E-03
Commencement Bay	0.0026	713	85	25	246	2.02E-03	2.02E-02
Hood Canal North	0.0026	713	85	18	179	1.47E-03	1.47E-02
Elliott Bay	0.0026	713	85	6	55	4.52E-04	4.52E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.0026	713	85	12	124	1.01E-03	1.01E-02
Main Basin	0.0026	713	85	143	1433	1.17E-02	1.17E-01
Port Gardner	0.0026	713	85	6	58	4.72E-04	4.72E-03
San Juan Islands	0.0026	713	85	5	49	4.02E-04	4.02E-03
Sinclair/Dyes Inlet	0.0026	713	85	123	1234	1.01E-02	1.01E-01
South Sound East	0.0026	713	85	170	1702	1.40E-02	1.40E-01
South Sound West	0.0026	713	85	80	797	6.53E-03	6.53E-02
Strait of Georgia	0.0026	713	85	37	374	3.07E-03	3.07E-02
Whidbey Basin	0.0026	713	85	44	441	3.62E-03	3.62E-02
Subtotal				674	6737	0.06	0.55
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C _{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	High Flow GW Discharge Volume (Q _{SB DD}) (L/sec)	Low Flow GW Annual Mass Flux (F _{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F _{SB}) (kg/yr)
Admiralty Inlet	0.012	12	100	38	384	1.45E-02	1.45E-01
Commencement Bay				0	0	0	0
Hood Canal North	0.012	12	100	146	1458	5.52E-02	5.52E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.012	12	100	574	5741	2.17E-01	2.17E+00
Strait of Juan de Fuca	0.012	12	100	53	528	2.00E-02	2.00E-01
Main Basin	0.012	8	100	133	1331	5.04E-02	5.04E-01
Port Gardner	0.012	12	100	14	139	5.28E-03	5.28E-02
San Juan Islands	0.012	12	100	100	996	3.77E-02	3.77E-01
Sinclair/Dyes Inlet	0.012	12	100	52	520	1.97E-02	1.97E-01
South Sound East	0.012	12	100	193	1929	7.30E-02	7.30E-01
South Sound West	0.012	12	100	549	5486	2.08E-01	2.08E+00
Strait of Georgia	0.012	12	100	108	1076	4.07E-02	4.07E-01
Whidbey Basin	0.012	12	100	169	1686	6.38E-02	6.38E-01
Subtotal				2128	21275	0.81	8.1

* - All non-detect results substituted with the lowest reporting limit of the data set.

Total Annual Low Flow Groundwater Mass Flux (F _M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F _M) (kg/yr)
0.87	8.7

Table D-14. Groundwater Discharge Concentration and Mass Flux Summary - Benzo[a]pyrene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.009	221	87	11	107	3.17E-03	3.17E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.004	100	94	6	59	7.99E-04	7.99E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.01	84	96	3	33	1.05E-03	1.05E-02
Port Gardner	0.010	69	91	2	16	4.68E-04	4.68E-03
San Juan Islands	0.010	31	97	0.2	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	95	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.009	108	93	5	51	1.52E-03	1.52E-02
Strait of Georgia	0.005	30	77	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.02	11	100	0.3	3	1.79E-04	1.79E-03
Subtotal				31	308	0.01	0.08
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.004	712	91	5	46	6.22E-04	6.22E-03
Commencement Bay	0.004	712	91	25	246	3.34E-03	3.34E-02
Hood Canal North	0.004	712	91	18	179	2.43E-03	2.43E-02
Elliott Bay	0.004	712	91	6	55	7.47E-04	7.47E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.004	712	91	12	124	1.68E-03	1.68E-02
Main Basin	0.004	712	91	143	1433	1.94E-02	1.94E-01
Port Gardner	0.004	712	91	6	58	7.80E-04	7.80E-03
San Juan Islands	0.004	712	91	5	49	6.65E-04	6.65E-03
Sinclair/Dyes Inlet	0.004	712	91	123	1234	1.67E-02	1.67E-01
South Sound East	0.004	712	91	170	1702	2.31E-02	2.31E-01
South Sound West	0.004	712	91	80	797	1.08E-02	1.08E-01
Strait of Georgia	0.004	712	91	37	374	5.07E-03	5.07E-02
Whidbey Basin	0.004	712	91	44	441	5.98E-03	5.98E-02
Subtotal				674	6737	0.09	0.91
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01
Subtotal				2128	21275	0.32	3.2
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.42	4.2

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-15. Groundwater Discharge Concentration and Mass Flux Summary - Benzo(b)fluoranthene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.02	21	100	0.1	1	9.35E-05	9.35E-04
Commencement Bay	0.009	221	84	11	107	3.17E-03	3.17E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.002	100	90	6	59	4.27E-04	4.27E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	84	96	3	33	9.89E-04	9.89E-03
Port Gardner	0.010	69	91	2	16	4.68E-04	4.68E-03
San Juan Islands	0.010	31	97	0.2	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.1	37	92	2	23	7.34E-03	7.34E-02
South Sound East				0	0	0	0
South Sound West	0.009	103	86	5	51	1.52E-03	1.52E-02
Strait of Georgia	0.005	30	80	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.02	11	91	0.3	3	1.79E-04	1.79E-03
Subtotal				31	308	0.01	0.14
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.002	707	89	5	46	3.33E-04	3.33E-03
Commencement Bay	0.002	707	89	25	246	1.79E-03	1.79E-02
Hood Canal North	0.002	707	89	18	179	1.30E-03	1.30E-02
Elliott Bay	0.002	707	89	6	55	4.00E-04	4.00E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.002	707	89	12	124	8.96E-04	8.96E-03
Main Basin	0.002	707	89	143	1433	1.04E-02	1.04E-01
Port Gardner	0.002	707	89	6	58	4.17E-04	4.17E-03
San Juan Islands	0.002	707	89	5	49	3.56E-04	3.56E-03
Sinclair/Dyes Inlet	0.002	707	89	123	1234	8.95E-03	8.95E-02
South Sound East	0.002	707	89	170	1702	1.23E-02	1.23E-01
South Sound West	0.002	707	89	80	797	5.78E-03	5.78E-02
Strait of Georgia	0.002	707	89	37	374	2.71E-03	2.71E-02
Whidbey Basin	0.002	707	89	44	441	3.20E-03	3.20E-02
Subtotal				674	6737	0.05	0.49
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01
Subtotal				2128	21275	0.32	3.2
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.39	3.9

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-16. Groundwater Discharge Concentration and Mass Flux Summary - Benzo[g,h,i]perylene (Method 2)*

Sub-basin Name	IMPACTED AREAS							
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	0.01	21	100	0.1	1	4.67E-05	4.67E-04	
Commencement Bay	0.009	221	94	11	107	3.17E-03	3.17E-02	
Hood Canal North				0	0	0	0	
Elliott Bay	0.003	91	95	6	59	5.39E-04	5.39E-03	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca				0	0	0	0	
Main Basin	0.009	85	98	3	33	9.89E-04	9.89E-03	
Port Gardner	0.05	66	95	2	15	2.44E-03	2.44E-02	
San Juan Islands	0.010	31	100	0.2	2	7.21E-05	7.21E-04	
Sinclair/Dyes Inlet	0.01	37	86	2	23	7.34E-04	7.34E-03	
South Sound East				0	0	0	0	
South Sound West	0.094	93	90	5	52	1.53E-02	1.53E-01	
Strait of Georgia	0.005	30	80	1	12	1.75E-04	1.75E-03	
Whidbey Basin		5	80	0.1	1	5.82E-05	5.82E-04	
Subtotal				31	306	0.02	0.24	
Sub-basin Name	URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	0.003	680	94	5	46	4.19E-04	4.19E-03	
Commencement Bay	0.003	680	94	25	246	2.25E-03	2.25E-02	
Hood Canal North	0.003	680	94	18	179	1.64E-03	1.64E-02	
Elliott Bay	0.003	680	94	6	55	5.04E-04	5.04E-03	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca	0.003	680	94	12	124	1.13E-03	1.13E-02	
Main Basin	0.003	680	94	143	1433	1.31E-02	1.31E-01	
Port Gardner	0.003	680	94	6	58	5.27E-04	5.27E-03	
San Juan Islands	0.003	680	94	5	49	4.48E-04	4.48E-03	
Sinclair/Dyes Inlet	0.003	680	94	123	1234	1.13E-02	1.13E-01	
South Sound East	0.003	680	94	170	1702	1.56E-02	1.56E-01	
South Sound West	0.003	680	94	80	796	7.28E-03	7.28E-02	
Strait of Georgia	0.003	680	94	37	374	3.42E-03	3.42E-02	
Whidbey Basin	0.003	680	94	44	443	4.05E-03	4.05E-02	
Subtotal				674	6739	0.06	0.6	
Sub-basin Name	NON-URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02	
Commencement Bay				0	0	0	0	
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01	
Elliott Bay				0	0	0	0	
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01	
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02	
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01	
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02	
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01	
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02	
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01	
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01	
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01	
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01	
Subtotal				2128	21275	0.32	3.2	
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)	
						0.41	4.1	

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-17. Groundwater Discharge Concentration and Mass Flux Summary - Benzo[k]fluoranthene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	100	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.009	220	90	11	107	3.17E-03	3.17E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.003	99	94	6	59	4.64E-04	4.64E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	82	98	3	33	9.89E-04	9.89E-03
Port Gardner	0.010	69	91	2	16	4.68E-04	4.68E-03
San Juan Islands	0.010	31	97	0.2	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	95	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.009	97	97	5	51	1.52E-03	1.52E-02
Strait of Georgia	0.005	30	80	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.01	11	100	0.3	3	8.94E-05	8.94E-04
Subtotal				31	308	0.01	0.08
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	697	93	5	46	3.61E-04	3.61E-03
Commencement Bay	0.003	697	93	25	246	1.94E-03	1.94E-02
Hood Canal North	0.003	697	93	18	179	1.41E-03	1.41E-02
Elliott Bay	0.003	697	93	6	55	4.34E-04	4.34E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.003	697	93	12	124	9.74E-04	9.74E-03
Main Basin	0.003	697	93	143	1433	1.13E-02	1.13E-01
Port Gardner	0.003	697	93	6	58	4.54E-04	4.54E-03
San Juan Islands	0.003	697	93	5	49	3.87E-04	3.87E-03
Sinclair/Dyes Inlet	0.003	697	93	123	1234	9.73E-03	9.73E-02
South Sound East	0.003	697	93	170	1702	1.34E-02	1.34E-01
South Sound West	0.003	697	93	80	797	6.28E-03	6.28E-02
Strait of Georgia	0.003	697	93	37	374	2.95E-03	2.95E-02
Whidbey Basin	0.003	697	93	44	441	3.48E-03	3.48E-02
Subtotal				674	6737	0.05	0.53
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01
Subtotal				2128	21275	0.32	3.2
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.38	3.8

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-18. Groundwater Discharge Concentration and Mass Flux Summary - Chrysene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow Annual Mass Flux (F_{SB}) (kg/yr)	High Flow Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.009	222	78	11	107	3.17E-03	3.17E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.003	100	85	6	59	6.32E-04	6.32E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	85	94	3	33	9.89E-04	9.89E-03
Port Gardner	0.010	69	88	2	16	4.68E-04	4.68E-03
San Juan Islands	0.010	31	87	0.2	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	86	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.009	108	82	5	51	1.41E-03	1.41E-02
Strait of Georgia	0.005	30	70	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.02	11	91	0.3	3	1.79E-04	1.79E-03
Subtotal				31	308	0.01	0.08
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow Annual Mass Flux (F_{SB}) (kg/yr)	High Flow Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	714	84	5	46	4.92E-04	4.92E-03
Commencement Bay	0.003	714	84	25	246	2.64E-03	2.64E-02
Hood Canal North	0.003	714	84	18	179	1.92E-03	1.92E-02
Elliott Bay	0.003	714	84	6	55	5.91E-04	5.91E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.003	714	84	12	124	1.32E-03	1.32E-02
Main Basin	0.003	714	84	143	1433	1.54E-02	1.54E-01
Port Gardner	0.003	714	84	6	58	6.17E-04	6.17E-03
San Juan Islands	0.003	714	84	5	49	5.26E-04	5.26E-03
Sinclair/Dyes Inlet	0.003	714	84	123	1234	1.32E-02	1.32E-01
South Sound East	0.003	714	84	170	1702	1.83E-02	1.83E-01
South Sound West	0.003	714	84	80	797	8.54E-03	8.54E-02
Strait of Georgia	0.003	714	84	37	374	4.01E-03	4.01E-02
Whidbey Basin	0.003	714	84	44	441	4.73E-03	4.73E-02
Subtotal				674	6737	0.07	0.72
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow Annual Mass Flux (F_{SB}) (kg/yr)	High Flow Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	714	84	38	384	4.12E-03	4.12E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.003	714	84	146	1458	1.56E-02	1.56E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.003	714	84	574	5741	6.16E-02	6.16E-01
Strait of Juan de Fuca	0.003	714	84	53	528	5.66E-03	5.66E-02
Main Basin	0.003	714	84	133	1331	1.43E-02	1.43E-01
Port Gardner	0.003	714	84	14	139	1.50E-03	1.50E-02
San Juan Islands	0.003	714	84	100	996	1.07E-02	1.07E-01
Sinclair/Dyes Inlet	0.003	714	84	52	520	5.58E-03	5.58E-02
South Sound East	0.003	714	84	193	1929	2.07E-02	2.07E-01
South Sound West	0.003	714	84	549	5486	5.88E-02	5.88E-01
Strait of Georgia	0.003	714	84	108	1076	1.15E-02	1.15E-01
Whidbey Basin	0.003	714	84	169	1686	1.81E-02	1.81E-01
Subtotal				2128	21275	0.23	2.3
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.31	3.1

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-19. Groundwater Discharge Concentration and Mass Flux Summary - Dibenzo[a,h]anthracene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	100	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.009	223	98	11	107	3.17E-03	3.17E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.003	99	97	6	59	4.64E-04	4.64E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	85	98	3	33	9.89E-04	9.89E-03
Port Gardner	0.010	31	97	2	16	4.68E-04	4.68E-03
San Juan Islands	0.010	31	100	0.2	2	7.21E-05	7.21E-04
Sinclair/Dyes Inlet	0.01	37	100	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.009	108	94	5	51	1.52E-03	1.52E-02
Strait of Georgia	0.005	30	80	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.02	11	100	0.3	3	1.79E-04	1.79E-03
Subtotal				31	308	0.01	0.08
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.003	676	97	5	46	3.61E-04	3.61E-03
Commencement Bay	0.003	676	97	25	246	1.94E-03	1.94E-02
Hood Canal North	0.003	676	97	18	179	1.41E-03	1.41E-02
Elliott Bay	0.003	676	97	6	55	4.34E-04	4.34E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.003	676	97	12	124	9.74E-04	9.74E-03
Main Basin	0.003	676	97	143	1433	1.13E-02	1.13E-01
Port Gardner	0.003	676	97	6	58	4.54E-04	4.54E-03
San Juan Islands	0.003	676	97	5	49	3.87E-04	3.87E-03
Sinclair/Dyes Inlet	0.003	676	97	123	1234	9.73E-03	9.73E-02
South Sound East	0.003	676	97	170	1702	1.34E-02	1.34E-01
South Sound West	0.003	676	97	80	797	6.28E-03	6.28E-02
Strait of Georgia	0.003	676	97	37	374	2.95E-03	2.95E-02
Whidbey Basin	0.003	676	97	44	441	3.48E-03	3.48E-02
Subtotal				674	6737	0.05	0.53
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.024	12	100	38	384	2.91E-02	2.91E-01
Commencement Bay				0	0	0	0
Hood Canal North	0.024	12	100	146	1458	1.10E-01	1.10E+00
Elliott Bay				0	0	0	0
Hood Canal South	0.024	12	100	574	5741	4.34E-01	4.34E+00
Strait of Juan de Fuca	0.024	12	100	53	528	3.99E-02	3.99E-01
Main Basin	0.024	8	100	133	1331	1.01E-01	1.01E+00
Port Gardner	0.024	12	100	14	139	1.06E-02	1.06E-01
San Juan Islands	0.024	12	100	100	996	7.54E-02	7.54E-01
Sinclair/Dyes Inlet	0.024	12	100	52	520	3.94E-02	3.94E-01
South Sound East	0.024	12	100	193	1929	1.46E-01	1.46E+00
South Sound West	0.024	12	100	549	5486	4.15E-01	4.15E+00
Strait of Georgia	0.024	12	100	108	1076	8.14E-02	8.14E-01
Whidbey Basin	0.024	12	100	169	1686	1.28E-01	1.28E+00
Subtotal				2128	21275	1.6	16
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						1.7	17

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-20. Groundwater Discharge Concentration and Mass Flux Summary - Fluoranthene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	95	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.02	221	76	11	107	6.75E-03	6.75E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.004	91	76	6	59	8.17E-04	8.17E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	85	68	3	33	9.89E-04	9.89E-03
Port Gardner	0.05	66	74	2	15	2.44E-03	2.44E-02
San Juan Islands	0.018	31	87	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.01	37	73	2	23	7.34E-04	7.34E-03
South Sound East				0	0	0	0
South Sound West	0.02	94	89	5	52	3.26E-03	3.26E-02
Strait of Georgia	0.005	30	67	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.01	5	60	0.1	1	2.91E-05	2.91E-04
Subtotal				31	306	0.02	0.15
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.004	681	77	5	46	6.36E-04	6.36E-03
Commencement Bay	0.004	681	77	25	246	3.42E-03	3.42E-02
Hood Canal North	0.004	681	77	18	179	2.48E-03	2.48E-02
Elliott Bay	0.004	681	77	6	55	7.65E-04	7.65E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.004	681	77	12	124	1.71E-03	1.71E-02
Main Basin	0.004	681	77	143	1433	1.99E-02	1.99E-01
Port Gardner	0.004	681	77	6	58	8.00E-04	8.00E-03
San Juan Islands	0.004	681	77	5	49	6.80E-04	6.80E-03
Sinclair/Dyes Inlet	0.004	681	77	123	1234	1.71E-02	1.71E-01
South Sound East	0.004	681	77	170	1702	2.36E-02	2.36E-01
South Sound West	0.004	681	77	80	796	1.10E-02	1.10E-01
Strait of Georgia	0.004	681	77	37	374	5.19E-03	5.19E-02
Whidbey Basin	0.004	681	77	44	443	6.15E-03	6.15E-02
Subtotal				674	6739	0.09	0.94
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01
Subtotal				2128	21275	0.32	3.2
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.43	4.3

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-21. Groundwater Discharge Concentration and Mass Flux Summary - Indeno[1,2,3-c,d]pyrene (Method 2)*

IMPACTED AREAS									
Sub-basin Name	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)		
Admiralty Inlet	0.01	21	100	0.1	1	4.67E-05	4.67E-04		
Commencement Bay	0.009	221	92	11	107	3.17E-03	3.17E-02		
Hood Canal North				0	0	0	0		
Elliott Bay	0.01	100	94	6	59	1.86E-03	1.86E-02		
Hood Canal South				0	0	0	0		
Strait of Juan de Fuca				0	0	0	0		
Main Basin	0.009	85	98	3	33	9.89E-04	9.89E-03		
Port Gardner	0.010	69	96	2	16	4.68E-04	4.68E-03		
San Juan Islands	0.010	31	100	0.2	2	7.21E-05	7.21E-04		
Sinclair/Dyes Inlet	0.01	37	95	2	23	7.34E-04	7.34E-03		
South Sound East				0	0	0	0		
South Sound West	0.009	108	92	5	51	1.52E-03	1.52E-02		
Strait of Georgia	0.005	30	77	1	12	1.75E-04	1.75E-03		
Whidbey Basin	0.02	11	100	0.3	3	1.79E-04	1.79E-03		
Subtotal				31	308	0.01	0.09		
URBAN AMBIENT AREAS									
Sub-basin Name	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)		
Admiralty Inlet	0.003	713	94	5	46	3.76E-04	3.76E-03		
Commencement Bay	0.003	713	94	25	246	2.02E-03	2.02E-02		
Hood Canal North	0.003	713	94	18	179	1.47E-03	1.47E-02		
Elliott Bay	0.003	713	94	6	55	4.52E-04	4.52E-03		
Hood Canal South				0	0	0	0		
Strait of Juan de Fuca	0.003	713	94	12	124	1.01E-03	1.01E-02		
Main Basin	0.003	713	94	143	1433	1.17E-02	1.17E-01		
Port Gardner	0.003	713	94	6	58	4.72E-04	4.72E-03		
San Juan Islands	0.003	713	94	5	49	4.02E-04	4.02E-03		
Sinclair/Dyes Inlet	0.003	713	94	123	1234	1.01E-02	1.01E-01		
South Sound East	0.003	713	94	170	1702	1.40E-02	1.40E-01		
South Sound West	0.003	713	94	80	797	6.53E-03	6.53E-02		
Strait of Georgia	0.003	713	94	37	374	3.07E-03	3.07E-02		
Whidbey Basin	0.003	713	94	44	441	3.62E-03	3.62E-02		
Subtotal				674	6737	0.06	0.55		
NON-URBAN AMBIENT AREAS									
Sub-basin Name	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)		
Admiralty Inlet	0.012	12	100	38	384	1.45E-02	1.45E-01		
Commencement Bay				0	0	0	0		
Hood Canal North	0.012	12	100	146	1458	5.52E-02	5.52E-01		
Elliott Bay				0	0	0	0		
Hood Canal South	0.012	12	100	574	5741	2.17E-01	2.17E+00		
Strait of Juan de Fuca	0.012	12	100	53	528	2.00E-02	2.00E-01		
Main Basin	0.012	8	100	133	1331	5.04E-02	5.04E-01		
Port Gardner	0.012	12	100	14	139	5.28E-03	5.28E-02		
San Juan Islands	0.012	12	100	100	996	3.77E-02	3.77E-01		
Sinclair/Dyes Inlet	0.012	12	100	52	520	1.97E-02	1.97E-01		
South Sound East	0.012	12	100	193	1929	7.30E-02	7.30E-01		
South Sound West	0.012	12	100	549	5486	2.08E-01	2.08E+00		
Strait of Georgia	0.012	12	100	108	1076	4.07E-02	4.07E-01		
Whidbey Basin	0.012	12	100	169	1686	6.38E-02	6.38E-01		
Subtotal				2128	21275	0.81	8.1		
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)		
						0.87	8.7		

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-22. Groundwater Discharge Concentration and Mass Flux Summary - Pyrene (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.01	21	86	0.1	1	4.67E-05	4.67E-04
Commencement Bay	0.02	221	76	11	107	6.75E-03	6.75E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.004	91	77	6	59	6.50E-04	6.50E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.009	85	62	3	33	9.89E-04	9.89E-03
Port Gardner	0.05	66	77	2	15	2.44E-03	2.44E-02
San Juan Islands	0.018	31	87	0.2	2	1.37E-04	1.37E-03
Sinclair/Dyes Inlet	0.02	37	81	2	23	1.47E-03	1.47E-02
South Sound East				0	0	0	0
South Sound West	0.02	94	90	5	52	3.26E-03	3.26E-02
Strait of Georgia	0.005	30	63	1	12	1.75E-04	1.75E-03
Whidbey Basin	0.02	5	80	0.1	1	5.82E-05	5.82E-04
Subtotal				31	306	0.02	0.16
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.004	681	77	5	46	5.06E-04	5.06E-03
Commencement Bay	0.004	681	77	25	246	2.72E-03	2.72E-02
Hood Canal North	0.004	681	77	18	179	1.98E-03	1.98E-02
Elliott Bay	0.004	681	77	6	55	6.08E-04	6.08E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.004	681	77	12	124	1.36E-03	1.36E-02
Main Basin	0.004	681	77	143	1433	1.58E-02	1.58E-01
Port Gardner	0.004	681	77	6	58	6.37E-04	6.37E-03
San Juan Islands	0.004	681	77	5	49	5.41E-04	5.41E-03
Sinclair/Dyes Inlet	0.004	681	77	123	1234	1.36E-02	1.36E-01
South Sound East	0.004	681	77	170	1702	1.88E-02	1.88E-01
South Sound West	0.004	681	77	80	796	8.79E-03	8.79E-02
Strait of Georgia	0.004	681	77	37	374	4.13E-03	4.13E-02
Whidbey Basin	0.004	681	77	44	443	4.89E-03	4.89E-02
Subtotal				674	6739	0.07	0.74
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.005	12	100	38	384	5.82E-03	5.82E-02
Commencement Bay				0	0	0	0
Hood Canal North	0.005	12	100	146	1458	2.21E-02	2.21E-01
Elliott Bay				0	0	0	0
Hood Canal South	0.005	12	100	574	5741	8.69E-02	8.69E-01
Strait of Juan de Fuca	0.005	12	100	53	528	7.99E-03	7.99E-02
Main Basin	0.005	8	100	133	1331	2.02E-02	2.02E-01
Port Gardner	0.005	12	100	14	139	2.11E-03	2.11E-02
San Juan Islands	0.005	12	100	100	996	1.51E-02	1.51E-01
Sinclair/Dyes Inlet	0.005	12	100	52	520	7.87E-03	7.87E-02
South Sound East	0.005	12	100	193	1929	2.92E-02	2.92E-01
South Sound West	0.005	12	100	549	5486	8.30E-02	8.30E-01
Strait of Georgia	0.005	12	100	108	1076	1.63E-02	1.63E-01
Whidbey Basin	0.005	12	100	169	1686	2.55E-02	2.55E-01
Subtotal				2128	21275	0.32	3.2
* - All non-detect results substituted with the lowest reporting limit of the data set.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						0.41	4.1

Table D-23. Groundwater Discharge Concentration and Mass Flux Summary - Diesel Range Organics (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	130	14	100	1	6	2.45E+00	2.45E+01
Commencement Bay	50	135	58	14	140	2.22E+01	2.22E+02
Hood Canal North				0	0	0	0
Elliott Bay	60	114	75	8	78	1.47E+01	1.47E+02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	28	130	56	7	75	6.58E+00	6.58E+01
Port Gardner	94	95	77	2	22	6.44E+00	6.44E+01
San Juan Islands	100	36	86	1	5	1.73E+00	1.73E+01
Sinclair/Dyes Inlet	50	60	77	6	55	8.75E+00	8.75E+01
South Sound East				0	0	0	0
South Sound West	50	114	75	11	109	1.72E+01	1.72E+02
Strait of Georgia	20	29	86	2	17	1.05E+00	1.05E+01
Whidbey Basin	250	18	61	1	12	9.58E+00	9.58E+01
Subtotal				52	519	91	906
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	20	752	70	4	44	2.79E+00	2.79E+01
Commencement Bay	20	752	70	21	213	1.34E+01	1.34E+02
Hood Canal North	20	752	70	18	179	1.13E+01	1.13E+02
Elliott Bay	20	752	70	4	36	2.28E+00	2.28E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	20	752	70	12	124	7.79E+00	7.79E+01
Main Basin	20	752	70	140	1404	8.85E+01	8.85E+02
Port Gardner	20	752	70	5	51	3.24E+00	3.24E+01
San Juan Islands	20	752	70	5	46	2.91E+00	2.91E+01
Sinclair/Dyes Inlet	20	752	70	120	1202	7.58E+01	7.58E+02
South Sound East	20	752	70	170	1702	1.07E+02	1.07E+03
South Sound West	20	752	70	74	739	4.66E+01	4.66E+02
Strait of Georgia	20	752	70	37	369	2.33E+01	2.33E+02
Whidbey Basin	20	752	70	44	436	2.75E+01	2.75E+02
Subtotal				654	6545	413	4128
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	20	752	70	38	381	2.41E+01	2.41E+02
Commencement Bay				0	0	0	0
Hood Canal North	20	752	70	146	1458	9.19E+01	9.19E+02
Elliott Bay				0	0	0	0
Hood Canal South	20	752	70	574	5741	3.62E+02	3.62E+03
Strait of Juan de Fuca	20	752	70	53	528	3.33E+01	3.33E+02
Main Basin	20	752	70	132	1319	8.32E+01	8.32E+02
Port Gardner	20	752	70	14	139	8.80E+00	8.80E+01
San Juan Islands	20	752	70	100	996	6.28E+01	6.28E+02
Sinclair/Dyes Inlet	20	752	70	52	520	3.28E+01	3.28E+02
South Sound East	20	752	70	193	1929	1.22E+02	1.22E+03
South Sound West	20	752	70	549	5486	3.46E+02	3.46E+03
Strait of Georgia	20	752	70	108	1076	6.78E+01	6.78E+02
Whidbey Basin	20	752	70	168	1683	1.06E+02	1.06E+03
Subtotal				2126	21256	1341	13407
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						1844	18441

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-24. Groundwater Discharge Concentration and Mass Flux Summary - Gasoline Range Organics (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	50	15	87	0.3	3	4.96E-01	4.96E+00
Commencement Bay	50	73	58	14	140	2.22E+01	2.22E+02
Hood Canal North				0	0	0	0
Elliott Bay	50	144	71	9	93	1.46E+01	1.46E+02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	50	161	67	6	62	9.81E+00	9.81E+01
Port Gardner	100	102	82	2	18	5.79E+00	5.79E+01
San Juan Islands	50	32	97	1	5	8.67E-01	8.67E+00
Sinclair/Dyes Inlet	50	82	73	6	55	8.75E+00	8.75E+01
South Sound East				0	0	0	0
South Sound West	50	88	85	12	120	1.89E+01	1.89E+02
Strait of Georgia	20	18	72	1	7	4.50E-01	4.50E+00
Whidbey Basin	101	10	30	1	8	2.51E+00	2.51E+01
Subtotal				51	513	84	843
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	50	728	73	4	44	6.97E+00	6.97E+01
Commencement Bay	50	728	73	21	213	3.36E+01	3.36E+02
Hood Canal North	50	728	73	18	179	2.82E+01	2.82E+02
Elliott Bay	50	728	73	2	21	3.37E+00	3.37E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	50	728	73	12	124	1.95E+01	1.95E+02
Main Basin	50	728	73	140	1404	2.21E+02	2.21E+03
Port Gardner	50	728	73	5	55	8.64E+00	8.64E+01
San Juan Islands	50	728	73	5	46	7.27E+00	7.27E+01
Sinclair/Dyes Inlet	50	728	73	120	1202	1.89E+02	1.89E+03
South Sound East	50	728	73	170	1702	2.68E+02	2.68E+03
South Sound West	50	728	73	74	739	1.17E+02	1.17E+03
Strait of Georgia	50	728	73	38	378	5.97E+01	5.97E+02
Whidbey Basin	50	728	73	44	440	6.93E+01	6.93E+02
Subtotal				655	6547	1032	10324
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	50	728	73	38	384	6.06E+01	6.06E+02
Commencement Bay				0	0	0	0
Hood Canal North	50	728	73	146	1458	2.30E+02	2.30E+03
Elliott Bay				0	0	0	0
Hood Canal South	50	728	73	574	5741	9.05E+02	9.05E+03
Strait of Juan de Fuca	50	728	73	53	528	8.32E+01	8.32E+02
Main Basin	50	728	73	133	1331	2.10E+02	2.10E+03
Port Gardner	50	728	73	14	139	2.20E+01	2.20E+02
San Juan Islands	50	728	73	100	996	1.57E+02	1.57E+03
Sinclair/Dyes Inlet	50	728	73	52	520	8.20E+01	8.20E+02
South Sound East	50	728	73	193	1929	3.04E+02	3.04E+03
South Sound West	50	728	73	547	5475	8.63E+02	8.63E+03
Strait of Georgia	50	728	73	108	1076	1.70E+02	1.70E+03
Whidbey Basin	50	728	73	168	1683	2.65E+02	2.65E+03
Subtotal				2126	21260	3352	33523
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						4469	44690

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-25. Groundwater Discharge Concentration and Mass Flux Summary - Lube Oil (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	250	14	100	0.3	3	2.48E+00	2.48E+01
Commencement Bay	250	84	98	14	140	1.11E+02	1.11E+03
Hood Canal North				0	0	0	0
Elliott Bay	69	77	88	9	93	2.02E+01	2.02E+02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	66	159	94	6	62	1.30E+01	1.30E+02
Port Gardner	100	47	91	2	19	6.14E+00	6.14E+01
San Juan Islands	200	39	92	1	5	3.47E+00	3.47E+01
Sinclair/Dyes Inlet	50	53	92	6	55	8.75E+00	8.75E+01
South Sound East				0	0	0	0
South Sound West	210	94	71	11	109	7.21E+01	7.21E+02
Strait of Georgia				0	0	0	0
Whidbey Basin	96	8	63	1	8	2.40E+00	2.40E+01
Subtotal				50	496	239	2392
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	66	579	89	4	44	9.20E+00	9.20E+01
Commencement Bay	66	579	89	21	213	4.43E+01	4.43E+02
Hood Canal North	66	579	89	18	179	3.72E+01	3.72E+02
Elliott Bay	66	579	89	2	21	4.45E+00	4.45E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	66	579	89	12	124	2.57E+01	2.57E+02
Main Basin	66	579	89	142	1416	2.95E+02	2.95E+03
Port Gardner	66	579	89	5	54	1.12E+01	1.12E+02
San Juan Islands	66	579	89	5	46	9.60E+00	9.60E+01
Sinclair/Dyes Inlet	66	579	89	120	1202	2.50E+02	2.50E+03
South Sound East	66	579	89	170	1702	3.54E+02	3.54E+03
South Sound West	66	579	89	74	739	1.54E+02	1.54E+03
Strait of Georgia	66	579	89	39	386	8.02E+01	8.02E+02
Whidbey Basin	66	579	89	44	440	9.15E+01	9.15E+02
Subtotal				657	6566	1367	13666
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	66	579	89	38	384	8.00E+01	8.00E+02
Commencement Bay				0	0	0	0
Hood Canal North	66	579	89	146	1458	3.03E+02	3.03E+03
Elliott Bay				0	0	0	0
Hood Canal South	66	579	89	574	5741	1.19E+03	1.19E+04
Strait of Juan de Fuca	66	579	89	53	528	1.10E+02	1.10E+03
Main Basin	66	579	89	132	1319	2.75E+02	2.75E+03
Port Gardner	66	579	89	14	139	2.90E+01	2.90E+02
San Juan Islands	66	579	89	100	996	2.07E+02	2.07E+03
Sinclair/Dyes Inlet	66	579	89	52	520	1.08E+02	1.08E+03
South Sound East	66	579	89	193	1929	4.02E+02	4.02E+03
South Sound West	66	579	89	549	5486	1.14E+03	1.14E+04
Strait of Georgia	66	579	89	108	1076	2.24E+02	2.24E+03
Whidbey Basin	66	579	89	168	1683	3.50E+02	3.50E+03
Subtotal				2126	21258	4425	44247
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						6030	60305

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-26. Groundwater Discharge Concentration and Mass Flux Summary - Arsenic (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	2.2	9	22	0.2	2	1.46E-02	1.46E+01
Commencement Bay	1.9	223	43	10	99	5.92E-01	5.92E+00
Hood Canal North	13	17	18	1	6	2.53E-01	2.53E+00
Elliott Bay	0.4	104	46	3	33	4.14E-02	4.14E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	1.2	45	7	2	23	8.89E-02	8.89E-01
Port Gardner	4.0	69	6	2	20	2.49E-01	2.49E+00
San Juan Islands	1.35	28	36	0.3	3	1.30E-02	1.30E-01
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	0.37	73	62	3	33	3.87E-02	3.87E-01
Strait of Georgia	0.625	22	23	2	20	3.97E-02	3.97E-01
Whidbey Basin				0	0	0	0
Subtotal				24	240	1.3	13
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	1.0	12	58	5	45	1.43E-01	1.43E+00
Commencement Bay	1.0	12	58	25	255	8.03E-01	8.03E+00
Hood Canal North	1.0	6	67	18	179	5.64E-01	5.64E+00
Elliott Bay	1.0	12	58	8	81	2.56E-01	2.56E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	1.0	12	58	12	124	3.90E-01	3.90E+00
Main Basin	1.0	12	58	144	1442	4.55E+00	4.55E+01
Port Gardner	1.0	12	58	5	53	1.68E-01	1.68E+00
San Juan Islands	1.0	12	58	5	48	1.53E-01	1.53E+00
Sinclair/Dyes Inlet	1.0	12	58	126	1257	3.96E+00	3.96E+01
South Sound East	1.0	12	58	170	1702	5.37E+00	5.37E+01
South Sound West	1.0	12	58	81	815	2.57E+00	2.57E+01
Strait of Georgia	1.0	12	58	37	365	1.15E+00	1.15E+01
Whidbey Basin	1.0	12	58	44	444	1.40E+00	1.40E+01
Subtotal				681	6812	21	215
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.5	43	67	38	384	6.06E-01	6.06E+00
Commencement Bay				0	0	0	0
Hood Canal North	1.0	9	67	145	1451	4.58E+00	4.58E+01
Elliott Bay				0	0	0	0
Hood Canal South	0.5	43	67	574	5741	9.05E+00	9.05E+01
Strait of Juan de Fuca	0.5	43	67	53	528	8.32E-01	8.32E+00
Main Basin	0.5	16	63	133	1331	2.10E+00	2.10E+01
Port Gardner	0.5	43	67	14	139	2.20E-01	2.20E+00
San Juan Islands	1.0	18	72	100	996	3.14E+00	3.14E+01
Sinclair/Dyes Inlet	0.5	43	67	52	520	8.20E-01	8.20E+00
South Sound East	0.5	43	67	193	1929	3.04E+00	3.04E+01
South Sound West	0.5	43	67	549	5486	8.65E+00	8.65E+01
Strait of Georgia	0.5	43	67	108	1076	1.70E+00	1.70E+01
Whidbey Basin	0.5	43	67	169	1686	2.66E+00	2.66E+01
Subtotal				2127	21269	37	374
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						60	602

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-27. Groundwater Discharge Concentration and Mass Flux Summary - Cadmium (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.005	179	78	10	101	1.58E-03	1.58E-02
Hood Canal North				0	0	0	0
Elliott Bay	0.02	82	84	4	40	2.50E-03	2.50E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	1.0	17	100	3	26	8.22E-02	8.22E-01
Port Gardner	0.2	36	64	2	21	1.33E-02	1.33E-01
San Juan Islands	2.0	28	100	0.3	3	1.88E-02	1.88E-01
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	0.037	41	95	3	33	3.84E-03	3.84E-02
Strait of Georgia	0.02	22	68	3	26	1.62E-03	1.62E-02
Whidbey Basin				0	0	0	0
Subtotal				25	249	0.12	1.2
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.04	11	100	5	47	5.97E-03	5.97E-02
Commencement Bay	0.04	11	100	25	253	3.19E-02	3.19E-01
Hood Canal North	1.0	5	100	18	179	5.64E-01	5.64E+00
Elliott Bay	0.04	11	100	7	74	9.39E-03	9.39E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.04	11	100	12	124	1.56E-02	1.56E-01
Main Basin	0.04	11	100	144	1440	1.82E-01	1.82E+00
Port Gardner	0.04	11	100	5	52	6.56E-03	6.56E-02
San Juan Islands	0.04	11	100	5	48	6.11E-03	6.11E-02
Sinclair/Dyes Inlet	0.04	11	100	126	1257	1.59E-01	1.59E+00
South Sound East	0.04	11	100	170	1702	2.15E-01	2.15E+00
South Sound West	0.04	11	100	82	815	1.03E-01	1.03E+00
Strait of Georgia	0.04	11	100	36	360	4.54E-02	4.54E-01
Whidbey Basin	0.04	11	100	44	444	5.60E-02	5.60E-01
Subtotal				680	6796	1.4	14
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.1	19	95	38	384	1.21E-01	1.21E+00
Commencement Bay				0	0	0	0
Hood Canal North	1.0	9	89	146	1458	4.60E+00	4.60E+01
Elliott Bay				0	0	0	0
Hood Canal South	0.1	19	95	574	5741	1.81E+00	1.81E+01
Strait of Juan de Fuca	0.1	19	95	53	528	1.66E-01	1.66E+00
Main Basin	0.1	8	100	133	1331	4.20E-01	4.20E+00
Port Gardner	0.1	19	95	14	139	4.40E-02	4.40E-01
San Juan Islands	0.1	19	95	100	997	3.14E-01	3.14E+00
Sinclair/Dyes Inlet	0.1	19	95	52	520	1.64E-01	1.64E+00
South Sound East	0.1	19	95	193	1929	6.08E-01	6.08E+00
South Sound West	0.1	19	95	549	5486	1.73E+00	1.73E+01
Strait of Georgia	0.1	19	95	108	1076	3.39E-01	3.39E+00
Whidbey Basin	0.1	19	95	169	1686	5.32E-01	5.32E+00
Subtotal				2128	21275	11	108
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						12	124

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-28. Groundwater Discharge Concentration and Mass Flux Summary - Copper (Method 2)*

Sub-basin Name	IMPACTED AREAS							
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	3.0	9	44	0.2	2	2.10E-02	2.10E-01	
Commencement Bay	2.8	180	21	5	53	4.68E-01	4.68E+00	
Hood Canal North				0	0	0	0	
Elliott Bay	0.8	80	39	2	24	5.96E-02	5.96E-01	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca				0	0	0	0	
Main Basin				0	0	0	0	
Port Gardner	1.5	37	46	2	16	7.51E-02	7.51E-01	
San Juan Islands	2.0	28	64	0.3	3	1.89E-02	1.89E-01	
Sinclair/Dyes Inlet				0	0	0	0	
South Sound East				0	0	0	0	
South Sound West	2.55	18	39	2	21	1.69E-01	1.69E+00	
Strait of Georgia	5.0	25	28	3	27	4.25E-01	4.25E+00	
Whidbey Basin				0	0	0	0	
Subtotal				15	146	1.2	12	
Sub-basin Name	URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	1.0	11	91	5	45	1.42E-01	1.42E+00	
Commencement Bay	1.0	11	91	30	300	9.48E-01	9.48E+00	
Hood Canal North	10	5	100	18	179	5.64E+00	5.64E+01	
Elliott Bay	1.0	11	91	9	90	2.85E-01	2.85E+00	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca	1.0	11	91	12	124	3.90E-01	3.90E+00	
Main Basin	1.0	11	91	147	1466	4.62E+00	4.62E+01	
Port Gardner	1.0	11	91	6	57	1.81E-01	1.81E+00	
San Juan Islands	1.0	11	91	5	48	1.53E-01	1.53E+00	
Sinclair/Dyes Inlet	1.0	11	91	126	1257	3.96E+00	3.96E+01	
South Sound East	1.0	11	91	170	1702	5.37E+00	5.37E+01	
South Sound West	1.0	11	91	83	827	2.61E+00	2.61E+01	
Strait of Georgia	1.0	11	91	36	359	1.13E+00	1.13E+01	
Whidbey Basin	1.0	11	91	44	444	1.40E+00	1.40E+01	
Subtotal				690	6899	27	268	
Sub-basin Name	NON-URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	0.4	19	84	38	384	4.85E-01	4.85E+00	
Commencement Bay				0	0	0	0	
Hood Canal North	10	9	100	146	1458	4.60E+01	4.60E+02	
Elliott Bay				0	0	0	0	
Hood Canal South	0.4	19	84	574	5741	7.24E+00	7.24E+01	
Strait of Juan de Fuca	0.4	19	84	53	528	6.66E-01	6.66E+00	
Main Basin	0.4	8	63	133	1331	1.68E+00	1.68E+01	
Port Gardner	0.4	19	84	14	139	1.76E-01	1.76E+00	
San Juan Islands	0.4	19	84	100	996	1.26E+00	1.26E+01	
Sinclair/Dyes Inlet	0.4	19	84	52	520	6.56E-01	6.56E+00	
South Sound East	0.4	19	84	193	1929	2.43E+00	2.43E+01	
South Sound West	0.4	19	84	549	5486	6.92E+00	6.92E+01	
Strait of Georgia	0.4	19	84	108	1076	1.36E+00	1.36E+01	
Whidbey Basin	0.4	19	84	169	1686	2.13E+00	2.13E+01	
Subtotal				2128	21275	71	710	
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)	
						99	990	

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-29. Groundwater Discharge Concentration and Mass Flux Summary - Lead (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	8	23	26	1	6	1.57E-01	1.57E+00
Commencement Bay	0.2	218	58	11	107	6.74E-02	6.74E-01
Hood Canal North				0	0	0	0
Elliott Bay	0.037	130	68	7	68	7.91E-03	7.91E-02
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	1.0	65	95	6	56	1.77E-01	1.77E+00
Port Gardner	0.5	37	54	2	20	3.18E-02	3.18E-01
San Juan Islands	1.0	35	94	0.4	4	1.34E-02	1.34E-01
Sinclair/Dyes Inlet	0.05	63	54	3	32	5.09E-03	5.09E-02
South Sound East				0	0	0	0
South Sound West	0.5	110	74	4	43	6.78E-02	6.78E-01
Strait of Georgia	0.12	25	56	2	23	8.82E-03	8.82E-02
Whidbey Basin	1.3	5	0	0.3	3	1.11E-02	1.11E-01
Subtotal				36	363	0.55	5.5
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	1.0	10	80	4	41	1.30E-01	1.30E+00
Commencement Bay	1.0	10	80	25	247	7.78E-01	7.78E+00
Hood Canal North	10	5	100	18	179	5.64E+00	5.64E+01
Elliott Bay	1.0	10	80	5	46	1.46E-01	1.46E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	1.0	10	80	12	124	3.90E-01	3.90E+00
Main Basin	1.0	10	80	142	1419	4.48E+00	4.48E+01
Port Gardner	1.0	10	80	5	53	1.67E-01	1.67E+00
San Juan Islands	1.0	10	80	5	47	1.49E-01	1.49E+00
Sinclair/Dyes Inlet	1.0	10	80	123	1225	3.86E+00	3.86E+01
South Sound East	1.0	10	80	170	1702	5.37E+00	5.37E+01
South Sound West	1.0	10	80	81	805	2.54E+00	2.54E+01
Strait of Georgia	1.0	10	80	36	362	1.14E+00	1.14E+01
Whidbey Basin	1.0	10	80	44	441	1.39E+00	1.39E+01
Subtotal				669	6692	26	262
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.2	19	74	38	384	2.42E-01	2.42E+00
Commencement Bay				0	0	0	0
Hood Canal North	1.0	9	67	146	1458	4.60E+00	4.60E+01
Elliott Bay				0	0	0	0
Hood Canal South	0.2	19	74	574	5741	3.62E+00	3.62E+01
Strait of Juan de Fuca	0.2	19	74	53	528	3.33E-01	3.33E+00
Main Basin	0.2	8	75	132	1322	8.34E-01	8.34E+00
Port Gardner	0.2	19	74	14	139	8.80E-02	8.80E-01
San Juan Islands	0.2	19	74	100	997	6.29E-01	6.29E+00
Sinclair/Dyes Inlet	0.2	19	74	52	520	3.28E-01	3.28E+00
South Sound East	0.2	19	74	193	1929	1.22E+00	1.22E+01
South Sound West	0.2	19	74	549	5486	3.46E+00	3.46E+01
Strait of Georgia	0.2	19	74	108	1076	6.78E-01	6.78E+00
Whidbey Basin	0.2	19	74	169	1686	1.06E+00	1.06E+01
Subtotal				2127	21266	17	171
* - All non-detect results substituted with the lowest reporting limit of the data set.						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						44	438

Table D-30. Groundwater Discharge Concentration and Mass Flux Summary - Mercury (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.2	147	90	11	106	6.66E-02	6.66E-01
Hood Canal North				0	0	0	0
Elliott Bay	0.001	80	84	3	32	9.99E-05	9.99E-04
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	0.005	45	100	2	20	3.17E-04	3.17E-03
Port Gardner	0.1	36	94	2	17	5.39E-03	5.39E-02
San Juan Islands	0.02	28	100	0.3	3	1.77E-04	1.77E-03
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	0.2	60	97	1	8	4.90E-03	4.90E-02
Strait of Georgia	0.1	23	96	2	24	7.50E-03	7.50E-02
Whidbey Basin				0	0	0	0
Subtotal				21	209	0.09	0.85
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.1	10	100	5	47	1.49E-02	1.49E-01
Commencement Bay	0.1	10	100	25	248	7.81E-02	7.81E-01
Hood Canal North	0.1	5	100	18	179	5.64E-02	5.64E-01
Elliott Bay	0.1	10	100	8	82	2.60E-02	2.60E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.1	10	100	12	124	3.90E-02	3.90E-01
Main Basin	0.1	10	100	145	1446	4.56E-01	4.56E+00
Port Gardner	0.1	10	100	6	56	1.77E-02	1.77E-01
San Juan Islands	0.1	10	100	5	49	1.53E-02	1.53E-01
Sinclair/Dyes Inlet	0.1	10	100	126	1257	3.96E-01	3.96E+00
South Sound East	0.1	10	100	170	1702	5.37E-01	5.37E+00
South Sound West	0.1	10	100	84	840	2.65E-01	2.65E+00
Strait of Georgia	0.1	10	100	36	362	1.14E-01	1.14E+00
Whidbey Basin	0.1	10	100	44	444	1.40E-01	1.40E+00
Subtotal				684	6836	2.2	22
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.1	19	100	38	384	1.21E-01	1.21E+00
Commencement Bay				0	0	0	0
Hood Canal North	0.1	9	100	146	1458	4.60E-01	4.60E+00
Elliott Bay				0	0	0	0
Hood Canal South	0.1	19	100	574	5741	1.81E+00	1.81E+01
Strait of Juan de Fuca	0.1	19	100	53	528	1.66E-01	1.66E+00
Main Basin	0.2	8	100	133	1331	8.40E-01	8.40E+00
Port Gardner	0.1	19	100	14	139	4.40E-02	4.40E-01
San Juan Islands	0.1	19	100	100	997	3.14E-01	3.14E+00
Sinclair/Dyes Inlet	0.1	19	100	52	520	1.64E-01	1.64E+00
South Sound East	0.1	19	100	193	1929	6.08E-01	6.08E+00
South Sound West	0.1	19	100	549	5486	1.73E+00	1.73E+01
Strait of Georgia	0.1	19	100	108	1076	3.39E-01	3.39E+00
Whidbey Basin	0.1	19	100	169	1686	5.32E-01	5.32E+00
Subtotal				2128	21275	7.1	71
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						9.4	94

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-31. Groundwater Discharge Concentration and Mass Flux Summary - Zinc (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	10	9	78	0.3	3	1.03E-01	1.03E+00
Commencement Bay	1.5	104	40	4	42	1.98E-01	1.98E+00
Hood Canal North				0	0	0	0
Elliott Bay	0.7	82	63	4	41	9.10E-02	9.10E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	2.0	35	71	2	22	1.37E-01	1.37E+00
Port Gardner	34	31	35	1	15	1.59E+00	1.59E+01
San Juan Islands	10	28	96	0.4	4	1.14E-01	1.14E+00
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	3.95	14	50	1	6	7.73E-02	7.73E-01
Strait of Georgia	10	25	40	3	31	9.67E-01	9.67E+00
Whidbey Basin				0	0	0	0
Subtotal				16	163	3.3	33
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	23	11	18	4	44	3.15E+00	3.15E+01
Commencement Bay	23	11	18	31	312	2.23E+01	2.23E+02
Hood Canal North	24	5	20	18	179	1.35E+01	1.35E+02
Elliott Bay	23	11	18	7	73	5.21E+00	5.21E+01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	23	11	18	12	124	8.84E+00	8.84E+01
Main Basin	23	11	18	144	1444	1.03E+02	1.03E+03
Port Gardner	23	11	18	6	58	4.17E+00	4.17E+01
San Juan Islands	23	11	18	5	48	3.45E+00	3.45E+01
Sinclair/Dyes Inlet	23	11	18	126	1257	9.00E+01	9.00E+02
South Sound East	23	11	18	170	1702	1.22E+02	1.22E+03
South Sound West	23	11	18	84	842	6.03E+01	6.03E+02
Strait of Georgia	23	11	18	35	355	2.54E+01	2.54E+02
Whidbey Basin	23	11	18	44	444	3.18E+01	3.18E+02
Subtotal				688	6882	493	4934
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	21	19	0	38	384	2.54E+01	2.54E+02
Commencement Bay				0	0	0	0
Hood Canal North	47	9	0	146	1458	2.16E+02	2.16E+03
Elliott Bay				0	0	0	0
Hood Canal South	21	19	0	574	5741	3.80E+02	3.80E+03
Strait of Juan de Fuca	21	19	0	53	528	3.49E+01	3.49E+02
Main Basin	6.9	8	0	133	1331	2.88E+01	2.88E+02
Port Gardner	21	19	0	14	139	9.24E+00	9.24E+01
San Juan Islands	21	19	0	100	996	6.60E+01	6.60E+02
Sinclair/Dyes Inlet	21	19	0	52	520	3.45E+01	3.45E+02
South Sound East	21	19	0	193	1929	1.28E+02	1.28E+03
South Sound West	21	19	0	549	5486	3.63E+02	3.63E+03
Strait of Georgia	21	19	0	108	1076	7.12E+01	7.12E+02
Whidbey Basin	21	19	0	169	1686	1.12E+02	1.12E+03
Subtotal				2127	21275	1469	14691
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						1966	19658

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-32. Groundwater Discharge Concentration and Mass Flux Summary - Bis(2-ethylhexyl)phthalate (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.15	117	81	5	49	2.31E-02	2.31E-01
Hood Canal North				0	0	0	0
Elliott Bay	0.95	71	70	4	37	1.10E-01	1.10E+00
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin	1.0	41	95	3	28	8.67E-02	8.67E-01
Port Gardner	1.1	19	100	1	15	5.19E-02	5.19E-01
San Juan Islands	0.94	27	100	0.3	3	9.96E-03	9.96E-02
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West	0.009	43	88	2	19	5.60E-04	5.60E-03
Strait of Georgia	0.19	29	66	2	15	9.24E-03	9.24E-02
Whidbey Basin				0	0	0	0
Subtotal				17	166	0.29	2.9
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.15	347	83	5	47	2.24E-02	2.24E-01
Commencement Bay	0.15	347	83	30	305	1.44E-01	1.44E+00
Hood Canal North	0.15	347	83	18	179	8.47E-02	8.47E-01
Elliott Bay	0.15	347	83	8	77	3.65E-02	3.65E-01
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	0.15	347	83	12	124	5.84E-02	5.84E-01
Main Basin	0.15	347	83	144	1438	6.80E-01	6.80E+00
Port Gardner	0.15	347	83	6	58	2.75E-02	2.75E-01
San Juan Islands	0.15	347	83	5	48	2.29E-02	2.29E-01
Sinclair/Dyes Inlet	0.15	347	83	126	1257	5.95E-01	5.95E+00
South Sound East	0.15	347	83	170	1702	8.05E-01	8.05E+00
South Sound West	0.15	347	83	83	829	3.92E-01	3.92E+00
Strait of Georgia	0.15	347	83	37	370	1.75E-01	1.75E+00
Whidbey Basin	0.15	347	83	44	444	2.10E-01	2.10E+00
Subtotal				688	6879	3.3	33
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)
Admiralty Inlet	0.15	347	83	38	384	1.82E-01	1.82E+00
Commencement Bay	0.15	347	83	0	0	0	0
Hood Canal North	0.15	347	83	146	1458	6.89E-01	6.89E+00
Elliott Bay	0.15	347	83	0	0	0	0
Hood Canal South	0.15	347	83	574	5741	2.72E+00	2.72E+01
Strait of Juan de Fuca	0.15	347	83	53	528	2.50E-01	2.50E+00
Main Basin	0.15	347	83	133	1331	6.30E-01	6.30E+00
Port Gardner	0.15	347	83	14	139	6.60E-02	6.60E-01
San Juan Islands	0.15	347	83	100	996	4.71E-01	4.71E+00
Sinclair/Dyes Inlet	0.15	347	83	52	520	2.46E-01	2.46E+00
South Sound East	0.15	347	83	193	1929	9.13E-01	9.13E+00
South Sound West	0.15	347	83	549	5486	2.60E+00	2.60E+01
Strait of Georgia	0.15	347	83	108	1076	5.09E-01	5.09E+00
Whidbey Basin	0.15	347	83	169	1686	7.98E-01	7.98E+00
Subtotal				2127	21275	10	101
						Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
						14	136

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-33. Groundwater Discharge Concentration and Mass Flux Summary - Total TCDD (Method 2)*

Sub-basin Name	IMPACTED AREAS						
	Estimated Concentration of Discharge (<i>C_{IMP}</i>) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (<i>Q_{SB DD}</i>) (L/sec)	High Flow GW Discharge Volume (<i>Q_{SB DD}</i>) (L/sec)	Low Flow GW Annual Mass Flux (<i>F_{SB}</i>) (kg/yr)	High Flow GW Annual Mass Flux (<i>F_{SB}</i>) (kg/yr)
Admiralty Inlet				0	0	0	0
Commencement Bay	0.083	9	100	2	20	5.16E-03	5.16E-02
Hood Canal North				0	0	0	0
Elliott Bay				0	0	0	0
Hood Canal South				0	0	0	0
Strait of Juan de Fuca				0	0	0	0
Main Basin				0	0	0	0
Port Gardner				0	0	0	0
San Juan Islands				0	0	0	0
Sinclair/Dyes Inlet				0	0	0	0
South Sound East				0	0	0	0
South Sound West				0	0	0	0
Strait of Georgia	1.80E-06	12	100	1	12	6.77E-08	6.77E-07
Whidbey Basin				0	0	0	0
Subtotal				3	32	0.01	0.05
Sub-basin Name	URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (<i>C_{UA}</i>) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (<i>Q_{SB DD}</i>) (L/sec)	High Flow GW Discharge Volume (<i>Q_{SB DD}</i>) (L/sec)	Low Flow GW Annual Mass Flux (<i>F_{SB}</i>) (kg/yr)	High Flow GW Annual Mass Flux (<i>F_{SB}</i>) (kg/yr)
Admiralty Inlet	6.86E-04	24	100	5	47	1.02E-04	1.02E-03
Commencement Bay	6.86E-04	24	100	33	334	7.22E-04	7.22E-03
Hood Canal North	6.86E-04	24	100	18	179	3.87E-04	3.87E-03
Elliott Bay	6.86E-04	24	100	11	114	2.47E-04	2.47E-03
Hood Canal South				0	0	0	0
Strait of Juan de Fuca	6.86E-04	24	100	12	124	2.67E-04	2.67E-03
Main Basin	6.86E-04	24	100	147	1466	3.17E-03	3.17E-02
Port Gardner	6.86E-04	24	100	7	73	1.58E-04	1.58E-03
San Juan Islands	6.86E-04	24	100	5	50	1.08E-04	1.08E-03
Sinclair/Dyes Inlet	6.86E-04	24	100	126	1257	2.72E-03	2.72E-02
South Sound East	6.86E-04	24	100	170	1702	3.68E-03	3.68E-02
South Sound West	6.86E-04	24	100	85	848	1.83E-03	1.83E-02
Strait of Georgia	6.86E-04	24	100	37	374	8.08E-04	8.08E-03
Whidbey Basin	6.86E-04	24	100	44	444	9.60E-04	9.60E-03
Subtotal				701	7012	0.02	0.15
Sub-basin Name	NON-URBAN AMBIENT AREAS						
	Estimated Concentration of Discharge (<i>C_{NUA}</i>) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume (<i>Q_{SB DD}</i>) (L/sec)	High Flow GW Discharge Volume (<i>Q_{SB DD}</i>) (L/sec)	Low Flow GW Annual Mass Flux (<i>F_{SB}</i>) (kg/yr)	High Flow GW Annual Mass Flux (<i>F_{SB}</i>) (kg/yr)
Admiralty Inlet	6.86E-04	24	100	38	384	8.31E-04	8.31E-03
Commencement Bay				0	0	0	0
Hood Canal North	6.86E-04	24	100	146	1458	3.15E-03	3.15E-02
Elliott Bay				0	0	0	0
Hood Canal South	6.86E-04	24	100	574	5741	1.24E-02	1.24E-01
Strait of Juan de Fuca	6.86E-04	24	100	53	528	1.14E-03	1.14E-02
Main Basin	6.86E-04	24	100	133	1331	2.88E-03	2.88E-02
Port Gardner	6.86E-04	24	100	14	139	3.02E-04	3.02E-03
San Juan Islands	6.86E-04	24	100	100	998	2.16E-03	2.16E-02
Sinclair/Dyes Inlet	6.86E-04	24	100	52	520	1.13E-03	1.13E-02
South Sound East	6.86E-04	24	100	193	1929	4.17E-03	4.17E-02
South Sound West	6.86E-04	24	100	549	5486	1.19E-02	1.19E-01
Strait of Georgia	6.86E-04	24	100	108	1076	2.33E-03	2.33E-02
Whidbey Basin	6.86E-04	24	100	169	1686	3.65E-03	3.65E-02
Subtotal				2128	21277	0.05	0.46
						Total Annual Low Flow Groundwater Mass Flux (<i>F_M</i>) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (<i>F_M</i>) (kg/yr)
						0.07	0.66

* - All non-detect results substituted with the lowest reporting limit of the data set.

Table D-34. Groundwater Discharge Concentration and Mass Flux Summary - Total TCDF (Method 2)*

Sub-basin Name	IMPACTED AREAS							
	Estimated Concentration of Discharge (C_{IMP}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet				0	0	0	0	
Commencement Bay	0.07	9	100	2	20	4.35E-03	4.35E-02	
Hood Canal North				0	0	0	0	
Elliott Bay				0	0	0	0	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca				0	0	0	0	
Main Basin				0	0	0	0	
Port Gardner				0	0	0	0	
San Juan Islands				0	0	0	0	
Sinclair/Dyes Inlet				0	0	0	0	
South Sound East				0	0	0	0	
South Sound West				0	0	0	0	
Strait of Georgia	1.40E-06	12	92	1	12	5.26E-08	5.26E-07	
Whidbey Basin				0	0	0	0	
Subtotal				3	32	4.35E-03	0.04	
Sub-basin Name	URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{UA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	0.0014	24	88	5	47	2.09E-04	2.09E-03	
Commencement Bay	0.0014	24	88	33	334	1.47E-03	1.47E-02	
Hood Canal North	0.0014	24	88	18	179	7.90E-04	7.90E-03	
Elliott Bay	0.0014	24	88	11	114	5.03E-04	5.03E-03	
Hood Canal South				0	0	0	0	
Strait of Juan de Fuca	0.0014	24	88	12	124	5.45E-04	5.45E-03	
Main Basin	0.0014	24	88	147	1466	6.47E-03	6.47E-02	
Port Gardner	0.0014	24	88	7	73	3.23E-04	3.23E-03	
San Juan Islands	0.0014	24	88	5	50	2.20E-04	2.20E-03	
Sinclair/Dyes Inlet	0.0014	24	88	126	1257	5.55E-03	5.55E-02	
South Sound East	0.0014	24	88	170	1702	7.52E-03	7.52E-02	
South Sound West	0.0014	24	88	85	848	3.74E-03	3.74E-02	
Strait of Georgia	0.0014	24	88	37	374	1.65E-03	1.65E-02	
Whidbey Basin	0.0014	24	88	44	444	1.96E-03	1.96E-02	
Subtotal				701	7012	0.03	0.31	
Sub-basin Name	NON-URBAN AMBIENT AREAS							
	Estimated Concentration of Discharge (C_{NUA}) (ug/L)*	Number of Samples Used to Estimate Concentration	Percent (%) of sample set reported as non-detect	Low Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	High Flow GW Discharge Volume ($Q_{SB DD}$) (L/sec)	Low Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	High Flow GW Annual Mass Flux (F_{SB}) (kg/yr)	
Admiralty Inlet	0.0014	24	88	38	384	1.70E-03	1.70E-02	
Commencement Bay				0	0	0	0	
Hood Canal North	0.0014	24	88	146	1458	6.44E-03	6.44E-02	
Elliott Bay				0	0	0	0	
Hood Canal South	0.0014	24	88	574	5741	2.53E-02	2.53E-01	
Strait of Juan de Fuca	0.0014	24	88	53	528	2.33E-03	2.33E-02	
Main Basin	0.0014	24	88	133	1331	5.88E-03	5.88E-02	
Port Gardner	0.0014	24	88	14	139	6.16E-04	6.16E-03	
San Juan Islands	0.0014	24	88	100	998	4.41E-03	4.41E-02	
Sinclair/Dyes Inlet	0.0014	24	88	52	520	2.30E-03	2.30E-02	
South Sound East	0.0014	24	88	193	1929	8.52E-03	8.52E-02	
South Sound West	0.0014	24	88	549	5486	2.42E-02	2.42E-01	
Strait of Georgia	0.0014	24	88	108	1076	4.75E-03	4.75E-02	
Whidbey Basin	0.0014	24	88	169	1686	7.45E-03	7.45E-02	
Subtotal				2128	21277	0.09	0.94	

* - All non-detect results substituted with the lowest reporting limit of the data set.

Total Annual Low Flow Groundwater Mass Flux (F_M) (kg/yr)	Total Annual High Flow Groundwater Mass Flux (F_M) (kg/yr)
0.13	1.3