Draft Technical Report
for
Tentative Cleanup and Abatement
Order No. R9-2011-0001

APPENDIX FOR SECTION 27

TIER I SCREENING LEVEL RISK ASSESSMENT FOR HUMAN HEALTH

September 15, 2010

SUMMARY OF TIER I HUMAN HEALTH RISK ASSESSMENT RESULTS
(RECREATIONAL ANGLER)

	Arsenic		Cadmium		Chromium		Copper		Mercury	
	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)
NA06										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	--	No	--	No	--	No	--	No	--
NA11										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**		No	--	No	--	No	--	No	--
NA12										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**		No	--	No	--	No	--	No	--
NA20										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**		No	--	No	--	No	--	No	--
SW04										
t-test significantly different	**Yes**	--	No	--	No	--	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	No	--	No	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW08										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW13										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW21										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW28										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--

SUMMARY OF TIER I HUMAN HEALTH RISK ASSESSMENT RESULTS
(RECREATIONAL ANGLER)

	Nickel		Selenium		Silver		Zinc		TBT	
	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(ug/kg wet)	(ug/kg dry)
NA06										
t-test significantly different	No	--	No	--	No	--	No/Yes	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
NA11										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
NA12										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
NA20										
t-test significantly different	No	--	No	--	**Yes**	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
SW04										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	**--**
SW08										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	**--**
SW13										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
SW21										
t-test significantly different	No	--	No	--	**Yes**	--	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
SW28										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--

SUMMARY OF TIER I HUMAN HEALTH RISK ASSESSMENT RESULTS (RECREATIONAL ANGLER)

	Benzo[a]pyrene (ug/kg wet)	Benzo[a]pyrene (ug/kg dry)	Total PCBs (ng/g wet)	Total PCBs (ng/g dry)
NA06				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
NA11				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
NA12				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
NA20				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW04				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW08				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW13				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW21				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW28				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**

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SUMMARY OF TIER I HUMAN HEALTH RISK ASSESSMENT RESULTS
(SUBSISTENCE ANGLER)

	Arsenic		Cadmium		Chromium		Copper		Mercury	
	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)
NA06										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	--	No	--	No	--	No	--	No	--
NA11										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**		No	--	No	--	No	--	No	--
NA12										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**		No	--	No	--	No	--	No	--
NA20										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**		No	--	No	--	No	--	No	--
SW04										
t-test significantly different	**Yes**	--	No	--	No	--	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	No	--	No	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW08										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW13										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW21										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--
SW28										
t-test significantly different	No	--	No	--	No	--	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	No	--	No	--	No	--	No	--

SUMMARY OF TIER I HUMAN HEALTH RISK ASSESSMENT RESULTS
(SUBSISTENCE ANGLER)

	Nickel		Selenium		Silver		Zinc		TBT	
	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(mg/kg wet)	(mg/kg dry)	(ug/kg wet)	(ug/kg dry)
NA06										
t-test significantly different	No	--	No	--	No	--	No/Yes	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
NA11										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
NA12										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
NA20										
t-test significantly different	No	--	No	--	**Yes**	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
SW04										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	**Yes**	**--**
SW08										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	**Yes**	**--**
SW13										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
SW21										
t-test significantly different	No	--	No	--	**Yes**	--	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--
SW28										
t-test significantly different	No	--	No	--	No	--	No	--	**Yes**	--
> 95% UPL Reference Pool	--	No	--	No	--	No	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	No	--	No	--	No	--	No	--	No	--

SUMMARY OF TIER I HUMAN HEALTH RISK ASSESSMENT RESULTS
(SUBSISTENCE ANGLER)

	Benzo[a]pyrene		Total PCBs	
	(ug/kg wet)	(ug/kg dry)	(ng/g wet)	(ng/g dry)
NA06				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
NA11				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
NA12				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	No	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
NA20				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	**Yes**	--	No
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW04				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW08				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW13				
t-test significantly different	**Yes**	--	No	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW21				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**
SW28				
t-test significantly different	**Yes**	--	**Yes**	--
> 95% UPL Reference Pool	--	**Yes**	--	**Yes**
> HH Tissue Residue Guideline(s)	**Yes**	**--**	**Yes**	**--**

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COMPARISON OF SHIPYARD BIOACCUMULATION STATIONS TO RISK-BASED TISSUE SCREENING LEVELS (RECREATIONAL ANGLER)

	Human Health Tissue Screening Level (ug/kg wet)	Shipyard Stations with *Macoma nasuta* Tissue Data (ug/kg wet)								
		NA06	NA11	NA12	NA20	SW04	SW08	SW13	SW21	SW28
Metals										
Arsenic, inorganic (RfD)	1,000	116.8	119.2	108	112.8	143.2	110.4	113.6	123.2	123.2
Arsenic, inorganic (CSF)	22.22	**116.8**	**119.2**	**108**	**112.8**	**143.2**	**110.4**	**113.6**	**123.2**	**123.2**
Cadmium	3,000	40	40	30	30	40	30	30	40	40
Chromium	10,000	320	270	250	310	480	360	310	390	240
Copper	123,333	2280	1900	1860	1740	4840	3300	3660	2420	2100
Mercury, total (except for Macoma tissue)	300	20	20	20	20	20	20	10	20	20
Nickel	66,667	390	340	330	430	440	340	380	360	390
Selenium	20,000	300	280	300	220	240	200	280	280	250
Silver	16,667	40	50	30	20	30	40	40	50	40
Zinc	1,000,000	19600	16600	16200	17200	28800	15800	19200	19400	19400
Organometallic Compounds										
Tributyltin	1,000	31.6	13.8	14.76	23.6	331	148	124.6	16.4	13
Polycyclic Aromatic Hydrocarbons										
Benzo[a]pyrene	2.78	**27**	**23**	**20**	**38**	**174**	**166**	**105.8**	**138**	**136**
Polychlorinated Biphenyls										
Total PCB Aroclors (CSF)	16.67	**77.8**	**46.8**	**31.8**	**32**	**216**	**160**	**72.2**	**264**	**226**
Total PCB Aroclors (RfD)	66.67	**77.8**	**46.8**	**31.8**	**32**	**216**	**160**	**72.2**	**264**	**226**

NOTE: Tissue concentrations bold faced and shaded are greater than the human health tissue screening levels.

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COMPARISON OF SHIPYARD BIOACCUMULATION STATIONS TO RISK-BASED TISSUE SCREENING LEVELS (SUBSISTENCE ANGLER)

	Human Health Tissue Screening Level (ug/kg wet)	Shipyard Stations with *Macoma nasuta* Tissue Data (ug/kg wet)								
		NA06	NA11	NA12	NA20	SW04	SW08	SW13	SW21	SW28
Metals										
Arsenic, inorganic (RfD)	130	116.8	119.2	108	112.8	**143.2**	110.4	113.6	123.2	123.2
Arsenic, inorganic (CSF)	2.90	**116.8**	**119.2**	**108**	**112.8**	**143.2**	**110.4**	**113.6**	**123.2**	**123.2**
Cadmium	217	40	40	30	30	40	30	30	40	40
Chromium	1,304	320	270	250	310	480	360	310	390	240
Copper	16,087	2280	1900	1860	1740	4840	3300	3660	2420	2100
Mercury, total (except for Macoma tissue)	43	20	20	20	20	20	20	10	20	20
Nickel	8,696	390	340	330	430	440	340	380	360	390
Selenium	2,174	300	280	300	220	240	200	280	280	250
Silver	2,174	40	50	30	20	30	40	40	50	40
Zinc	130,435	19600	16600	16200	17200	28800	15800	19200	19400	19400
Organometallic Compounds										
Tributyltin	130	31.6	13.8	14.76	23.6	**331**	**148**	124.6	16.4	13
Polycyclic Aromatic Hydrocarbons										
Benzo[a]pyrene	0.36	**27**	**23**	**20**	**38**	**174**	**166**	**105.8**	**138**	**136**
Polychlorinated Biphenyls										
Total PCB Aroclors (CSF)	2.17	**77.8**	**46.8**	**31.8**	**32**	**216**	**160**	**72.2**	**264**	**226**
Total PCB Aroclors (RfD)	8.70	**77.8**	**46.8**	**31.8**	**32**	**216**	**160**	**72.2**	**264**	**226**

NOTE: Tissue concentrations bold faced and shaded are greater than the human health tissue screening levels.

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COMPARISON OF SITE/REFERENCE *MACOMA* TISSUE CONCENTRATIONS

	Total Solids (decimal wet)	Arsenic (mg/kg wet)	Control	Arsenic (mg/kg dry)	Cadmium (mg/kg wet)	Control	Cadmium (mg/kg dry)	Chromium (mg/kg wet)	Control	Chromium (mg/kg dry)	Copper (mg/kg wet)	Control	Copper (mg/kg dry)
NA06	0.147	3	3	20.41	0.032	0.031	0.22	0.33	0.78	2.24	2.3	1.5	15.65
NA06	0.151	2.6	3.1	17.22	0.033	0.045	0.22	0.34	0.25	2.25	2.1	1.2	13.91
NA06	0.128	2.7	2.7	21.09	0.056	0.04	0.44	0.29	0.77	2.27	2.3	0.99	17.97
NA06	0.159	3	2.8	18.87	0.037	0.034	0.23	0.38	0.35	2.39	2.4	1.2	15.09
NA06	0.167	3.3	3.2	19.76	0.051	0.037	0.31	0.25	0.19	1.50	2.3	0.97	13.77
mean	0.1504	2.92	2.96	19.47	0.0418	0.0374	0.28	0.318	0.468	2.13	2.28	1.172	15.28
max	0.167	3.3	3.2	21.09	0.056	0.045	0.4375	0.38	0.78	2.39	2.4	1.5	17.97
t-test significantly different	--	No	--	--	No	--	--	No	--	--		--	--
> 95% UPL Reference Pool	--	--	--	No	--	--	No	--	--	No	--	--	No
NA11	0.155	3.2	3	20.65	0.036	0.031	0.23	0.26	0.78	1.68	1.6	1.5	10.32
NA11	0.148	2.6	3.1	17.57	0.028	0.045	0.19	0.23	0.25	1.55	1.8	1.2	12.16
NA11	0.131	2.8	2.7	21.37	0.025	0.04	0.19	0.18	0.77	1.37	1.6	0.99	12.21
NA11	0.155	3.7	2.8	23.87	0.052	0.034	0.34	0.34	0.35	2.19	2.6	1.2	16.77
NA11	0.147	2.6	3.2	17.69	0.054	0.037	0.37	0.36	0.19	2.45	1.9	0.97	12.93
mean	0.1472	2.98	2.96	20.23	0.039	0.0374	0.26	0.274	0.468	1.85	1.9	1.172	12.88
max	0.155	3.7	3.2	23.87	0.054	0.045	0.3673469	0.36	0.78	2.45	2.6	1.5	16.77
t-test significantly different			--	--		--	--		--	--		--	--
> 95% UPL Reference Pool		--	--	No	--	--	No	--	--	No	--	--	No
NA12	0.14	2.8	3	20.00	0.02	0.031	0.14	0.2	0.78	1.43	1.7	1.5	12.14
NA12	0.132	2.6	3.1	19.70	0.036	0.045	0.27	0.26	0.25	1.97	2	1.2	15.15
NA12	0.152	2.6	2.7	17.11	0.031	0.04	0.20	0.26	0.77	1.71	1.5	0.99	9.87
NA12	0.147	2.9	2.8	19.73	0.035	0.034	0.24	0.32	0.35	2.18	1.7	1.2	11.56
NA12	0.142	2.6	3.2	18.31	0.028	0.037	0.20	0.19	0.19	1.34	2.4	0.97	16.90
mean	0.1426	2.7	2.96	18.97	0.03	0.0374	0.21	0.246	0.468	1.72	1.86	1.172	13.13
max	0.152	2.9	3.2	20.00	0.036	0.045	0.2727273	0.32	0.78	2.18	2.4	1.5	16.90
t-test significantly different			--	--		--	--		--	--		--	--
> 95% UPL Reference Pool		--	--	No	--	--	No	--	--	No	--	--	No
NA20	0.162	3	3	18.52	0.029	0.031	0.18	0.25	0.78	1.54	1.7	1.5	10.49
NA20	0.136	2.2	3.1	16.18	0.023	0.045	0.17	0.27	0.25	1.99	1.6	1.2	11.76
NA20	0.158	3.2	2.7	20.25	0.035	0.04	0.22	0.37	0.77	2.34	2	0.99	12.66
NA20	0.158	3.2	2.8	20.25	0.035	0.034	0.22	0.37	0.35	2.34	2	1.2	12.66
NA20	0.147	2.5	3.2	17.01	0.029	0.037	0.20	0.3	0.19	2.04	1.4	0.97	9.52
mean	0.1522	2.82	2.96	18.44	0.0302	0.0374	0.20	0.312	0.468	2.05	1.74	1.172	11.42
max	0.162	3.2	3.2	20.25	0.035	0.045	0.221519	0.37	0.78	2.34	2	1.5	12.66
t-test significantly different			--	--		--	--		--	--		--	--
> 95% UPL Reference Pool		--	--	No	--	--	No	--	--	No	--	--	No
SW04	0.146	3.8	3	26.03	0.043	0.031	0.29	0.76	0.78	5.21	8.1	1.5	55.48
SW04	0.142	3.8	3.1	26.76	0.055	0.045	0.39	0.49	0.25	3.45	5	1.2	35.21
SW04	0.152	3.1	2.7	20.39	0.037	0.04	0.24	0.53	0.77	3.49	4	0.99	26.32
SW04	0.153	3.6	2.8	23.53	0.031	0.034	0.20	0.18	0.35	1.18	2.5	1.2	16.34
SW04	0.149	3.6	3.2	24.16	0.027	0.037	0.18	0.42	0.19	2.82	4.6	0.97	30.87
mean	0.1484	3.58	2.96	24.17	0.0386	0.0374	0.26	0.476	0.468	3.23	4.84	1.172	32.84
max	0.153	3.8	3.2	26.76	0.055	0.045	0.3873239	0.76	0.78	5.21	8.1	1.5	55.48

NOTE: Shaded values indicate undetected at detection limit. Therefore, 1/2 detection limit used in this table.

COMPARISON OF SITE/REFERENCE *MACOMA* TISSUE CONCENTRATIONS

	Total Solids (decimal wet)	Arsenic (mg/kg wet)	Control	Arsenic (mg/kg dry)	Cadmium (mg/kg wet)	Control	Cadmium (mg/kg dry)	Chromium (mg/kg wet)	Control	Chromium (mg/kg dry)	Copper (mg/kg wet)	Control	Copper (mg/kg dry)
t-test significantly different		**Yes**	--	--	No	--	--	No	--	--	**Yes**	--	--
> 95% UPL Reference Pool		--	--	**Yes**	--	--	No	--	--	No	--	--	**Yes**
SW08	0.148	2.6	3	17.57	0.022	0.031	0.15	0.33	0.78	2.23	3.2	1.5	21.62
SW08	0.12	2.8	3.1	23.33	0.029	0.045	0.24	0.35	0.25	2.92	3.2	1.2	26.67
SW08	0.148	2.8	2.7	18.92	0.035	0.04	0.24	0.53	0.77	3.58	2.6	0.99	17.57
SW08	0.157	3	2.8	19.11	0.037	0.034	0.24	0.3	0.35	1.91	3.2	1.2	20.38
SW08	0.138	2.6	3.2	18.84	0.03	0.037	0.22	0.31	0.19	2.25	4.3	0.97	31.16
mean	0.1422	2.76	2.96	19.55	0.0306	0.0374	0.22	0.364	0.468	2.58	3.3	1.172	23.48
max	0.157	3	3.2	23.33	0.037	0.045	0.2416667	0.53	0.78	3.58	4.3	1.5	31.16
t-test significantly different		No	--	--	No	--	--	No	--	--	**Yes**	--	--
> 95% UPL Reference Pool		--	--	No	--	--	No	--	--	No	--	--	**Yes**
SW13	0.12	2.5	3	20.83	0.032	0.031	0.27	0.26	0.78	2.17	2.5	1.5	20.83
SW13	0.158	3.6	3.1	22.78	0.045	0.045	0.28	0.31	0.25	1.96	5.6	1.2	35.44
SW13	0.163	3.1	2.7	19.02	0.031	0.04	0.19	0.3	0.77	1.84	3.1	0.99	19.02
SW13	0.14	2.1	2.8	15.00	0.025	0.034	0.18	0.41	0.35	2.93	4.2	1.2	30.00
SW13	0.151	2.9	3.2	19.21	0.027	0.037	0.18	0.29	0.19	1.92	2.9	0.97	19.21
mean	0.1464	2.84	2.96	19.37	0.032	0.0374	0.22	0.314	0.468	2.16	3.66	1.172	24.90
max	0.163	3.6	3.2	22.78	0.045	0.045	0.2848101	0.41	0.78	2.93	5.6	1.5	35.44
t-test significantly different		No	--	--	No	--	--	No	--	--	**Yes**	--	--
> 95% UPL Reference Pool		--	--	No	--	--	No	--	--	No	--	--	**Yes**
SW21	0.157	3.1	3	19.75	0.033	0.031	0.21	0.32	0.78	2.04	2.4	1.5	15.29
SW21	0.146	3.1	3.1	21.23	0.037	0.045	0.25	0.32	0.25	2.19	2	1.2	13.70
SW21	0.164	3.7	2.7	22.56	0.053	0.04	0.32	0.35	0.77	2.13	2.4	0.99	14.63
SW21	0.148	2.9	2.8	19.59	0.042	0.034	0.28	0.34	0.35	2.30	2.2	1.2	14.86
SW21	0.128	2.6	3.2	20.31	0.038	0.037	0.30	0.6	0.19	4.69	3.1	0.97	24.22
mean	0.1486	3.08	2.96	20.69	0.0406	0.0374	0.27	0.386	0.468	2.67	2.42	1.172	16.54
max	0.164	3.7	3.2	22.56	0.053	0.045	0.3231707	0.6	0.78	4.69	3.1	1.5	24.22
t-test significantly different		No	--	--	No	--	--	No	--	--	**Yes**	--	--
> 95% UPL Reference Pool		--	--	No	--	--	No	--	--	No	--	--	No
SW28	0.157	2.8	3	17.83	0.036	0.031	0.23	0.2	0.78	1.27	1.8	1.5	11.46
SW28	0.143	2.7	3.1	18.88	0.028	0.045	0.20	0.18	0.25	1.26	1.6	1.2	11.19
SW28	0.155	3.3	2.7	21.29	0.036	0.04	0.23	0.25	0.77	1.61	2.2	0.99	14.19
SW28	0.163	3.5	2.8	21.47	0.053	0.034	0.33	0.3	0.35	1.84	2.7	1.2	16.56
SW28	0.155	3.1	3.2	20.00	0.034	0.037	0.22	0.27	0.19	1.74	2.2	0.97	14.19
mean	0.1546	3.08	2.96	19.90	0.0374	0.0374	0.24	0.24	0.468	1.55	2.1	1.172	13.52
max	0.163	3.5	3.2	21.47	0.053	0.045	0.3251534	0.3	0.78	1.84	2.7	1.5	16.56
t-test significantly different		No	--	--	No	--	--	No	--	--	**Yes**	--	--
> 95% UPL Reference Pool		--	--	No	--	--	No	--	--	No	--	--	No

NOTE: Shaded values indicate undetected at detection limit. Therefore, 1/2 detection limit used in this table.

COMPARISON OF SITE/REFERENCE *MACOMA* TISSUE CONCENTRATIONS

	Lead (mg/kg wet)	Control	Lead (mg/kg dry)	Mercury (mg/kg wet)	Control	Mercury (mg/kg dry)	Nickel (mg/kg wet)	Control	Nickel (mg/kg dry)	Selenium (mg/kg wet)	Control	Selenium (mg/kg dry)	Silver (mg/kg wet)	Control
NA06	0.64	0.1	4.35	0.016	0.018	0.109	0.38	0.4	2.59	0.4	0.2	2.72	0.038	0.027
NA06	0.82	0.12	5.43	0.014	0.015	0.093	0.37	0.43	2.45	0.2	0.4	1.32	0.052	0.033
NA06	0.5	0.11	3.91	0.016	0.016	0.125	0.34	0.75	2.66	0.3	0.3	2.34	0.053	0.036
NA06	0.53	0.09	3.33	0.026	0.012	0.164	0.47	0.38	2.96	0.3	0.3	1.89	0.03	0.027
NA06	0.58	0.11	3.47	0.018	0.013	0.108	0.37	0.35	2.22	0.3	0.2	1.80	0.026	0.041
mean	0.614	0.106	4.10	0.018	0.0148	0.120	0.386	0.462	2.57	0.3	0.28	2.01	0.0398	0.0328
max	0.82	0.12	5.43	0.026	0.018	0.164	0.47	0.75	2.96	0.4	0.4	2.72	0.053	0.041
t-test significantly different		--	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	--	--	**Yes**	--	--	No	--	--	No	--	--	No	--	--
NA11	0.37	0.1	2.39	0.012	0.018	0.077	0.39	0.4	2.52	0.3	0.2	1.94	0.051	0.027
NA11	0.28	0.12	1.89	0.014	0.015	0.095	0.27	0.43	1.82	0.2	0.4	1.35	0.041	0.033
NA11	0.3	0.11	2.29	0.017	0.016	0.130	0.28	0.75	2.14	0.3	0.3	2.29	0.042	0.036
NA11	0.53	0.09	3.42	0.018	0.012	0.116	0.39	0.38	2.52	0.4	0.3	2.58	0.072	0.027
NA11	0.48	0.11	3.27	0.016	0.013	0.109	0.36	0.35	2.45	0.2	0.2	1.36	0.037	0.041
mean	0.392	0.106	2.65	0.0154	0.0148	0.105	0.338	0.462	2.29	0.28	0.28	1.90	0.0486	0.0328
max	0.53	0.12	3.42	0.018	0.018	0.130	0.39	0.75	2.52	0.4	0.4	2.58	0.072	0.041
t-test significantly different		--	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	--	--	No	--	--	No	--	--	No	--	--	No	--	--
NA12	0.3	0.1	2.14	0.02	0.018	0.143	0.32	0.4	2.29	0.4	0.2	2.86	0.02	0.027
NA12	0.31	0.12	2.35	0.015	0.015	0.114	0.36	0.43	2.73	0.3	0.4	2.27	0.031	0.033
NA12	0.3	0.11	1.97	0.013	0.016	0.086	0.3	0.75	1.97	0.2	0.3	1.32	0.027	0.036
NA12	0.37	0.09	2.52	0.014	0.012	0.095	0.37	0.38	2.52	0.4	0.3	2.72	0.031	0.027
NA12	0.38	0.11	2.68	0.014	0.013	0.099	0.29	0.35	2.04	0.2	0.2	1.41	0.05	0.041
mean	0.332	0.106	2.33	0.0152	0.0148	0.107	0.328	0.462	2.31	0.3	0.28	2.12	0.0318	0.0328
max	0.38	0.12	2.68	0.02	0.018	0.143	0.37	0.75	2.73	0.4	0.4	2.86	0.05	0.041
t-test significantly different		--	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	--	--	No	--	--	No	--	--	No	--	--	No	--	--
NA20	0.41	0.1	2.53	0.017	0.018	0.105	0.42	0.4	2.59	0.3	0.2	1.85	0.022	0.027
NA20	0.38	0.12	2.79	0.017	0.015	0.125	0.34	0.43	2.50	0.2	0.4	1.47	0.019	0.033
NA20	0.55	0.11	3.48	0.023	0.016	0.146	0.5	0.75	3.16	0.2	0.3	1.27	0.022	0.036
NA20	0.55	0.09	3.48	0.023	0.012	0.146	0.5	0.38	3.16	0.2	0.3	1.27	0.022	0.027
NA20	0.37	0.11	2.52	0.017	0.013	0.116	0.38	0.35	2.59	0.2	0.2	1.36	0.022	0.041
mean	0.452	0.106	2.96	0.0194	0.0148	0.127	0.428	0.462	2.80	0.22	0.28	1.44	0.0214	0.0328
max	0.55	0.12	3.48	0.023	0.018	0.146	0.5	0.75	3.16	0.3	0.4	1.85	0.022	0.041
t-test significantly different		--	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	--	--	No	--	--	No	--	--	No	--	--	No	--	--
SW04	1.9	0.1	13.01	0.023	0.018	0.158	0.48	0.4	3.29	0.3	0.2	2.05	0.058	0.027
SW04	1.7	0.12	11.97	0.021	0.015	0.148	0.63	0.43	4.44	0.2	0.4	1.41	0.029	0.033
SW04	1.3	0.11	8.55	0.022	0.016	0.145	0.35	0.75	2.30	0.2	0.3	1.32	0.034	0.036
SW04	0.7	0.09	4.58	0.016	0.012	0.105	0.37	0.38	2.42	0.2	0.3	1.31	0.028	0.027
SW04	1.1	0.11	7.38	0.019	0.013	0.128	0.38	0.35	2.55	0.3	0.2	2.01	0.024	0.041
mean	1.34	0.106	9.10	0.0202	0.0148	0.136	0.442	0.462	3.00	0.24	0.28	1.62	0.0346	0.0328
max	1.9	0.12	13.01	0.023	0.018	0.158	0.63	0.75	4.44	0.3	0.4	2.05	0.058	0.041

NOTE: Shaded values indicate undetected at detection limit. Therefore, 1/2 detection limit used in this table.

COMPARISON OF SITE/REFERENCE *MACOMA* TISSUE CONCENTRATIONS

	Lead (mg/kg wet)	Control	Lead (mg/kg dry)	Mercury (mg/kg wet)	Control	Mercury (mg/kg dry)	Nickel (mg/kg wet)	Control	Nickel (mg/kg dry)	Selenium (mg/kg wet)	Control	Selenium (mg/kg dry)	Silver (mg/kg wet)	Control
t-test significantly different	**Yes**	--	--	**Yes**	--	--	No	--	--	No	--	--	No	--
> 95% UPL Reference Pool	--	--	**Yes**	--	--	No	--	--	No	--	--	No	--	--
SW08	0.8	0.1	5.41	0.026	0.018	0.176	0.29	0.4	1.96	0.2	0.2	1.35	0.016	0.027
SW08	1.4	0.12	11.67	0.015	0.015	0.125	0.29	0.43	2.42	0.1	0.4	0.83	0.034	0.033
SW08	0.6	0.11	4.05	0.018	0.016	0.122	0.43	0.75	2.91	0.3	0.3	2.03	0.019	0.036
SW08	0.66	0.09	4.20	0.017	0.012	0.108	0.37	0.38	2.36	0.2	0.3	1.27	0.041	0.027
SW08	0.75	0.11	5.43	0.017	0.013	0.123	0.3	0.35	2.17	0.2	0.2	1.45	0.067	0.041
mean	0.842	0.106	6.15	0.0186	0.0148	0.131	0.336	0.462	2.36	0.2	0.28	1.39	0.0354	0.0328
max	1.4	0.12	11.67	0.026	0.018	0.176	0.43	0.75	2.91	0.3	0.4	2.03	0.067	0.041
t-test significantly different	**Yes**	--	--	No	--	--	No	--	--	No	--	--	No	--
> 95% UPL Reference Pool	--	--	**Yes**	--	--	No	--	--	No	--	--	No	--	--
SW13	0.35	0.1	2.92	0.013	0.018	0.108	0.35	0.4	2.92	0.2	0.2	1.67	0.043	0.027
SW13	0.4	0.12	2.53	0.014	0.015	0.089	0.44	0.43	2.78	0.5	0.4	3.16	0.077	0.033
SW13	0.43	0.11	2.64	0.018	0.016	0.110	0.41	0.75	2.52	0.3	0.3	1.84	0.028	0.036
SW13	0.35	0.09	2.50	0.013	0.012	0.093	0.34	0.38	2.43	0.2	0.3	1.43	0.027	0.027
SW13	0.33	0.11	2.19	0.016	0.013	0.106	0.34	0.35	2.25	0.2	0.2	1.32	0.038	0.041
mean	0.372	0.106	2.55	0.0148	0.0148	0.101	0.376	0.462	2.58	0.28	0.28	1.88	0.0426	0.0328
max	0.43	0.12	2.92	0.018	0.018	0.110	0.44	0.75	2.92	0.5	0.4	3.16	0.077	0.041
t-test significantly different	**Yes**	--	--	No	--	--	No	--	--	No	--	--	No	--
> 95% UPL Reference Pool	--	--	No	--	--	No	--	--	No	--	--	No	--	--
SW21	0.46	0.1	2.93	0.016	0.018	0.102	0.36	0.4	2.29	0.2	0.2	1.27	0.053	0.027
SW21	0.53	0.12	3.63	0.017	0.015	0.116	0.31	0.43	2.12	0.2	0.4	1.37	0.039	0.033
SW21	0.69	0.11	4.21	0.017	0.016	0.104	0.41	0.75	2.50	0.3	0.3	1.83	0.061	0.036
SW21	0.58	0.09	3.92	0.017	0.012	0.115	0.36	0.38	2.43	0.3	0.3	2.03	0.05	0.027
SW21	0.9	0.11	7.03	0.012	0.013	0.094	0.37	0.35	2.89	0.4	0.2	3.13	0.054	0.041
mean	0.632	0.106	4.34	0.0158	0.0148	0.106	0.362	0.462	2.45	0.28	0.28	1.93	0.0514	0.0328
max	0.9	0.12	7.03	0.017	0.018	0.116	0.41	0.75	2.89	0.4	0.4	3.13	0.061	0.041
t-test significantly different	**Yes**	--	--	No	--	--	No	--	--	No	--	--	**Yes**	--
> 95% UPL Reference Pool	--	--	**Yes**	--	--	No	--	--	No	--	--	No	--	--
SW28	0.35	0.1	2.23	0.019	0.018	0.121	0.4	0.4	2.55	0.2	0.2	1.27	0.028	0.027
SW28	0.39	0.12	2.73	0.017	0.015	0.119	0.32	0.43	2.24	0.15	0.4	1.05	0.02	0.033
SW28	0.45	0.11	2.90	0.02	0.016	0.129	0.38	0.75	2.45	0.4	0.3	2.58	0.038	0.036
SW28	0.51	0.09	3.13	0.015	0.012	0.092	0.48	0.38	2.94	0.3	0.3	1.84	0.052	0.027
SW28	0.45	0.11	2.90	0.016	0.013	0.103	0.35	0.35	2.26	0.2	0.2	1.29	0.039	0.041
mean	0.43	0.106	2.78	0.0174	0.0148	0.113	0.386	0.462	2.49	0.25	0.28	1.61	0.0354	0.0328
max	0.51	0.12	3.13	0.02	0.018	0.129	0.48	0.75	2.94	0.4	0.4	2.58	0.052	0.041
t-test significantly different	**Yes**	--	--	No	--	--	No	--	--	No	--	--	No	--
> 95% UPL Reference Pool	--	--	No	--	--	No	--	--	No	--	--	No	--	--

NOTE: Shaded values indicate undetected at detection limit. Therefore, 1/2 detection limit used in this table.

COMPARISON OF SITE/REFERENCE *MACOMA* TISSUE CONCENTRATIONS

	Silver (mg/kg dry)	Zinc (mg/kg wet)	Control	Zinc (mg/kg dry)	TBT (ug/kg wet)	Control	TBT (ug/kg dry)	Benzo[a]pyrene (ug/kg wet)	Control	Benzo[a]pyrene (ug/kg dry)	Total PCB Congeners (ng/g wet)	Control
NA06	0.259	17	16	115.65	16	0.495	108.84	27	5	183.67	55	0.47
NA06	0.344	18	18	119.21	32	0.5	211.92	26	2.5	172.19	40.1	0.44
NA06	0.414	21	15	164.06	31	0.5	242.19	20	2.5	156.25	20.1	0.54
NA06	0.189	18	14	113.21	38	1.4	238.99	30	5	188.68	69.2	46
NA06	0.156	24	17	143.71	41	0.495	245.51	32	5	191.62	57.9	0.33
mean	0.272	19.6	16	131.17	31.6	0.678	209.49	27	4	178.48	48.46	9.556
max	0.414	24	18	164.06	41	1.4	245.51	32	5	191.62	69.2	46
t-test significantly different	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--
NA11	0.329	15	16	96.77	15	0.495	96.77	23	5	148.39	26.9	0.47
NA11	0.277	16	18	108.11	11	0.5	74.32	26	2.5	175.68	23.8	0.44
NA11	0.321	14	15	106.87	12	0.5	91.60	19	2.5	145.04	21.6	0.54
NA11	0.465	20	14	129.03	19	1.4	122.58	27	5	174.19	28.1	46
NA11	0.252	18	17	122.45	12	0.495	81.63	20	5	136.05	26.5	0.33
mean	0.329	16.6	16	112.65	13.8	0.678	93.38	23	4	155.87	25.38	9.556
max	0.465	20	18	129.03	19	1.4	122.58	27	5	175.68	28.1	46
t-test significantly different	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--
NA12	0.143	12	16	85.71	18	0.495	128.57	19	5	135.71	16.1	0.47
NA12	0.235	17	18	128.79	15	0.5	113.64	19	2.5	143.94	15.2	0.44
NA12	0.178	17	15	111.84	13	0.5	85.53	21	2.5	138.16	17.3	0.54
NA12	0.211	17	14	115.65	19	1.4	129.25	23	5	156.46	23.4	46
NA12	0.352	18	17	126.76	8.8	0.495	61.97	18	5	126.76	17.1	0.33
mean	0.224	16.2	16	113.75	14.76	0.678	103.79	20	4	140.21	17.82	9.556
max	0.352	18	18	128.79	19	1.4	129.25	23	5	156.46	23.4	46
t-test significantly different	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	No	--	--
NA20	0.136	19	16	117.28	22	0.495	135.80	46	5	283.95	24.5	0.47
NA20	0.140	15	18	110.29	26	0.5	191.18	23	2.5	169.12	16.9	0.44
NA20	0.139	18	15	113.92	27	0.5	170.89	35	2.5	221.52	13.2	0.54
NA20	0.139	18	14	113.92	27	1.4	170.89	43	5	272.15	13.2	46
NA20	0.150	16	17	108.84	16	0.495	108.84	43	5	292.52	21.6	0.33
mean	0.141	17.2	16	112.85	23.6	0.678	155.52	38	4	247.85	17.88	9.556
max	0.150	19	18	117.28	27	1.4	191.18	46	5	292.52	24.5	46
t-test significantly different	--		--	--		--	--		--	--		--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--
SW04	0.397	46	16	315.07	330	0.495	2260.27	170	5	1164.38	195	0.47
SW04	0.204	31	18	218.31	740	0.5	5211.27	170	2.5	1197.18	161	0.44
SW04	0.224	27	15	177.63	420	0.5	2763.16	150	2.5	986.84	15	0.54
SW04	0.183	19	14	124.18	150	1.4	980.39	180	5	1176.47	136	46
SW04	0.161	21	17	140.94	15	0.495	100.67	200	5	1342.28	196	0.33
mean	0.234	28.8	16	195.23	331	0.678	2263.15	174	4	1173.43	140.6	9.556
max	0.397	46	18	315.07	740	1.4	5211.27	200	5	1342.28	196	46

NOTE: Shaded values indicate undetected at detection limit. Therefore, 1/2 detection limit used in this table.

COMPARISON OF SITE/REFERENCE *MACOMA* TISSUE CONCENTRATIONS

	Silver (mg/kg dry)	Zinc (mg/kg wet)	Control	Zinc (mg/kg dry)	TBT (ug/kg wet)	Control	TBT (ug/kg dry)	Benzo[a]pyrene (ug/kg wet)	Control	Benzo[a]pyrene (ug/kg dry)	Total PCB Congeners (ng/g wet)	Control
t-test significantly different	--	No	--	--	**Yes**	--	--	Need Calc	--	--	**Yes**	--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--
SW08	0.108	15	16	101.35	120	0.495	810.81	170	5	1148.65	103	0.47
SW08	0.283	14	18	116.67	210	0.5	1750.00	140	2.5	1166.67	98.2	0.44
SW08	0.128	17	15	114.86	110	0.5	743.24	180	2.5	1216.22	86.2	0.54
SW08	0.261	19	14	121.02	180	1.4	1146.50	190	5	1210.19	135	46
SW08	0.486	14	17	101.45	120	0.495	869.57	150	5	1086.96	90.1	0.33
mean	0.253	15.8	16	111.07	148	0.678	1064.02	166	4	1165.74	102.5	9.556
max	0.486	19	18	121.02	210	1.4	1750.00	190	5	1216.22	135	46
t-test significantly different	--	No	--	--	**Yes**	--	--	Need Calc	--	--	**Yes**	--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--
SW13	0.358	17	16	141.67	120	0.495	1000.00	79	5	658.33	22.9	0.47
SW13	0.487	24	18	151.90	140	0.5	886.08	120	2.5	759.49	27.9	0.44
SW13	0.172	25	15	153.37	150	0.5	920.25	100	2.5	613.50	43.2	0.54
SW13	0.193	16	14	114.29	93	1.4	664.29	100	5	714.29	181	46
SW13	0.252	14	17	92.72	120	0.495	794.70	130	5	860.93	35.3	0.33
mean	0.292	19.2	16	130.79	124.6	0.678	853.06	105.8	4	721.31	62.06	9.556
max	0.487	25	18	153.37	150	1.4	1000.00	130	5	860.93	181	46
t-test significantly different	--	No	--	--	**Yes**	--	--	Need Calc	--	--	No	--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--
SW21	0.338	18	16	114.65	13	0.495	82.80	180	5	1146.50	143	0.47
SW21	0.267	18	18	123.29	14	0.5	95.89	150	2.5	1027.40	175	0.44
SW21	0.372	24	15	146.34	16	0.5	97.56	120	2.5	731.71	170	0.54
SW21	0.338	18	14	121.62	15	1.4	101.35	130	5	878.38	167	46
SW21	0.422	19	17	148.44	24	0.495	187.50	110	5	859.38	106	0.33
mean	0.347	19.4	16	130.87	16.4	0.678	113.02	138	4	928.67	152.2	9.556
max	0.422	24	18	148.44	24	1.4	187.50	180	5	1146.50	175	46
t-test significantly different	--	**Yes**	--	--	**Yes**	--	--	Need Calc	--	--	**Yes**	--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--
SW28	0.178	18	16	114.65	15	0.495	95.54	140	5	891.72	127	0.47
SW28	0.140	15	18	104.90	10	0.5	69.93	130	2.5	909.09	120	0.44
SW28	0.245	22	15	141.94	16	0.5	103.23	130	2.5	838.71	136	0.54
SW28	0.319	25	14	153.37	11	1.4	67.48	140	5	858.90	104	46
SW28	0.252	17	17	109.68	13	0.495	83.87	140	5	903.23	121	0.33
mean	0.227	19.4	16	124.91	13	0.678	84.01	136	4	880.33	121.6	9.556
max	0.319	25	18	153.37	16	1.4	103.23	140	5	909.09	136	46
t-test significantly different	--	No	--	--	**Yes**	--	--	Need Calc	--	--	**Yes**	--
> 95% UPL Reference Pool	No	--	--	**Yes**	--	--	**Yes**	--	--	**Yes**	--	--

NOTE: Shaded values indicate undetected at detection limit. Therefore, 1/2 detection limit used in this table.