

○ Results (water)

	Location		pH -	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity -	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr90 (Bq/L)	
	Latitude	Longitude													
Abukuma River System	A-2	37.6168	140.5206	7.4	1.3	2.4	13.4	21.5	0.10	1.4	1	1.1	0.061	0.077	0.0012
	A-4	37.6336	140.5237	7.5	0.9	2.2	13.3	21.6	0.10	1.2	<1	0.9	0.047	0.061	0.0011
	B-3	37.7451	140.4656	7.1	0.6	1.6	12.7	29.9	0.14	0.6	6	2.2	0.079	0.10	0.00084
	B-5	37.8121	140.5058	7.4	0.9	2.0	13.0	18.8	0.09	0.8	1	1.4	0.032	0.042	0.0016
	H-1	38.0457	140.9282	7.7	1.1	1.9	11.8	4,530	30.27	1.3	3	2.9	0.037	0.050	0.0023
	H-4	38.0456	140.9456	8.1	1.3	2.4	10.6	4,760	32.38	1.1	1	1.9	0.032	0.044	0.0021
Manogawa River System	E-2	37.7302	140.8307	7.4	0.9	3.0	11.0	7.3	0.03	1.4	2	1.4	0.15	0.19	0.0058
	E-4	37.7267	140.8223	7.3	0.5	2.5	9.6	7.4	0.03	1.5	1	1.2	0.21	0.26	0.0071
	C-1	37.7215	140.8894	7.5	<0.5	2.1	13.3	9.0	0.04	1.1	<1	0.4	0.13	0.17	0.0049
	C-4	37.7092	140.9568	7.4	<0.5	1.6	13.3	11.9	0.05	0.9	<1	0.4	0.055	0.071	0.0031
Lake Akimoto	D-2	37.6575	140.1264	7.3	<0.5	2.0	11.5	6.2	0.03	1.3	<1	1.0	0.033	0.042	0.0018
	D-4	37.6653	140.1329	7.2	<0.5	2.1	11.2	5.9	0.03	1.0	<1	1.2	0.038	0.047	0.0019
Sea area off Iwaki City	F-1	37.1736	141.0788	8.1	<0.5	1.3	9.1	4,990	33.94	0.8	3	0.9	0.058	0.075	0.013
	F-4	37.2119	141.0878	8.1	<0.5	1.0	9.1	4,990	33.95	0.8	2	0.5	0.043	0.055	0.013
	G-1	36.8655	140.8924	8.1	0.7	0.8	9.0	4,990	33.97	0.7	4	0.8	0.039	0.050	0.011
	G-4	36.9186	140.9677	8.1	<0.5	0.7	9.0	4,990	33.96	0.6	1	0.6	0.044	0.055	0.010

○ Results (aquatic organisms)

Location		Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg,wet)	Cs-134 (Bq/kg,wet)	Cs-137 (Bq/kg,wet)	Sr-90 (Bq/kg,wet)	*Stomach contents
Location	Sampling Date	Latitude	Longitude	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg,wet)	Cs-134 (Bq/kg,wet)	Cs-137 (Bq/kg,wet)	Sr-90 (Bq/kg,wet)	*Stomach contents	
Aburatsubo River System	A-6	2012/2/8	37.566683	140.394667	—	—	—	—	—	CPOM	—	2	390	530	—	—
					Arthropoda	Insecta	Plecoptera	Perlidae	Oyamia sp.	Oyamia sp.	Many (approx. 800) abalone	0.13	140	200	—	—
					Arthropod	Insecta	Odonata	Gomphidae	Onychogomphus viridicostus	Onychogomphus viridicostus						
					Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	600	0.31	56	100	—	—
					Arthropoda	Malacostraca	Decapoda	Atyidae	Neocaridina denticulata	Freshwater shrimp						
					Vertebrata	Osteichthyes	Cypriniformes	Cobitidae	Noemacheilus barbatulus	Stone loach	75	0.43	26	35	—	—
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Nipponocypris temminckii	Dark chub	215	0.23	62	85	—	—
	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Phoxinus lagowskii	Amur Minnow	72	0.14	72	99	—	—				
	B-6	2012/1/12	37.818200	140.467883	—	—	—	—	—	CPOM	—	3	480	640	—	—
					Arthropoda	Insecta	Ephemeroptera	Ephemerellidae	Drunella basalis	Drunella basalis	Many (approx. 700)	0.2	160	170	—	—
					Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis						
					Arthropoda	Insecta	Trichoptera	Hydropsychidae	Hydropsyche orientalis	Hydropsyche orientalis						
	Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata										
	B-5	2011/12/27	37.812100	140.505783	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Cyprinus carpio	Common carp	1	0.045	74	81	—	Unknown
Vertebrata					Osteichthyes	Cypriniformes	Cyprinidae	Hemibarbus barbus	Hemibarbus barbus	1	1.49	150	200	—	Unknown	
Vertebrata					Osteichthyes	Perciformes	Centrarchidae	Micropterus dolomieu	Small mouth bass	2	1.49	—	—	0.41	Unknown	
E-2 E-4 E-5	2011/12/27	37.730167	140.830667	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	60	3.5	440	570	0.68	Unknown	
		37.726733	140.822333	Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Micropterus salmoides	Largemouth bass	3	2	350	440	1.6	Unknown	
		37.732050	140.812717	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus mykiss	Rainbow trout	7	1	87	110	—	Unknown	
		37.732050	140.812717	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus masou	Yamame trout	15	0.4	41	50	—	Unknown	
		—	—	—	—	—	—	—	—	CPOM	—	3	340	460	—	—
		—	—	—	—	—	—	—	—	CPOM	—	3	340	460	—	—
Matsugawa River System	E-6	2012/1/11	37.736983	140.805600	Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis	Many (approx. 700)	0.2	220	300	—	—
					Arthropoda	Insecta	Neuroptera	Corydalidae	Parachauliodes japonicus	Parachauliodes japonicus						
					Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata						
					Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche sauteri	Parastenopsyche sauteri						
					Arthropoda	Insecta	Diptera	Tipulidae	Tipula sp.	Tipula						
					Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius flumineus	Rhinogobius flumineus						
	C-6	2012/1/11	37.731167	140.908950	—	—	—	—	—	CPOM	—	3	470	670	—	—
					Arthropoda	Insecta	Plecoptera	Perlidae	Kamimuria tibialis	Kamimura tibialis	Many (approx. 600)	0.2	290	380	—	—
	Arthropod	Insecta	Megaloptera	Corydalidae	Protohermes grandis	Protohermes grandis										
	Arthropod	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	40	0.2	1,100	1,500	—	—				
Vertebrata	Osteichthyes	Perciformes	Gobiidae	Rhinogobius sp.	R. sp. CB											
C-2 C-4	2011/12/26	37.733133	140.925317	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Cyprinus carpio	Common carp	6	3	80	110	1.1	Unknown	
		37.709150	140.956767	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius cuvieri	Japanese crucian carp	2	1	210	290	—	Unknown	
		37.709150	140.956767	Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Zacco platypus	Zacco platypus	20	0.2	250	350	—	Unknown	
Lake Atsumo	D-2 D-3	2011/12/21	37.657533 37.661550	140.126433 140.122550	Arthropod	Malacostraca	Decapoda	Astacidae	Pacifastacus leniusculus	Signal crayfish	74	5	82	98	—	—
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Hemibarbus barbus	Hemibarbus barbus	1	0.3	73	100	—	Unknown
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Carassius auratus	Carassius auratus langsdorffii	9	1	81	97	—	Unknown
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	12	2.5	76	91	1.1	Unknown
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Micropterus dolomieu	Small mouth bass	4	2	190	260	—	Unknown
					Vertebrata	Osteichthyes	Perciformes	Centrarchidae	Micropterus salmoides	Largemouth bass	2	0.8	200	270	—	Unknown
					Vertebrata	Osteichthyes	Osmeriformes	Osmeridae	Hypomesus nipponensis	Japanese smelt	80	0.3	130	160	—	—
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Salvelinus leucomaenis	Char	15	3.5	140	190	0.55	Lake smelt
					Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus masou	Seema	1	0.8	220	290	—	Unknown

○ Results (aquatic organisms)

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg.wet)	Cs-134 (Bq/kg.wet)	Cs-137 (Bq/kg.wet)	Sr-90 (Bq/kg.wet)	Stomach contents			
		Latitude	Longitude															
Off Tachibana City	F-1-5	2012/1/13	37.173617	141.078800	Echinoderm	Echinoidea	Echinoidea	Physonematidae	Glyptocidaris crenularis	Sea urchin	Many	3	92	120	—	—		
					Many	3	—	—	10	—								
					Echinodermata	Asteroidea	Forcipulatida	Asteriidae	Asterias amurensis	Northern Pacific seastar	Many	3	3.4	3.7	—	—		
					Echinodermata	Holothuroidea	Aspidochirotrida	Stichopodidae	Stichopus japonicus	Japanese common sea cucumber	3	0.8	49	62	—	—		
					Mollusca	Bivalvia	Veneroidea	Mactridae	Pseudocardium sachalinense	Sakhalin surf clam (molluscosus part)	13	0.17	25	42	—	—		
					0.90	2.0	2.7	—	—									
					Mollusca	Cephalopoda	Octopodiformes	Common octopus	Paroctopus dofleini	North Pacific Giant Octopus	2	8	7.4	8.0	—	—		
					Mollusca	Cephalopoda	Octopodiformes	Common octopus	Octopus vulgaris	Common octopus	6	4	4.6	4.2	—	—		
					Mollusca	Cephalopoda	Octopodiformes	Common octopus	Octopus ocellatus	Ocellated octopus	20	0.6	5.6	7.0	—	—		
					Mollusca	Cephalopoda	Decapodiformes	Cuttlefish	Sepia sp.	Cuttlefish	34	1.4	3.1	3.7	—	—		
					Mollusca	Cephalopoda	Decapodiformes	Squid	Loliolus sp.	Japanese squid	66	1	6.0	12	—	—		
					Vertebrata	Cartilage fish	Rajiformes	Rajidae	Okamejei kenojei	Skate	4	4	90	110	—	Metapenaeopsis		
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Paralichthys olivaceus	Bastard halibut	2	4	40	57	—	—		
					3	4	—	—	0.10	gizzard shad								
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Pleuronectes herzensteini	Brown sole	4	3.3	44	63	—	Empty stomach		
					37.186100	141.081967	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Pleuronectes yokohamae	Marbled sole	9	3	48	66	—	Squid, amphipoda, sandworm
					37.199600	141.085300	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Kareius bicoloratus	Stone flounder	4	1.3	7.7	15	—	Empty stomach
					37.211917	141.087833	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Microstomus achne	Slime flounder	5	3	120	140	—	Bottle-necked cuttlefish, sandworm, shellfish
					37.232417	141.093517	Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Eopsetta grigorjewi	Round-nose flounder	11	3	40	59	—	Fish, Mimika, metapenaeopsis, crabs
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Pleuronichthys cornutus	Frog-flounder	14	0.8	11	18	—	—		
					Vertebrata	Osteichthyes	Haddock	Haddock	Gadus macrocephalus	Pacific cod	1	1.3	20	32	—	Dotted gizzard shad		
					Vertebrata	Osteichthyes	Marbled rockfish	Fat greenling	Hexagrammos otakii	Fat greenling	7	2	82	110	—	Rockfish, sardine class, metapenaeopsis, octopus, fish, fish eggs		
					11	2	—	—	0.60	—								
Vertebrata	Osteichthyes	Eel	Conger eel	Congridae	Congridae	6	0.4	42	43	—	Empty stomach							
Vertebrata	Osteichthyes	Scorpaeniformes	Triglidae	Chelidomichthys spinosus	Gurnard	9	1.5	31	45	—	Shrimp, metapenaeopsis, unknown							
Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	Lateolabrax japonicus	Japanese sea bass	2	5	110	150	—	—							
2	5	—	—	0.12	Anchovy, fish, unknown													
Vertebrata	Osteichthyes	Tetraodontiformes	Monacanthidae	Thamnaconus modestus	Filefish	7	0.9	15	16	—	—							
Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Takifugu pardalis	Globefish	8	3	15	24	—	shellfish							
Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	Takifugu poecilonotus	Pufferfish	22	3	18	34	—	shellfish							
Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	Takifugu sp.	Takifugu	20	3	54	64	—	Fish, sandworm, unknown							
Vertebrata	Osteichthyes	Clupeiformes	Clupeidae	Konosirus punctatus	Dotted gizzard shad	4	0.3	19	20	—	—							
Vertebrata	Osteichthyes	Zeiformes	Zeidae	Zenopsis nebulosa	John Dorey	2	0.4	6.4	5.8	—	Anchovy							
F-6	2012/1/18	37.15465	141.00155	Brown algae	Phaeophyceae	Fucales	Sargassum fulvellum	Sargassum horneri	Sargassum horneri	Many	2	11	16	—	—			
				Brown algae	Phaeophyceae	Laminariales	Lessoniaceae	Eisenia bicyclis	Eisenia bicyclis	Many	3	64	86	—	—			
				Echinoderm	Sea Urchin	Loxechinus	Strongylocentrotus	Strongylocentrotus nudus	Northern sea urchin	Many	2	21	30	—	—			
				Mollusca	Gastropoda	Archaeogastropoda	Haliotis asinina	Haliotis discus	abalone(molluscan body)	Many	4	21	21	—	—			
0.7	13	14	—	—														

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		Latitude	Longitude																				
Off Inada City	G-1-5	2012/1/13	36.865500 36.900533 36.912100 36.918550 36.929900	140.892383 140.921467 140.940500 140.967683 140.990133	Echinoderm	Starfish	Northern Pacific seastar	Northern Pacific seastar	Asterias amurensis	Northern Pacific seastar	Many	2	4.6	5.0	—	—							
					Mollusca	Cephalopoda	Octopodiformes	Common octopus	Paroctopus dofleini	North Pacific Giant Octopus	2	4.2	4.5	3.8	—	—							
					Mollusca	Cephalopoda	Octopodiformes	Common octopus	Octopus vulgaris	Common octopus	5	4.3	2.2	2.8	—	—							
					Mollusca	Cephalopoda	Decapodiformes	Squid	Loliolus sp.	Japanese squid	Many	0.5	5.1	6.4	—	—							
					Vertebrata	Cartilage fish	Sandbar shark	Banded houndshark	Mustelus manazo	Starspotted smooth-hound	1	0.7	62	85	—	Sardine,crabs							
					Vertebrata	Cartilage fish	Rajiformes	Rajidae	Okamejei kenojei	Skate	4	3.1	45	61	—	Metapenaeopsis, shrimp, fish							
					Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	Paralichthys olivaceus	Bastard halibut	5	3	24	33	—	Sardine, anchovy, fish							
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Kareius bicoloratus	Stone flounder	2	3.6	73	90	—	Unknown							
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Eopsetta grigorjewi	Round-nose flounder	10	3	34	47	—	Fish, shrimps, sandworm							
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Pleuronectes yokohamae	Marbled sole	17	5.1	38	53	—	Fish, shrimps, sandworm							
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	Microstomus achne	Slime flounder	4	1.7	46	56	—	Unknown							
					Vertebrata	Osteichthyes	Pleuronectiformes	Cynoglossidae	Cynoglossus joyneri	Red tongue sole	6	0.4	24	38	—	Unknown							
					Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	Lateolabrax japonicus	Japanese sea bass	1	4.2	20	30	—	Sardine, sand lance, chub							
					Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	Takifugu pardalis	Globefish	2	4	—	—	0.028	mackerel							
Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	Takifugu poecilonotus	Pufferfish	4	1.2	9.3	18	—	Crabs, shellfish												
Off Wadam Town	H-1-5	2012/2/22	38.045683 38.045667 38.045517 38.045633 38.045833	140.928233 140.934233 140.940133 140.945633 140.951800	Mollusca	Bilvalvia	Veneridae	Maetra chinensis	Pseudocardium sachalinense	Sakhalin surf clam(molluscan body)	13	0.8	8.7	11	—	—							
										Sakhalin surf clam(shell)	13	1.35	1.7	1.9	<0.012								
		2012/2/26								38.045833	140.951800	Vertebrata	Osteichthyes	Osmeriformes	Japanese icefish	Salangichthys microdon	Japanese icefish	Many	1	0.95	1.2	—	—
		Many								2	—	—	—	0.029	—								