

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Station Type	Period of Record		Un-ionized Ammonia (mg/L)							
					Start Year	End Year	Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	
MVC	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin	MVC WW	1999	2004								
		19343072901	Big Gull (Clarendon) Lake, Main Basin	MVC WW	1999	2004								
		19343072801	Big Gull (Clarendon) Lake, West Basin	MVC WW	1999	2004								
Buckshot Creek		18343077201	Blue Lake	MVC WW	1999	2004								
		18343070401	Buckshot (Indian) Lake	MVC WW	1999	2004								
		18343070801	Grindstone Lake, North Basin	MVC WW	2000	2005								
		18343070901	Grindstone Lake, South Basin	MVC WW	2000	2005								
		18343072101	Sand Lake	MVC WW	1999	2004								
		18343072201	Shabomeka (Buck) Lake	MVC WW	1998	2003								
		19343072301	Shawenegog (McClintock) Lake, North Basin	MVC WW	1999	2004								
19343072401	Shawenegog (McClintock) Lake, South Basin	MVC WW	1999	2004										
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	PWQMN	2001	2005	1.5E-04	6.5E-03	33	0.02	0	0%	2.1E-03	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	PWQMN	2001	2005	2.3E-04	1.0E-02	32	0.02	0	0%	2.3E-03	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	Ottawa	2000	2006	5.8E-05	7.7E-03	58	0.02	0	0%	1.1E-03	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	Ottawa	2000	2006	1.3E-04	5.9E-03	58	0.02	0	0%	1.3E-03	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	Ottawa	2000	2006	6.2E-05	2.1E-02	58	0.02	1	2%	1.6E-03	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	Ottawa	2000	2006	4.9E-05	6.9E-03	57	0.02	0	0%	1.4E-03	
		CK70-05	Poole Creek, Stittsville Main St	Ottawa	2000	2006	1.9E-05	8.6E-03	76	0.02	0	0%	8.9E-04	
Clyde River		18343052002	At dam, downstream of Lanark	PWQMN	2001	2005	8.8E-05	3.7E-03	35	0.02	0	0%	7.9E-04	
		18343053002	Kerr Lake outlet, upstream of Lanark	PWQMN	2001	2005	8.8E-05	6.7E-03	33	0.02	0	0%	9.3E-04	
		18343070501	Canonto Lake (North & South Basins)	MVC WW	2000	2005								
		19343074901	Clyde Lake	MVC WW	2002	2002								
		19343075001	Flower Round Lake	MVC WW	2002	2002								
		19343076001	Horne Lake	MVC WW	2002	2002								
		19343076401	Joes Lake	MVC WW	2002	2002								
		18343074301	Palmerston Lake (North & South Basins)	MVC WW	2000	2005								
		19343076501	Paddys Lake	MVC WW	2002	2002								
		19343075901	Upper Park Lake	MVC WW	2002	2002								
		19343070101	Robertson Lake	MVC WW	2002	2002								
19343003601	Sunday Lake	MVC WW	2000	2005										
19343076301	Widow Lake	MVC WW	2002	2002										
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	PWQMN	2001	2005	2.6E-05	2.4E-03	35	0.02	0	0%	5.9E-04	
		19343073401	Dalhousie Lake	MVC WW	2001	2001								
		19343073501	Mississippi Lake, Big Lake	MVC WW	2002	2002								
		19343001401	Mississippi Lake, Second Lake	MVC WW	2002	2002								
		18343075301	Patterson Lake	MVC WW	2001	2001								
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	PWQMN	2001	2005	7.7E-05	7.7E-03	34	0.02	0	0%	1.7E-03	

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Watershed	Subwatershed	Station ID	Station Location	Station Type	Period of Record		Un-ionized Ammonia (mg/L)						
					Start Year	End Year	Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.
		18343072701	Bennett Lake (North & South Basins)	MVC WW	2001	2001							
		Unknown	Black Lake	MVC WW	2001	2001							
		18343074801	Clear Lake	MVC WW	2001	2001							
		18343073601	Sharbot Lake, East Basin	MVC WW	2001	2001							
		18343072501	Sharbot Lake, Main Basin	MVC WW	2001	2001							
		18343074501	Sharbot Lake, South-West Basin	MVC WW	2001	2001							
		18343074401	Sharbot Lake, West Basin	MVC WW	2001	2001							
		18343072601	Silver Lake	MVC WW	2000	2005							
		18343074601	White Lake	MVC WW	2000	2005							
	Indian River	19343073101	Clayton Lake	MVC WW	2002	2002							
		19343077101	Taylor Lake	MVC WW	2002	2002							
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	PWQMN	2001	2005	2.0E-04	5.9E-03	30	0.02	0	0%	1.3E-03
		18343003402	Mississippi River, At dam, downstream of Pakenham	PWQMN	2001	2005	1.0E-04	3.9E-03	36	0.02	0	0%	1.3E-03
		18343004002	Mississippi River, Almonte St, Almonte	PWQMN	2001	2005	2.2E-04	1.1E-02	35	0.02	0	0%	1.7E-03
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	PWQMN	2001	2005	1.1E-04	1.4E-02	36	0.02	0	0%	2.0E-03
		CK3-01	Cody Creek, at Hansen Side Rd.	Ottawa	2000	2006	5.7E-05	8.9E-03	53	0.02	0	0%	1.3E-03
		CK3-03	Cody Creek, at Highway 44, E of Road 10	Ottawa	2000	2003	3.9E-06	9.0E-04	24	0.02	0	0%	1.9E-04
		CK3-04	Cody Creek, March Rd.	Ottawa	2003	2006	3.9E-06	8.5E-04	30	0.02	0	0%	1.1E-04
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	Ottawa	2000	2006	3.4E-05	6.8E-03	80	0.02	0	0%	7.4E-04
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	PWQMN	2001	2005	6.2E-06	1.2E-03	35	0.02	0	0%	1.4E-04
		18343071101	Kishkebus Lake	MVC WW	1998	2003							
		18343073901	Mackavoy Lake	MVC WW	1998	2003							
		18343071401	Marble Lake	MVC WW	1998	2003							
		19343074101	Mazinaw Lake, North Basin	MVC WW	1998	2003							
		19343073701	Mazinaw Lake, South Basin	MVC WW	1998	2003							
		Unknown	McCausland Lake	MVC WW	1998	2003							
		19343071601	Mississagagon Lake, East Basin	MVC WW	1998	2003							
		19343071501	Mississagagon Lake, West Basin	MVC WW	1998	2003							
	Upper Mississippi	18343070201	Ardoch (Green) Lake	MVC WW	1999	2004							
		18343073301	Crotch (Cross) Lake, North Basin	MVC WW	2000	2005							
		18343073201	Crotch (Cross) Lake, South Basin	MVC WW	2000	2005							
		18343070701	Fawn Lake	MVC WW	2000	2005							
		19343071001	Kashwakamak Lake, East Basin	MVC WW	1998	2003							
		19343073801	Kashwakamak Lake, West Basin	MVC WW	1998	2003							
		18343071301	Malcolm Lake	MVC WW	1999	2004							
		18343071901	Mosque Lake (North, South & West Basins)	MVC WW	2000	2005							
		18343072001	Pine Lake	MVC WW	1999	2004							
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	Ottawa	2000	2006	7.5E-06	5.3E-03	57	0.02	0	0%	0.000274

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					Start Year	End Year	Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	Ottawa	2000	2006	6.6E-05	8.6E-03	68	0.02	0	0%	0.001288
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	Ottawa	2000	2006	2.0E-05	6.1E-03	65	0.02	0	0%	0.000862
		CK6-001	Watts Creek, at Shirley Blvd.	Ottawa	2000	2006	1.2E-04	1.2E-02	55	0.02	0	0%	0.002139
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 34)	Ottawa	2000	2006	1.5E-04	1.4E-02	72	0.02	0	0%	0.001469
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	Ottawa	2000	2006	3.4E-05	1.2E-02	52	0.02	0	0%	0.001518
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	Ottawa	2000	2006	3.6E-05	7.7E-03	58	0.02	0	0%	0.000733
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	Ottawa	2000	2006	1.0E-04	8.3E-03	37	0.02	0	0%	0.001716
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	Ottawa	2000	2006	1.3E-04	1.2E-02	66	0.02	0	0%	0.001456
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	Ottawa	2000	2006	5.4E-05	8.5E-03	66	0.02	0	0%	0.001291
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	Ottawa	2000	2006	2.3E-05	5.9E-03	55	0.02	0	0%	0.000554
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	Ottawa	2000	2006	9.9E-07	1.3E-03	54	0.02	0	0%	5.07E-05
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	Ottawa	2000	2006	3.0E-05	2.0E-02	70	0.02	1	1%	0.002326
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	Ottawa	2000	2006	2.2E-04	1.1E-02	66	0.02	0	0%	0.002046
		CK24-002	Cardinal Creek, Old Montreal Rd.	Ottawa	2000	2006	1.9E-04	7.9E-03	59	0.02	0	0%	0.002019
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	Ottawa	2000	2005	1.4E-04	1.1E-02	53	0.02	0	0%	0.002238
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	Ottawa	2000	2006	5.0E-05	8.3E-03	71	0.02	0	0%	0.001436
		MKL-01	MackKay Lake, deepest basin, NW portion of lake	Ottawa	2000	2006	1.5E-04	4.0E-03	38	0.02	0	0%	0.001037
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	Ottawa	2000	2006	6.8E-05	2.9E-02	61	0.02	1	2%	0.00207
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	Ottawa	2000	2006	1.1E-04	9.5E-03	71	0.02	0	0%	0.001607
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	Ottawa	2000	2006	4.8E-05	1.6E-02	65	0.02	0	0%	0.002146
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	Ottawa	2000	2006	3.0E-05	4.8E-03	65	0.02	0	0%	0.001424
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	Ottawa	2000	2006	1.4E-05	3.2E-02	39	0.02	1	3%	0.001998
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	Ottawa	2000	2006	8.4E-04	6.2E-03	34	0.02	0	0%	1.5E-03
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	Ottawa	2000	2006	1.4E-04	1.0E-02	40	0.02	0	0%	2.8E-03
	Ottawa River	18000017002	Ottawa River, Chats Falls	PWQMN	2001	2005	5.6E-06	8.8E-04	42	0.02	0	0%	2.0E-04
		ORS-100.20	Woolsey Narrows/Ottawa River	Ottawa	2000	2006	2.2E-05	1.3E-03	37	0.02	0	0%	2.0E-04
		ORS-210.10	Deschenes Rapids/Ottawa River	Ottawa	2000	2006	6.5E-06	1.3E-03	29	0.02	0	0%	1.7E-04
		ORS-210.30	Deschenes Rapids/Ottawa River	Ottawa	2000	2006	6.5E-06	1.2E-03	37	0.02	0	0%	1.8E-04
		ORS-210.40	Deschenes Rapids/Ottawa River	Ottawa	2000	2006	1.3E-05	1.2E-03	28	0.02	0	0%	1.5E-04
		ORS-430.10	Upper Duck Island/Ottawa River	Ottawa	2000	2006	3.4E-05	1.2E-03	28	0.02	0	0%	2.4E-04
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	Ottawa	2000	2006	3.0E-05	9.8E-04	41	0.02	0	0%	1.7E-04
		ORS-430.60	Kettle Island/Ottawa River	Ottawa	2000	2006	2.6E-05	1.1E-03	29	0.02	0	0%	1.9E-04
		ORS-430.70	Kettle Island/Ottawa River	Ottawa	2000	2006	1.5E-05	1.5E-03	29	0.02	0	0%	2.6E-04
		ORS-450.10	Hiawatha/Ottawa River	Ottawa	2002	2006	1.6E-04	3.2E-03	15	0.02	0	0%	1.2E-03
		ORS-450.20	Hiawatha/Ottawa River	Ottawa	2002	2006	9.6E-05	5.5E-03	15	0.02	0	0%	1.1E-03
		ORS-450.30	Hiawatha/Ottawa River	Ottawa	2002	2006	4.0E-05	3.7E-03	22	0.02	0	0%	4.1E-04
		ORS-450.40	Hiawatha/Ottawa River	Ottawa	2002	2006	7.4E-05	1.7E-03	15	0.02	0	0%	5.3E-04
		ORS-500.10	Petrie Island/Ottawa River	Ottawa	2000	2006	1.8E-04	5.6E-03	28	0.02	0	0%	1.5E-03
		ORS-500.20	Petrie Island/Ottawa River	Ottawa	2000	2006	4.4E-05	8.3E-03	41	0.02	0	0%	1.1E-03
		ORS-500.50	Petrie Island/Ottawa River	Ottawa	2000	2006	7.7E-05	3.0E-03	28	0.02	0	0%	0.000588

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Watershed	Subwatershed	Station ID	Station Location	Station Type	Period of Record		Un-ionized Ammonia (mg/L)						
					Start Year	End Year	Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	PWQMN	2001	2005	1.6E-04	8.3E-03	27	0.02	0	0%	2.1E-03
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	Ottawa	2000	2006	4.4E-05	4.8E-02	62	0.02	2	3%	2.7E-03
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	Ottawa	2000	2006	9.3E-06	1.0E-02	72	0.02	0	0%	8.8E-04
		JR-02	Jock River, at Jockvale Rd.	Ottawa	2000	2006	3.0E-05	1.1E-02	75	0.02	0	0%	8.7E-04
		JR-05	Jock River, at Moodie Dr.	Ottawa	2000	2006	3.9E-05	3.8E-03	68	0.02	0	0%	9.2E-04
		JR-12	Jock River, at Ottawa St., Richmond	Ottawa	2000	2006	2.4E-05	6.7E-03	57	0.02	0	0%	6.5E-04
		JR-20	Jock River, at Bleeks Side Rd.	Ottawa	2000	2006	1.7E-05	9.9E-03	65	0.02	0	0%	6.1E-04
Kemptville Creek	18003300302		Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptville	PWQMN	2001	2005	6.2E-05	6.5E-03	29	0.02	0	0%	2.1E-03
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	RVCA SW	2001	2005	8.3E-04	0.04	15	0.02	1	7%	6.0E-03
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	Ottawa	2000	2006	3.9E-06	8.5E-03	85	0.02	0	0%	6.8E-04
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	RVCA SW	2001	2005	1.6E-04	2.7E-03	15	0.02	0	0%	1.2E-03
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	RVCA SW	2001	2005	1.1E-04	2.5E-03	14	0.02	0	0%	9.7E-04
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	RVCA SW	2001	2005	8.7E-05	1.9E-03	15	0.02	0	0%	6.1E-04
		KEM-07	Kemptville Creek @ Oxford Mills	RVCA SW	2001	2005	5.3E-05	8.9E-04	13	0.02	0	0%	4.5E-04
		KEM-08	Kemptville Creek @ Pattersons Corners	RVCA SW	2003	2005	4.5E-05	1.2E-03	15	0.02	0	0%	4.1E-04
		KEM-09	Kemptville Creek @ County Road 20	RVCA SW	2001	2005	8.7E-05	9.1E-04	14	0.02	0	0%	2.8E-04
		KEM-10	Kemptville Creek @ Limerick Road	RVCA SW	2001	2005	2.7E-05	1.3E-03	15	0.02	0	0%	5.3E-04
		KEM-11	Kemptville Creek @ Garretton	RVCA SW	2001	2005	2.9E-05	1.2E-03	15	0.02	0	0%	3.6E-04
		KEM-14	Kemptville Creek @ Kyle Road	RVCA SW	2001	2005	4.4E-05	1.4E-03	16	0.02	0	0%	4.0E-04
		KEM-16	Kemptville Creek u/s N. Augusta	RVCA SW	2001	2005	8.4E-05	1.1E-03	15	0.02	0	0%	3.9E-04
		NKE-02	North Kemptville Creek @ Bishops Mills	RVCA SW	2001	2005	3.9E-05	1.2E-03	15	0.02	0	0%	3.4E-04
NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	RVCA SW	2001	2005	3.3E-04	5.4E-03	15	0.02	0	0%	1.8E-03		
Lower Rideau	18003302902		Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	PWQMN	2001	2005	2.1E-04	7.8E-03	29	0.02	0	0%	1.7E-03
		18003303102	Rideau River, Hogs Back Rd, Ottawa	PWQMN	2001	2005	1.8E-04	8.5E-03	29	0.02	0	0%	1.8E-03
		18003303402	Rideau River, St. Patrick St, Ottawa	PWQMN	2001	2005	6.2E-05	3.4E-03	28	0.02	0	0%	1.1E-03
		18003303702	Rideau River, Long Island gauging station, downstream of Mano	PWQMN	2001	2005	9.6E-05	5.2E-03	29	0.02	0	0%	1.6E-03
		ARC-01	Arcand Drain @ County Road 19	RVCA SW	2001	2005	8.2E-05	1.7E-03	14	0.02	0	0%	7.3E-04
		BRA-01	Brassils Creek @ Donnelly Drive	RVCA SW	2001	2005	3.3E-05	7.0E-04	16	0.02	0	0%	2.6E-04
		CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	Ottawa	2000	2006	7.8E-05	8.2E-03	66	0.02	0	0%	1.4E-03
		CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	Ottawa	2000	2006	2.1E-04	1.2E-02	78	0.02	0	0%	2.1E-03
		CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	Ottawa	2000	2006	3.2E-05	5.0E-02	82	0.02	1	1%	1.8E-03
		CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	Ottawa	2000	2006	4.4E-05	1.1E-02	80	0.02	0	0%	1.4E-03
		CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	Ottawa	2000	2006	4.7E-05	6.8E-03	77	0.02	0	0%	1.2E-03
		CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	Ottawa	2000	2006	4.7E-05	9.4E-03	68	0.02	0	0%	1.8E-03
		CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	Ottawa	2002	2006	5.0E-05	7.4E-03	50	0.02	0	0%	1.3E-03
		CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	Ottawa	2000	2006	5.7E-05	1.1E-02	69	0.02	0	0%	1.6E-03
		CK19-10	Hunt Club Creek, at Country Club Rd.	Ottawa	2000	2006	3.2E-05	1.5E-02	72	0.02	0	0%	1.2E-03
		CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	Ottawa	2000	2006	2.7E-05	1.5E-02	78	0.02	0	0%	8.2E-04
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	Ottawa	2000	2006	2.7E-05	4.0E-03	66	0.02	0	0%	8.9E-04		
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	Ottawa	2000	2006	3.0E-05	4.2E-03	60	0.02	0	0%	7.2E-04		

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					Start Year	End Year	Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	Ottawa	2000	2006	2.4E-05	4.7E-03	53	0.02	0	0%	7.6E-04
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	Ottawa	2000	2006	3.2E-05	9.1E-03	62	0.02	0	0%	1.3E-03
		CK42-04	Stevens Creek, at Church St. weir, North Gower	Ottawa	2000	2006	3.2E-05	8.4E-03	66	0.02	0	0%	1.0E-03
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	Ottawa	2000	2006	4.7E-05	2.9E-02	62	0.02	1	2%	1.8E-03
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	Ottawa	2000	2006	5.4E-05	9.1E-03	58	0.02	0	0%	1.1E-03
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	Ottawa	2000	2006	5.4E-06	1.8E-03	60	0.02	0	0%	2.1E-04
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	Ottawa	2000	2006	1.2E-05	6.2E-03	59	0.02	0	0%	6.1E-04
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	Ottawa	2000	2006	4.7E-06	1.1E-02	76	0.02	0	0%	7.4E-04
		MCD-02	McDermott Drain @ County Road 19	RVCA SW	2001	2005	5.1E-05	7.2E-03	14	0.02	0	0%	2.1E-03
		MCD-03	McDermott Drain @ County Road 19	RVCA SW	2003	2005	3.4E-04	2.3E-03	15	0.02	0	0%	1.1E-03
		MUR-01	Murphy Drain @ County Road 22	RVCA SW	2001	2005	1.0E-04	1.4E-03	15	0.02	0	0%	5.7E-04
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	Ottawa	2000	2006	3.9E-05	8.1E-03	65	0.02	0	0%	1.1E-03
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	Ottawa	2000	2006	1.5E-05	9.9E-03	82	0.02	0	0%	1.2E-03
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	Ottawa	2000	2006	3.7E-05	7.9E-03	53	0.02	0	0%	1.1E-03
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	Ottawa	2000	2006	1.1E-04	8.3E-03	58	0.02	0	0%	1.1E-03
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	Ottawa	2000	2006	3.4E-05	1.2E-02	67	0.02	0	0%	1.3E-03
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	Ottawa	2000	2006	3.4E-05	1.2E-02	84	0.02	0	0%	1.1E-03
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	Ottawa	2000	2004	3.1E-05	1.1E-02	64	0.02	0	0%	1.2E-03
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream	Ottawa	2000	2004	5.1E-06	4.2E-03	87	0.02	0	0%	9.0E-04
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	Ottawa	2000	2004	1.6E-04	6.0E-03	37	0.02	0	0%	1.4E-03
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	PWQMN	2001	2005	1.2E-04	1.5E-02	29	0.02	0	0%	3.0E-03
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	PWQMN	2001	2005	1.2E-04	8.6E-03	29	0.02	0	0%	2.3E-03
		BAR-01	Barbers Creek @ County Road 16	RVCA SW	2001	2005	1.2E-04	1.5E-03	16	0.02	0	0%	6.4E-04
		COC-02	Cockburn Creek @ Hwy. 43	RVCA SW	2001	2005	8.1E-05	3.1E-03	16	0.02	0	0%	7.4E-04
		DAL-01	Dales Creek @ County Road 23	RVCA SW	2001	2005	6.6E-05	1.3E-03	16	0.02	0	0%	4.1E-04
		HUT-02	Hutton Creek @ Townline Road	RVCA SW	2001	2005	4.5E-05	8.4E-04	14	0.02	0	0%	3.0E-04
		IRI-02	Irish Creek @ County Road 15 (Jasper)	RVCA SW	2001	2005	4.5E-05	4.7E-04	16	0.02	0	0%	2.1E-04
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	RVCA SW	2001	2005	8.4E-05	9.7E-04	16	0.02	0	0%	4.2E-04
		RCK-01	Rideau Creek @ Donnelly Drive	RVCA SW	2001	2005	3.3E-05	1.4E-03	16	0.02	0	0%	3.0E-04
		ROS-01	Rosedale Creek @ Hwy. 43	RVCA SW	2001	2005	4.5E-05	2.5E-03	16	0.02	0	0%	9.0E-04
		RVL-26	Otter Lake	RVCA WW	2003	2003							
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	RVCA SW	2003	2005	1.8E-05	7.2E-04	12	0.02	0	0%	2.9E-04
		BLA-01	Black Creek in Murphys Pt. Prov. Park	RVCA SW	2003	2005	1.7E-05	1.7E-03	15	0.02	0	0%	4.3E-04
		RVL-11	Black Lake	RVCA WW	2002	2005							
		RVL-12	Burridge Lake	RVCA WW	2002	2002							
		RVL-13	Long Lake (East)	RVCA WW	2002	2002							
		RVL-14	Westport Sand Lake	RVCA WW	2002	2002							
		RVL-27	Wolfe Lake	RVCA WW	2002	2005							
		RVL-32	Adam Lake	RVCA WW	2005	2005							
		RVL-33	Round Lake	RVCA WW	2005	2005							
		RVL-34	Loon Lake	RVCA WW	2005	2005							

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Station Type	Period of Record		Un-ionized Ammonia (mg/L)							
					Start Year	End Year	Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	
		RVL-35	Bass Lake	RVCA WW	2005	2005								
		RVL-36	Big Rideau Lake, Hoggs Bay	RVCA WW	2005	2005								
		RVL-37	Upper Rideau Lake	RVCA WW	2005	2005								
		RVL-38	Lower Rideau Lake	RVCA WW	2005	2005								
		RVL-39	Big Rideau Lake	RVCA WW	2005	2005								
		SHE-01	Sheldons Creek @ Old Kingston Road	RVCA SW	2003	2005	2.6E-04	9.8E-03	11	0.02	0	0%	2.7E-03	
		WES-01	Westport Dam	RVCA SW	2003	2005	5.5E-05	1.8E-03	15	0.02	0	0%	4.9E-04	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	PWQMN	2001	2005	1.1E-03	4.1E-03	26	0.02	0	0%	2.4E-03	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	PWQMN	2001	2005	1.9E-05	2.5E-03	28	0.02	0	0%	4.5E-04	
		EAG-01	Eagle Creek u/s Bobs Lake	RVCA SW	2003	2005	3.3E-05	7.8E-04	15	0.02	0	0%	2.2E-04	
		FIS-01	Fish Creek	RVCA SW	2003	2005	3.1E-05	2.2E-04	5	0.02	0	0%	1.1E-04	
		FIS-03	Fish Creek @ County Road 38	RVCA SW	2003	2005	1.2E-05	3.3E-03	15	0.02	0	0%	3.1E-04	
		FIS-A	Fish Creek u/s Bobs Lake	RVCA SW	2003	2005	3.6E-05	3.6E-04	9	0.02	0	0%	1.8E-04	
		GRT-01	Grants Creek @ Glen Tay Road	RVCA SW	2001	2005	3.3E-05	3.4E-03	13	0.02	0	0%	6.1E-04	
		GRT-02	Grants Creek @ Upper Scotch Line	RVCA SW	2001	2005	5.7E-05	5.7E-03	14	0.02	0	0%	7.9E-04	
		GRT-03	Grants Creek @ County Road 10	RVCA SW	2001	2005	3.6E-05	1.2E-03	15	0.02	0	0%	4.6E-04	
		GRT-04	Grants Creek @ Pike Lake Dam	RVCA SW	2001	2005	7.2E-05	1.2E-03	15	0.02	0	0%	4.7E-04	
		GRT-05	Grants Creek d/s Upper Scotch Line	RVCA SW	2003	2005	6.0E-05	2.0E-03	14	0.02	0	0%	4.0E-04	
		JEB-01	Jebbs Creek @ County Road 1	RVCA SW	2001	2005	4.5E-05	2.0E-03	16	0.02	0	0%	4.9E-04	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	RVCA SW	2001	2005	3.3E-05	1.7E-03	15	0.02	0	0%	4.3E-04	
		RVL-01	Pike Lake	RVCA WW	2001	2005								
		RVL-02	O'Brien Lake	RVCA WW	2001	2001								
		RVL-03	Farren Lake	RVCA WW	2001	2001								
		RVL-04	Crosby Lake	RVCA WW	2001	2001								
		RVL-05	Little Crosby Lake	RVCA WW	2001	2001								
		RVL-06	Davern Lake	RVCA WW	2001	2001								
		RVL-07	Little Silver Lake	RVCA WW	2001	2001								
		RVL-08	Rainbow Lake	RVCA WW	2001	2001								
		RVL-09	Eagle Lake	RVCA WW	2002	2002								
		RVL-10	Otty Lake	RVCA WW	2002	2002								
		RVL-16	Bob's Lake, Buck Bay	RVCA WW	2003	2003								
		RVL-17	Bob's Lake, Green Bay	RVCA WW	2003	2003								
		RVL-18	Bob's Lake, West Basin	RVCA WW	2003	2003								
		RVL-19	Bob's Lake, Mud Bay	RVCA WW	2003	2003								
		RVL-20	Bob's Lake, Norris Bay	RVCA WW	2003	2003								
		RVL-21	Bob's Lake, E. Basin, Long Bay	RVCA WW	2003	2003								
		RVL-22	Bob's Lake, C. Narrows	RVCA WW	2003	2003								
		RVL-23	Bob's Lake, Mill Bay	RVCA WW	2003	2003								
		RVL-24	Crow Lake	RVCA WW	2003	2003								
		RVL-25	Christie Lake	RVCA WW	2003	2005								
		RVL-28	Leggatt Lake	RVCA WW	2004	2004								
		RVL-29	Long Lake (West)	RVCA WW	2004	2004								

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Station Type	Period of Record		Un-ionized Ammonia (mg/L)							
					Start Year	End Year	Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	
		RVL-30	Elbow Lake	RVCA WW	2004	2005								
		RVL-31	Carnahan Lake	RVCA WW	2004	2004								
		SNY-03	Scotts Snye @ Upper Scotch Line	RVCA SW	2003	2005	4.5E-05	7.3E-04	15	0.02	0	0%	2.3E-04	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	RVCA SW	2003	2005	4.5E-06	1.1E-04	15	0.02	0	0%	3.2E-05	
		TAY-01	Tay River @ Port Elmsley	RVCA SW	2001	2005	9.3E-05	1.7E-03	16	0.02	0	0%	4.4E-04	
		TAY-04	Tay River @ Rogers Road (Perth)	RVCA SW	2001	2005	6.8E-05	7.8E-04	16	0.02	0	0%	2.1E-04	
		TAY-05	Tay River @ Glen Tay	RVCA SW	2001	2005	2.9E-05	4.3E-04	14	0.02	0	0%	1.4E-04	
		TAY-08	Tay River @ Gore Street (Perth)	RVCA SW	2001	2005	3.9E-05	7.0E-04	18	0.02	0	0%	1.9E-04	
		TAY-09	Tay River @ Adams Pond	RVCA SW	2001	2005	3.6E-05	4.9E-04	15	0.02	0	0%	2.0E-04	
		TAY-11	Tay River u/s of Tay Marsh	RVCA SW	2001	2005	1.3E-04	3.2E-03	15	0.02	0	0%	9.6E-04	
		TAY-15	Tay River d/s of Christie Lake	RVCA SW	2001	2005	3.6E-05	9.6E-04	15	0.02	0	0%	2.4E-04	
		TAY-16	Tay River @ Bolingbroke	RVCA SW	2001	2005	3.3E-05	5.6E-04	15	0.02	0	0%	2.5E-04	
		TAY-19	Tay River @ Craig St. (Perth)	RVCA SW	2001	2005	3.9E-05	7.4E-04	16	0.02	0	0%	1.6E-04	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	RVCA SW	2003	2005	2.3E-05	5.0E-04	14	0.02	0	0%	2.1E-04	

- Notes:** CCME - Canadian Council of Ministers of the Environment  
 CWQG - Canadian Water Quality Guidelines, CCME  
 EC - Environment Canada  
 MOE - Ontario Ministry of the Environment  
 MVC WW - Mississippi Valley Conservation - Watershed Watch  
 ODWQS - Ontario Drinking Water Quality Standards, MOE  
 ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE  
 Ottawa - City of Ottawa - Surface Water Quality Monitoring  
 PWQMN - Provincial Water Quality Monitoring Network  
 PWQO - Provincial Water Quality Objectives, MOE  
 RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring  
 RVCA WW - Rideau Valley Conservation Authority - Watershed Watch  
 SSWQO - Saskatchewan Surface Water Quality Objectives

- 1 - PWQO criteria for pH must be between the range of 6.5 - 8.5  
 2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Avg.	Geo.	Geomean
				Exceed.	Mean	Exceed.
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin			
		19343072901	Big Gull (Clarendon) Lake, Main Basin			
		19343072801	Big Gull (Clarendon) Lake, West Basin			
Buckshot Creek		18343077201	Blue Lake			
		18343070401	Buckshot (Indian) Lake			
		18343070801	Grindstone Lake, North Basin			
		18343070901	Grindstone Lake, South Basin			
		18343072101	Sand Lake			
		18343072201	Shabomeka (Buck) Lake			
		19343072301	Shawenegog (McClintock) Lake, North Basin			
		19343072401	Shawenegog (McClintock) Lake, South Basin			
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp		1.2E-03	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn		1.4E-03	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour		6.7E-04	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge		8.4E-04	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge		7.7E-04	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road		8.1E-04	
		CK70-05	Poole Creek, Stittsville Main St		4.2E-04	
Clyde River		18343052002	At dam, downstream of Lanark		4.9E-04	
		18343053002	Kerr Lake outlet, upstream of Lanark		5.2E-04	
		18343070501	Canonto Lake (North & South Basins)			
		19343074901	Clyde Lake			
		19343075001	Flower Round Lake			
		19343076001	Horne Lake			
		19343076401	Joes Lake			
		18343074301	Palmerston Lake (North & South Basins)			
		19343076501	Paddys Lake			
		19343075901	Upper Park Lake			
		19343070101	Robertson Lake			
		19343003601	Sunday Lake			
		19343076301	Widow Lake			
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8		3.4E-04	
		19343073401	Dalhousie Lake			
		19343073501	Mississippi Lake, Big Lake			
		19343001401	Mississippi Lake, Second Lake			
		18343075301	Patterson Lake			
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook		1.1E-03	



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Avg.	Geo.	Geomean
				Exceed.	Mean	Exceed.
		18343072701	Bennett Lake (North & South Basins)			
		Unknown	Black Lake			
		18343074801	Clear Lake			
		18343073601	Sharbot Lake, East Basin			
		18343072501	Sharbot Lake, Main Basin			
		18343074501	Sharbot Lake, South-West Basin			
		18343074401	Sharbot Lake, West Basin			
		18343072601	Silver Lake			
		18343074601	White Lake			
	Indian River	19343073101	Clayton Lake			
		19343077101	Taylor Lake			
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta		9.4E-04	
		18343003402	Mississippi River, At dam, downstream of Pakenham		8.3E-04	
		18343004002	Mississippi River, Almonte St, Almonte		9.1E-04	
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton		1.0E-03	
		CK3-01	Cody Creek, at Hansen Side Rd.		7.0E-04	
		CK3-03	Cody Creek, at Highway 44, E of Road 10		1.1E-04	
		CK3-04	Cody Creek, March Rd.		5.6E-05	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)		4.6E-04	
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41		6.2E-05	
		18343071101	Kishkebus Lake			
		18343073901	Mackavoy Lake			
		18343071401	Marble Lake			
		19343074101	Mazinaw Lake, North Basin			
		19343073701	Mazinaw Lake, South Basin			
		Unknown	McCausland Lake			
		19343071601	Mississagagon Lake, East Basin			
		19343071501	Mississagagon Lake, West Basin			
	Upper Mississippi	18343070201	Ardoch (Green) Lake			
		18343073301	Crotch (Cross) Lake, North Basin			
		18343073201	Crotch (Cross) Lake, South Basin			
		18343070701	Fawn Lake			
		19343071001	Kashwakamak Lake, East Basin			
		19343073801	Kashwakamak Lake, West Basin			
		18343071301	Malcolm Lake			
		18343071901	Mosque Lake (North, South & West Basins)			
		18343072001	Pine Lake			
<b>Ottawa</b>	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.		0.000104	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Water Quality		
				Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.		0.000646	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert		0.000298	
		CK6-001	Watts Creek, at Shirley Blvd.		0.001259	
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd)		0.000917	
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway		0.000642	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.		0.000318	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat		0.001164	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstre		0.000942	
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream		0.000796	
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.		0.000287	
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of F		1.46E-05	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.		0.001175	
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up		0.001313	
		CK24-002	Cardinal Creek, Old Montreal Rd.		0.00152	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of		0.00141	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert		0.000983	
		MKL-01	Mackay Lake, deepest basin, NW portion of lake		0.000797	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.		0.000826	
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of		0.001026	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)		0.000912	
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid		0.000906	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore		0.000667	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa		1.2E-03	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream		2.0E-03	
	Ottawa River	18000017002	Ottawa River, Chats Falls		1.2E-04	
		ORS-100.20	Woolsey Narrows/Ottawa River		1.3E-04	
		ORS-210.10	Deschenes Rapids/Ottawa River		1.0E-04	
		ORS-210.30	Deschenes Rapids/Ottawa River		1.1E-04	
		ORS-210.40	Deschenes Rapids/Ottawa River		9.1E-05	
		ORS-430.10	Upper Duck Island/Ottawa River		1.6E-04	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River		1.2E-04	
		ORS-430.60	Kettle Island/Ottawa River		1.3E-04	
		ORS-430.70	Kettle Island/Ottawa River		1.5E-04	
		ORS-450.10	Hiawatha/Ottawa River		8.7E-04	
		ORS-450.20	Hiawatha/Ottawa River		5.9E-04	
		ORS-450.30	Hiawatha/Ottawa River		1.7E-04	
		ORS-450.40	Hiawatha/Ottawa River		4.1E-04	
		ORS-500.10	Petrie Island/Ottawa River		1.2E-03	
		ORS-500.20	Petrie Island/Ottawa River		6.5E-04	
		ORS-500.50	Petrie Island/Ottawa River		0.000374	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Avg.	Geo.	Geomean
				Exceed.	Mean	Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416		1.2E-03	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J		1.1E-03	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)		4.5E-04	
		JR-02	Jock River, at Jockvale Rd.		4.7E-04	
		JR-05	Jock River, at Moodie Dr.		5.4E-04	
		JR-12	Jock River, at Ottawa St., Richmond		2.9E-04	
		JR-20	Jock River, at Bleeks Side Rd.		2.6E-04	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill		1.1E-03	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)		3.8E-03	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)		0.0E+00	
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)		1.0E-03	
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)		7.6E-04	
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills		4.3E-04	
		KEM-07	Kemptville Creek @ Oxford Mills		3.8E-04	
		KEM-08	Kemptville Creek @ Pattersons Corners		2.9E-04	
		KEM-09	Kemptville Creek @ County Road 20		2.2E-04	
		KEM-10	Kemptville Creek @ Limerick Road		3.7E-04	
		KEM-11	Kemptville Creek @ Garretton		2.3E-04	
		KEM-14	Kemptville Creek @ Kyle Road		2.8E-04	
		KEM-16	Kemptville Creek u/s N. Augusta		2.9E-04	
NKE-02	North Kemptville Creek @ Bishops Mills		2.1E-04			
NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake		1.3E-03			
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of		1.1E-03		
	18003303102	Rideau River, Hogs Back Rd, Ottawa		1.1E-03		
	18003303402	Rideau River, St. Patrick St, Ottawa		7.2E-04		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano		1.0E-03		
	ARC-01	Arcand Drain @ County Road 19		5.7E-04		
	BRA-01	Brassils Creek @ Donnelly Drive		1.9E-04		
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid		8.2E-04		
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o		1.4E-03		
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.		5.3E-04		
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc		9.1E-04		
	CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.		7.9E-04		
	CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)		1.0E-03		
	CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.		7.3E-04		
	CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.		1.0E-03		
	CK19-10	Hunt Club Creek, at Country Club Rd.		7.2E-04		
	CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)		3.0E-04		
	CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R		5.4E-04		
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f		4.4E-04			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Water Quality		
				Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down		3.7E-04	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts		7.2E-04	
		CK42-04	Stevens Creek, at Church St. weir, North Gower		4.4E-04	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger		6.4E-04	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f		5.2E-04	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o		8.6E-05	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstre		2.3E-04	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.		2.0E-04	
		MCD-02	McDermott Drain @ County Road 19		1.1E-03	
		MCD-03	McDermott Drain @ County Road 19		9.4E-04	
		MUR-01	Murphy Drain @ County Road 22		4.4E-04	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R		6.6E-04	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)		7.0E-04	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km		6.9E-04	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre		7.1E-04	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)		7.6E-04	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)		6.0E-04	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)		6.3E-04	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream		4.8E-04	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)		1.0E-03	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock		1.6E-03	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville		1.5E-03	
		BAR-01	Barbers Creek @ County Road 16		4.8E-04	
		COC-02	Cockburn Creek @ Hwy. 43		4.9E-04	
		DAL-01	Dales Creek @ County Road 23		2.9E-04	
		HUT-02	Hutton Creek @ Townline Road		2.3E-04	
		IRI-02	Irish Creek @ County Road 15 (Jasper)		1.8E-04	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls		3.3E-04	
		RCK-01	Rideau Creek @ Donnelly Drive		1.9E-04	
		ROS-01	Rosedale Creek @ Hwy. 43		5.6E-04	
		RVL-26	Otter Lake			
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42		2.0E-04	
		BLA-01	Black Creek in Murphys Pt. Prov. Park		1.6E-04	
		RVL-11	Black Lake			
		RVL-12	Burridge Lake			
		RVL-13	Long Lake (East)			
		RVL-14	Westport Sand Lake			
		RVL-27	Wolfe Lake			
		RVL-32	Adam Lake			
		RVL-33	Round Lake			
		RVL-34	Loon Lake			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Avg.	Geo.	Geomean
				Exceed.	Mean	Exceed.
		RVL-35	Bass Lake			
		RVL-36	Big Rideau Lake, Hoggs Bay			
		RVL-37	Upper Rideau Lake			
		RVL-38	Lower Rideau Lake			
		RVL-39	Big Rideau Lake			
		SHE-01	Sheldons Creek @ Old Kingston Road		1.7E-03	
		WES-01	Westport Dam		3.2E-04	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons		2.3E-03	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke		2.6E-04	
		EAG-01	Eagle Creek u/s Bobs Lake		1.5E-04	
		FIS-01	Fish Creek		8.4E-05	
		FIS-03	Fish Creek @ County Road 38		8.0E-05	
		FIS-A	Fish Creek u/s Bobs Lake		1.4E-04	
		GRT-01	Grants Creek @ Glen Tay Road		3.4E-04	
		GRT-02	Grants Creek @ Upper Scotch Line		3.1E-04	
		GRT-03	Grants Creek @ County Road 10		2.8E-04	
		GRT-04	Grants Creek @ Pike Lake Dam		3.3E-04	
		GRT-05	Grants Creek d/s Upper Scotch Line		2.3E-04	
		JEB-01	Jebbs Creek @ County Road 1		2.9E-04	
		RUD-01	Ruddsdale Creek @ Christie Lake Road		2.3E-04	
		RVL-01	Pike Lake			
		RVL-02	O'Brien Lake			
		RVL-03	Farren Lake			
		RVL-04	Crosby Lake			
		RVL-05	Little Crosby Lake			
		RVL-06	Davern Lake			
		RVL-07	Little Silver Lake			
		RVL-08	Rainbow Lake			
		RVL-09	Eagle Lake			
		RVL-10	Otty Lake			
		RVL-16	Bob's Lake, Buck Bay			
		RVL-17	Bob's Lake, Green Bay			
		RVL-18	Bob's Lake, West Basin			
		RVL-19	Bob's Lake, Mud Bay			
		RVL-20	Bob's Lake, Norris Bay			
		RVL-21	Bob's Lake, E. Basin, Long Bay			
		RVL-22	Bob's Lake, C. Narrows			
		RVL-23	Bob's Lake, Mill Bay			
		RVL-24	Crow Lake			
		RVL-25	Christie Lake			
		RVL-28	Leggatt Lake			
		RVL-29	Long Lake (West)			

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location			
				Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-30	Elbow Lake			
		RVL-31	Carnahan Lake			
		SNY-03	Scotts Snye @ Upper Scotch Line		1.6E-04	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake		2.5E-05	
		TAY-01	Tay River @ Port Elmsley		3.1E-04	
		TAY-04	Tay River @ Rogers Road (Perth)		1.6E-04	
		TAY-05	Tay River @ Glen Tay		1.1E-04	
		TAY-08	Tay River @ Gore Street (Perth)		1.6E-04	
		TAY-09	Tay River @ Adams Pond		1.5E-04	
		TAY-11	Tay River u/s of Tay Marsh		6.3E-04	
		TAY-15	Tay River d/s of Christie Lake		1.6E-04	
		TAY-16	Tay River @ Bolingbroke		1.9E-04	
		TAY-19	Tay River @ Craig St. (Perth)		1.2E-04	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake		1.4E-04	

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Chloride (mg/L)									
				Min	Max	# of Samples	ODWSOG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin										
		19343072901	Big Gull (Clarendon) Lake, Main Basin										
		19343072801	Big Gull (Clarendon) Lake, West Basin										
Buckshot Creek		18343077201	Blue Lake										
		18343070401	Buckshot (Indian) Lake										
		18343070801	Grindstone Lake, North Basin										
		18343070901	Grindstone Lake, South Basin										
		18343072101	Sand Lake										
		18343072201	Shabomeka (Buck) Lake										
		19343072301	Shawenegog (McClintock) Lake, North Basin										
19343072401	Shawenegog (McClintock) Lake, South Basin												
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	23.5	390	33	250	1	3%	137.6		127.4	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	22.4	199	33	250	0	0%	121.1		113.5	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	15.8	189	60	250	0	0%	105.1		97.5	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	5.8	230	60	250	0	0%	126.4		115.9	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	8.6	360	60	250	6	10%	194.1		180.1	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	8.3	210	58	250	0	0%	110.3		99.9	
		CK70-05	Poole Creek, Stittsville Main St	4.7	188	78	250	0	0%	84.4		75.0	
Clyde River		18343052002	At dam, downstream of Lanark	2.2	8	35	250	0	0%	4.4		4.2	
		18343053002	Kerr Lake outlet, upstream of Lanark	2	7.9	33	250	0	0%	4.2		4.0	
		18343070501	Canonto Lake (North & South Basins)										
		19343074901	Clyde Lake										
		19343075001	Flower Round Lake										
		19343076001	Horne Lake										
		19343076401	Joes Lake										
		18343074301	Palmerston Lake (North & South Basins)										
		19343076501	Paddys Lake										
		19343075901	Upper Park Lake										
		19343070101	Robertson Lake										
19343003601	Sunday Lake												
19343076301	Widow Lake												
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	2.2	7	35	250	0	0%	3.3		3.2	
		19343073401	Dalhousie Lake										
		19343073501	Mississippi Lake, Big Lake										
		19343001401	Mississippi Lake, Second Lake										
		18343075301	Patterson Lake										
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	8.4	14.8	35	250	0	0%	12.3		12.2	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Chloride (mg/L)									
				Min	Max	# of Samples	ODWSOG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
		18343072701	Bennett Lake (North & South Basins)										
		Unknown	Black Lake										
		18343074801	Clear Lake										
		18343073601	Sharbot Lake, East Basin										
		18343072501	Sharbot Lake, Main Basin										
		18343074501	Sharbot Lake, South-West Basin										
		18343074401	Sharbot Lake, West Basin										
		18343072601	Silver Lake										
		18343074601	White Lake										
	Indian River	19343073101	Clayton Lake										
		19343077101	Taylor Lake										
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	4	18.2	31	250	0	0%	10.6			10.0
		18343003402	Mississippi River, At dam, downstream of Pakenham	5	15.7	36	250	0	0%	8.1			7.8
		18343004002	Mississippi River, Almonte St, Almonte	4.9	11.8	36	250	0	0%	7.0			6.8
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	5	9.2	36	250	0	0%	6.4			6.3
		CK3-01	Cody Creek, at Hansen Side Rd.	6.2	99	55	250	0	0%	44.7			40.7
		CK3-03	Cody Creek, at Highway 44, E of Road 10	14.4	57	24	250	0	0%	21.8			20.7
		CK3-04	Cody Creek, March Rd.	3.7	40	32	250	0	0%	24.6			23.5
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	5.3	18.2	82	250	0	0%	10.2			9.9
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	3.4	5	35	250	0	0%	4.5			4.4
		18343071101	Kishkebus Lake										
		18343073901	Mackavoy Lake										
		18343071401	Marble Lake										
		19343074101	Mazinaw Lake, North Basin										
		19343073701	Mazinaw Lake, South Basin										
		Unknown	McCausland Lake										
		19343071601	Mississagagon Lake, East Basin										
		19343071501	Mississagagon Lake, West Basin										
	Upper Mississippi	18343070201	Ardoch (Green) Lake										
		18343073301	Crotch (Cross) Lake, North Basin										
		18343073201	Crotch (Cross) Lake, South Basin										
		18343070701	Fawn Lake										
		19343071001	Kashwakamak Lake, East Basin										
		19343073801	Kashwakamak Lake, West Basin										
		18343071301	Malcolm Lake										
		18343071901	Mosque Lake (North, South & West Basins)										
		18343072001	Pine Lake										
<b>Ottawa</b>	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	8.5	75	64	250	0	0%	39.8			37.2



**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Chloride (mg/L)								
				Min	Max	# of Samples	ODWSOG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	5.3	240	70	250	0	0%	101.7		92.1
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	7.3	189	66	250	0	0%	45.2		33.6
		CK6-001	Watts Creek, at Shirley Blvd.	1.5	520	57	250	13	23%	201.1		170.1
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd)	12.6	760	74	250	59	80%	341.7	YES	314.1
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	7.3	90	53	250	0	0%	35.7		32.0
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	10.1	720	59	250	7	12%	130.8		80.0
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	24	53	38	250	0	0%	36.6		35.9
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstre	9.9	1430	73	250	40	55%	292.6	YES	241.3
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	9.2	2200	73	250	43	59%	305.6	YES	246.1
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	14	670	56	250	5	9%	127.8		104.7
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	12	220	54	250	0	0%	36.4		30.5
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	15.5	3200	79	250	61	77%	455.4	YES	329.1
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	10.1	2600	110	250	43	39%	300.7	YES	231.6
		CK24-002	Cardinal Creek, Old Montreal Rd.	7.2	200	75	250	0	0%	69.6		63.3
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	9.6	117	54	250	0	0%	40.0		37.2
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	10.8	1160	72	250	39	54%	301.7	YES	247.2
		MKL-01	MackKay Lake, deepest basin, NW portion of lake	8.5	44	38	250	0	0%	36.0		35.1
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	8.6	440	63	250	19	30%	211.6		180.7
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	10.1	1510	73	250	26	36%	255.2	YES	210.7
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	5.4	5900	67	250	7	10%	225.4		126.5
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	8.5	4600	210	250	153	73%	324.2	YES	256.0
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	33	76	38	250	0	0%	46.5		45.0
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	28	220	34	250	0	0%	74.3		61.7
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	25.77	290	40	250	1	3%	64.7		53.5
	Ottawa River	18000017002	Ottawa River, Chats Falls	1.57	134	42	250	0	0%	5.9		3.0
		ORS-100.20	Woolsey Narrows/Ottawa River	1.5	3.2	38	250	0	0%	2.3		2.3
		ORS-210.10	Deschenes Rapids/Ottawa River	1.5	4.9	37	250	0	0%	2.6		2.5
		ORS-210.30	Deschenes Rapids/Ottawa River	1.4	4	37	250	0	0%	2.5		2.4
		ORS-210.40	Deschenes Rapids/Ottawa River	1.4	3.7	37	250	0	0%	2.4		2.4
		ORS-430.10	Upper Duck Island/Ottawa River	1.7	5.9	41	250	0	0%	2.9		2.8
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	1.6	5.3	41	250	0	0%	2.7		2.6
		ORS-430.60	Kettle Island/Ottawa River	1.5	4.5	41	250	0	0%	2.6		2.6
		ORS-430.70	Kettle Island/Ottawa River	1.3	4.9	41	250	0	0%	2.7		2.5
		ORS-450.10	Hiawatha/Ottawa River	2.2	8.3	24	250	0	0%	4.8		4.5
		ORS-450.20	Hiawatha/Ottawa River	2.2	7.5	24	250	0	0%	3.5		3.3
		ORS-450.30	Hiawatha/Ottawa River	1.3	7	24	250	0	0%	3.1		2.9
		ORS-450.40	Hiawatha/Ottawa River	1.8	6.7	24	250	0	0%	3.7		3.5
		ORS-500.10	Petrie Island/Ottawa River	2.2	8.6	40	250	0	0%	4.8		4.6
		ORS-500.20	Petrie Island/Ottawa River	1.6	6.8	41	250	0	0%	3.8		3.6
		ORS-500.50	Petrie Island/Ottawa River	1.7	12.2	40	250	0	0%	3.4		3.2

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Chloride (mg/L)									
				Min	Max	# of Samples	ODWSOG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	22.8	82.5	29	250	0	0%	45.6		42.8	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	6.5	220	62	250	0	0%	88.9		75.8	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	10.1	102	72	250	0	0%	50.8		46.1	
		JR-02	Jock River, at Jockvale Rd.	9.9	135	75	250	0	0%	53.0		48.0	
		JR-05	Jock River, at Moodie Dr.	8.7	97	68	250	0	0%	41.7		38.0	
		JR-12	Jock River, at Ottawa St., Richmond	8.4	39	57	250	0	0%	20.6		19.8	
		JR-20	Jock River, at Bleeks Side Rd.	7.6	57	65	250	0	0%	27.7		26.1	
			Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	7.8	77.6	30	250	0	0%	23.3	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	6.3	95	23	250	0	0%	45.7		39.9	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	2.7	93	86	250	0	0%	15.9		12.8	
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	3.3	28	24	250	0	0%	15.3		14.2	
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	7.3	15.5	24	250	0	0%	11.2		11.0	
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	5.4	15.2	24	250	0	0%	9.6		9.3	
		KEM-07	Kemptville Creek @ Oxford Mills	6.5	15.2	24	250	0	0%	9.4		9.2	
		KEM-08	Kemptville Creek @ Pattersons Corners	6.1	15.3	24	250	0	0%	8.9		8.7	
		KEM-09	Kemptville Creek @ County Road 20	24	17.1	24	250	0	0%	9.2		8.9	
		KEM-10	Kemptville Creek @ Limerick Road	3.2	18.8	24	250	0	0%	12.6		12.1	
		KEM-11	Kemptville Creek @ Garretton	3.2	20	24	250	0	0%	13.1		12.5	
		KEM-14	Kemptville Creek @ Kyle Road	3.1	22	24	250	0	0%	12.5		11.9	
		KEM-16	Kemptville Creek u/s N. Augusta	2.9	14.4	23	250	0	0%	11.0		10.6	
		NKE-02	North Kemptville Creek @ Bishops Mills	0.4	8.6	24	250	0	0%	3.8		3.1	
		NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	3.3	12.2	24	250	0	0%	5.3		5.0	
	Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	11.2	21.4	30	250	0	0%	15.1		14.9	
		18003303102	Rideau River, Hogs Back Rd, Ottawa	17.6	42.8	30	250	0	0%	24.9		24.3	
		18003303402	Rideau River, St. Patrick St, Ottawa	20.1	51.2	30	250	0	0%	30.7		29.5	
		18003303702	Rideau River, Long Island gauging station, downstream of Mano	12.4	23.4	30	250	0	0%	16.9		16.6	
		ARC-01	Arcand Drain @ County Road 19	7.4	85	22	250	0	0%	46.4		40.0	
		BRA-01	Brassils Creek @ Donnelly Drive	11.9	28	23	250	0	0%	16.7		16.1	
		CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	9.2	240	66	250	0	0%	117.2		104.9	
		CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	11.6	2600	78	250	32	41%	365.5	YES	212.4	
		CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	9.8	840	83	250	6	7%	138.4		115.5	
		CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	6.5	980	81	250	20	25%	242.7		214.8	
		CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	15	1900	78	250	32	41%	330.6	YES	260.7	
		CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	19	1730	69	250	29	42%	288.2	YES	232.6	
		CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	15.3	1280	50	250	13	26%	272.0	YES	226.1	
		CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	9.3	830	70	250	4	6%	125.1		105.8	
		CK19-10	Hunt Club Creek, at Country Club Rd.	10.7	520	74	250	3	4%	120.2		106.4	
		CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	14.3	1230	81	250	5	6%	157.9		136.8	
		CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	7.8	116	67	250	0	0%	68.8		62.3	
		CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	6	153	61	250	0	0%	60.7		54.3	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Chloride (mg/L)								
				Min	Max	# of Samples	ODWSOG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	11	134	57	250	0	0%	83.1		76.7
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	7	350	63	250	1	2%	87.3		79.6
		CK42-04	Stevens Creek, at Church St. weir, North Gower	2.9	122	67	250	0	0%	28.7		23.5
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	3.6	51	63	250	0	0%	21.9		19.9
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	8.4	168	62	250	0	0%	47.1		39.6
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	1.4	260	62	250	1	2%	11.0		6.2
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	6	102	60	250	0	0%	32.3		28.6
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	3.2	57	77	250	0	0%	16.4		14.7
		MCD-02	McDermott Drain @ County Road 19	7.9	74	21	250	0	0%	38.3		32.8
		MCD-03	McDermott Drain @ County Road 19	4.1	32	21	250	0	0%	20.7		18.9
		MUR-01	Murphy Drain @ County Road 22	8.4	66	22	250	0	0%	31.3		28.0
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	16.6	50	68	250	0	0%	30.3		29.3
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	15.5	99	85	250	0	0%	28.5		26.9
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	12.5	40	58	250	0	0%	23.3		22.6
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	8.6	119	63	250	0	0%	28.8		25.9
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	8.7	28	69	250	0	0%	16.9		16.5
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	6.9	52	86	250	0	0%	21.6		20.4
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	7.9	22	66	250	0	0%	14.8		14.5
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstrean	0.1	240	88	250	0	0%	16.1		12.9
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	14.9	167	37	250	0	0%	27.4		24.2
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	8.4	16.2	30	250	0	0%	12.0		11.8
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	9.1	16	30	250	0	0%	12.3		12.2
		BAR-01	Barbers Creek @ County Road 16	4.6	47	24	250	0	0%	12.6		9.7
		COC-02	Cockburn Creek @ Hwy. 43	5.2	21	23	250	0	0%	9.8		9.2
		DAL-01	Dales Creek @ County Road 23	6.7	22	23	250	0	0%	12.8		12.0
		HUT-02	Hutton Creek @ Townline Road	2.3	22	21	250	0	0%	8.8		7.7
		IRI-02	Irish Creek @ County Road 15 (Jasper)	8.8	24	23	250	0	0%	14.6		14.2
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	6.8	46	23	250	0	0%	27.5		25.4
		RCK-01	Rideau Creek @ Donnelly Drive	3.5	9.8	23	250	0	0%	5.9		5.7
		ROS-01	Rosedale Creek @ Hwy. 43	7.4	25	23	250	0	0%	14.8		14.3
		RVL-26	Otter Lake									
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	7	24	18	250	0	0%	13.7		12.9
		BLA-01	Black Creek in Murphys Pt. Prov. Park	3.6	14.9	22	250	0	0%	7.8		7.5
		RVL-11	Black Lake									
		RVL-12	Burridge Lake									
		RVL-13	Long Lake (East)									
		RVL-14	Westport Sand Lake									
		RVL-27	Wolfe Lake									
		RVL-32	Adam Lake									
		RVL-33	Round Lake									
		RVL-34	Loon Lake									

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Chloride (mg/L)									
				Min	Max	# of Samples	ODWSOG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
		RVL-35	Bass Lake										
		RVL-36	Big Rideau Lake, Hoggs Bay										
		RVL-37	Upper Rideau Lake										
		RVL-38	Lower Rideau Lake										
		RVL-39	Big Rideau Lake										
		SHE-01	Sheldons Creek @ Old Kingston Road	13.2	24	15	250	0	0%	19.5			19.2
		WES-01	Westport Dam	9.8	16.9	17	250	0	0%	12.3			12.2
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	7.8	27.4	29	250	0	0%	12.6			11.9
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	3.6	4.8	30	250	0	0%	4.3			4.3
		EAG-01	Eagle Creek u/s Bobs Lake	7.3	13.9	21	250	0	0%	10.0			9.9
		FIS-01	Fish Creek	3.9	8.3	7	250	0	0%	5.6			5.4
		FIS-03	Fish Creek @ County Road 38	2	10.4	22	250	0	0%	4.5			4.2
		FIS-A	Fish Creek u/s Bobs Lake	5	7.7	13	250	0	0%	6.2			6.2
		GRT-01	Grants Creek @ Glen Tay Road	10	22	23	250	0	0%	14.1			13.7
		GRT-02	Grants Creek @ Upper Scotch Line	9.8	23	23	250	0	0%	13.5			13.0
		GRT-03	Grants Creek @ County Road 10	8.8	46	23	250	0	0%	11.9			11.0
		GRT-04	Grants Creek @ Pike Lake Dam	8.6	12.3	23	250	0	0%	9.8			9.8
		GRT-05	Grants Creek d/s Upper Scotch Line	10.2	24	17	250	0	0%	14.3			13.7
		JEB-01	Jebbs Creek @ County Road 1	7.1	65	22	250	0	0%	13.6			10.7
		RUD-01	Ruddsdale Creek @ Christie Lake Road	4.9	91	23	250	0	0%	29.4			26.1
		RVL-01	Pike Lake										
		RVL-02	O'Brien Lake										
		RVL-03	Farren Lake										
		RVL-04	Crosby Lake										
		RVL-05	Little Crosby Lake										
		RVL-06	Davern Lake										
		RVL-07	Little Silver Lake										
		RVL-08	Rainbow Lake										
		RVL-09	Eagle Lake										
		RVL-10	Otty Lake										
		RVL-16	Bob's Lake, Buck Bay										
		RVL-17	Bob's Lake, Green Bay										
		RVL-18	Bob's Lake, West Basin										
		RVL-19	Bob's Lake, Mud Bay										
		RVL-20	Bob's Lake, Norris Bay										
		RVL-21	Bob's Lake, E. Basin, Long Bay										
		RVL-22	Bob's Lake, C. Narrows										
		RVL-23	Bob's Lake, Mill Bay										
		RVL-24	Crow Lake										
		RVL-25	Christie Lake										
		RVL-28	Leggatt Lake										
		RVL-29	Long Lake (West)										

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Chloride (mg/L)									
				Min	Max	# of Samples	ODWSOG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
		RVL-30	Elbow Lake										
		RVL-31	Carnahan Lake										
		SNY-03	Scotts Snye @ Upper Scotch Line	4.5	5.8	22	250	0	0%	4.9			4.9
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.3	15.3	21	250	0	0%	2.2			1.4
		TAY-01	Tay River @ Port Elmsley	7.3	17.6	23	250	0	0%	10.8			10.5
		TAY-04	Tay River @ Rogers Road (Perth)	5.2	14.3	23	250	0	0%	7.9			7.5
		TAY-05	Tay River @ Glen Tay	4.8	210	24	250	0	0%	15.7			7.6
		TAY-08	Tay River @ Gore Street (Perth)	5.2	14.6	25	250	0	0%	8.3			7.9
		TAY-09	Tay River @ Adams Pond	4.4	6.2	23	250	0	0%	4.9			4.8
		TAY-11	Tay River u/s of Tay Marsh	7.2	17.9	23	250	0	0%	12.5			12.1
		TAY-15	Tay River d/s of Christie Lake	4.39	45	22	250	0	0%	6.5			5.2
		TAY-16	Tay River @ Bolingbroke	4	111	23	250	0	0%	9.1			5.1
		TAY-19	Tay River @ Craig St. (Perth)	5.2	14.5	23	250	0	0%	8.3			7.9
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	5.1	11.2	17	250	0	0%	7.8			7.6

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin	
		19343072901	Big Gull (Clarendon) Lake, Main Basin	
		19343072801	Big Gull (Clarendon) Lake, West Basin	
Buckshot Creek		18343077201	Blue Lake	
		18343070401	Buckshot (Indian) Lake	
		18343070801	Grindstone Lake, North Basin	
		18343070901	Grindstone Lake, South Basin	
		18343072101	Sand Lake	
		18343072201	Shabomeka (Buck) Lake	
		19343072301	Shawenegog (McClintock) Lake, North Basin	
		19343072401	Shawenegog (McClintock) Lake, South Basin	
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	
		CK70-05	Poole Creek, Stittsville Main St	
Clyde River		18343052002	At dam, downstream of Lanark	
		18343053002	Kerr Lake outlet, upstream of Lanark	
		18343070501	Canonto Lake (North & South Basins)	
		19343074901	Clyde Lake	
		19343075001	Flower Round Lake	
		19343076001	Horne Lake	
		19343076401	Joes Lake	
		18343074301	Palmerston Lake (North & South Basins)	
		19343076501	Paddys Lake	
		19343075901	Upper Park Lake	
		19343070101	Robertson Lake	
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	
		19343073401	Dalhousie Lake	
		19343073501	Mississippi Lake, Big Lake	
		19343001401	Mississippi Lake, Second Lake	
		18343075301	Patterson Lake	
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		18343072701	Bennett Lake (North & South Basins)	
		Unknown	Black Lake	
		18343074801	Clear Lake	
		18343073601	Sharbot Lake, East Basin	
		18343072501	Sharbot Lake, Main Basin	
		18343074501	Sharbot Lake, South-West Basin	
		18343074401	Sharbot Lake, West Basin	
		18343072601	Silver Lake	
		18343074601	White Lake	
	Indian River	19343073101	Clayton Lake	
		19343077101	Taylor Lake	
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	
		18343003402	Mississippi River, At dam, downstream of Pakenham	
		18343004002	Mississippi River, Almonte St, Almonte	
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	
		CK3-01	Cody Creek, at Hansen Side Rd.	
		CK3-03	Cody Creek, at Highway 44, E of Road 10	
		CK3-04	Cody Creek, March Rd.	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	
		18343071101	Kishkebus Lake	
		18343073901	Mackavoy Lake	
		18343071401	Marble Lake	
		19343074101	Mazinaw Lake, North Basin	
		19343073701	Mazinaw Lake, South Basin	
		Unknown	McCausland Lake	
		19343071601	Mississagagon Lake, East Basin	
		19343071501	Mississagagon Lake, West Basin	
	Upper Mississippi	18343070201	Ardoch (Green) Lake	
		18343073301	Crotch (Cross) Lake, North Basin	
		18343073201	Crotch (Cross) Lake, South Basin	
		18343070701	Fawn Lake	
		19343071001	Kashwakamak Lake, East Basin	
		19343073801	Kashwakamak Lake, West Basin	
		18343071301	Malcolm Lake	
		18343071901	Mosque Lake (North, South & West Basins)	
		18343072001	Pine Lake	
<b>Ottawa</b>	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	
		CK6-001	Watts Creek, at Shirley Blvd.	
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 174)	YES
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of F	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	YES
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	
		CK24-002	Cardinal Creek, Old Montreal Rd.	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of c	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	
		MKL-01	Mackay Lake, deepest basin, NW portion of lake	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	YES
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	
	Ottawa River	18000017002	Ottawa River, Chats Falls	
		ORS-100.20	Woolsey Narrows/Ottawa River	
		ORS-210.10	Deschenes Rapids/Ottawa River	
		ORS-210.30	Deschenes Rapids/Ottawa River	
		ORS-210.40	Deschenes Rapids/Ottawa River	
		ORS-430.10	Upper Duck Island/Ottawa River	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	
		ORS-430.60	Kettle Island/Ottawa River	
		ORS-430.70	Kettle Island/Ottawa River	
		ORS-450.10	Hiawatha/Ottawa River	
		ORS-450.20	Hiawatha/Ottawa River	
		ORS-450.30	Hiawatha/Ottawa River	
		ORS-450.40	Hiawatha/Ottawa River	
		ORS-500.10	Petrie Island/Ottawa River	
		ORS-500.20	Petrie Island/Ottawa River	
		ORS-500.50	Petrie Island/Ottawa River	



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	
		JR-02	Jock River, at Jockvale Rd.	
		JR-05	Jock River, at Moodie Dr.	
		JR-12	Jock River, at Ottawa St., Richmond	
		JR-20	Jock River, at Bleeks Side Rd.	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	
		KEM-07	Kemptville Creek @ Oxford Mills	
KEM-08		Kemptville Creek @ Pattersons Corners		
KEM-09		Kemptville Creek @ County Road 20		
KEM-10		Kemptville Creek @ Limerick Road		
KEM-11		Kemptville Creek @ Garretton		
KEM-14		Kemptville Creek @ Kyle Road		
KEM-16		Kemptville Creek u/s N. Augusta		
NKE-02	North Kemptville Creek @ Bishops Mills			
	NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake		
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of		
	18003303102	Rideau River, Hogs Back Rd, Ottawa		
	18003303402	Rideau River, St. Patrick St, Ottawa		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano		
	ARC-01	Arcand Drain @ County Road 19		
	BRA-01	Brassils Creek @ Donnelly Drive		
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid		
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o		
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.		
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc		
	CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	YES	
	CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)		
	CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.		
	CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.		
	CK19-10	Hunt Club Creek, at Country Club Rd.		
	CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)		
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R			
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstre	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	
		MCD-02	McDermott Drain @ County Road 19	
		MCD-03	McDermott Drain @ County Road 19	
		MUR-01	Murphy Drain @ County Road 22	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	
		BAR-01	Barbers Creek @ County Road 16	
		COC-02	Cockburn Creek @ Hwy. 43	
		DAL-01	Dales Creek @ County Road 23	
		HUT-02	Hutton Creek @ Townline Road	
		IRI-02	Irish Creek @ County Road 15 (Jasper)	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	
		RCK-01	Rideau Creek @ Donnelly Drive	
		ROS-01	Rosedale Creek @ Hwy. 43	
		RVL-26	Otter Lake	
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	
		BLA-01	Black Creek in Murphys Pt. Prov. Park	
		RVL-11	Black Lake	
		RVL-12	Burridge Lake	
		RVL-13	Long Lake (East)	
		RVL-14	Westport Sand Lake	
		RVL-27	Wolfe Lake	
		RVL-32	Adam Lake	
		RVL-33	Round Lake	
		RVL-34	Loon Lake	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		RVL-35	Bass Lake	
		RVL-36	Big Rideau Lake, Hoggs Bay	
		RVL-37	Upper Rideau Lake	
		RVL-38	Lower Rideau Lake	
		RVL-39	Big Rideau Lake	
		SHE-01	Sheldons Creek @ Old Kingston Road	
		WES-01	Westport Dam	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	
		EAG-01	Eagle Creek u/s Bobs Lake	
		FIS-01	Fish Creek	
		FIS-03	Fish Creek @ County Road 38	
		FIS-A	Fish Creek u/s Bobs Lake	
		GRT-01	Grants Creek @ Glen Tay Road	
		GRT-02	Grants Creek @ Upper Scotch Line	
		GRT-03	Grants Creek @ County Road 10	
		GRT-04	Grants Creek @ Pike Lake Dam	
		GRT-05	Grants Creek d/s Upper Scotch Line	
		JEB-01	Jebbs Creek @ County Road 1	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	
		RVL-01	Pike Lake	
		RVL-02	O'Brien Lake	
		RVL-03	Farren Lake	
		RVL-04	Crosby Lake	
		RVL-05	Little Crosby Lake	
		RVL-06	Davern Lake	
		RVL-07	Little Silver Lake	
		RVL-08	Rainbow Lake	
		RVL-09	Eagle Lake	
		RVL-10	Otty Lake	
		RVL-16	Bob's Lake, Buck Bay	
		RVL-17	Bob's Lake, Green Bay	
		RVL-18	Bob's Lake, West Basin	
		RVL-19	Bob's Lake, Mud Bay	
		RVL-20	Bob's Lake, Norris Bay	
		RVL-21	Bob's Lake, E. Basin, Long Bay	
		RVL-22	Bob's Lake, C. Narrows	
		RVL-23	Bob's Lake, Mill Bay	
		RVL-24	Crow Lake	
		RVL-25	Christie Lake	
		RVL-28	Leggatt Lake	
		RVL-29	Long Lake (West)	

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		RVL-30	Elbow Lake	
		RVL-31	Carnahan Lake	
		SNY-03	Scotts Snye @ Upper Scotch Line	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	
		TAY-01	Tay River @ Port Elmsley	
		TAY-04	Tay River @ Rogers Road (Perth)	
		TAY-05	Tay River @ Glen Tay	
		TAY-08	Tay River @ Gore Street (Perth)	
		TAY-09	Tay River @ Adams Pond	
		TAY-11	Tay River u/s of Tay Marsh	
		TAY-15	Tay River d/s of Christie Lake	
		TAY-16	Tay River @ Bolingbroke	
		TAY-19	Tay River @ Craig St. (Perth)	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrate (mg/L)										
				Min	Max	# of Samples	ODWQS criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin											
		19343072901	Big Gull (Clarendon) Lake, Main Basin											
		19343072801	Big Gull (Clarendon) Lake, West Basin											
Buckshot Creek		18343077201	Blue Lake											
		18343070401	Buckshot (Indian) Lake											
		18343070801	Grindstone Lake, North Basin											
		18343070901	Grindstone Lake, South Basin											
		18343072101	Sand Lake											
		18343072201	Shabomeka (Buck) Lake											
		19343072301	Shawenegog (McClintock) Lake, North Basin											
19343072401	Shawenegog (McClintock) Lake, South Basin													
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	0.005	3.38	33	10	0	0%	0.765		0.190		
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	0.045	1.45	33	10	0	0%	0.483		0.348		
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.005	1.4	25	10	0	0%	0.469		0.205		
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.005	0.9	25	10	0	0%	0.413		0.296		
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.005	1.3	25	10	0	0%	0.560		0.334		
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	0.005	2.1	21	10	0	0%	0.704		0.355		
		CK70-05	Poole Creek, Stittsville Main St	0.01	2	34	10	0	0%	0.842		0.641		
Clyde River		18343052002	At dam, downstream of Lanark	0.005	0.208	35	10	0	0%	0.023		0.013		
		18343053002	Kerr Lake outlet, upstream of Lanark	0.005	0.046	33	10	0	0%	0.013		0.010		
		18343070501	Canonto Lake (North & South Basins)											
		19343074901	Clyde Lake											
		19343075001	Flower Round Lake											
		19343076001	Horne Lake											
		19343076401	Joes Lake											
		18343074301	Palmerston Lake (North & South Basins)											
		19343076501	Paddys Lake											
		19343075901	Upper Park Lake											
		19343070101	Robertson Lake											
19343003601	Sunday Lake													
19343076301	Widow Lake													
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.005	0.190	35	10	0	0%	0.031		0.017		
		19343073401	Dalhousie Lake											
		19343073501	Mississippi Lake, Big Lake											
		19343001401	Mississippi Lake, Second Lake											
		18343075301	Patterson Lake											
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.005	0.119	35	10	0	0%	0.020		0.013		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrate (mg/L)										
				Min	Max	# of Samples	ODWQS criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		18343072701	Bennett Lake (North & South Basins)											
		Unknown	Black Lake											
		18343074801	Clear Lake											
		18343073601	Sharbot Lake, East Basin											
		18343072501	Sharbot Lake, Main Basin											
		18343074501	Sharbot Lake, South-West Basin											
		18343074401	Sharbot Lake, West Basin											
		18343072601	Silver Lake											
		18343074601	White Lake											
	Indian River	19343073101	Clayton Lake											
		19343077101	Taylor Lake											
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	0.005	0.839	31	10	0	0%	0.142		0.051		
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.005	0.480	36	10	0	0%	0.108		0.058		
		18343004002	Mississippi River, Almonte St, Almonte	0.005	0.495	36	10	0	0%	0.091		0.058		
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.022	1.510	36	10	0	0%	0.113		0.069		
		CK3-01	Cody Creek, at Hansen Side Rd.	0.005	2.1	24	10	0	0%	0.550		0.292		
		CK3-03	Cody Creek, at Highway 44, E of Road 10											
		CK3-04	Cody Creek, March Rd.	0.005	0.025	25	10	0	0%	0.012		0.010		
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	0.005	0.49	34	10	0	0%	0.158		0.097		
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.021	0.472	35	10	0	0%	0.138		0.117		
		18343071101	Kishkebus Lake											
		18343073901	Mackavoy Lake											
		18343071401	Marble Lake											
		19343074101	Mazinaw Lake, North Basin											
		19343073701	Mazinaw Lake, South Basin											
		Unknown	McCausland Lake											
		19343071601	Mississagagon Lake, East Basin											
		19343071501	Mississagagon Lake, West Basin											
	Upper Mississippi	18343070201	Ardoch (Green) Lake											
		18343073301	Crotch (Cross) Lake, North Basin											
		18343073201	Crotch (Cross) Lake, South Basin											
		18343070701	Fawn Lake											
		19343071001	Kashwakamak Lake, East Basin											
		19343073801	Kashwakamak Lake, West Basin											
		18343071301	Malcolm Lake											
		18343071901	Mosque Lake (North, South & West Basins)											
		18343072001	Pine Lake											
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.005	0.18	25	10	0	0%	0.023		0.014		

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrate (mg/L)									
				Min	Max	# of Samples	ODWQS criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	0.01	2.4	29	10	0	0%	1.352		1.104	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	0.005	1	27	10	0	0%	0.205		0.137	
		CK6-001	Watts Creek, at Shirley Blvd.	0.005	2.4	26	10	0	0%	1.171		0.814	
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 174)	0.02	3.8	28	10	0	0%	2.093		1.760	
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	0.005	0.28	22	10	0	0%	0.081		0.047	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.005	0.43	24	10	0	0%	0.150		0.088	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	0.005	0.03	15	10	0	0%	0.011		0.009	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	0.04	1.7	27	10	0	0%	0.664		0.490	
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	0.01	1.4	27	10	0	0%	0.530		0.320	
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.05	7.1	25	10	0	0%	0.783		0.349	
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	0.005	0.04	24	10	0	0%	0.011		0.009	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	0.07	4.1	29	10	0	0%	1.569		1.229	
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	0.05	2.7	29	10	0	0%	1.652		1.314	
		CK24-002	Cardinal Creek, Old Montreal Rd.	0.15	3.1	25	10	0	0%	1.212		0.962	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of c	0.025	4.6	16	10	0	0%	0.761		0.274	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	0.08	3.3	31	10	0	0%	2.085		1.744	
		MKL-01	Mackay Lake, deepest basin, NW portion of lake	0.005	0.025	15	10	0	0%	0.023		0.021	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	0.01	1.9	27	10	0	0%	0.853		0.651	
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	0.01	3.2	29	10	0	0%	1.682		1.403	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	0.1	3.8	28	10	0	0%	1.889		1.591	
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	0.03	3.5	27	10	0	0%	2.166		1.678	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	0.005	0.09	15	10	0	0%	0.012		0.007	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.005	0.9	12	10	0	0%	0.155		0.054	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.01	0.8	18	10	0	0%	0.174		0.053	
	Ottawa River	18000017002	Ottawa River, Chats Falls	0.005	0.275	42	10	0	0%	0.140		0.125	
		ORS-100.20	Woolsey Narrows/Ottawa River	0.05	0.13	15	10	0	0%	0.102		0.099	
		ORS-210.10	Deschenes Rapids/Ottawa River	0.04	0.13	13	10	0	0%	0.095		0.092	
		ORS-210.30	Deschenes Rapids/Ottawa River	0.04	0.13	13	10	0	0%	0.095		0.092	
		ORS-210.40	Deschenes Rapids/Ottawa River	0.04	0.13	13	10	0	0%	0.094		0.090	
		ORS-430.10	Upper Duck Island/Ottawa River	0.06	0.19	16	10	0	0%	0.100		0.096	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.06	0.19	16	10	0	0%	0.099		0.095	
		ORS-430.60	Kettle Island/Ottawa River	0.05	0.16	16	10	0	0%	0.098		0.093	
		ORS-430.70	Kettle Island/Ottawa River	0.05	0.15	16	10	0	0%	0.096		0.092	
		ORS-450.10	Hiawatha/Ottawa River	0.08	0.2	16	10	0	0%	0.111		0.107	
		ORS-450.20	Hiawatha/Ottawa River	0.06	0.19	16	10	0	0%	0.102		0.097	
		ORS-450.30	Hiawatha/Ottawa River	0.06	0.17	16	10	0	0%	0.106		0.100	
		ORS-450.40	Hiawatha/Ottawa River	0.09	0.33	16	10	0	0%	0.153		0.144	
		ORS-500.10	Petrie Island/Ottawa River	0.08	0.21	16	10	0	0%	0.119		0.115	
		ORS-500.20	Petrie Island/Ottawa River	0.06	0.17	16	10	0	0%	0.109		0.105	
		ORS-500.50	Petrie Island/Ottawa River	0.07	0.17	16	10	0	0%	0.119		0.116	

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrate (mg/L)									
				Min	Max	# of Samples	ODWQS criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	0.007	2.950	29	10	0	0%	0.576		0.303	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	0.05	2.5	28	10	0	0%	0.993		0.645	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.005	1.61	32	10	0	0%	0.422		0.207	
		JR-02	Jock River, at Jockvale Rd.	0.025	1.6	33	10	0	0%	0.450		0.256	
		JR-05	Jock River, at Moodie Dr.	0.025	1.95	29	10	0	0%	0.419		0.235	
		JR-12	Jock River, at Ottawa St., Richmond	0.01	0.23	25	10	0	0%	0.049		0.028	
		JR-20	Jock River, at Bleeks Side Rd.	0.01	0.58	31	10	0	0%	0.170		0.073	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	0.005	0.745	30	10	0	0%	0.213		0.128	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	0.002	2.600	17	10	0	0%	1.313		0.787	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.01	2.100	38	10	0	0%	0.167		0.101	
KEM-01		Kemptville Creek @ Hwy. 43 (Kemptville)	0.002	0.410	17	10	0	0%	0.149		0.106		
KEM-04		Kemptville Creek @ Hurd Street (Kemptville)	0.002	0.320	17	10	0	0%	0.141		0.108		
KEM-06		Kemptville Creek @ County Road 18 d/s Oxford Mills	0.002	0.100	17	10	0	0%	0.041		0.032		
KEM-07		Kemptville Creek @ Oxford Mills	0.002	0.090	17	10	0	0%	0.035		0.025		
KEM-08		Kemptville Creek @ Pattersons Corners	0.002	0.060	17	10	0	0%	0.020		0.015		
KEM-09		Kemptville Creek @ County Road 20	0.002	0.080	17	10	0	0%	0.024		0.018		
KEM-10		Kemptville Creek @ Limerick Road	0.002	0.130	17	10	0	0%	0.037		0.026		
Lower Rideau	KEM-11	Kemptville Creek @ Garretton	0.002	0.210	17	10	0	0%	0.046		0.031		
	KEM-14	Kemptville Creek @ Kyle Road	0.002	0.050	18	10	0	0%	0.143		0.022		
	KEM-16	Kemptville Creek u/s N. Augusta	0.002	0.080	17	10	0	0%	0.029		0.022		
	NKE-02	North Kemptville Creek @ Bishops Mills	0.002	0.030	17	10	0	0%	0.015		0.012		
	NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	0.002	0.090	17	10	0	0%	0.029		0.021		
	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.008	0.577	30	10	0	0%	0.129		0.072		
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.005	0.888	30	10	0	0%	0.258		0.149		
	18003303402	Rideau River, St. Patrick St, Ottawa	0.008	0.939	30	10	0	0%	0.259		0.144		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.011	2.800	30	10	0	0%	0.215		0.093		
	ARC-01	Arcand Drain @ County Road 19	0.002	1.670	16	10	0	0%	0.542		0.188		
BRA-01	Brassils Creek @ Donnelly Drive	0.010	0.050	16	10	0	0%	0.033		0.027			
CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	0.05	7.1	27	10	0	0%	3.334		1.816			
CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	0.005	3.2	35	10	0	0%	0.996		0.521			
CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.02	0.8	36	10	0	0%	0.223		0.170			
CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	0.02	3.8	35	10	0	0%	0.795		0.673			
CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.06	1.3	32	10	0	0%	0.728		0.651			
CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	0.06	2.1	29	10	0	0%	0.726		0.633			
CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	0.05	1.1	30	10	0	0%	0.697		0.622			
CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	0.03	1.4	30	10	0	0%	0.613		0.479			
CK19-10	Hunt Club Creek, at Country Club Rd.	0.1	1.21	28	10	0	0%	0.670		0.583			
CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.05	2.2	36	10	0	0%	1.234		1.017			
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R												
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.005	0.5	26	10	0	0%	0.113		0.063			



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrate (mg/L)									
				Min	Max	# of Samples	ODWQS criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	0.005	0.34	25	10	0	0%	0.086		0.063	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	0.01	2.9	29	10	0	0%	1.180		0.791	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.02	2.8	28	10	0	0%	0.630		0.233	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	0.025	5.9	27	10	0	0%	1.729		0.817	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	0.005	3.9	28	10	0	0%	0.979		0.315	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.005	0.1	28	10	0	0%	0.012		0.008	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstre	0.005	1.2	26	10	0	0%	0.224		0.075	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.005	0.08	36	10	0	0%	0.023		0.017	
		MCD-02	McDermott Drain @ County Road 19	0.002	2.200	16	10	0	0%	0.395		0.112	
		MCD-03	McDermott Drain @ County Road 19	0.002	5.300	17	10	0	0%	3.120		1.914	
		MUR-01	Murphy Drain @ County Road 22	0.010	1.640	15	10	0	0%	0.567		0.233	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.005	2.3	30	10	0	0%	0.320		0.159	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.02	2.1	38	10	0	0%	0.319		0.209	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.005	1.85	20	10	0	0%	0.286		0.115	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.005	2.9	20	10	0	0%	0.544		0.167	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.005	0.38	30	10	0	0%	0.143		0.067	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.005	1.01	37	10	0	0%	0.249		0.153	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.005	0.51	29	10	0	0%	0.128		0.058	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstre	0.005	0.33	39	10	0	0%	0.090		0.057	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.005	0.74	14	10	0	0%	0.140		0.069	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.005	0.292	30	10	0	0%	0.070		0.038	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.014	3.010	30	10	0	0%	0.166		0.058	
		BAR-01	Barbers Creek @ County Road 16	0.310	3.000	16	10	0	0%	0.797		0.637	
		COC-02	Cockburn Creek @ Hwy. 43	0.010	0.820	16	10	0	0%	0.151		0.081	
		DAL-01	Dales Creek @ County Road 23	0.050	0.420	16	10	0	0%	0.171		0.136	
		HUT-02	Hutton Creek @ Townline Road	0.010	0.100	14	10	0	0%	0.028		0.021	
		IRI-02	Irish Creek @ County Road 15 (Jasper)	0.010	0.050	16	10	0	0%	0.036		0.031	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	0.020	0.450	16	10	0	0%	0.086		0.042	
		RCK-01	Rideau Creek @ Donnelly Drive	0.010	0.120	16	10	0	0%	0.033		0.027	
		ROS-01	Rosedale Creek @ Hwy. 43	0.010	0.100	16	10	0	0%	0.046		0.041	
		RVL-26	Otter Lake										
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	0.010	0.050	13	10	0	0%	0.018		0.016	
		BLA-01	Black Creek in Murphys Pt. Prov. Park	0.010	0.210	16	10	0	0%	0.052		0.028	
		RVL-11	Black Lake										
		RVL-12	Burridge Lake										
		RVL-13	Long Lake (East)										
		RVL-14	Westport Sand Lake										
		RVL-27	Wolfe Lake										
		RVL-32	Adam Lake										
		RVL-33	Round Lake										
		RVL-34	Loon Lake										

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrate (mg/L)										
				Min	Max	# of Samples	ODWQS criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		RVL-35	Bass Lake											
		RVL-36	Big Rideau Lake, Hoggs Bay											
		RVL-37	Upper Rideau Lake											
		RVL-38	Lower Rideau Lake											
		RVL-39	Big Rideau Lake											
		SHE-01	Sheldons Creek @ Old Kingston Road	0.010	0.080	12	10	0	0%	0.033			0.028	
		WES-01	Westport Dam	0.010	0.110	16	10	0	0%	0.026			0.018	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.006	0.642	28	10	0	0%	0.067			0.041	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.005	0.028	21	10	0	0%	0.015			0.013	
		EAG-01	Eagle Creek u/s Bobs Lake	0.010	0.020	16	10	0	0%	0.011			0.010	
		FIS-01	Fish Creek	0.010	0.030	6	10	0	0%	0.015			0.013	
		FIS-03	Fish Creek @ County Road 38	0.010	0.040	16	10	0	0%	0.016			0.014	
		FIS-A	Fish Creek u/s Bobs Lake	0.010	0.090	9	10	0	0%	0.030			0.023	
		GRT-01	Grants Creek @ Glen Tay Road	0.010	0.860	16	10	0	0%	0.147			0.053	
		GRT-02	Grants Creek @ Upper Scotch Line	0.010	0.150	16	10	0	0%	0.048			0.030	
		GRT-03	Grants Creek @ County Road 10	0.010	0.110	16	10	0	0%	0.024			0.018	
		GRT-04	Grants Creek @ Pike Lake Dam	0.010	0.110	16	10	0	0%	0.022			0.016	
		GRT-05	Grants Creek d/s Upper Scotch Line	0.010	0.140	16	10	0	0%	0.039			0.025	
		JEB-01	Jebbs Creek @ County Road 1	0.010	0.050	16	10	0	0%	0.014			0.012	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	0.010	0.200	16	10	0	0%	0.048			0.034	
		RVL-01	Pike Lake											
		RVL-02	O'Brien Lake											
		RVL-03	Farren Lake											
		RVL-04	Crosby Lake											
		RVL-05	Little Crosby Lake											
		RVL-06	Davern Lake											
		RVL-07	Little Silver Lake											
		RVL-08	Rainbow Lake											
		RVL-09	Eagle Lake											
		RVL-10	Otty Lake											
		RVL-16	Bob's Lake, Buck Bay											
		RVL-17	Bob's Lake, Green Bay											
		RVL-18	Bob's Lake, West Basin											
		RVL-19	Bob's Lake, Mud Bay											
		RVL-20	Bob's Lake, Norris Bay											
		RVL-21	Bob's Lake, E. Basin, Long Bay											
		RVL-22	Bob's Lake, C. Narrows											
		RVL-23	Bob's Lake, Mill Bay											
		RVL-24	Crow Lake											
		RVL-25	Christie Lake											
		RVL-28	Leggatt Lake											
		RVL-29	Long Lake (West)											

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrate (mg/L)									
				Min	Max	# of Samples	ODWQS criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-30	Elbow Lake										
		RVL-31	Carnahan Lake										
		SNY-03	Scotts Snye @ Upper Scotch Line	0.010	0.110	16	10	0	0%	0.026		0.018	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.010	0.010	16	10	0	0%	0.010		0.010	
		TAY-01	Tay River @ Port Elmsley	0.010	0.100	16	10	0	0%	0.031		0.024	
		TAY-04	Tay River @ Rogers Road (Perth)	0.010	0.070	16	10	0	0%	0.022		0.016	
		TAY-05	Tay River @ Glen Tay	0.010	0.300	16	10	0	0%	0.049		0.023	
		TAY-08	Tay River @ Gore Street (Perth)	0.010	0.060	18	10	0	0%	0.025		0.020	
		TAY-09	Tay River @ Adams Pond	0.010	0.020	16	10	0	0%	0.011		0.011	
		TAY-11	Tay River u/s of Tay Marsh	0.010	0.090	16	10	0	0%	0.035		0.029	
		TAY-15	Tay River d/s of Christie Lake	0.010	0.100	16	10	0	0%	0.018		0.013	
		TAY-16	Tay River @ Bolingbroke	0.010	0.800	16	10	0	0%	0.064		0.016	
		TAY-19	Tay River @ Craig St. (Perth)	0.010	0.060	16	10	0	0%	0.023		0.019	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	0.010	0.100	16	10	0	0%	0.024		0.017	

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrite (mg/L)										
				Min	Max	# of Samples	CWQG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin											
		19343072901	Big Gull (Clarendon) Lake, Main Basin											
		19343072801	Big Gull (Clarendon) Lake, West Basin											
Buckshot Creek		18343077201	Blue Lake											
		18343070401	Buckshot (Indian) Lake											
		18343070801	Grindstone Lake, North Basin											
		18343070901	Grindstone Lake, South Basin											
		18343072101	Sand Lake											
		18343072201	Shabomeka (Buck) Lake											
		19343072301	Shawenegog (McClintock) Lake, North Basin											
		19343072401	Shawenegog (McClintock) Lake, South Basin											
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	0.003	0.055	33	0.06	0	0%	0.016		0.014		
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	0.001	0.064	33	0.06	1	3%	0.014		0.009		
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.01	0.1	25	0.06	18	72%	0.083	YES	0.074	YES	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.01	0.25	25	0.06	19	76%	0.092	YES	0.082	YES	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.01	0.25	25	0.06	24	96%	0.144	YES	0.122	YES	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	0.01	0.1	21	0.06	14	67%	0.081	YES	0.074	YES	
		CK70-05	Poole Creek, Stittsville Main St	0.01	0.25	34	0.06	21	62%	0.099	YES	0.076	YES	
Clyde River		18343052002	At dam, downstream of Lanark	0.001	0.012	35	0.06	0	0%	0.004		0.003		
		18343053002	Kerr Lake outlet, upstream of Lanark	0.001	0.007	33	0.06	0	0%	0.003		0.003		
		18343070501	Canonto Lake (North & South Basins)											
		19343074901	Clyde Lake											
		19343075001	Flower Round Lake											
		19343076001	Horne Lake											
		19343076401	Joes Lake											
		18343074301	Palmerston Lake (North & South Basins)											
		19343076501	Paddys Lake											
		19343075901	Upper Park Lake											
		19343070101	Robertson Lake											
		19343003601	Sunday Lake											
19343076301	Widow Lake													
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.001	0.009	35	0.06	0	0%	0.003		0.003		
		19343073401	Dalhousie Lake											
		19343073501	Mississippi Lake, Big Lake											
		19343001401	Mississippi Lake, Second Lake											
		18343075301	Patterson Lake											
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.001	0.01	35	0.06	0	0%	0.003		0.003		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrite (mg/L)											
				Min	Max	# of Samples	CWQG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.		
		18343072701	Bennett Lake (North & South Basins)												
		Unknown	Black Lake												
		18343074801	Clear Lake												
		18343073601	Sharbot Lake, East Basin												
		18343072501	Sharbot Lake, Main Basin												
		18343074501	Sharbot Lake, South-West Basin												
		18343074401	Sharbot Lake, West Basin												
		18343072601	Silver Lake												
		18343074601	White Lake												
	Indian River	19343073101	Clayton Lake												
		19343077101	Taylor Lake												
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	0.001	0.030	31	0.06	0	0%	0.006			0.004		
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.001	0.023	36	0.06	0	0%	0.005			0.005		
		18343004002	Mississippi River, Almonte St, Almonte	0.001	0.013	36	0.06	0	0%	0.005			0.005		
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.002	0.011	36	0.06	0	0%	0.005			0.005		
		CK3-01	Cody Creek, at Hansen Side Rd.	0.01	0.1	24	0.06	5	21%	0.059			0.054		
		CK3-03	Cody Creek, at Highway 44, E of Road 10												
		CK3-04	Cody Creek, March Rd.	0.01	0.05	25	0.06	0	0%	0.024			0.019		
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	0.01	0.05	34	0.06	0	0%	0.012			0.011		
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.001	0.010	35	0.06	0	0%	0.003			0.003		
		18343071101	Kishkebus Lake												
		18343073901	Mackavoy Lake												
		18343071401	Marble Lake												
		19343074101	Mazinaw Lake, North Basin												
		19343073701	Mazinaw Lake, South Basin												
		Unknown	McCausland Lake												
		19343071601	Mississagagon Lake, East Basin												
		19343071501	Mississagagon Lake, West Basin												
	Upper Mississippi	18343070201	Ardoch (Green) Lake												
		18343073301	Crotch (Cross) Lake, North Basin												
		18343073201	Crotch (Cross) Lake, South Basin												
		18343070701	Fawn Lake												
		19343071001	Kashwakamak Lake, East Basin												
		19343073801	Kashwakamak Lake, West Basin												
		18343071301	Malcolm Lake												
		18343071901	Mosque Lake (North, South & West Basins)												
		18343072001	Pine Lake												
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.01	0.05	25	0.06	0	0%	0.024			0.020		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrite (mg/L)									
				Min	Max	# of Samples	CWQG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	0.01	0.25	29	0.06	23	79%	0.093	YES	0.085	YES
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	0.01	0.1	27	0.06	7	26%	0.052		0.040	
		CK6-001	Watts Creek, at Shirley Blvd.	0.01	0.25	26	0.06	23	88%	0.156	YES	0.128	YES
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd)	0.01	0.5	28	0.06	26	93%	0.251	YES	0.209	YES
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	0.01	0.05	22	0.06	0	0%	0.030		0.023	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.01	0.5	24	0.06	7	29%	0.078	YES	0.057	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	0.01	0.05	15	0.06	0	0%	0.019		0.017	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstre	0.01	0.25	27	0.06	23	85%	0.179	YES	0.138	YES
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	0.01	0.25	27	0.06	23	85%	0.166	YES	0.121	YES
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.01	0.5	25	0.06	7	28%	0.072	YES	0.048	
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	0.01	0.05	24	0.06	0	0%	0.014		0.012	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	0.01	1	29	0.06	25	86%	0.275	YES	0.200	YES
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	0.01	1	29	0.06	26	90%	0.251	YES	0.191	YES
		CK24-002	Cardinal Creek, Old Montreal Rd.	0.01	0.25	25	0.06	20	80%	0.093	YES	0.079	YES
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	0.01	0.05	16	0.06	0	0%	0.045		0.041	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	0.01	0.5	31	0.06	28	90%	0.217	YES	0.175	YES
		MKL-01	MackKay Lake, deepest basin, NW portion of lake	0.01	0.05	15	0.06	0	0%	0.045		0.040	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	0.01	0.25	27	0.06	23	85%	0.141	YES	0.115	YES
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	0.01	0.5	29	0.06	26	90%	0.187	YES	0.140	YES
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	0.01	1	28	0.06	26	93%	0.142	YES	0.102	YES
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	0.01	1	27	0.06	24	89%	0.258	YES	0.184	YES
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	0.01	0.01	15	0.06	0	0%	0.010		0.010	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.01	0.1	12	0.06	2	17%	0.047		0.037	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.01	0.25	18	0.06	4	22%	0.054		0.037	
	Ottawa River	18000017002	Ottawa River, Chats Falls	0.002	0.015	42	0.06	0	0%	0.006		0.005	
		ORS-100.20	Woolsey Narrows/Ottawa River	0.01	0.01	15	0.06	0	0%	0.010		0.010	
		ORS-210.10	Deschenes Rapids/Ottawa River	0.01	0.01	13	0.06	0	0%	0.010		0.010	
		ORS-210.30	Deschenes Rapids/Ottawa River	0.01	0.01	13	0.06	0	0%	0.010		0.010	
		ORS-210.40	Deschenes Rapids/Ottawa River	0.01	0.01	13	0.06	0	0%	0.010		0.010	
		ORS-430.10	Upper Duck Island/Ottawa River	0.01	0.01	16	0.06	0	0%	0.010		0.010	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.01	0.01	16	0.06	0	0%	0.010		0.010	
		ORS-430.60	Kettle Island/Ottawa River	0.01	0.01	16	0.06	0	0%	0.010		0.010	
		ORS-430.70	Kettle Island/Ottawa River	0.01	0.01	16	0.06	0	0%	0.010		0.010	
		ORS-450.10	Hiawatha/Ottawa River	0.01	0.03	16	0.06	0	0%	0.011		0.011	
		ORS-450.20	Hiawatha/Ottawa River	0.01	0.01	16	0.06	0	0%	0.010		0.010	
		ORS-450.30	Hiawatha/Ottawa River	0.01	0.01	16	0.06	0	0%	0.010		0.010	
		ORS-450.40	Hiawatha/Ottawa River	0.01	0.02	16	0.06	0	0%	0.011		0.010	
		ORS-500.10	Petrie Island/Ottawa River	0.01	0.03	16	0.06	0	0%	0.011		0.011	
		ORS-500.20	Petrie Island/Ottawa River	0.01	0.01	16	0.06	0	0%	0.010		0.010	
		ORS-500.50	Petrie Island/Ottawa River	0.01	0.02	16	0.06	0	0%	0.011		0.010	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrite (mg/L)									
				Min	Max	# of Samples	CWQG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	0.004	0.078	29	0.06	1	3%	0.017		0.014	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	0.01	0.25	28	0.06	19	68%	0.092	YES	0.076	YES
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.01	0.1	32	0.06	2	6%	0.048		0.044	
		JR-02	Jock River, at Jockvale Rd.	0.01	0.1	33	0.06	1	3%	0.048		0.044	
		JR-05	Jock River, at Moodie Dr.	0.01	0.05	29	0.06	0	0%	0.046		0.042	
		JR-12	Jock River, at Ottawa St., Richmond	0.01	0.1	25	0.06	1	4%	0.031		0.025	
		JR-20	Jock River, at Bleeks Side Rd.	0.01	0.05	31	0.06	0	0%	0.034		0.030	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	0.001	0.046	30	0.06	0	0%	0.012		0.009	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)										
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.01	0.05	38	0.06	0	0%	0.022		0.018	
KEM-01		Kemptville Creek @ Hwy. 43 (Kemptville)											
KEM-04		Kemptville Creek @ Hurd Street (Kemptville)											
KEM-06		Kemptville Creek @ County Road 18 d/s Oxford Mills											
KEM-07		Kemptville Creek @ Oxford Mills											
KEM-08		Kemptville Creek @ Pattersons Corners											
KEM-09		Kemptville Creek @ County Road 20											
KEM-10		Kemptville Creek @ Limerick Road											
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.002	0.018	30	0.06	0	0%	0.008		0.007		
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.002	0.021	30	0.06	0	0%	0.009		0.008		
	18003303402	Rideau River, St. Patrick St, Ottawa	0.003	0.026	30	0.06	0	0%	0.010		0.009		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.001	0.018	30	0.06	0	0%	0.008		0.007		
	ARC-01	Arcand Drain @ County Road 19											
	BRA-01	Brassils Creek @ Donnelly Drive											
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	0.01	0.1	27	0.06	24	89%	0.091	YES	0.082	YES	
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	0.01	0.5	34	0.06	27	79%	0.192	YES	0.135	YES	
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.01	0.25	36	0.06	34	94%	0.117	YES	0.105	YES	
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	0.01	0.5	35	0.06	34	97%	0.212	YES	0.184	YES	
CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.01	0.5	32	0.06	31	97%	0.239	YES	0.211	YES		
CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	0.01	1	29	0.06	28	97%	0.242	YES	0.200	YES		
CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	0.01	0.25	30	0.06	29	97%	0.207	YES	0.181	YES		
CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	0.01	0.1	30	0.06	25	83%	0.090	YES	0.084	YES		
CK19-10	Hunt Club Creek, at Country Club Rd.	0.01	0.1	28	0.06	22	79%	0.088	YES	0.081	YES		
CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.01	0.25	36	0.06	33	92%	0.116	YES	0.103	YES		
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R												
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.01	0.1	26	0.06	13	50%	0.071	YES	0.060	YES		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrite (mg/L)									
				Min	Max	# of Samples	CWQG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	0.01	0.1	25	0.06	21	84%	0.089	YES	0.081	YES
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	0.01	0.25	29	0.06	27	93%	0.100	YES	0.093	YES
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.01	0.05	28	0.06	0	0%	0.043		0.039	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	0.01	0.1	27	0.06	2	7%	0.051		0.048	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	0.01	0.1	28	0.06	5	18%	0.056		0.052	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.01	0.05	28	0.06	0	0%	0.014		0.013	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	0.01	0.1	26	0.06	2	8%	0.046		0.039	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.01	0.05	36	0.06	0	0%	0.031		0.024	
		MCD-02	McDermott Drain @ County Road 19										
		MCD-03	McDermott Drain @ County Road 19										
		MUR-01	Murphy Drain @ County Road 22										
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.01	0.05	30	0.06	0	0%	0.022		0.019	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.01	0.05	38	0.06	0	0%	0.022		0.019	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.01	0.05	20	0.06	0	0%	0.021		0.017	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.01	0.05	20	0.06	0	0%	0.025		0.020	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.01	0.02	30	0.06	0	0%	0.012		0.011	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.01	0.05	37	0.06	0	0%	0.019		0.016	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.01	0.02	29	0.06	0	0%	0.012		0.011	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream	0.01	0.02	39	0.06	0	0%	0.011		0.010	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.01	0.1	14	0.06	1	7%	0.021		0.015	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.001	0.017	30	0.06	0	0%	0.005		0.004	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.002	0.042	30	0.06	0	0%	0.007		0.006	
		BAR-01	Barbers Creek @ County Road 16										
		COC-02	Cockburn Creek @ Hwy. 43										
		DAL-01	Dales Creek @ County Road 23										
		HUT-02	Hutton Creek @ Townline Road										
		IRI-02	Irish Creek @ County Road 15 (Jasper)										
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls										
		RCK-01	Rideau Creek @ Donnelly Drive										
		ROS-01	Rosedale Creek @ Hwy. 43										
		RVL-26	Otter Lake										
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42										
		BLA-01	Black Creek in Murphys Pt. Prov. Park										
		RVL-11	Black Lake										
		RVL-12	Burridge Lake										
		RVL-13	Long Lake (East)										
		RVL-14	Westport Sand Lake										
		RVL-27	Wolfe Lake										
		RVL-32	Adam Lake										
		RVL-33	Round Lake										
		RVL-34	Loon Lake										



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrite (mg/L)									
				Min	Max	# of Samples	CWQG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-35	Bass Lake										
		RVL-36	Big Rideau Lake, Hoggs Bay										
		RVL-37	Upper Rideau Lake										
		RVL-38	Lower Rideau Lake										
		RVL-39	Big Rideau Lake										
		SHE-01	Sheldons Creek @ Old Kingston Road										
		WES-01	Westport Dam										
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.001	0.017	28	0.06	0	0%	0.009		0.008	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.001	0.006	21	0.06	0	0%	0.002		0.002	
		EAG-01	Eagle Creek u/s Bobs Lake										
		FIS-01	Fish Creek										
		FIS-03	Fish Creek @ County Road 38										
		FIS-A	Fish Creek u/s Bobs Lake										
		GRT-01	Grants Creek @ Glen Tay Road										
		GRT-02	Grants Creek @ Upper Scotch Line										
		GRT-03	Grants Creek @ County Road 10										
		GRT-04	Grants Creek @ Pike Lake Dam										
		GRT-05	Grants Creek d/s Upper Scotch Line										
		JEB-01	Jebbs Creek @ County Road 1										
		RUD-01	Ruddsdale Creek @ Christie Lake Road										
		RVL-01	Pike Lake										
		RVL-02	O'Brien Lake										
		RVL-03	Farren Lake										
		RVL-04	Crosby Lake										
		RVL-05	Little Crosby Lake										
		RVL-06	Davern Lake										
		RVL-07	Little Silver Lake										
		RVL-08	Rainbow Lake										
		RVL-09	Eagle Lake										
		RVL-10	Otty Lake										
		RVL-16	Bob's Lake, Buck Bay										
		RVL-17	Bob's Lake, Green Bay										
		RVL-18	Bob's Lake, West Basin										
		RVL-19	Bob's Lake, Mud Bay										
		RVL-20	Bob's Lake, Norris Bay										
		RVL-21	Bob's Lake, E. Basin, Long Bay										
		RVL-22	Bob's Lake, C. Narrows										
		RVL-23	Bob's Lake, Mill Bay										
		RVL-24	Crow Lake										
		RVL-25	Christie Lake										
		RVL-28	Leggatt Lake										
		RVL-29	Long Lake (West)										

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Nitrite (mg/L)									
				Min	Max	# of Samples	CWQG criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-30	Elbow Lake										
		RVL-31	Carnahan Lake										
		SNY-03	Scotts Snye @ Upper Scotch Line										
		STU-01	Stub Creek @ Babcock Road u/s Long Lake										
		TAY-01	Tay River @ Port Elmsley										
		TAY-04	Tay River @ Rogers Road (Perth)										
		TAY-05	Tay River @ Glen Tay										
		TAY-08	Tay River @ Gore Street (Perth)										
		TAY-09	Tay River @ Adams Pond										
		TAY-11	Tay River u/s of Tay Marsh										
		TAY-15	Tay River d/s of Christie Lake										
		TAY-16	Tay River @ Bolingbroke										
		TAY-19	Tay River @ Craig St. (Perth)										
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake										

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	pH (unitless)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin	6.73	8.1	10	6.5 - 8.5	0	0%	7.26		7.25	
		19343072901	Big Gull (Clarendon) Lake, Main Basin	6.57	8.5	13	6.5 - 8.5	0	0%	7.48		7.46	
		19343072801	Big Gull (Clarendon) Lake, West Basin	6.82	8.1	10	6.5 - 8.5	0	0%	7.31		7.30	
Buckshot Creek	18343077201	18343077201	Blue Lake	8.02	8.16	3	6.5 - 8.5	0	0%	8.07		8.07	
		18343070401	Buckshot (Indian) Lake	6.65	8.1	5	6.5 - 8.5	0	0%	7.40		7.38	
		18343070801	Grindstone Lake, North Basin	6.46	8.6	8	6.5 - 8.5	2	25%	7.71		7.67	
		18343070901	Grindstone Lake, South Basin	6.71	8.4	5	6.5 - 8.5	0	0%	7.55		7.52	
		18343072101	Sand Lake	7.95	8.5	5	6.5 - 8.5	0	0%	8.20		8.20	
		18343072201	Shabomeka (Buck) Lake	7.8	8.4	4	6.5 - 8.5	0	0%	8.00		8.00	
		19343072301	Shawenegog (McClintock) Lake, North Basin	7.39	8.2	6	6.5 - 8.5	0	0%	7.85		7.84	
		19343072401	Shawenegog (McClintock) Lake, South Basin	7.43	8.4	6	6.5 - 8.5	0	0%	7.95		7.94	
		Carp River	18337010102	18337010102	Carp River, Craig Side Rd, downstream Carp	7.79	8.52	33	6.5 - 8.5	0	0%	8.15	
18337012102	Carp River, John Shaw Rd, downstream of Kinburn			7.92	8.46	33	6.5 - 8.5	0	0%	8.19		8.19	
R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour			7.61	8.72	60	6.5-8.5	13	22%	8.35		8.35	
R010-06	Carp River, at Craig Side Rd., downstream of bridge			7.53	8.49	60	6.5-8.5	0	0%	8.02		8.02	
R010-09	Carp River, at Richardson Side Rd., downstream of bridge			7.6	8.49	60	6.5-8.5	0	0%	8.02		8.01	
R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road			7.51	8.49	58	6.5-8.5	0	0%	8.10		8.10	
CK70-05	Poole Creek, Stittsville Main St			7.46	8.27	78	6.5-8.5	0	0%	7.94		7.94	
Clyde River	18343052002	18343052002	At dam, downstream of Lanark	7.96	8.41	35	6.5 - 8.5	0	0%	8.15		8.15	
		18343053002	Kerr Lake outlet, upstream of Lanark	7.96	8.51	33	6.5 - 8.5	0	0%	8.17		8.17	
		18343070501	Canonto Lake (North & South Basins)	7.27	8.9	15	6.5 - 8.5	6	40%	8.25		8.23	
		19343074901	Clyde Lake	7.4	8.7	8	6.5 - 8.5	2	25%	8.18		8.16	
		19343075001	Flower Round Lake	7.7	8.5	8	6.5 - 8.5	0	0%	8.19		8.18	
		19343076001	Horne Lake	7.6	8.3	8	6.5 - 8.5	0	0%	8.10		8.10	
		19343076401	Joes Lake	7.9	8.6	8	6.5 - 8.5	1	13%	8.21		8.21	
		18343074301	Palmerston Lake (North & South Basins)	7.35	8.7	12	6.5 - 8.5	3	25%	8.08		8.07	
		19343076501	Paddys Lake	7.8	8.3	8	6.5 - 8.5	0	0%	8.06		8.06	
		19343075901	Upper Park Lake	8.2	8.7	8	6.5 - 8.5	1	13%	8.35		8.35	
		19343070101	Robertson Lake	8	8.6	8	6.5 - 8.5	3	38%	8.40		8.40	
		19343003601	Sunday Lake	7.23	8.5	9	6.5 - 8.5	0	0%	8.03		8.02	
		19343076301	Widow Lake	7.8	8.6	8	6.5 - 8.5	2	25%	8.21		8.21	
CP Dam	18343017502	18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	7.82	8.27	36	6.5 - 8.5	0	0%	8.06		8.06	
		19343073401	Dalhousie Lake	8.2	9.2	9	6.5 - 8.5	4	44%	8.61	YES	8.60	YES
		19343073501	Mississippi Lake, Big Lake	7.8	8.3	8	6.5 - 8.5	0	0%	8.08		8.07	
		19343001401	Mississippi Lake, Second Lake	7.9	8.4	7	6.5 - 8.5	0	0%	8.10		8.10	
		18343075301	Patterson Lake	7.3	8.7	7	6.5 - 8.5	2	29%	8.00		7.98	
Fall River	18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	7.73	8.44	36	6.5 - 8.5	0	0%	8.14		8.14		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	pH (unitless)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		18343072701	Bennett Lake (North & South Basins)	7.3	8.8	19	6.5 - 8.5	3	16%	8.19		8.18	
		Unknown	Black Lake	7.5	8.6	7	6.5 - 8.5	1	14%	8.10		8.09	
		18343074801	Clear Lake	7.6	8.9	7	6.5 - 8.5	2	29%	8.17		8.16	
		18343073601	Sharbot Lake, East Basin	7	8.8	7	6.5 - 8.5	3	43%	8.09		8.06	
		18343072501	Sharbot Lake, Main Basin	7.1	8.8	7	6.5 - 8.5	2	29%	8.19		8.17	
		18343074501	Sharbot Lake, South-West Basin	7.1	8.7	8	6.5 - 8.5	3	38%	8.14		8.12	
		18343074401	Sharbot Lake, West Basin	7.1	8.9	8	6.5 - 8.5	3	38%	8.11		8.09	
		18343072601	Silver Lake	7.1	8.7	11	6.5 - 8.5	3	27%	8.03		8.02	
		18343074601	White Lake	8.4	9.1	6	6.5 - 8.5	4	67%	8.67	YES	8.66	YES
	Indian River	19343073101	Clayton Lake	8	8.7	8	6.5 - 8.5	3	38%	8.44		8.43	
		19343077101	Taylor Lake	8.4	9	8	6.5 - 8.5	2	25%	8.58	YES	8.57	YES
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	7.87	8.33	31	6.5 - 8.5	0	0%	8.18		8.18	
		18343003402	Mississippi River, At dam, downstream of Pakenham	7.95	8.33	36	6.5 - 8.5	0	0%	8.19		8.19	
		18343004002	Mississippi River, Almonte St, Almonte	7.92	8.67	36	6.5 - 8.5	1	3%	8.19		8.19	
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	7.72	8.87	36	6.5 - 8.5	6	17%	8.28		8.27	
		CK3-01	Cody Creek, at Hansen Side Rd.	7.77	8.58	55	6.5-8.5	0	0%	8.18		8.18	
		CK3-03	Cody Creek, at Highway 44, E of Road 10	6.93	8.53	24	6.5-8.5	0	0%	7.75		7.74	
		CK3-04	Cody Creek, March Rd.	7.59	8.2	32	6.5-8.5	0	0%	7.90		7.89	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	7.63	8.45	82	6.5-8.5	0	0%	8.06		8.06	
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	7.46	7.83	36	6.5 - 8.5	0	0%	7.64		7.64	
		18343071101	Kishkebus Lake	7.8	7.8	3	6.5 - 8.5	0	0%	7.80		7.80	
		18343073901	Mackavoy Lake	7.8	8	3	6.5 - 8.5	0	0%	7.93		7.93	
		18343071401	Marble Lake	8.02	8.64	3	6.5 - 8.5	1	33%	8.30		8.29	
		19343074101	Mazinaw Lake, North Basin	7.7	8.1	5	6.5 - 8.5	0	0%	7.88		7.88	
		19343073701	Mazinaw Lake, South Basin	7.7	8	5	6.5 - 8.5	0	0%	7.82		7.82	
		Unknown	McCausland Lake	7.53	8.31	2	6.5 - 8.5	0	0%	7.92		7.91	
		19343071601	Mississagagon Lake, East Basin	8.2	8.7	3	6.5 - 8.5	1	33%	8.43		8.43	
		19343071501	Mississagagon Lake, West Basin	8.2	8.7	3	6.5 - 8.5	1	33%	8.47		8.46	
	Upper Mississippi	18343070201	Ardoch (Green) Lake	7.73	8.4	7	6.5 - 8.5	0	0%	8.11		8.11	
		18343073301	Crotch (Cross) Lake, North Basin	6.96	8.2	7	6.5 - 8.5	0	0%	7.73		7.71	
		18343073201	Crotch (Cross) Lake, South Basin	6.81	8.5	9	6.5 - 8.5	0	0%	7.78		7.75	
		18343070701	Fawn Lake	6.46	8.4	9	6.5 - 8.5	2	22%	7.59		7.56	
		19343071001	Kashwakamak Lake, East Basin	7.2	8.4	3	6.5 - 8.5	0	0%	7.93		7.92	
		19343073801	Kashwakamak Lake, West Basin	8.2	8.2	3	6.5 - 8.5	0	0%	8.20		8.20	
		18343071301	Malcolm Lake	7.86	8.7	6	6.5 - 8.5	2	33%	8.30		8.30	
		18343071901	Mosque Lake (North, South & West Basins)	6.8	8.6	18	6.5 - 8.5	1	6%	7.62		7.59	
		18343072001	Pine Lake	6.88	8.1	4	6.5 - 8.5	0	0%	7.37		7.36	
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	7.32	8.4	59	6.5-8.5	0	0%	7.80		7.80	

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	pH (unitless)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	7.71	8.54	70	6.5-8.5	1	1%	8.15		8.15	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	7.37	8.58	66	6.5-8.5	1	2%	8.04		8.04	
		CK6-001	Watts Creek, at Shirley Blvd.	7.86	8.69	57	6.5-8.5	6	11%	8.27		8.27	
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd)	7.97	8.58	74	6.5-8.5	1	1%	8.23		8.22	
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	7.26	8.64	53	6.5-8.5	1	2%	8.02		8.01	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	7.64	8.54	59	6.5-8.5	1	2%	8.03		8.03	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	7.67	9.5	38	6.5-8.5	10	26%	8.40		8.40	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstre	7.56	8.41	67	6.5-8.5	0	0%	8.08		8.08	
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	7.55	8.49	67	6.5-8.5	0	0%	8.07		8.07	
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	6.89	7.94	56	6.5-8.5	0	0%	7.55		7.54	
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	6	7.43	54	6.5-8.5	0	0%	6.60		6.59	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	7.6	8.37	71	6.5-8.5	0	0%	8.17		8.16	
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	7.7	8.49	68	6.5-8.5	0	0%	8.22		8.22	
		CK24-002	Cardinal Creek, Old Montreal Rd.	7.85	8.49	61	6.5-8.5	0	0%	8.30		8.30	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	7.64	8.57	54	6.5-8.5	3	6%	8.30		8.30	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	7.93	8.4	72	6.5-8.5	0	0%	8.26		8.26	
		MKL-01	MackKay Lake, deepest basin, NW portion of lake	7.64	8.82	38	6.5-8.5	7	18%	8.33		8.33	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	7.79	8.53	63	6.5-8.5	1	2%	8.16		8.16	
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	7.96	8.43	73	6.5-8.5	0	0%	8.22		8.22	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	7.87	8.53	67	6.5-8.5	1	1%	8.19		8.19	
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	7.13	8.46	67	6.5-8.5	0	0%	8.21		8.21	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	7.02	9.3	39	6.5-8.5	10	26%	8.08		8.06	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	8.06	8.7	34	6.5-8.5	3	9%	8.29		8.29	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	7.94	8.67	40	6.5-8.5	4	10%	8.30		8.30	
	Ottawa River	18000017002	Ottawa River, Chats Falls	7.37	7.92	42	6.5-8.5	0	0%	7.67		7.67	
		ORS-100.20	Woolsey Narrows/Ottawa River	6.8	7.8	38	6.5-8.5	0	0%	7.41		7.41	
		ORS-210.10	Deschenes Rapids/Ottawa River	7.23	7.78	37	6.5-8.5	0	0%	7.50		7.50	
		ORS-210.30	Deschenes Rapids/Ottawa River	6.74	8	37	6.5-8.5	0	0%	7.48		7.47	
		ORS-210.40	Deschenes Rapids/Ottawa River	7.24	7.75	37	6.5-8.5	0	0%	7.50		7.50	
		ORS-430.10	Upper Duck Island/Ottawa River	6.96	7.89	41	6.5-8.5	0	0%	7.52		7.51	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	7	8.06	41	6.5-8.5	0	0%	7.48		7.47	
		ORS-430.60	Kettle Island/Ottawa River	7.07	7.77	41	6.5-8.5	0	0%	7.48		7.47	
		ORS-430.70	Kettle Island/Ottawa River	7.15	7.79	41	6.5-8.5	0	0%	7.46		7.46	
		ORS-450.10	Hiawatha/Ottawa River	7.28	7.86	24	6.5-8.5	0	0%	7.58		7.58	
		ORS-450.20	Hiawatha/Ottawa River	7.4	7.84	24	6.5-8.5	0	0%	7.59		7.59	
		ORS-450.30	Hiawatha/Ottawa River	6.9	7.8	24	6.5-8.5	0	0%	7.47		7.47	
		ORS-450.40	Hiawatha/Ottawa River	7.33	7.71	24	6.5-8.5	0	0%	7.54		7.53	
		ORS-500.10	Petrie Island/Ottawa River	7.15	7.88	40	6.5-8.5	0	0%	7.54		7.54	
		ORS-500.20	Petrie Island/Ottawa River	7	7.96	41	6.5-8.5	0	0%	7.44		7.44	
		ORS-500.50	Petrie Island/Ottawa River	7.08	7.8	40	6.5-8.5	0	0%	7.51		7.50	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	pH (unitless)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	8	8.33	29	6.5 - 8.5	0	0%	8.17		8.17	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	7.84	8.38	62	6.5-8.5	0	0%	8.14		8.14	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	7.56	8.69	72	6.5-8.5	0	0%	8.21		8.21	
		JR-02	Jock River, at Jockvale Rd.	7.53	8.66	75	6.5-8.5	0	0%	8.12		8.12	
		JR-05	Jock River, at Moodie Dr.	7.48	8.67	68	6.5-8.5	0	0%	8.07		8.06	
		JR-12	Jock River, at Ottawa St., Richmond	7.48	9.08	57	6.5-8.5	0	0%	8.25		8.24	
		JR-20	Jock River, at Bleeks Side Rd.	7.37	8.65	65	6.5-8.5	0	0%	8.12		8.12	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	7.79	8.41	30	6.5 - 8.5	0	0%	8.21		8.21	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	7.96	8.27	23	6.5 - 8.5	0	0%	8.09		8.09	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	7.2	8.49	86	6.5-8.5	0	0%	8.04		8.04	
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	7.95	8.43	24	6.5 - 8.5	0	0%	8.17		8.17	
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	7.98	8.37	23	6.5 - 8.5	0	0%	8.15		8.15	
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	7.93	8.36	24	6.5 - 8.5	0	0%	8.11		8.11	
		KEM-07	Kemptville Creek @ Oxford Mills	7.84	8.32	24	6.5 - 8.5	0	0%	8.04		8.04	
		KEM-08	Kemptville Creek @ Pattersons Corners	7.54	8.26	24	6.5 - 8.5	0	0%	8.00		8.00	
		KEM-09	Kemptville Creek @ County Road 20	7.73	8.07	24	6.5 - 8.5	0	0%	7.92		7.92	
		KEM-10	Kemptville Creek @ Limerick Road	7.76	8.16	24	6.5 - 8.5	0	0%	7.96		7.96	
		KEM-11	Kemptville Creek @ Garretton	7.85	8.15	24	6.5 - 8.5	0	0%	8.00		8.00	
		KEM-14	Kemptville Creek @ Kyle Road	7.81	8.18	24	6.5 - 8.5	0	0%	8.00		8.00	
		KEM-16	Kemptville Creek u/s N. Augusta	7.71	8.1	23	6.5 - 8.5	0	0%	7.93		7.93	
		NKE-02	North Kemptville Creek @ Bishops Mills	7.81	8.34	24	6.5 - 8.5	0	0%	8.08		8.08	
NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	7.62	8.17	24	6.5 - 8.5	0	0%	7.98		7.98			
	Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	7.84	8.74	30	6.5 - 8.5	1	3%	8.20		8.20	
		18003303102	Rideau River, Hogs Back Rd, Ottawa	8.08	8.44	30	6.5 - 8.5	0	0%	8.21		8.21	
		18003303402	Rideau River, St. Patrick St, Ottawa	8	8.4	30	6.5 - 8.5	0	0%	8.23		8.22	
		18003303702	Rideau River, Long Island gauging station, downstream of Mano	8.02	8.56	30	6.5 - 8.5	1	3%	8.21		8.21	
		ARC-01	Arcand Drain @ County Road 19	7.54	8.25	22	6.5 - 8.5	0	0%	7.88		7.88	
		BRA-01	Brassils Creek @ Donnelly Drive	8.09	8.65	23	6.5 - 8.5	1	4%	8.29		8.29	
		CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	7.49	8.66	66	6.5-8.5	0	0%	8.05		8.05	
		CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	7.67	8.48	79	6.5-8.5	0	0%	8.02		8.02	
		CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	7.66	8.63	83	6.5-8.5	0	0%	8.05		8.05	
		CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	7.73	8.34	81	6.5-8.5	0	0%	8.08		8.08	
		CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	7.74	8.45	78	6.5-8.5	0	0%	8.11		8.11	
		CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	7.84	8.54	69	6.5-8.5	0	0%	8.18		8.18	
		CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	7.76	8.35	50	6.5-8.5	0	0%	8.12		8.12	
		CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	7.76	8.55	70	6.5-8.5	0	0%	8.13		8.13	
		CK19-10	Hunt Club Creek, at Country Club Rd.	7.7	8.57	73	6.5-8.5	0	0%	8.02		8.02	
		CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	4.01	8.54	80	6.5-8.5	0	0%	7.94		7.92	
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	7.74	8.53	67	6.5-8.5	0	0%	8.13		8.13			
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	7.71	8.48	61	6.5-8.5	0	0%	8.10		8.10			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	pH (unitless)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	7.64	8.53	57	6.5-8.5	0	0%	8.11		8.11	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	7.88	8.55	63	6.5-8.5	0	0%	8.17		8.17	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	7.47	8.43	67	6.5-8.5	0	0%	8.04		8.04	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	7.32	8.44	63	6.5-8.5	0	0%	8.04		8.04	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	7.8	8.65	62	6.5-8.5	0	0%	8.09		8.09	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	7.27	8.38	62	6.5-8.5	0	0%	8.06		8.06	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	7.26	8.36	60	6.5-8.5	0	0%	7.76		7.76	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	7.45	8.57	77	6.5-8.5	0	0%	8.15		8.14	
		MCD-02	McDermott Drain @ County Road 19	7.57	8.06	21	6.5 - 8.5	0	0%	7.78		7.78	
		MCD-03	McDermott Drain @ County Road 19	7.85	8.35	21	6.5 - 8.5	0	0%	8.09		8.09	
		MUR-01	Murphy Drain @ County Road 22	8.03	8.75	22	6.5 - 8.5	0	0%	8.25		8.25	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	7.27	8.6	68	6.5-8.5	0	0%	8.11		8.11	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	7.44	8.47	85	6.5-8.5	0	0%	8.11		8.11	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	7.5	8.53	58	6.5-8.5	0	0%	8.08		8.08	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	7.44	8.53	63	6.5-8.5	0	0%	8.07		8.07	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	7.54	8.52	69	6.5-8.5	0	0%	8.11		8.11	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	7.52	8.37	85	6.5-8.5	0	0%	8.09		8.08	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	7.52	8.61	66	6.5-8.5	0	0%	8.13		8.13	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstrean	7.55	8.5	88	6.5-8.5	0	0%	8.12		8.12	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	7.7	8.66	37	6.5-8.5	0	0%	8.18		8.18	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	7.95	8.98	30	6.5 - 8.5	8	27%	8.36		8.35	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	7.97	8.49	30	6.5 - 8.5	0	0%	8.29		8.29	
		BAR-01	Barbers Creek @ County Road 16	7.96	8.59	24	6.5 - 8.5	1	4%	8.20		8.19	
		COC-02	Cockburn Creek @ Hwy. 43	7.78	8.28	23	6.5 - 8.5	0	0%	8.04		8.03	
		DAL-01	Dales Creek @ County Road 23	8.14	8.61	23	6.5 - 8.5	1	4%	8.23		8.23	
		HUT-02	Hutton Creek @ Townline Road	8.05	8.47	21	6.5 - 8.5	0	0%	8.24		8.24	
		IRI-02	Irish Creek @ County Road 15 (Jasper)	7.7	8.36	23	6.5 - 8.5	0	0%	8.07		8.07	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	8.01	8.53	23	6.5 - 8.5	1	4%	8.21		8.21	
		RCK-01	Rideau Creek @ Donnelly Drive	7.9	8.28	23	6.5 - 8.5	0	0%	8.09		8.09	
		ROS-01	Rosedale Creek @ Hwy. 43	7.87	8.37	23	6.5 - 8.5	0	0%	8.10		8.10	
		RVL-26	Otter Lake										
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	7.52	8.25	18	6.5 - 8.5	0	0%	7.80		7.80	
		BLA-01	Black Creek in Murphys Pt. Prov. Park	7.6	8.02	22	6.5 - 8.5	0	0%	7.75		7.75	
		RVL-11	Black Lake										
		RVL-12	Burridge Lake										
		RVL-13	Long Lake (East)										
		RVL-14	Westport Sand Lake										
		RVL-27	Wolfe Lake										
		RVL-32	Adam Lake										
		RVL-33	Round Lake										
		RVL-34	Loon Lake										

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	pH (unitless)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-35	Bass Lake										
		RVL-36	Big Rideau Lake, Hoggs Bay										
		RVL-37	Upper Rideau Lake										
		RVL-38	Lower Rideau Lake										
		RVL-39	Big Rideau Lake										
		SHE-01	Sheldons Creek @ Old Kingston Road	7.77	8.39	17	6.5 - 8.5	0	0%	8.01		8.01	
		WES-01	Westport Dam	8.01	8.5	17	6.5 - 8.5	1	6%	8.27		8.27	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	7.86	8.68	28	6.5 - 8.5	1	4%	8.07		8.07	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	7.95	8.28	30	6.5 - 8.5	0	0%	8.07		8.07	
		EAG-01	Eagle Creek u/s Bobs Lake	7.38	7.95	21	6.5 - 8.5	0	0%	7.70		7.70	
		FIS-01	Fish Creek	7.44	7.85	7	6.5 - 8.5	0	0%	7.59		7.59	
		FIS-03	Fish Creek @ County Road 38	7.14	7.8	22	6.5 - 8.5	0	0%	7.45		7.45	
		FIS-A	Fish Creek u/s Bobs Lake	7.47	7.96	13	6.5 - 8.5	0	0%	7.75		7.74	
		GRT-01	Grants Creek @ Glen Tay Road	7.63	8.33	23	6.5 - 8.5	0	0%	7.88		7.88	
		GRT-02	Grants Creek @ Upper Scotch Line	7.43	8.44	23	6.5 - 8.5	0	0%	7.88		7.88	
		GRT-03	Grants Creek @ County Road 10	7.63	8.16	23	6.5 - 8.5	0	0%	7.90		7.90	
		GRT-04	Grants Creek @ Pike Lake Dam	7.7	8.11	23	6.5 - 8.5	0	0%	7.93		7.93	
		GRT-05	Grants Creek d/s Upper Scotch Line	7.6	8.09	17	6.5 - 8.5	0	0%	7.83		7.83	
		JEB-01	Jebbs Creek @ County Road 1	7.75	8.44	22	6.5 - 8.5	0	0%	8.02		8.02	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	7.74	8.18	23	6.5 - 8.5	0	0%	7.97		7.97	
		RVL-01	Pike Lake										
		RVL-02	O'Brien Lake										
		RVL-03	Farren Lake										
		RVL-04	Crosby Lake										
		RVL-05	Little Crosby Lake										
		RVL-06	Davern Lake										
		RVL-07	Little Silver Lake										
		RVL-08	Rainbow Lake										
		RVL-09	Eagle Lake										
		RVL-10	Otty Lake										
		RVL-16	Bob's Lake, Buck Bay										
		RVL-17	Bob's Lake, Green Bay										
		RVL-18	Bob's Lake, West Basin										
		RVL-19	Bob's Lake, Mud Bay										
		RVL-20	Bob's Lake, Norris Bay										
		RVL-21	Bob's Lake, E. Basin, Long Bay										
		RVL-22	Bob's Lake, C. Narrows										
		RVL-23	Bob's Lake, Mill Bay										
		RVL-24	Crow Lake										
		RVL-25	Christie Lake										
		RVL-28	Leggatt Lake										
		RVL-29	Long Lake (West)										



**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	pH (unitless)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-30	Elbow Lake										
		RVL-31	Carnahan Lake										
		SNY-03	Scotts Snye @ Upper Scotch Line	7.77	8.2	22	6.5 - 8.5	0	0%	7.94		7.94	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	7.15	7.69	21	6.5 - 8.5	0	0%	7.38		7.38	
		TAY-01	Tay River @ Port Elmsley	7.9	8.52	23	6.5 - 8.5	1	4%	8.12		8.12	
		TAY-04	Tay River @ Rogers Road (Perth)	7.72	8.1	23	6.5 - 8.5	0	0%	7.93		7.93	
		TAY-05	Tay River @ Glen Tay	7.85	8.39	24	6.5 - 8.5	0	0%	8.11		8.10	
		TAY-08	Tay River @ Gore Street (Perth)	7.76	8.12	25	6.5 - 8.5	0	0%	7.97		7.97	
		TAY-09	Tay River @ Adams Pond	7.81	8.17	23	6.5 - 8.5	0	0%	7.99		7.99	
		TAY-11	Tay River u/s of Tay Marsh	7.82	8.69	23	6.5 - 8.5	3	13%	8.05		8.05	
		TAY-15	Tay River d/s of Christie Lake	7.85	8.33	22	6.5 - 8.5	0	0%	8.09		8.08	
		TAY-16	Tay River @ Bolingbroke	7.75	8.24	23	6.5 - 8.5	0	0%	8.02		8.02	
		TAY-19	Tay River @ Craig St. (Perth)	7.76	8.12	23	6.5 - 8.5	0	0%	7.95		7.95	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	7.62	7.99	17	6.5 - 8.5	0	0%	7.82		7.82	

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TKN (mg/L)										
				Min	Max	# of Samples	EC guideline	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin											
		19343072901	Big Gull (Clarendon) Lake, Main Basin											
		19343072801	Big Gull (Clarendon) Lake, West Basin											
Buckshot Creek		18343077201	Blue Lake											
		18343070401	Buckshot (Indian) Lake											
		18343070801	Grindstone Lake, North Basin											
		18343070901	Grindstone Lake, South Basin											
		18343072101	Sand Lake											
		18343072201	Shabomeka (Buck) Lake											
		19343072301	Shawenegog (McClintock) Lake, North Basin											
		19343072401	Shawenegog (McClintock) Lake, South Basin											
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	0.35	1.07	33	0.5	26	79%	0.59	YES	0.58	YES	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	0.4	0.98	33	0.5	29	88%	0.65	YES	0.64	YES	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.33	2.4	60	0.5	57	95%	0.73	YES	0.70	YES	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.36	1.49	60	0.5	58	97%	0.71	YES	0.70	YES	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.46	1.45	60	0.5	59	98%	0.75	YES	0.73	YES	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	0.35	2.5	58	0.5	57	98%	0.78	YES	0.75	YES	
		CK70-05	Poole Creek, Stittsville Main St	0.34	1.95	78	0.5	66	85%	0.72	YES	0.68	YES	
Clyde River		18343052002	At dam, downstream of Lanark	0.3	0.6	35	0.5	10	29%	0.45		0.44		
		18343053002	Kerr Lake outlet, upstream of Lanark	0.2	0.65	33	0.5	11	33%	0.45		0.44		
		18343070501	Canonto Lake (North & South Basins)											
		19343074901	Clyde Lake											
		19343075001	Flower Round Lake											
		19343076001	Horne Lake											
		19343076401	Joes Lake											
		18343074301	Palmerston Lake (North & South Basins)											
		19343076501	Paddys Lake											
		19343075901	Upper Park Lake											
		19343070101	Robertson Lake											
		19343003601	Sunday Lake											
		19343076301	Widow Lake											
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.2	0.55	36	0.5	2	6%	0.36		0.35		
		19343073401	Dalhousie Lake											
		19343073501	Mississippi Lake, Big Lake											
		19343001401	Mississippi Lake, Second Lake											
		18343075301	Patterson Lake											
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.3	0.72	36	0.5	14	39%	0.49		0.48		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TKN (mg/L)											
				Min	Max	# of Samples	EC guideline	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.		
		18343072701	Bennett Lake (North & South Basins)												
		Unknown	Black Lake												
		18343074801	Clear Lake												
		18343073601	Sharbot Lake, East Basin												
		18343072501	Sharbot Lake, Main Basin												
		18343074501	Sharbot Lake, South-West Basin												
		18343074401	Sharbot Lake, West Basin												
		18343072601	Silver Lake												
		18343074601	White Lake												
	Indian River	19343073101	Clayton Lake												
		19343077101	Taylor Lake												
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	0.2	0.6	31	0.5	11	35%	0.47			0.46		
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.35	0.6	36	0.5	13	36%	0.47			0.46		
		18343004002	Mississippi River, Almonte St, Almonte	0.25	0.6	36	0.5	12	33%	0.46			0.45		
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.33	0.8	36	0.5	7	19%	0.47			0.46		
		CK3-01	Cody Creek, at Hansen Side Rd.	0.33	1.67	55	0.5	49	89%	0.77	YES		0.74	YES	
		CK3-03	Cody Creek, at Highway 44, E of Road 10	0.51	1.42	24	0.5	24	100%	0.84	YES		0.81	YES	
		CK3-04	Cody Creek, March Rd.	0.33	1.12	32	0.5	28	88%	0.79	YES		0.76	YES	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	0.32	1.35	82	0.5	40	49%	0.50	YES		0.49		
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.05	0.61	36	0.5	2	6%	0.26			0.24		
		18343071101	Kishkebus Lake												
		18343073901	Mackavoy Lake												
		18343071401	Marble Lake												
		19343074101	Mazinaw Lake, North Basin												
		19343073701	Mazinaw Lake, South Basin												
		Unknown	McCausland Lake												
		19343071601	Mississagagon Lake, East Basin												
		19343071501	Mississagagon Lake, West Basin												
	Upper Mississippi	18343070201	Ardoch (Green) Lake												
		18343073301	Crotch (Cross) Lake, North Basin												
		18343073201	Crotch (Cross) Lake, South Basin												
		18343070701	Fawn Lake												
		19343071001	Kashwakamak Lake, East Basin												
		19343073801	Kashwakamak Lake, West Basin												
		18343071301	Malcolm Lake												
		18343071901	Mosque Lake (North, South & West Basins)												
		18343072001	Pine Lake												
<b>Ottawa</b>	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.33	1.71	59	0.5	54	92%	0.84	YES		0.79	YES	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TKN (mg/L)									
				Min	Max	# of Samples	EC guideline	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	0.28	1.27	70	0.5	33	47%	0.52	YES	0.50	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	0.18	0.92	66	0.5	23	35%	0.48		0.45	
		CK6-001	Watts Creek, at Shirley Blvd.	0.28	1.27	57	0.5	42	74%	0.61	YES	0.59	YES
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 34)	0.23	4.2	74	0.5	19	26%	0.49		0.44	
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	0.35	2	53	0.5	46	87%	0.78	YES	0.73	YES
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.23	1.67	59	0.5	31	53%	0.60	YES	0.55	YES
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	0.53	1.19	39	0.5	39	100%	0.76	YES	0.74	YES
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	0.43	1.71	67	0.5	66	99%	0.94	YES	0.90	YES
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	0.4	1.96	67	0.5	61	91%	0.98	YES	0.92	YES
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.63	2.3	56	0.5	56	100%	1.33	YES	1.28	YES
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of F	0.62	2.8	54	0.5	54	100%	1.44	YES	1.37	YES
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	0.31	1.98	71	0.5	42	59%	0.65	YES	0.59	YES
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	0.21	4.2	68	0.5	31	46%	0.68	YES	0.55	YES
		CK24-002	Cardinal Creek, Old Montreal Rd.	0.31	1.43	61	0.5	41	67%	0.60	YES	0.58	YES
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of c	0.27	1.96	54	0.5	42	78%	0.73	YES	0.66	YES
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	0.29	1.9	72	0.5	43	60%	0.60	YES	0.57	YES
		MKL-01	Mackay Lake, deepest basin, NW portion of lake	0.5	0.85	38	0.5	37	97%	0.61	YES	0.60	YES
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	0.37	2	63	0.5	56	89%	0.69	YES	0.66	YES
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	0.27	5.1	73	0.5	25	34%	0.56	YES	0.49	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	0.26	36	67	0.5	33	49%	1.06	YES	0.55	YES
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	0.17	33	67	0.5	18	27%	0.94	YES	0.44	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	0.75	3.2	39	0.5	39	100%	1.32	YES	1.25	YES
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.57	1.21	34	0.5	34	100%	0.72	YES	0.71	YES
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.54	1.26	40	0.5	40	100%	0.70	YES	0.69	YES
	Ottawa River	18000017002	Ottawa River, Chats Falls	0.2	0.45	42	0.5	0	0%	0.31		0.30	
		ORS-100.20	Woolsey Narrows/Ottawa River	0.25	0.45	38	0.5	0	0%	0.32		0.31	
		ORS-210.10	Deschenes Rapids/Ottawa River	0.22	0.5	37	0.5	0	0%	0.33		0.33	
		ORS-210.30	Deschenes Rapids/Ottawa River	0.24	0.49	37	0.5	0	0%	0.32		0.32	
		ORS-210.40	Deschenes Rapids/Ottawa River	0.24	0.44	37	0.5	0	0%	0.31		0.31	
		ORS-430.10	Upper Duck Island/Ottawa River	0.22	0.71	41	0.5	1	2%	0.31		0.30	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.23	0.43	41	0.5	0	0%	0.30		0.30	
		ORS-430.60	Kettle Island/Ottawa River	0.21	0.36	41	0.5	0	0%	0.29		0.29	
		ORS-430.70	Kettle Island/Ottawa River	0.23	0.53	41	0.5	1	2%	0.32		0.31	
		ORS-450.10	Hiawatha/Ottawa River	0.31	0.63	24	0.5	2	8%	0.40		0.39	
		ORS-450.20	Hiawatha/Ottawa River	0.26	0.54	24	0.5	3	13%	0.37		0.36	
		ORS-450.30	Hiawatha/Ottawa River	0.22	0.51	24	0.5	1	4%	0.32		0.32	
		ORS-450.40	Hiawatha/Ottawa River	0.26	0.58	24	0.5	2	8%	0.38		0.37	
		ORS-500.10	Petrie Island/Ottawa River	0.32	0.62	40	0.5	8	20%	0.45		0.45	
		ORS-500.20	Petrie Island/Ottawa River	0.28	0.53	41	0.5	2	5%	0.40		0.39	
		ORS-500.50	Petrie Island/Ottawa River	0.24	0.49	40	0.5	0	0%	0.35		0.34	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TKN (mg/L)									
				Min	Max	# of Samples	EC guideline	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	0.47	1.1	29	0.5	28	97%	0.85	YES	0.83	YES
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	0.37	1.57	62	0.5	61	98%	0.83	YES	0.79	YES
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.43	1.14	72	0.5	67	93%	0.73	YES	0.71	YES
		JR-02	Jock River, at Jockvale Rd.	0.47	1.2	75	0.5	71	95%	0.74	YES	0.72	YES
		JR-05	Jock River, at Moodie Dr.	0.29	1.25	68	0.5	64	94%	0.83	YES	0.81	YES
		JR-12	Jock River, at Ottawa St., Richmond	0.37	2.1	57	0.5	53	93%	0.86	YES	0.82	YES
		JR-20	Jock River, at Bleeks Side Rd.	0.46	1.58	65	0.5	62	95%	0.93	YES	0.90	YES
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	0.43	1.37	30	0.5	27	90%	0.83	YES	0.81	YES
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	0.74	3.7	31	0.5	31	100%	1.27	YES	1.20	YES
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.35	1.52	86	0.5	72	84%	0.72	YES	0.69	YES
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	0.5	1.58	32	0.5	31	97%	0.86	YES	0.84	YES
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	0.49	1.04	32	0.5	31	97%	0.80	YES	0.79	YES
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	0.46	1.09	32	0.5	29	91%	0.83	YES	0.81	YES
		KEM-07	Kemptville Creek @ Oxford Mills	0.47	1.11	32	0.5	31	97%	0.85	YES	0.83	YES
		KEM-08	Kemptville Creek @ Pattersons Corners	0.45	1.15	24	0.5	22	92%	0.83	YES	0.81	YES
		KEM-09	Kemptville Creek @ County Road 20	0.44	2.2	32	0.5	30	94%	0.97	YES	0.92	YES
KEM-10		Kemptville Creek @ Limerick Road	0.45	1.87	32	0.5	29	91%	0.95	YES	0.90	YES	
KEM-11		Kemptville Creek @ Garretton	0.41	1.55	32	0.5	29	91%	0.90	YES	0.85	YES	
KEM-14		Kemptville Creek @ Kyle Road	0.4	1.29	24	0.5	20	83%	0.78	YES	0.74	YES	
KEM-16		Kemptville Creek u/s N. Augusta	0.41	1.32	23	0.5	20	87%	0.83	YES	0.80	YES	
NKE-02	North Kemptville Creek @ Bishops Mills	0.42	1.24	24	0.5	21	88%	0.83	YES	0.80	YES		
NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	0.34	1.57	24	0.5	22	92%	0.92	YES	0.87	YES		
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.44	1.05	30	0.5	27	90%	0.66	YES	0.65	YES	
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.45	0.79	30	0.5	27	90%	0.63	YES	0.62	YES	
	18003303402	Rideau River, St. Patrick St, Ottawa	0.45	1.17	30	0.5	26	87%	0.61	YES	0.61	YES	
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.44	0.81	30	0.5	28	93%	0.61	YES	0.60	YES	
	ARC-01	Arcand Drain @ County Road 19	0.45	1.66	30	0.5	30	100%	0.94	YES	0.91	YES	
	BRA-01	Brassils Creek @ Donnelly Drive	0.34	0.92	32	0.5	25	78%	0.65	YES	0.64	YES	
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Ric	0.28	2.2	66	0.5	47	71%	0.67	YES	0.62	YES	
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	0.36	1.23	78	0.5	59	76%	0.65	YES	0.63	YES	
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.23	16.3	83	0.5	46	55%	0.81	YES	0.57	YES	
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	0.38	1.7	81	0.5	58	72%	0.66	YES	0.63	YES	
	CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.13	1.81	78	0.5	53	68%	0.62	YES	0.59	YES	
	CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	0.33	1.85	69	0.5	50	72%	0.66	YES	0.63	YES	
	CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	0.4	1.67	50	0.5	34	68%	0.62	YES	0.60	YES	
	CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	0.31	5.2	70	0.5	47	67%	0.65	YES	0.58	YES	
	CK19-10	Hunt Club Creek, at Country Club Rd.	0.3	17.3	74	0.5	39	53%	0.81	YES	0.55	YES	
	CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.07	13.2	81	0.5	4	5%	0.44		0.22		
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	0.39	1.5	67	0.5	64	96%	0.70	YES	0.68	YES		
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.47	1.66	61	0.5	60	98%	0.72	YES	0.71	YES		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TKN (mg/L)									
				Min	Max	# of Samples	EC guideline	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	0.36	1.09	57	0.5	52	91%	0.67	YES	0.66	YES
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	0.33	1.29	63	0.5	46	73%	0.66	YES	0.64	YES
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.36	3.2	67	0.5	61	91%	0.84	YES	0.78	YES
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	0.52	8.2	63	0.5	63	100%	1.16	YES	1.01	YES
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	0.44	1.72	62	0.5	60	97%	0.89	YES	0.86	YES
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.03	1	62	0.5	39	63%	0.60	YES	0.55	YES
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	0.69	4.1	60	0.5	60	100%	1.72	YES	1.57	YES
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.26	1.21	77	0.5	48	62%	0.57	YES	0.54	YES
		MCD-02	McDermott Drain @ County Road 19	0.6	2	29	0.5	29	100%	1.07	YES	1.03	YES
		MCD-03	McDermott Drain @ County Road 19	0.36	1.54	21	0.5	20	95%	0.77	YES	0.73	YES
		MUR-01	Murphy Drain @ County Road 22	0.24	1.12	30	0.5	26	87%	0.67	YES	0.64	YES
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.37	1.22	67	0.5	62	93%	0.65	YES	0.64	YES
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.36	1.2	84	0.5	75	89%	0.64	YES	0.62	YES
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.49	1.11	57	0.5	55	96%	0.68	YES	0.67	YES
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.49	1.13	62	0.5	59	95%	0.69	YES	0.67	YES
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.4	0.98	69	0.5	65	94%	0.64	YES	0.63	YES
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.38	1.07	86	0.5	78	91%	0.64	YES	0.63	YES
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.47	0.86	66	0.5	60	91%	0.64	YES	0.63	YES
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream	0.34	0.87	88	0.5	70	80%	0.58	YES	0.57	YES
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.53	0.92	37	0.5	37	100%	0.69	YES	0.68	YES
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.47	1.11	30	0.5	22	73%	0.59	YES	0.58	YES
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.45	0.88	30	0.5	26	87%	0.60	YES	0.59	YES
		BAR-01	Barbers Creek @ County Road 16	0.65	3.1	32	0.5	32	100%	1.24	YES	1.18	YES
		COC-02	Cockburn Creek @ Hwy. 43	0.81	1.81	31	0.5	31	100%	1.43	YES	1.40	YES
		DAL-01	Dales Creek @ County Road 23	0.42	1.05	31	0.5	29	94%	0.74	YES	0.73	YES
		HUT-02	Hutton Creek @ Townline Road	0.47	3.6	29	0.5	28	97%	1.19	YES	1.07	YES
		IRI-02	Irish Creek @ County Road 15 (Jasper)	0.37	1.01	31	0.5	27	87%	0.72	YES	0.70	YES
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	0.46	2	31	0.5	29	94%	0.86	YES	0.81	YES
		RCK-01	Rideau Creek @ Donnelly Drive	0.4	0.91	31	0.5	26	84%	0.67	YES	0.66	YES
		ROS-01	Rosedale Creek @ Hwy. 43	0.46	1.06	31	0.5	29	94%	0.68	YES	0.66	YES
		RVL-26	Otter Lake	0.4	0.53	72	0.5	7	10%	0.45		0.45	
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	0.78	1.48	18	0.5	18	100%	1.10	YES	1.07	YES
		BLA-01	Black Creek in Murphys Pt. Prov. Park	0.42	1.32	22	0.5	20	91%	0.74	YES	0.71	YES
		RVL-11	Black Lake	0.38	0.8	214	0.5	130	61%	0.51	YES	0.51	YES
		RVL-12	Burridge Lake	0.4	0.54	34	0.5	3	9%	0.46		0.46	
		RVL-13	Long Lake (East)	0.38	1.19	101	0.5	5	5%	0.44		0.43	
		RVL-14	Westport Sand Lake	0.39	1.08	48	0.5	16	33%	0.49		0.48	
		RVL-27	Wolfe Lake	0.28	0.52	94	0.5	1	1%	0.39		0.38	
		RVL-32	Adam Lake	0.38	0.71	72	0.5	11	15%	0.46		0.45	
		RVL-33	Round Lake	0.3	0.63	54	0.5	2	4%	0.38		0.38	
		RVL-34	Loon Lake	0.45	0.79	39	0.5	34	87%	0.58	YES	0.57	YES

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TKN (mg/L)									
				Min	Max	# of Samples	EC guideline	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-35	Bass Lake	0.31	0.6	91	0.5	7	8%	0.43		0.43	
		RVL-36	Big Rideau Lake, Hoggs Bay	0.37	0.79	36	0.5	11	31%	0.49		0.48	
		RVL-37	Upper Rideau Lake	0.33	388	107	0.5	23	21%	4.09	YES	0.49	
		RVL-38	Lower Rideau Lake	0.29	1.19	328	0.5	51	16%	0.42		0.41	
		RVL-39	Big Rideau Lake	0.3	1.16	272	0.5	20	7%	0.39		0.38	
		SHE-01	Sheldons Creek @ Old Kingston Road	0.62	1.57	17	0.5	17	100%	1.01	YES	0.99	YES
		WES-01	Westport Dam	0.37	0.67	17	0.5	8	47%	0.49		0.49	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.46	1	28	0.5	22	79%	0.61	YES	0.60	YES
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.35	0.45	21	0.5	0	0%	0.40		0.40	
		EAG-01	Eagle Creek u/s Bobs Lake	0.3	0.94	21	0.5	11	52%	0.60	YES	0.56	YES
		FIS-01	Fish Creek	0.36	0.8	7	0.5	5	71%	0.61	YES	0.59	YES
		FIS-03	Fish Creek @ County Road 38	0.42	1.16	22	0.5	18	82%	0.73	YES	0.69	YES
		FIS-A	Fish Creek u/s Bobs Lake	0.46	0.77	13	0.5	12	92%	0.62	YES	0.62	YES
		GRT-01	Grants Creek @ Glen Tay Road	0.45	1.61	32	0.5	28	88%	0.65	YES	0.63	YES
		GRT-02	Grants Creek @ Upper Scotch Line	0.39	0.82	32	0.5	22	69%	0.55	YES	0.54	YES
		GRT-03	Grants Creek @ County Road 10	0.36	0.82	32	0.5	13	41%	0.49		0.48	
		GRT-04	Grants Creek @ Pike Lake Dam	0.34	0.65	32	0.5	8	25%	0.47		0.46	
		GRT-05	Grants Creek d/s Upper Scotch Line	0.38	0.72	17	0.5	11	65%	0.55	YES	0.54	YES
		JEB-01	Jebbs Creek @ County Road 1	0.44	0.94	31	0.5	28	90%	0.66	YES	0.65	YES
		RUD-01	Ruddsdale Creek @ Christie Lake Road	0.44	1.5	28	0.5	27	96%	1.01	YES	0.96	YES
		RVL-01	Pike Lake	0.31	1.15	234	0.5	74	32%	0.49		0.44	
		RVL-02	O'Brien Lake	0.43	0.58	14	0.5	5	36%	0.49		0.48	
		RVL-03	Farren Lake	0.29	0.62	48	0.5	1	2%	0.36		0.36	
		RVL-04	Crosby Lake	0.39	0.57	54	0.5	4	7%	0.43		0.43	
		RVL-05	Little Crosby Lake	0.32	0.61	19	0.5	3	16%	0.44		0.43	
		RVL-06	Davern Lake	0.25	0.53	25	0.5	2	8%	0.38		0.37	
		RVL-07	Little Silver Lake	0.32	0.61	61	0.5	10	16%	0.43		0.43	
		RVL-08	Rainbow Lake	0.46	0.95	18	0.5	16	89%	0.58	YES	0.57	YES
		RVL-09	Eagle Lake	0.28	0.67	57	0.5	2	4%	0.37		0.37	
		RVL-10	Otty Lake	0.44	0.96	63	0.5	40	63%	0.57	YES	0.56	YES
		RVL-16	Bob's Lake, Buck Bay	0.35	0.64	35	0.5	5	14%	0.45		0.44	
		RVL-17	Bob's Lake, Green Bay	0.29	0.92	91	0.5	5	5%	0.38		0.38	
		RVL-18	Bob's Lake, West Basin	0.3	0.73	95	0.5	12	13%	0.44		0.43	
		RVL-19	Bob's Lake, Mud Bay	0.35	0.82	39	0.5	7	18%	0.46		0.45	
		RVL-20	Bob's Lake, Norris Bay	0.36	0.6	37	0.5	2	5%	0.43		0.43	
		RVL-21	Bob's Lake, E. Basin, Long Bay	0.37	0.98	61	0.5	5	8%	0.44		0.43	
		RVL-22	Bob's Lake, C. Narrows	0.36	0.44	18	0.5	0	0%	0.41		0.41	
		RVL-23	Bob's Lake, Mill Bay	0.45	0.79	22	0.5	20	91%	0.57	YES	0.57	YES
		RVL-24	Crow Lake	0.27	0.48	99	0.5	0	0%	0.32		0.32	
		RVL-25	Christie Lake	0.27	0.53	143	0.5	2	1%	0.40		0.39	
		RVL-28	Leggatt Lake	0.27	0.54	58	0.5	1	2%	0.33		0.33	
		RVL-29	Long Lake (West)	0.42	0.9	66	0.5	44	67%	0.52	YES	0.52	YES

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TKN (mg/L)									
				Min	Max	# of Samples	EC guideline	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-30	Elbow Lake	0.39	0.99	53	0.5	36	68%	0.54	YES	0.53	YES
		RVL-31	Carnahan Lake	0.5	1.35	54	0.5	54	100%	0.63	YES	0.61	YES
		SNY-03	Scotts Snye @ Upper Scotch Line	0.34	0.53	22	0.5	2	9%	0.43		0.43	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.28	0.93	21	0.5	11	52%	0.56	YES	0.54	YES
		TAY-01	Tay River @ Port Elmsley	0.37	0.76	32	0.5	24	75%	0.55	YES	0.54	YES
		TAY-04	Tay River @ Rogers Road (Perth)	0.32	0.75	32	0.5	12	38%	0.49		0.48	
		TAY-05	Tay River @ Glen Tay	0.3	0.64	33	0.5	9	27%	0.47		0.46	
		TAY-08	Tay River @ Gore Street (Perth)	0.33	0.66	34	0.5	11	32%	0.49		0.48	
		TAY-09	Tay River @ Adams Pond	0.31	0.49	32	0.5	0	0%	0.42		0.42	
		TAY-11	Tay River u/s of Tay Marsh	0.36	0.84	32	0.5	24	75%	0.59	YES	0.58	YES
		TAY-15	Tay River d/s of Christie Lake	0.29	0.53	31	0.5	1	3%	0.41		0.41	
		TAY-16	Tay River @ Bolingbroke	0.25	0.54	31	0.5	1	3%	0.41		0.40	
		TAY-19	Tay River @ Craig St. (Perth)	0.3	0.67	32	0.5	14	44%	0.49		0.49	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	0.43	1.07	17	0.5	16	94%	0.78	YES	0.76	YES

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin	0.001	0.008	8	0.03	0	0%	0.005		0.004		
		19343072901	Big Gull (Clarendon) Lake, Main Basin	0.001	0.012	8	0.03	0	0%	0.006		0.004		
		19343072801	Big Gull (Clarendon) Lake, West Basin	0.006	0.011	8	0.03	0	0%	0.008		0.008		
Buckshot Creek	18343077201	18343077201	Blue Lake	0.002	0.004	3	0.03	0	0%	0.003		0.003		
		18343070401	Buckshot (Indian) Lake	0.002	0.02	3	0.03	0	0%	0.009		0.005		
		18343070801	Grindstone Lake, North Basin	0.001	0.057	11	0.03	2	18%	0.011		0.004		
		18343070901	Grindstone Lake, South Basin	0.002	0.044	11	0.03	1	9%	0.012		0.008		
		18343072101	Sand Lake	0.003	0.026	11	0.03	0	0%	0.008		0.007		
		18343072201	Shabomeka (Buck) Lake											
		19343072301	Shawenegog (McClintock) Lake, North Basin	0.003	0.009	3	0.03	0	0%	0.005		0.005		
		19343072401	Shawenegog (McClintock) Lake, South Basin	0.001	0.007	3	0.03	0	0%	0.004		0.003		
Carp River	18337010102	18337010102	Carp River, Craig Side Rd, downstream Carp	0.02	0.174	33	0.03	28	85%	0.056	YES	0.047	YES	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	0.02	0.141	33	0.03	28	85%	0.055	YES	0.050	YES	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.016	0.45	59	0.03	42	71%	0.056	YES	0.043	YES	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.016	0.28	59	0.03	51	86%	0.062	YES	0.053	YES	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.013	0.154	59	0.03	49	83%	0.060	YES	0.053	YES	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	0.023	0.54	57	0.03	54	95%	0.078	YES	0.066	YES	
Clyde River	18343052002	18343052002	At dam, downstream of Lanark	0.002	0.160	35	0.03	1	3%	0.020		0.016		
		18343053002	Kerr Lake outlet, upstream of Lanark	0.010	0.460	33	0.03	1	3%	0.030		0.018		
		18343070501	Canonto Lake (North & South Basins)	0.001	0.018	18	0.03	0	0%	0.005		0.004		
		19343074901	Clyde Lake	0.005	0.02	8	0.03	0	0%	0.013		0.011		
		19343075001	Flower Round Lake	0.006	0.034	8	0.03	1	13%	0.015		0.013		
		19343076001	Horne Lake	0.01	0.023	8	0.03	0	0%	0.013		0.012		
		19343076401	Joes Lake	0.008	0.02	8	0.03	0	0%	0.015		0.014		
		18343074301	Palmerston Lake (North & South Basins)	0.001	0.038	17	0.03	2	12%	0.007		0.003		
		19343076501	Paddys Lake	0.013	0.035	8	0.03	3	38%	0.024		0.023		
		19343075901	Upper Park Lake	0.008	0.032	8	0.03	1	13%	0.018		0.016		
		19343070101	Robertson Lake	0.001	0.128	8	0.03	1	13%	0.023		0.008		
		19343003601	Sunday Lake	0.001	0.041	9	0.03	2	22%	0.012		0.006		
		19343076301	Widow Lake	0.011	0.03	8	0.03	0	0%	0.020		0.019		
		CP Dam	18343017502	18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.002	0.026	36	0.03	0	0%	0.015		0.014
19343073401	Dalhousie Lake			0.006	0.016	9	0.03	0	0%	0.010		0.010		
19343073501	Mississippi Lake, Big Lake													
19343001401	Mississippi Lake, Second Lake													
18343075301	Patterson Lake			0.004	0.013	8	0.03	0	0%	0.009		0.008		
Fall River	18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.002	0.020	36	0.03	0	0%	0.014		0.013			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		18343072701	Bennett Lake (North & South Basins)	0.006	0.042	17	0.03	1	6%	0.012		0.011	
		Unknown	Black Lake	0.005	0.012	8	0.03	0	0%	0.008		0.008	
		18343074801	Clear Lake	0.008	0.019	6	0.03	0	0%	0.014		0.013	
		18343073601	Sharbot Lake, East Basin	0.001	0.010	8	0.03	0	0%	0.006		0.005	
		18343072501	Sharbot Lake, Main Basin	0.003	0.012	8	0.03	0	0%	0.006		0.006	
		18343074501	Sharbot Lake, South-West Basin	0.004	0.018	8	0.03	0	0%	0.010		0.009	
		18343074401	Sharbot Lake, West Basin	0.001	0.010	8	0.03	0	0%	0.007		0.005	
		18343072601	Silver Lake	0.003	0.014	8	0.03	0	0%	0.008		0.007	
		18343074601	White Lake	0.001	0.011	8	0.03	0	0%	0.006		0.004	
	Indian River	19343073101	Clayton Lake	0.006	0.016	8	0.03	0	0%	0.011		0.010	
		19343077101	Taylor Lake	0.001	0.029	8	0.03	0	0%	0.013		0.010	
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	0.014	0.056	31	0.03	3	10%	0.024		0.023	
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.002	0.061	36	0.03	1	3%	0.020		0.018	
		18343004002	Mississippi River, Almonte St, Almonte	0.002	0.024	36	0.03	0	0%	0.018		0.017	
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.002	0.480	36	0.03	1	3%	0.030		0.017	
		CK3-01	Cody Creek, at Hansen Side Rd.	0.017	0.39	55	0.03	47	85%	0.094	YES	0.072	YES
		CK3-03	Cody Creek, at Highway 44, E of Road 10	0.002	0.064	24	0.03	5	21%	0.020		0.016	
		CK3-04	Cody Creek, March Rd.	0.005	0.025	31	0.03	0	0%	0.015		0.014	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	0.006	0.162	81	0.03	11	14%	0.024		0.021	
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.000005	0.136000	36	0.030	2	6%	0.014		0.002	
		18343071101	Kishkebus Lake										
		18343073901	Mackavoy Lake										
		18343071401	Marble Lake										
		19343074101	Mazinaw Lake, North Basin	0.001	0.006	6	0.03	0	0%	0.003		0.002	
		19343073701	Mazinaw Lake, South Basin	0.001	0.007	6	0.03	0	0%	0.005		0.004	
		Unknown	McCausland Lake										
		19343071601	Mississagagon Lake, East Basin										
		19343071501	Mississagagon Lake, West Basin										
	Upper Mississippi	18343070201	Ardoch (Green) Lake	0.001	0.004	3	0.03	0	0%	0.002		0.002	
		18343073301	Crotch (Cross) Lake, North Basin	0.002	0.031	9	0.03	2	22%	0.013		0.009	
		18343073201	Crotch (Cross) Lake, South Basin	0.002	0.044	9	0.03	1	11%	0.009		0.006	
		18343070701	Fawn Lake	0.002	0.046	9	0.03	1	11%	0.015		0.010	
		19343071001	Kashwakamak Lake, East Basin										
		19343073801	Kashwakamak Lake, West Basin										
		18343071301	Malcolm Lake	0.004	0.013	3	0.03	0	0%	0.008		0.007	
		18343071901	Mosque Lake (North, South & West Basins)	0.001	0.048	26	0.03	4	15%	0.014		0.008	
		18343072001	Pine Lake	0.005	0.012	3	0.03	0	0%	0.008		0.008	
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.014	0.164	58	0.03	39	67%	0.048	YES	0.040	YES

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	0.013	0.33	69	0.03	41	59%	0.046	YES	0.038	YES
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	0.018	0.166	65	0.03	50	77%	0.054	YES	0.047	YES
		CK6-001	Watts Creek, at Shirley Blvd.	0.025	0.4	56	0.03	53	95%	0.078	YES	0.064	YES
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 34)	0.011	0.27	73	0.03	42	58%	0.051	YES	0.038	YES
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	0.031	0.27	52	0.03	52	100%	0.105	YES	0.093	YES
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.012	0.188	58	0.03	42	72%	0.050	YES	0.041	YES
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	0.018	0.051	37	0.03	13	35%	0.029		0.028	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	0.036	0.22	66	0.03	66	100%	0.084	YES	0.073	YES
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	0.00755	0.2	66	0.03	61	92%	0.069	YES	0.060	YES
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.04	0.21	56	0.03	56	100%	0.093	YES	0.085	YES
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	0.028	0.33	54	0.03	52	96%	0.078	YES	0.066	YES
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	0.0207	0.331	69	0.03	67	97%	0.091	YES	0.076	YES
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	0.027	0.27	68	0.03	63	93%	0.074	YES	0.062	YES
		CK24-002	Cardinal Creek, Old Montreal Rd.	0.009	0.26	60	0.03	58	97%	0.078	YES	0.069	YES
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	0.039	0.24	53	0.03	53	100%	0.095	YES	0.086	YES
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	0.013	0.4	71	0.03	46	65%	0.058	YES	0.043	YES
		MKL-01	MacKay Lake, deepest basin, NW portion of lake	0.008	0.041	38	0.03	2	5%	0.020		0.019	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	0.015	0.21	62	0.03	51	82%	0.060	YES	0.051	YES
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	0.013	0.23	72	0.03	41	57%	0.045	YES	0.037	YES
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	0.0114	0.3	67	0.03	53	79%	0.058	YES	0.048	YES
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	0.0015	0.25	66	0.03	30	45%	0.044	YES	0.029	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	0.028	0.41	39	0.03	38	97%	0.086	YES	0.074	YES
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.026	0.0691	35	0.03	31	89%	0.041	YES	0.040	YES
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.018	0.07	41	0.03	34	83%	0.042	YES	0.040	YES
	Ottawa River	18000017002	Ottawa River, Chats Falls	0.002	0.023	42	0.03	0	0%	0.016		0.015	
		ORS-100.20	Woolsey Narrows/Ottawa River	0.004	0.021	37	0.03	0	0%	0.012		0.012	
		ORS-210.10	Deschenes Rapids/Ottawa River	0.005	0.019	36	0.03	0	0%	0.014		0.013	
		ORS-210.30	Deschenes Rapids/Ottawa River	0.005	0.0196	36	0.03	0	0%	0.013		0.013	
		ORS-210.40	Deschenes Rapids/Ottawa River	0.005	0.0216	36	0.03	0	0%	0.013		0.013	
		ORS-430.10	Upper Duck Island/Ottawa River	0.005	0.023	40	0.03	0	0%	0.013		0.013	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.005	0.025	40	0.03	0	0%	0.013		0.013	
		ORS-430.60	Kettle Island/Ottawa River	0.005	0.0215	40	0.03	0	0%	0.013		0.012	
		ORS-430.70	Kettle Island/Ottawa River	0.005	0.022	40	0.03	0	0%	0.015		0.014	
		ORS-450.10	Hiawatha/Ottawa River	0.012	0.033	24	0.03	1	4%	0.020		0.019	
		ORS-450.20	Hiawatha/Ottawa River	0.01	0.029	24	0.03	0	0%	0.017		0.016	
		ORS-450.30	Hiawatha/Ottawa River	0.001	0.03	24	0.03	0	0%	0.015		0.014	
		ORS-450.40	Hiawatha/Ottawa River	0.014	0.03	24	0.03	0	0%	0.021		0.021	
		ORS-500.10	Petrie Island/Ottawa River	0.001	0.032	39	0.03	2	5%	0.020		0.018	
		ORS-500.20	Petrie Island/Ottawa River	0.006	0.025	40	0.03	0	0%	0.017		0.017	
		ORS-500.50	Petrie Island/Ottawa River	0.005	0.144	39	0.03	1	3%	0.021		0.018	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	0.012	0.075	30	0.03	20	67%	0.046	YES	0.041	YES
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	0.024	0.22	60	0.03	54	90%	0.073	YES	0.063	YES
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.01	0.166	71	0.03	40	56%	0.037	YES	0.033	YES
		JR-02	Jock River, at Jockvale Rd.	0.011	0.118	74	0.03	45	61%	0.037	YES	0.034	YES
		JR-05	Jock River, at Moodie Dr.	0.012	0.106	67	0.03	50	75%	0.047	YES	0.042	YES
		JR-12	Jock River, at Ottawa St., Richmond	0.009	0.076	56	0.03	26	46%	0.030		0.027	
		JR-20	Jock River, at Bleeks Side Rd.	0.005	0.113	64	0.03	30	47%	0.033	YES	0.028	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	0.012	0.150	30	0.03	13	43%	0.037	YES	0.031	YES
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	0.056	3	31	0.03	27	87%	0.532	YES	0.261	YES
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.0049	0.075	84	0.03	12	14%	0.020		0.017	
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	0.015	0.06	32	0.03	17	53%	0.032	YES	0.030	YES
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	0.011	0.026	32	0.03	0	0%	0.019		0.019	
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	0.011	0.027	32	0.03	0	0%	0.019		0.019	
		KEM-07	Kemptville Creek @ Oxford Mills	0.012	0.032	32	0.03	1	3%	0.020		0.019	
KEM-08		Kemptville Creek @ Pattersons Corners	0.011	0.037	24	0.03	2	8%	0.020		0.019		
KEM-09		Kemptville Creek @ County Road 20	0.011	0.192	32	0.03	11	34%	0.037	YES	0.029		
KEM-10		Kemptville Creek @ Limerick Road	0.011	0.089	32	0.03	12	38%	0.031	YES	0.027		
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.004	0.072	30	0.03	12	40%	0.032	YES	0.028		
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.010	0.066	30	0.03	16	53%	0.037	YES	0.034	YES	
	18003303402	Rideau River, St. Patrick St, Ottawa	0.008	0.059	30	0.03	14	47%	0.034	YES	0.031	YES	
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.006	0.069	30	0.03	13	43%	0.032	YES	0.029		
	ARC-01	Arcand Drain @ County Road 19	0.028	1.12	28	0.03	23	82%	0.176	YES	0.123	YES	
	BRA-01	Brassils Creek @ Donnelly Drive	0.006	0.039	31	0.03	2	6%	0.014		0.013		
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	0.015	0.218	65	0.03	53	82%	0.071	YES	0.058	YES	
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	0.017	0.158	78	0.03	71	91%	0.058	YES	0.052	YES	
Lower Rideau	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.0015	0.26	81	0.03	28	35%	0.033	YES	0.022		
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	0.012	0.21	79	0.03	70	89%	0.055	YES	0.048	YES	
	CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.016	0.26	76	0.03	56	74%	0.056	YES	0.047	YES	
	CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	0.019	0.47	67	0.03	58	87%	0.069	YES	0.057	YES	
	CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	0.02	0.21	48	0.03	31	65%	0.043	YES	0.037	YES	
	CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	0.0162	0.22	68	0.03	54	79%	0.054	YES	0.046	YES	
	CK19-10	Hunt Club Creek, at Country Club Rd.	0.013	0.32	72	0.03	52	72%	0.055	YES	0.044	YES	
	CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.0015	0.51	79	0.03	11	14%	0.033	YES	0.016		
	CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	0.021	0.124	65	0.03	60	92%	0.060	YES	0.055	YES	
	CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.027	0.31	59	0.03	58	98%	0.077	YES	0.069	YES	

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		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	0.019	0.134	55	0.03	47	85%	0.058	YES	0.052	YES
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	0.014	0.67	61	0.03	38	62%	0.054	YES	0.040	YES
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.001	0.25	64	0.03	42	66%	0.052	YES	0.038	YES
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	0.005	1.17	61	0.03	46	75%	0.097	YES	0.060	YES
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	0.016	0.28	59	0.03	49	83%	0.074	YES	0.059	YES
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.001	0.056	60	0.03	2	3%	0.010		0.008	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	0.0234	0.55	58	0.03	53	91%	0.128	YES	0.092	YES
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.001	0.028	75	0.03	0	0%	0.012		0.011	
		MCD-02	McDermott Drain @ County Road 19	0.053	0.87	29	0.03	29	100%	0.259	YES	0.206	YES
		MCD-03	McDermott Drain @ County Road 19	0.005	1	21	0.03	20	95%	0.202	YES	0.111	YES
		MUR-01	Murphy Drain @ County Road 22	0.011	0.156	30	0.03	21	70%	0.051	YES	0.043	YES
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.001	0.82	66	0.03	48	73%	0.058	YES	0.039	YES
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.001	1.01	83	0.03	51	61%	0.054	YES	0.035	YES
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.01	0.176	56	0.03	42	75%	0.046	YES	0.040	YES
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.012	0.184	61	0.03	48	79%	0.048	YES	0.042	YES
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.01	0.136	67	0.03	37	55%	0.038	YES	0.033	YES
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.008	0.198	83	0.03	45	54%	0.038	YES	0.031	YES
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.00799	0.117	63	0.03	32	51%	0.032	YES	0.029	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstre	0.007	0.046	85	0.03	16	19%	0.024		0.022	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.021	0.55	35	0.03	32	91%	0.059	YES	0.047	YES
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.004	0.075	30	0.03	6	20%	0.024		0.021	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.008	0.047	30	0.03	6	20%	0.025		0.024	
		BAR-01	Barbers Creek @ County Road 16	0.017	0.29	32	0.03	21	66%	0.051	YES	0.041	YES
		COC-02	Cockburn Creek @ Hwy. 43	0.017	0.078	31	0.03	21	68%	0.043	YES	0.040	YES
		DAL-01	Dales Creek @ County Road 23	0.011	0.071	32	0.03	9	28%	0.024		0.021	
		HUT-02	Hutton Creek @ Townline Road	0.017	0.42	29	0.03	21	72%	0.075	YES	0.050	YES
		IRI-02	Irish Creek @ County Road 15 (Jasper)	0.009	0.055	31	0.03	3	10%	0.019		0.017	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	0.016	0.23	31	0.03	25	81%	0.056	YES	0.047	YES
		RCK-01	Rideau Creek @ Donnelly Drive	0.013	0.034	31	0.03	3	10%	0.023		0.022	
		ROS-01	Rosedale Creek @ Hwy. 43	0.019	0.31	31	0.03	25	81%	0.060	YES	0.048	YES
		RVL-26	Otter Lake	0.005	0.051	72	0.03	1	1%	0.010		0.009	
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	0.043	0.28	18	0.03	14	78%	0.127	YES	0.112	YES
		BLA-01	Black Creek in Murphys Pt. Prov. Park	0.013	0.083	22	0.03	11	50%	0.033	YES	0.029	
		RVL-11	Black Lake	0.008	0.055	214	0.03	8	4%	0.015		0.014	
		RVL-12	Burridge Lake	0.006	0.02	34	0.03	0	0%	0.010		0.010	
		RVL-13	Long Lake (East)	0.006	0.057	101	0.03	2	2%	0.012		0.011	
		RVL-14	Westport Sand Lake	0.01	0.039	48	0.03	2	4%	0.016		0.016	
		RVL-27	Wolfe Lake	0.006	0.02	94	0.03	0	0%	0.011		0.010	
		RVL-32	Adam Lake	0.008	0.032	72	0.03	1	1%	0.013		0.012	
		RVL-33	Round Lake	0.005	0.03	54	0.03	1	2%	0.009		0.008	
		RVL-34	Loon Lake	0.005	0.048	39	0.03	2	5%	0.013		0.011	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-35	Bass Lake	0.009	0.031	91	0.03	1	1%	0.012		0.012	
		RVL-36	Big Rideau Lake, Hoggs Bay	0.007	0.048	36	0.03	5	14%	0.018		0.016	
		RVL-37	Upper Rideau Lake	0.011	0.138	107	0.03	25	23%	0.027		0.025	
		RVL-38	Lower Rideau Lake	0.007	0.096	328	0.03	14	4%	0.015		0.013	
		RVL-39	Big Rideau Lake	0.005	0.117	272	0.03	9	3%	0.012		0.011	
		SHE-01	Sheldons Creek @ Old Kingston Road	0.02	0.078	17	0.03	12	71%	0.042	YES	0.039	YES
		WES-01	Westport Dam	0.015	0.048	17	0.03	2	12%	0.025		0.024	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.013	0.044	28	0.03	4	14%	0.025		0.024	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.002	0.018	30	0.03	0	0%	0.013		0.012	
		EAG-01	Eagle Creek u/s Bobs Lake	0.011	0.061	21	0.03	8	38%	0.026		0.023	
		FIS-01	Fish Creek	0.019	0.038	7	0.03	2	29%	0.026		0.025	
		FIS-03	Fish Creek @ County Road 38	0.014	0.086	22	0.03	13	59%	0.038	YES	0.034	YES
		FIS-A	Fish Creek u/s Bobs Lake	0.019	0.04	13	0.03	4	31%	0.029		0.029	
		GRT-01	Grants Creek @ Glen Tay Road	0.022	0.36	32	0.03	25	78%	0.057	YES	0.046	YES
		GRT-02	Grants Creek @ Upper Scotch Line	0.012	0.076	32	0.03	12	38%	0.031	YES	0.028	
		GRT-03	Grants Creek @ County Road 10	0.011	0.046	32	0.03	2	6%	0.020		0.018	
		GRT-04	Grants Creek @ Pike Lake Dam	0.011	0.036	32	0.03	1	3%	0.017		0.016	
		GRT-05	Grants Creek d/s Upper Scotch Line	0.011	0.091	17	0.03	9	53%	0.035	YES	0.031	YES
		JEB-01	Jebbs Creek @ County Road 1	0.012	0.033	31	0.03	2	6%	0.040	YES	0.019	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	0.01	0.044	28	0.03	10	36%	0.026		0.025	
		RVL-01	Pike Lake	0.005	0.04	235	0.03	9	4%	0.014		0.013	
		RVL-02	O'Brien Lake	0.007	0.015	14	0.03	0	0%	0.011		0.010	
		RVL-03	Farren Lake	0.006	0.025	49	0.03	0	0%	0.008		0.007	
		RVL-04	Crosby Lake	0.006	0.014	54	0.03	0	0%	0.009		0.009	
		RVL-05	Little Crosby Lake	0.008	0.07	19	0.03	1	5%	0.016		0.014	
		RVL-06	Davern Lake	0.005	0.016	25	0.03	0	0%	0.008		0.008	
		RVL-07	Little Silver Lake	0.006	0.078	61	0.03	3	5%	0.014		0.012	
		RVL-08	Rainbow Lake	0.01	0.047	18	0.03	1	6%	0.017		0.016	
		RVL-09	Eagle Lake	0.006	0.019	57	0.03	0	0%	0.011		0.010	
		RVL-10	Otty Lake	0.007	0.039	63	0.03	3	5%	0.017		0.016	
		RVL-16	Bob's Lake, Buck Bay	0.007	0.024	35	0.03	0	0%	0.015		0.014	
		RVL-17	Bob's Lake, Green Bay	0.005	0.062	91	0.03	1	1%	0.010		0.010	
		RVL-18	Bob's Lake, West Basin	0.006	0.038	95	0.03	1	1%	0.014		0.013	
		RVL-19	Bob's Lake, Mud Bay	0.008	0.023	39	0.03	0	0%	0.015		0.014	
		RVL-20	Bob's Lake, Norris Bay	0.007	0.031	37	0.03	1	3%	0.012		0.012	
		RVL-21	Bob's Lake, E. Basin, Long Bay	0.008	0.07	61	0.03	2	3%	0.013		0.012	
		RVL-22	Bob's Lake, C. Narrows	0.006	0.021	18	0.03	0	0%	0.010		0.010	
		RVL-23	Bob's Lake, Mill Bay	0.015	0.037	22	0.03	3	14%	0.022		0.021	
		RVL-24	Crow Lake	0.005	0.016	99	0.03	0	0%	0.007		0.007	
		RVL-25	Christie Lake	0.005	0.024	143	0.03	0	0%	0.012		0.011	
		RVL-28	Leggatt Lake	0.005	0.061	58	0.03	1	2%	0.010		0.009	
		RVL-29	Long Lake (West)	0.009	0.051	66	0.03	4	6%	0.016		0.015	

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Total Phosphorus (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-30	Elbow Lake	0.009	0.046	53	0.03	3	6%	0.016		0.015	
		RVL-31	Carnahan Lake	0.012	0.08	54	0.03	8	15%	0.022		0.020	
		SNY-03	Scotts Snye @ Upper Scotch Line	0.011	0.024	22	0.03	0	0%	0.016		0.016	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.009	0.048	21	0.03	6	29%	0.022		0.019	
		TAY-01	Tay River @ Port Elmsley	0.013	0.033	32	0.03	2	6%	0.020		0.020	
		TAY-04	Tay River @ Rogers Road (Perth)	0.013	0.03	32	0.03	1	3%	0.019		0.019	
		TAY-05	Tay River @ Glen Tay	0.01	0.03	33	0.03	1	3%	0.017		0.016	
		TAY-08	Tay River @ Gore Street (Perth)	0.012	0.028	34	0.03	0	0%	0.019		0.019	
		TAY-09	Tay River @ Adams Pond	0.011	0.021	32	0.03	0	0%	0.015		0.014	
		TAY-11	Tay River u/s of Tay Marsh	0.015	0.036	32	0.03	5	16%	0.023		0.023	
		TAY-15	Tay River d/s of Christie Lake	0.008	0.026	31	0.03	0	0%	0.013		0.012	
		TAY-16	Tay River @ Bolingbroke	0.009	0.032	31	0.03	1	3%	0.013		0.012	
		TAY-19	Tay River @ Craig St. (Perth)	0.014	0.029	32	0.03	0	0%	0.019		0.019	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	0.016	0.063	17	0.03	6	35%	0.029		0.027	

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TSS (mg/L)										
				Min	Max	# of Samples	SSWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin											
		19343072901	Big Gull (Clarendon) Lake, Main Basin											
		19343072801	Big Gull (Clarendon) Lake, West Basin											
Buckshot Creek		18343077201	Blue Lake											
		18343070401	Buckshot (Indian) Lake											
		18343070801	Grindstone Lake, North Basin											
		18343070901	Grindstone Lake, South Basin											
		18343072101	Sand Lake											
		18343072201	Shabomeka (Buck) Lake											
		19343072301	Shawenegog (McClintock) Lake, North Basin											
		19343072401	Shawenegog (McClintock) Lake, South Basin											
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	1.8	20.5	33	10	2	6%	5.6		4.8		
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	2	41.2	33	10	8	24%	8.5		7.0		
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.4	66	60	10	9	15%	8.2		4.4		
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.4	20	60	10	9	15%	6.0		4.6		
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.4	41	60	10	19	32%	9.5		6.2		
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	2	49	58	10	20	34%	10.8	YES	8.4		
		CK70-05	Poole Creek, Stittsville Main St	0.4	124	78	10	18	23%	11.1	YES	5.2		
Clyde River		18343052002	At dam, downstream of Lanark	0.5	2.5	35	10	0	0%	1.3		1.2		
		18343053002	Kerr Lake outlet, upstream of Lanark	0.5	11.5	33	10	1	3%	2.0		1.4		
		18343070501	Canonto Lake (North & South Basins)											
		19343074901	Clyde Lake											
		19343075001	Flower Round Lake											
		19343076001	Horne Lake											
		19343076401	Joes Lake											
		18343074301	Palmerston Lake (North & South Basins)											
		19343076501	Paddys Lake											
		19343075901	Upper Park Lake											
		19343070101	Robertson Lake											
		19343003601	Sunday Lake											
19343076301	Widow Lake													
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.5	8.7	36	10	0	0%	1.8		1.4		
		19343073401	Dalhousie Lake											
		19343073501	Mississippi Lake, Big Lake											
		19343001401	Mississippi Lake, Second Lake											
		18343075301	Patterson Lake											
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.5	4.5	36	10	0	0%	1.5		1.2		



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TSS (mg/L)												
				Min	Max	# of Samples	SSWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.			
		18343072701	Bennett Lake (North & South Basins)													
		Unknown	Black Lake													
		18343074801	Clear Lake													
		18343073601	Sharbot Lake, East Basin													
		18343072501	Sharbot Lake, Main Basin													
		18343074501	Sharbot Lake, South-West Basin													
		18343074401	Sharbot Lake, West Basin													
		18343072601	Silver Lake													
		18343074601	White Lake													
	Indian River	19343073101	Clayton Lake													
		19343077101	Taylor Lake													
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	1.5	6.9	28	10	0	0%	3.5				3.2		
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.9	17.4	36	10	1	3%	2.7				2.1		
		18343004002	Mississippi River, Almonte St, Almonte	0.5	7.5	36	10	0	0%	1.8				1.5		
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.5	4.6	36	10	0	0%	1.6				1.4		
		CK3-01	Cody Creek, at Hansen Side Rd.	4	74	55	10	28	51%	16.7	YES			12.5	YES	
		CK3-03	Cody Creek, at Highway 44, E of Road 10	0.4	24	24	10	1	4%	2.6				1.6		
		CK3-04	Cody Creek, March Rd.	0.4	4	32	10	0	0%	1.6				1.3		
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	1	18	82	10	3	4%	4.2				3.5		
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.5	3.1	36	10	0	0%	1.0				0.9		
		18343071101	Kishkebus Lake													
		18343073901	Mackavoy Lake													
		18343071401	Marble Lake													
		19343074101	Mazinaw Lake, North Basin													
		19343073701	Mazinaw Lake, South Basin													
		Unknown	McCausland Lake													
		19343071601	Mississagagon Lake, East Basin													
		19343071501	Mississagagon Lake, West Basin													
	Upper Mississippi	18343070201	Ardoch (Green) Lake													
		18343073301	Crotch (Cross) Lake, North Basin													
		18343073201	Crotch (Cross) Lake, South Basin													
		18343070701	Fawn Lake													
		19343071001	Kashwakamak Lake, East Basin													
		19343073801	Kashwakamak Lake, West Basin													
		18343071301	Malcolm Lake													
		18343071901	Mosque Lake (North, South & West Basins)													
		18343072001	Pine Lake													
<b>Ottawa</b>	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.4	17	59	10	2	3%	3.0				2.0		

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TSS (mg/L)									
				Min	Max	# of Samples	SSWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	1	110	70	10	33	47%	14.2	YES	9.7	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	2	59	66	10	27	41%	12.7	YES	8.7	
		CK6-001	Watts Creek, at Shirley Blvd.	3	183	57	10	44	77%	27.5	YES	18.1	YES
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd)	2	190	74	10	35	47%	20.4	YES	12.3	YES
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	6	89	53	10	45	85%	24.4	YES	19.7	YES
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.4	46	59	10	8	14%	7.0		5.0	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	2	11	37	10	1	3%	4.5		4.1	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstre	7	125	67	10	61	91%	30.8	YES	23.1	YES
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	2	49	67	10	35	52%	14.4	YES	10.6	YES
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.5	39	56	10	40	71%	15.8	YES	13.4	YES
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	0.5	62	54	10	8	15%	6.8		3.3	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	1	210	71	10	51	72%	28.2	YES	18.2	YES
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	2	76	69	10	25	36%	12.0	YES	9.4	
		CK24-002	Cardinal Creek, Old Montreal Rd.	5	149	61	10	52	85%	25.9	YES	20.3	YES
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	3	100	54	10	25	46%	16.8	YES	11.7	YES
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	2	360	72	10	44	61%	29.6	YES	15.9	YES
		MKL-01	Mackay Lake, deepest basin, NW portion of lake	0.4	8	37	10	0	0%	2.7		2.4	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	1	93	63	10	30	48%	16.0	YES	10.4	YES
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	1	88	72	10	30	42%	14.7	YES	9.4	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	4	106	67	10	56	84%	26.1	YES	20.6	YES
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	0.4	83	67	10	14	21%	10.6	YES	4.8	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	1	27	38	10	4	11%	6.0		4.6	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.4	11	34	10	1	3%	4.4		3.4	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.4	8	40	10	0	0%	3.0		2.4	
	Ottawa River	18000017002	Ottawa River, Chats Falls	1	6.2	42	10	0	0%	2.5		2.3	
		ORS-100.20	Woolsey Narrows/Ottawa River	0.4	6	38	10	0	0%	1.8		1.5	
		ORS-210.10	Deschenes Rapids/Ottawa River	0.4	6	37	10	0	0%	2.3		2.1	
		ORS-210.30	Deschenes Rapids/Ottawa River	1	6	37	10	0	0%	2.5		2.2	
		ORS-210.40	Deschenes Rapids/Ottawa River	0.4	7	37	10	0	0%	2.5		2.1	
		ORS-430.10	Upper Duck Island/Ottawa River	0.4	7	41	10	0	0%	2.7		2.4	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.4	7	41	10	0	0%	2.9		2.4	
		ORS-430.60	Kettle Island/Ottawa River	0.4	5	41	10	0	0%	2.8		2.5	
		ORS-430.70	Kettle Island/Ottawa River	1	7	41	10	0	0%	3.0		2.7	
		ORS-450.10	Hiawatha/Ottawa River	0.4	9	24	10	0	0%	4.0		3.6	
		ORS-450.20	Hiawatha/Ottawa River	0.4	7	23	10	0	0%	2.8		2.4	
		ORS-450.30	Hiawatha/Ottawa River	0.4	6	24	10	0	0%	2.9		2.5	
		ORS-450.40	Hiawatha/Ottawa River	1	5	24	10	0	0%	3.1		2.9	
		ORS-500.10	Petrie Island/Ottawa River	0.4	9	40	10	0	0%	3.6		3.1	
		ORS-500.20	Petrie Island/Ottawa River	0.5	11	41	10	1	2%	3.1		2.6	
		ORS-500.50	Petrie Island/Ottawa River	1	9	40	10	0	0%	3.4		2.9	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TSS (mg/L)									
				Min	Max	# of Samples	SSWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	1.5	51.2	29	10	3	10%	6.7		4.7	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	3	124	62	10	43	69%	22.7	YES	15.1	YES
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.4	28	72	10	4	6%	4.4		3.3	
		JR-02	Jock River, at Jockvale Rd.	0.4	12	75	10	2	3%	3.6		2.8	
		JR-05	Jock River, at Moodie Dr.	0.4	15	68	10	4	6%	4.9		4.2	
		JR-12	Jock River, at Ottawa St., Richmond	0.4	45	57	10	2	4%	3.7		2.4	
		JR-20	Jock River, at Bleeks Side Rd.	1	22	65	10	4	6%	4.2		3.2	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	1	16	30	10	1	3%	3.4		2.8	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	2	192	30	10	20	67%	17.9	YES	8.0	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.4	14	86	10	1	1%	2.8		2.1	
KEM-01		Kemptville Creek @ Hwy. 43 (Kemptville)	0.8	8	30	10	0	0%	3.3		2.7		
KEM-04		Kemptville Creek @ Hurd Street (Kemptville)	0.8	6	31	10	0	0%	2.3		1.9		
KEM-06		Kemptville Creek @ County Road 18 d/s Oxford Mills	0.8	7	31	10	0	0%	1.9		1.6		
KEM-07		Kemptville Creek @ Oxford Mills	0.8	8	31	10	0	0%	2.0		1.6		
KEM-08		Kemptville Creek @ Pattersons Corners	0.8	10	23	10	0	0%	2.7		2.2		
KEM-09		Kemptville Creek @ County Road 20	0.8	50	31	10	4	13%	5.6		2.7		
KEM-10		Kemptville Creek @ Limerick Road	0.8	14	31	10	1	3%	2.9		2.3		
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.9	4.8	30	10	0	0%	2.2		2.0		
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.7	7.5	30	10	0	0%	2.5		2.2		
	18003303402	Rideau River, St. Patrick St, Ottawa	0.5	7	30	10	0	0%	2.4		1.9		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.5	6.5	30	10	0	0%	1.8		1.5		
	ARC-01	Arcand Drain @ County Road 19	0.8	21	28	10	12	43%	4.6		3.5		
	BRA-01	Brassils Creek @ Donnelly Drive	0.8	7	31	10	0	0%	2.4		2.0		
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	1	91	66	10	28	42%	12.4	YES	8.8		
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	1	45	79	10	45	57%	13.5	YES	10.7	YES	
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.4	85	83	10	18	22%	10.5	YES	5.5		
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	2	99	81	10	52	64%	18.3	YES	13.6	YES	
CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.4	59	78	10	45	58%	17.5	YES	13.0	YES		
CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	4	171	69	10	47	68%	24.1	YES	16.7	YES		
CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	3	90	50	10	11	22%	10.1	YES	7.5			
CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	2	140	70	10	18	26%	10.0		7.1			
CK19-10	Hunt Club Creek, at Country Club Rd.	1	67	74	10	10	14%	8.9		5.4			
CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.4	154	81	10	5	6%	6.8		2.7			
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	1	35	67	10	20	30%	9.3		7.8			
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.4	65	61	10	21	34%	14.2	YES	6.7			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TSS (mg/L)									
				Min	Max	# of Samples	SSWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	1	51	57	10	14	25%	8.9		6.1	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	1	56	63	10	10	16%	7.7		5.4	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.4	32	67	10	16	24%	8.5		6.3	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	2	127	63	10	23	37%	13.8	YES	8.8	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	1	58	62	10	19	31%	10.1	YES	6.8	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.4	12	62	10	1	2%	1.9		1.3	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	0.4	45	60	10	8	13%	6.9		4.2	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.4	7	77	10	0	0%	2.2		1.7	
		MCD-02	McDermott Drain @ County Road 19	0.8	22	28	10	6	21%	6.1		4.4	
		MCD-03	McDermott Drain @ County Road 19	2	41	21	10	5	24%	10.3	YES	7.7	
		MUR-01	Murphy Drain @ County Road 22	1	20	30	10	3	10%	5.6		4.4	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.4	67	68	10	7	10%	5.6		2.7	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.4	59	85	10	7	8%	4.8		2.8	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.4	46	58	10	4	7%	5.2		3.2	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.4	73	63	10	11	17%	7.2		3.7	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.4	19	69	10	1	1%	3.1		2.5	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.4	29	86	10	8	9%	3.7		2.2	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.4	16	66	10	1	2%	3.2		2.6	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstre	0.4	12	88	10	3	3%	3.0		2.3	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.4	5	37	10	2	5%	1.8		1.5	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.5	30.4	30	10	3	10%	3.9		2.1	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.7	7	30	10	0	0%	2.4		2.1	
		BAR-01	Barbers Creek @ County Road 16	1	45	32	10	3	9%	7.1		5.0	
		COC-02	Cockburn Creek @ Hwy. 43	0.8	9	31	10	0	0%	4.5		3.8	
		DAL-01	Dales Creek @ County Road 23	0.8	19	31	10	1	3%	3.4		2.7	
		HUT-02	Hutton Creek @ Townline Road	0.8	30	29	10	5	17%	6.5		4.6	
		IRI-02	Irish Creek @ County Road 15 (Jasper)	0.8	4	31	10	0	0%	2.1		1.8	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	1	18	31	10	4	13%	5.2		3.6	
		RCK-01	Rideau Creek @ Donnelly Drive	0.8	10	31	10	0	0%	3.4		3.0	
		ROS-01	Rosedale Creek @ Hwy. 43	5	160	31	10	22	71%	23.7	YES	16.0	YES
		RVL-26	Otter Lake										
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	2	79	18	10	7	39%	13.7	YES	7.8	
		BLA-01	Black Creek in Murphys Pt. Prov. Park	0.8	8	22	10	0	0%	2.9		2.4	
		RVL-11	Black Lake										
		RVL-12	Burridge Lake										
		RVL-13	Long Lake (East)										
		RVL-14	Westport Sand Lake										
		RVL-27	Wolfe Lake										
		RVL-32	Adam Lake										
		RVL-33	Round Lake										
		RVL-34	Loon Lake										

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TSS (mg/L)										
				Min	Max	# of Samples	SSWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		RVL-35	Bass Lake											
		RVL-36	Big Rideau Lake, Hoggs Bay											
		RVL-37	Upper Rideau Lake											
		RVL-38	Lower Rideau Lake											
		RVL-39	Big Rideau Lake											
		SHE-01	Sheldons Creek @ Old Kingston Road	1	18	17	10	1	6%	4.4			3.4	
		WES-01	Westport Dam	0.8	149	16	10	1	6%	12.1	YES		3.3	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.7	4.5	29	10	0	0%	2.5			2.3	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.5	2.5	30	10	0	0%	1.3			1.2	
		EAG-01	Eagle Creek u/s Bobs Lake	0.8	7	21	10	0	0%	2.6			2.0	
		FIS-01	Fish Creek	0.8	5	7	10	0	0%	2.7			2.3	
		FIS-03	Fish Creek @ County Road 38	0.8	8	22	10	0	0%	3.0			2.4	
		FIS-A	Fish Creek u/s Bobs Lake	0.8	6	13	10	0	0%	2.6			2.1	
		GRT-01	Grants Creek @ Glen Tay Road	0.8	760	31	10	7	23%	30.0	YES		4.6	
		GRT-02	Grants Creek @ Upper Scotch Line	0.8	7	32	10	0	0%	2.5			2.2	
		GRT-03	Grants Creek @ County Road 10	0.8	7	31	10	0	0%	2.6			2.2	
		GRT-04	Grants Creek @ Pike Lake Dam	0.8	8	31	10	0	0%	2.7			2.3	
		GRT-05	Grants Creek d/s Upper Scotch Line	1	14	16	10	1	6%	4.3			3.3	
		JEB-01	Jebbs Creek @ County Road 1	0.8	5	31	10	0	0%	2.1			1.9	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	0.8	0.8	27	10	0	0%	3.2			2.6	
		RVL-01	Pike Lake											
		RVL-02	O'Brien Lake											
		RVL-03	Farren Lake											
		RVL-04	Crosby Lake											
		RVL-05	Little Crosby Lake											
		RVL-06	Davern Lake											
		RVL-07	Little Silver Lake											
		RVL-08	Rainbow Lake											
		RVL-09	Eagle Lake											
		RVL-10	Otty Lake											
		RVL-16	Bob's Lake, Buck Bay											
		RVL-17	Bob's Lake, Green Bay											
		RVL-18	Bob's Lake, West Basin											
		RVL-19	Bob's Lake, Mud Bay											
		RVL-20	Bob's Lake, Norris Bay											
		RVL-21	Bob's Lake, E. Basin, Long Bay											
		RVL-22	Bob's Lake, C. Narrows											
		RVL-23	Bob's Lake, Mill Bay											
		RVL-24	Crow Lake											
		RVL-25	Christie Lake											
		RVL-28	Leggatt Lake											
		RVL-29	Long Lake (West)											

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	TSS (mg/L)										
				Min	Max	# of Samples	SSWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		RVL-30	Elbow Lake											
		RVL-31	Carnahan Lake											
		SNY-03	Scotts Snye @ Upper Scotch Line	1	5	21	10	0	0%	2.0		1.7		
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.8	8	21	10	0	0%	3.1		2.4		
		TAY-01	Tay River @ Port Elmsley	0.8	5	32	10	0	0%	2.5		2.2		
		TAY-04	Tay River @ Rogers Road (Perth)	1	5	32	10	0	0%	2.8		2.5		
		TAY-05	Tay River @ Glen Tay	0.8	5	31	10	0	0%	2.4		2.1		
		TAY-08	Tay River @ Gore Street (Perth)	0.8	8	34	10	0	0%	2.7		2.4		
		TAY-09	Tay River @ Adams Pond	0.8	5	31	10	0	0%	2.2		1.9		
		TAY-11	Tay River u/s of Tay Marsh	0.8	9	30	10	0	0%	3.2		2.8		
		TAY-15	Tay River d/s of Christie Lake	0.8	4	30	10	0	0%	1.9		1.7		
		TAY-16	Tay River @ Bolingbroke	0.8	4	30	10	0	0%	1.9		1.7		
		TAY-19	Tay River @ Craig St. (Perth)	0.8	17	32	10	1	3%	3.0		2.4		
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	1	5	17	10	0	0%	2.6		2.3		

- Notes:** CCME - Canadian Council of Ministers of the Environment  
 CWQG - Canadian Water Quality Guidelines, CCME  
 EC - Environment Canada  
 MOE - Ontario Ministry of the Environment  
 MVC WW - Mississippi Valley Conservation - Watershed Watch  
 ODWQS - Ontario Drinking Water Quality Standards, MOE  
 ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE  
 Ottawa - City of Ottawa - Surface Water Quality Monitoring  
 PWQMN - Provincial Water Quality Monitoring Network  
 PWQO - Provincial Water Quality Objectives, MOE  
 RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring  
 RVCA WW - Rideau Valley Conservation Authority - Watershed Watch  
 SSWQO - Saskatchewan Surface Water Quality Objectives
- 1 - PWQO criteria for pH must be between the range of 6.5 - 8.5  
 2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Copper (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin											
		19343072901	Big Gull (Clarendon) Lake, Main Basin											
		19343072801	Big Gull (Clarendon) Lake, West Basin											
Buckshot Creek		18343077201	Blue Lake											
		18343070401	Buckshot (Indian) Lake											
		18343070801	Grindstone Lake, North Basin											
		18343070901	Grindstone Lake, South Basin											
		18343072101	Sand Lake											
		18343072201	Shabomeka (Buck) Lake											
		19343072301	Shawenegog (McClintock) Lake, North Basin											
		19343072401	Shawenegog (McClintock) Lake, South Basin											
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	0.0008	0.00211	33	0.005	0	0%	0.0008		0.0008		
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	0.0008	0.00319	33	0.005	0	0%	0.0010		0.0009		
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.00025	0.0119	59	0.005	5	8%	0.0025		0.0018		
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.00025	0.0716	59	0.005	10	17%	0.0045		0.0023		
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.00025	0.0133	59	0.005	10	17%	0.0030		0.0021		
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	0.00025	0.0124	57	0.005	7	12%	0.0028		0.0019		
		CK70-05	Poole Creek, Stittsville Main St	0.00025	0.0161	77	0.005	16	21%	0.0036		0.0024		
Clyde River		18343052002	At dam, downstream of Lanark	0.0008	0.0008	35	0.005	0	0%	0.0008		0.0008		
		18343053002	Kerr Lake outlet, upstream of Lanark	0.0008	0.0008	33	0.005	0	0%	0.0008		0.0008		
		18343070501	Canonto Lake (North & South Basins)											
		19343074901	Clyde Lake											
		19343075001	Flower Round Lake											
		19343076001	Horne Lake											
		19343076401	Joes Lake											
		18343074301	Palmerston Lake (North & South Basins)											
		19343076501	Paddys Lake											
		19343075901	Upper Park Lake											
		19343070101	Robertson Lake											
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.0008	0.00267	36	0.005	0	0%	0.0009		0.0008		
		19343073401	Dalhousie Lake											
		19343073501	Mississippi Lake, Big Lake											
		19343001401	Mississippi Lake, Second Lake											
		18343075301	Patterson Lake											
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.0008	0.0417	36	0.005	1	3%	0.0020		0.0009		

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Copper (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		18343072701	Bennett Lake (North & South Basins)											
		Unknown	Black Lake											
		18343074801	Clear Lake											
		18343073601	Sharbot Lake, East Basin											
		18343072501	Sharbot Lake, Main Basin											
		18343074501	Sharbot Lake, South-West Basin											
		18343074401	Sharbot Lake, West Basin											
		18343072601	Silver Lake											
		18343074601	White Lake											
	Indian River	19343073101	Clayton Lake											
		19343077101	Taylor Lake											
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	0.0008	0.0008	31	0.005	0	0%	0.0008		0.0008		
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.0008	0.0008	36	0.005	0	0%	0.0008		0.0008		
		18343004002	Mississippi River, Almonte St, Almonte	0.0008	0.00192	36	0.005	0	0%	0.0008		0.0008		
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.0008	0.0008	36	0.005	0	0%	0.0008		0.0008		
		CK3-01	Cody Creek, at Hansen Side Rd.	0.00025	0.0123	55	0.005	6	11%	0.0030		0.0025		
		CK3-03	Cody Creek, at Highway 44, E of Road 10	0.00025	0.023	24	0.005	2	8%	0.0030		0.0013		
		CK3-04	Cody Creek, March Rd.	0.00025	0.0077	31	0.005	2	6%	0.0020		0.0012		
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	0.00025	0.0088	81	0.005	3	4%	0.0018		0.0013		
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.0008	0.0008	36	0.005	0	0%	0.0008		0.0008		
		18343071101	Kishkebus Lake											
		18343073901	Mackavoy Lake											
		18343071401	Marble Lake											
		19343074101	Mazinaw Lake, North Basin											
		19343073701	Mazinaw Lake, South Basin											
		Unknown	McCausland Lake											
		19343071601	Mississagagon Lake, East Basin											
		19343071501	Mississagagon Lake, West Basin											
	Upper Mississippi	18343070201	Ardoch (Green) Lake											
		18343073301	Crotch (Cross) Lake, North Basin											
		18343073201	Crotch (Cross) Lake, South Basin											
		18343070701	Fawn Lake											
		19343071001	Kashwakamak Lake, East Basin											
		19343073801	Kashwakamak Lake, West Basin											
		18343071301	Malcolm Lake											
		18343071901	Mosque Lake (North, South & West Basins)											
		18343072001	Pine Lake											
<b>Ottawa</b>	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.00025	0.0102	63	0.005	3	5%	0.0015		0.0009		



**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Copper (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	0.00025	0.0109	69	0.005	7	10%	0.0030		0.0023	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	0.00025	0.0084	65	0.005	8	12%	0.0026		0.0018	
		CK6-001	Watts Creek, at Shirley Blvd.	0.00025	0.0247	56	0.005	22	39%	0.0055	YES	0.0041	
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 174)	0.000702	0.0182	73	0.005	35	48%	0.0056	YES	0.0048	
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	0.00025	0.0124	52	0.005	9	17%	0.0035		0.0029	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.00025	0.0111	58	0.005	5	9%	0.0025		0.0017	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	0.00025	0.0092	37	0.005	2	5%	0.0015		0.0009	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	0.000981	0.0184	72	0.005	49	68%	0.0071	YES	0.0062	YES
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	0.00025	0.0149	72	0.005	35	49%	0.0057	YES	0.0048	
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.0025	0.0133	56	0.005	35	63%	0.0065	YES	0.0060	YES
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of R	0.00025	0.0153	54	0.005	8	15%	0.0032		0.0023	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	0.00025	0.033	78	0.005	42	54%	0.0067	YES	0.0052	YES
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	0.0005	0.0132	107	0.005	48	45%	0.0051	YES	0.0045	
		CK24-002	Cardinal Creek, Old Montreal Rd.	0.00025	0.0159	74	0.005	26	35%	0.0048		0.0041	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	0.00025	0.0153	53	0.005	19	36%	0.0046		0.0036	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	0.000522	0.038	71	0.005	30	42%	0.0063	YES	0.0050	YES
		MKL-01	MacKay Lake, deepest basin, NW portion of lake	0.00025	0.037	38	0.005	2	5%	0.0024		0.0010	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	0.00025	0.029	62	0.005	20	32%	0.0049		0.0038	
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	0.00025	0.0129	72	0.005	24	33%	0.0043		0.0034	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	0.00025	0.0139	67	0.005	15	22%	0.0039		0.0031	
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	0.00025	0.033	209	0.005	51	24%	0.0044		0.0000	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	0.00025	0.0155	39	0.005	3	8%	0.0020		0.0010	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.00121	0.0076	35	0.005	4	11%	0.0036		0.0032	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.00025	0.0057	41	0.005	1	2%	0.0025		0.0022	
	Ottawa River	18000017002	Ottawa River, Chats Falls	0.0008	0.00217	42	0.005	0	0%	0.0009		0.0009	
		ORS-100.20	Woolsey Narrows/Ottawa River	0.00025	0.0341	37	0.005	4	11%	0.0034		0.0017	
		ORS-210.10	Deschenes Rapids/Ottawa River	0.00025	0.029	36	0.005	5	14%	0.0030		0.0018	
		ORS-210.30	Deschenes Rapids/Ottawa River	0.00025	0.0062	36	0.005	1	3%	0.0021		0.0017	
		ORS-210.40	Deschenes Rapids/Ottawa River	0.00025	0.0059	36	0.005	1	3%	0.0020		0.0016	
		ORS-430.10	Upper Duck Island/Ottawa River	0.00025	0.0086	40	0.005	2	5%	0.0024		0.0018	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.00025	0.0082	40	0.005	2	5%	0.0021		0.0016	
		ORS-430.60	Kettle Island/Ottawa River	0.00025	0.0073	40	0.005	3	8%	0.0022		0.0015	
		ORS-430.70	Kettle Island/Ottawa River	0.00025	0.0068	40	0.005	2	5%	0.0019		0.0014	
		ORS-450.10	Hiawatha/Ottawa River	0.00025	0.0075	24	0.005	3	13%	0.0030		0.0024	
		ORS-450.20	Hiawatha/Ottawa River	0.00025	0.091	24	0.005	3	13%	0.0063	YES	0.0025	
		ORS-450.30	Hiawatha/Ottawa River	0.00025	0.0064	24	0.005	2	8%	0.0025		0.0020	
		ORS-450.40	Hiawatha/Ottawa River	0.00025	0.006	24	0.005	3	13%	0.0025		0.0021	
		ORS-500.10	Petrie Island/Ottawa River	0.00025	0.022	39	0.005	5	13%	0.0029		0.0018	
		ORS-500.20	Petrie Island/Ottawa River	0.00025	0.0083	40	0.005	3	8%	0.0021		0.0015	
		ORS-500.50	Petrie Island/Ottawa River	0.00025	0.0058	39	0.005	3	8%	0.0020		0.0014	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Copper (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	0.0008	0.0008	29	0.005	0	0%	0.0008		0.0008	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	0.00025	0.0182	60	0.005	11	18%	0.0037		0.0029	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.00025	0.0083	71	0.005	7	10%	0.0021		0.0014	
		JR-02	Jock River, at Jockvale Rd.	0.00025	0.0083	74	0.005	4	5%	0.0021		0.0015	
		JR-05	Jock River, at Moodie Dr.	0.00025	0.034	67	0.005	5	7%	0.0024		0.0014	
		JR-12	Jock River, at Ottawa St., Richmond	0.00025	0.0075	56	0.005	2	4%	0.0016		0.0011	
		JR-20	Jock River, at Bleeks Side Rd.	0.00025	0.0129	64	0.005	7	11%	0.0022		0.0015	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	0.0008	0.0008	30	0.005	0	0%	0.0008		0.0008	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	0.0008	0.0117	23	0.005	5	22%	0.0038		0.0031	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.00025	0.031	84	0.005	5	6%	0.0023		0.0013	
KEM-01		Kemptville Creek @ Hwy. 43 (Kemptville)	0.0005	0.0067	24	0.005	2	8%	0.0026		0.0021		
KEM-04		Kemptville Creek @ Hurd Street (Kemptville)	0.0005	0.0053	24	0.005	1	4%	0.0022		0.0019		
KEM-06		Kemptville Creek @ County Road 18 d/s Oxford Mills	0.0005	0.0057	24	0.005	1	4%	0.0022		0.0018		
KEM-07		Kemptville Creek @ Oxford Mills	0.0005	0.0052	24	0.005	1	4%	0.0021		0.0017		
KEM-08		Kemptville Creek @ Pattersons Corners	0.0005	0.0048	24	0.005	0	0%	0.0021		0.0018		
KEM-09		Kemptville Creek @ County Road 20	0.0005	0.0053	24	0.005	1	4%	0.0021		0.0017		
KEM-10		Kemptville Creek @ Limerick Road	0.0005	0.0078	24	0.005	1	4%	0.0023		0.0018		
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.0008	0.0018	30	0.005	0	0%	0.0008		0.0008		
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.0008	0.00184	30	0.005	0	0%	0.0008		0.0008		
	18003303402	Rideau River, St. Patrick St, Ottawa	0.0008	0.00213	30	0.005	0	0%	0.0008		0.0008		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.0008	0.0008	30	0.005	0	0%	0.0008		0.0008		
	ARC-01	Arcand Drain @ County Road 19	0.0005	0.0065	22	0.005	5	23%	0.0033		0.0026		
	BRA-01	Brassils Creek @ Donnelly Drive	0.0005	0.0084	23	0.005	3	13%	0.0026		0.0019		
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	0.00025	0.0144	65	0.005	7	11%	0.0035		0.0025		
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	0.00025	0.02	78	0.005	29	37%	0.0052	YES	0.0043		
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.00025	0.0119	81	0.005	8	10%	0.0024		0.0017		
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	0.001	0.0164	79	0.005	23	29%	0.0044		0.0039		
CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.0006	0.02	76	0.005	30	39%	0.0051	YES	0.0042			
CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	0.0011	0.0184	67	0.005	34	51%	0.0059	YES	0.0051	YES		
CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	0.0012	0.021	48	0.005	13	27%	0.0046		0.0039			
CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	0.00025	0.022	68	0.005	15	22%	0.0040		0.0029			
CK19-10	Hunt Club Creek, at Country Club Rd.	0.00025	0.056	72	0.005	19	26%	0.0047		0.0029			
CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.00025	0.025	79	0.005	16	20%	0.0033		0.0021			
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	0.00025	0.00683	65	0.005	7	11%	0.0028		0.0022			
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.00025	0.0087	59	0.005	7	12%	0.0032		0.0024			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Copper (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	0.00025	0.006	55	0.005	3	5%	0.0024		0.0018	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	0.00025	0.0126	61	0.005	9	15%	0.0034		0.0024	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.00025	0.006	64	0.005	5	8%	0.0023		0.0016	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	0.00025	0.029	61	0.005	15	25%	0.0040		0.0029	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	0.00025	0.0076	59	0.005	5	8%	0.0026		0.0018	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.00025	0.033	60	0.005	1	2%	0.0019		0.0009	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	0.00025	0.011	58	0.005	4	7%	0.0022		0.0014	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.00025	0.0103	75	0.005	7	9%	0.0021		0.0013	
		MCD-02	McDermott Drain @ County Road 19	0.0005	0.0071	22	0.005	4	18%	0.0028		0.0022	
		MCD-03	McDermott Drain @ County Road 19	0.0015	0.0088	21	0.005	4	19%	0.0039		0.0035	
		MUR-01	Murphy Drain @ County Road 22	0.0005	0.0064	22	0.005	4	18%	0.0030		0.0025	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.00025	0.0095	66	0.005	5	8%	0.0025		0.0018	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.00025	0.0128	83	0.005	6	7%	0.0023		0.0015	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.00025	0.0113	56	0.005	6	11%	0.0026		0.0017	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.00025	0.0132	61	0.005	7	11%	0.0026		0.0016	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.00025	0.0094	67	0.005	5	7%	0.0020		0.0012	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.00025	0.0193	83	0.005	6	7%	0.0022		0.0013	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.00025	0.0071	63	0.005	4	6%	0.0018		0.0012	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstre	0.00025	0.0342	85	0.005	7	8%	0.0024		0.0014	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.00025	0.0082	35	0.005	3	9%	0.0022		0.0015	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.0008	0.0008	30	0.005	0	0%	0.0008		0.0008	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.0008	0.0008	30	0.005	0	0%	0.0008		0.0008	
		BAR-01	Barbers Creek @ County Road 16	0.0005	0.0064	24	0.005	3	13%	0.0026		0.0022	
		COC-02	Cockburn Creek @ Hwy. 43	0.0011	0.0067	23	0.005	5	22%	0.0034		0.0031	
		DAL-01	Dales Creek @ County Road 23	0.0005	0.0061	23	0.005	2	9%	0.0024		0.0020	
		HUT-02	Hutton Creek @ Townline Road	0.0005	0.0005	21	0.005	2	10%	0.0024		0.0018	
		IRI-02	Irish Creek @ County Road 15 (Jasper)	0.0005	0.0117	23	0.005	1	4%	0.0023		0.0017	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	0.0005	0.0044	23	0.005	0	0%	0.0022		0.0018	
		RCK-01	Rideau Creek @ Donnelly Drive	0.0005	0.0123	23	0.005	3	13%	0.0027		0.0020	
		ROS-01	Rosedale Creek @ Hwy. 43	0.0007	0.0093	23	0.005	5	22%	0.0036		0.0031	
		RVL-26	Otter Lake										
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	0.0009	0.009	18	0.005	1	6%	0.0025		0.0021	
		BLA-01	Black Creek in Murphys Pt. Prov. Park	0.0005	0.0073	22	0.005	1	5%	0.0018		0.0015	
		RVL-11	Black Lake										
		RVL-12	Burridge Lake										
		RVL-13	Long Lake (East)										
		RVL-14	Westport Sand Lake										
		RVL-27	Wolfe Lake										
		RVL-32	Adam Lake										
		RVL-33	Round Lake										
		RVL-34	Loon Lake										

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Copper (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		RVL-35	Bass Lake											
		RVL-36	Big Rideau Lake, Hoggs Bay											
		RVL-37	Upper Rideau Lake											
		RVL-38	Lower Rideau Lake											
		RVL-39	Big Rideau Lake											
		SHE-01	Sheldons Creek @ Old Kingston Road	0.0007	0.0084	18	0.005	1	6%	0.0023			0.0019	
		WES-01	Westport Dam	0.0005	0.0067	17	0.005	1	6%	0.0017			0.0013	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.0008	0.0008	28	0.005	0	0%	0.0008			0.0008	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.0008	0.0008	30	0.005	0	0%	0.0008			0.0008	
		EAG-01	Eagle Creek u/s Bobs Lake	0.0005	0.0055	21	0.005	1	5%	0.0016			0.0013	
		FIS-01	Fish Creek	0.0005	0.0052	7	0.005	1	14%	0.0020			0.0016	
		FIS-03	Fish Creek @ County Road 38	0.0005	0.0055	22	0.005	1	5%	0.0015			0.0013	
		FIS-A	Fish Creek u/s Bobs Lake	0.0005	0.0021	13	0.005	0	0%	0.0011			0.0009	
		GRT-01	Grants Creek @ Glen Tay Road	0.0005	0.0114	22	0.005	2	9%	0.0029			0.0022	
		GRT-02	Grants Creek @ Upper Scotch Line	0.0005	0.0095	22	0.005	1	5%	0.0022			0.0018	
		GRT-03	Grants Creek @ County Road 10	0.0005	0.0085	22	0.005	1	5%	0.0020			0.0016	
		GRT-04	Grants Creek @ Pike Lake Dam	0.0005	0.0088	22	0.005	1	5%	0.0021			0.0016	
		GRT-05	Grants Creek d/s Upper Scotch Line	0.0005	0.0091	17	0.005	1	6%	0.0025			0.0020	
		JEB-01	Jebbs Creek @ County Road 1	0.0005	0.0034	22	0.005	0	0%	0.0016			0.0013	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	0.0005	0.0082	21	0.005	1	5%	0.0022			0.0018	
		RVL-01	Pike Lake											
		RVL-02	O'Brien Lake											
		RVL-03	Farren Lake											
		RVL-04	Crosby Lake											
		RVL-05	Little Crosby Lake											
		RVL-06	Davern Lake											
		RVL-07	Little Silver Lake											
		RVL-08	Rainbow Lake											
		RVL-09	Eagle Lake											
		RVL-10	Otty Lake											
		RVL-16	Bob's Lake, Buck Bay											
		RVL-17	Bob's Lake, Green Bay											
		RVL-18	Bob's Lake, West Basin											
		RVL-19	Bob's Lake, Mud Bay											
		RVL-20	Bob's Lake, Norris Bay											
		RVL-21	Bob's Lake, E. Basin, Long Bay											
		RVL-22	Bob's Lake, C. Narrows											
		RVL-23	Bob's Lake, Mill Bay											
		RVL-24	Crow Lake											
		RVL-25	Christie Lake											
		RVL-28	Leggatt Lake											
		RVL-29	Long Lake (West)											

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Copper (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		RVL-30	Elbow Lake											
		RVL-31	Carnahan Lake											
		SNY-03	Scotts Snye @ Upper Scotch Line	0.0005	0.0079	22	0.005	1	5%	0.0021		0.0016		
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.0005	0.014	21	0.005	1	5%	0.0019		0.0012		
		TAY-01	Tay River @ Port Elmsley	0.0005	0.0044	23	0.005	0	0%	0.0019		0.0016		
		TAY-04	Tay River @ Rogers Road (Perth)	0.0005	0.0042	23	0.005	0	0%	0.0019		0.0016		
		TAY-05	Tay River @ Glen Tay	0.0005	0.0076	23	0.005	2	9%	0.0022		0.0017		
		TAY-08	Tay River @ Gore Street (Perth)	0.0005	0.0044	25	0.005	0	0%	0.0019		0.0015		
		TAY-09	Tay River @ Adams Pond	0.0005	0.0116	22	0.005	2	9%	0.0025		0.0018		
		TAY-11	Tay River u/s of Tay Marsh	0.0005	0.0037	23	0.005	0	0%	0.0018		0.0015		
		TAY-15	Tay River d/s of Christie Lake	0.0005	0.0067	20	0.005	1	5%	0.0019		0.0015		
		TAY-16	Tay River @ Bolingbroke	0.0005	0.0068	22	0.005	1	5%	0.0018		0.0014		
		TAY-19	Tay River @ Craig St. (Perth)	0.0005	0.0047	22	0.005	0	0%	0.0019		0.0016		
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	0.0005	0.0065	17	0.005	2	12%	0.0019		0.0014		

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Lead (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin										
		19343072901	Big Gull (Clarendon) Lake, Main Basin										
		19343072801	Big Gull (Clarendon) Lake, West Basin										
Buckshot Creek		18343077201	Blue Lake										
		18343070401	Buckshot (Indian) Lake										
		18343070801	Grindstone Lake, North Basin										
		18343070901	Grindstone Lake, South Basin										
		18343072101	Sand Lake										
		18343072201	Shabomeka (Buck) Lake										
		19343072301	Shawenegog (McClintock) Lake, North Basin										
		19343072401	Shawenegog (McClintock) Lake, South Basin										
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	0.005	0.012	33	0.005 - 0.025	0	0%	0.0054		0.0053	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	0.005	0.0165	33	0.005 - 0.025	0	0%	0.0053		0.0052	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.0005	0.0026	59	0.005 - 0.025	0	0%	0.0006		0.0006	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.0005	0.002	59	0.005 - 0.025	0	0%	0.0006		0.0005	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.0005	0.00225	59	0.005 - 0.025	0	0%	0.0006		0.0006	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	0.0005	0.003	57	0.005 - 0.025	0	0%	0.0006		0.0006	
		CK70-05	Poole Creek, Stittsville Main St	0.0005	0.00239	77	0.005 - 0.025	0	0%	0.0006		0.0006	
Clyde River		18343052002	At dam, downstream of Lanark	0.005	0.016	35	0.005 - 0.025	0	0%	0.0055		0.0053	
		18343053002	Kerr Lake outlet, upstream of Lanark	0.005	0.0195	33	0.005 - 0.025	0	0%	0.0056		0.0053	
		18343070501	Canonto Lake (North & South Basins)										
		19343074901	Clyde Lake										
		19343075001	Flower Round Lake										
		19343076001	Horne Lake										
		19343076401	Joes Lake										
		18343074301	Palmerston Lake (North & South Basins)										
		19343076501	Paddys Lake										
		19343075901	Upper Park Lake										
		19343070101	Robertson Lake										
		19343003601	Sunday Lake										
19343076301	Widow Lake												
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.005	0.0125	36	0.005 - 0.025	0	0%	0.0052		0.0051	
		19343073401	Dalhousie Lake										
		19343073501	Mississippi Lake, Big Lake										
		19343001401	Mississippi Lake, Second Lake										
		18343075301	Patterson Lake										
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.005	0.005	36	0.005 - 0.025	0	0%	0.0050		0.0050	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Lead (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean		
		18343072701	Bennett Lake (North & South Basins)											
		Unknown	Black Lake											
		18343074801	Clear Lake											
		18343073601	Sharbot Lake, East Basin											
		18343072501	Sharbot Lake, Main Basin											
		18343074501	Sharbot Lake, South-West Basin											
		18343074401	Sharbot Lake, West Basin											
		18343072601	Silver Lake											
		18343074601	White Lake											
	Indian River	19343073101	Clayton Lake											
		19343077101	Taylor Lake											
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	0.005	0.0138	31	0.005 - 0.025	0	0%	0.0053			0.0052	
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.005	0.0128	36	0.005 - 0.025	0	0%	0.0052			0.0051	
		18343004002	Mississippi River, Almonte St, Almonte	0.005	0.0125	36	0.005 - 0.025	0	0%	0.0054			0.0052	
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.005	0.005	36	0.005 - 0.025	0	0%	0.0050			0.0050	
		CK3-01	Cody Creek, at Hansen Side Rd.	0.0005	0.00468	55	0.005 - 0.025	0	0%	0.0007			0.0006	
		CK3-03	Cody Creek, at Highway 44, E of Road 10	0.0005	0.00205	24	0.005 - 0.025	0	0%	0.0008			0.0007	
		CK3-04	Cody Creek, March Rd.	0.0005	0.0005	31	0.005 - 0.025	0	0%	0.0005			0.0005	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	0.0005	0.00224	81	0.005 - 0.025	0	0%	0.0006			0.0006	
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.005	0.0205	36	0.005 - 0.025	1	3%	0.0054			0.0052	
		18343071101	Kishkebus Lake											
		18343073901	Mackavoy Lake											
		18343071401	Marble Lake											
		19343074101	Mazinaw Lake, North Basin											
		19343073701	Mazinaw Lake, South Basin											
		Unknown	McCausland Lake											
		19343071601	Mississagagon Lake, East Basin											
		19343071501	Mississagagon Lake, West Basin											
	Upper Mississippi	18343070201	Ardoch (Green) Lake											
		18343073301	Crotch (Cross) Lake, North Basin											
		18343073201	Crotch (Cross) Lake, South Basin											
		18343070701	Fawn Lake											
		19343071001	Kashwakamak Lake, East Basin											
		19343073801	Kashwakamak Lake, West Basin											
		18343071301	Malcolm Lake											
		18343071901	Mosque Lake (North, South & West Basins)											
		18343072001	Pine Lake											
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.0005	0.0038	58	0.005 - 0.025	0	0%	0.0007			0.0006	

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Lead (mg/L)								
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	0.0005	0.0084	69	0.005 - 0.025	0	0%	0.0007		0.0006
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	0.0005	0.004	65	0.005 - 0.025	0	0%	0.0006		0.0006
		CK6-001	Watts Creek, at Shirley Blvd.	0.0005	0.00285	56	0.005 - 0.025	0	0%	0.0006		0.0006
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 34)	0.0005	0.007	73	0.005 - 0.025	0	0%	0.0009		0.0007
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	0.0005	0.00242	52	0.005 - 0.025	0	0%	0.0006		0.0006
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.0005	0.00369	58	0.005 - 0.025	0	0%	0.0006		0.0006
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	0.0005	0.00282	37	0.005 - 0.025	0	0%	0.0006		0.0005
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	0.0005	0.005	66	0.005 - 0.025	0	0%	0.0009		0.0007
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	0.0005	0.006	66	0.005 - 0.025	0	0%	0.0011		0.0007
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.0005	0.00328	56	0.005 - 0.025	0	0%	0.0006		0.0005
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of F	0.0005	0.005	54	0.005 - 0.025	0	0%	0.0009		0.0007
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	0.0005	0.013	70	0.005 - 0.025	0	0%	0.0011		0.0007
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	0.0005	0.0121	68	0.005 - 0.025	0	0%	0.0011		0.0007
		CK24-002	Cardinal Creek, Old Montreal Rd.	0.0005	0.039	60	0.005 - 0.025	1	2%	0.0013		0.0006
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	0.0005	0.0124	53	0.005 - 0.025	0	0%	0.0009		0.0006
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	0.0005	0.012	71	0.005 - 0.025	0	0%	0.0010		0.0006
		MKL-01	Mackay Lake, deepest basin, NW portion of lake	0.0005	0.002	38	0.005 - 0.025	0	0%	0.0006		0.0006
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	0.0005	0.005	62	0.005 - 0.025	0	0%	0.0007		0.0006
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	0.0005	0.0201	72	0.005 - 0.025	0	0%	0.0012		0.0007
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	0.0005	0.00839	67	0.005 - 0.025	0	0%	0.0007		0.0006
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	0.0005	0.013	66	0.005 - 0.025	0	0%	0.0016		0.0009
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	0.0005	0.002	39	0.005 - 0.025	0	0%	0.0007		0.0006
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.0005	0.00425	35	0.005 - 0.025	0	0%	0.0012		0.0009
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.0005	0.00341	41	0.005 - 0.025	0	0%	0.0007		0.0006
	Ottawa River	18000017002	Ottawa River, Chats Falls	0.005	0.012	42	0.005 - 0.025	1	2%	0.0052		0.0051
		ORS-100.20	Woolsey Narrows/Ottawa River	0.0005	0.005	37	0.005 - 0.025	0	0%	0.0008		0.0007
		ORS-210.10	Deschenes Rapids/Ottawa River	0.0005	0.005	36	0.005 - 0.025	0	0%	0.0007		0.0006
		ORS-210.30	Deschenes Rapids/Ottawa River	0.0005	0.005	36	0.005 - 0.025	0	0%	0.0007		0.0006
		ORS-210.40	Deschenes Rapids/Ottawa River	0.0005	0.005	36	0.005 - 0.025	0	0%	0.0007		0.0006
		ORS-430.10	Upper Duck Island/Ottawa River	0.0005	0.005	40	0.005 - 0.025	0	0%	0.0006		0.0005
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.0005	0.005	40	0.005 - 0.025	0	0%	0.0007		0.0006
		ORS-430.60	Kettle Island/Ottawa River	0.0005	0.005	40	0.005 - 0.025	0	0%	0.0007		0.0006
		ORS-430.70	Kettle Island/Ottawa River	0.0005	0.005	40	0.005 - 0.025	0	0%	0.0007		0.0006
		ORS-450.10	Hiawatha/Ottawa River	0.0005	0.0005	24	0.005 - 0.025	0	0%	0.0005		0.0005
		ORS-450.20	Hiawatha/Ottawa River	0.0005	0.002	24	0.005 - 0.025	0	0%	0.0006		0.0005
		ORS-450.30	Hiawatha/Ottawa River	0.0005	0.004	24	0.005 - 0.025	0	0%	0.0006		0.0005
		ORS-450.40	Hiawatha/Ottawa River	0.0005	0.0005	24	0.005 - 0.025	0	0%	0.0005		0.0005
		ORS-500.10	Petrie Island/Ottawa River	0.0005	0.043	39	0.005 - 0.025	1	3%	0.0021		0.0007
		ORS-500.20	Petrie Island/Ottawa River	0.0005	0.005	40	0.005 - 0.025	0	0%	0.0007		0.0006
		ORS-500.50	Petrie Island/Ottawa River	0.0005	0.005	39	0.005 - 0.025	0	0%	0.0006		0.0005



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Lead (mg/L)								
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	0.005	0.005	29	0.005 - 0.025	0	0%	0.0050		0.0050
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	0.0005	0.00706	60	0.005 - 0.025	0	0%	0.0007		0.0006
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.0005	0.00232	71	0.005 - 0.025	0	0%	0.0006		0.0006
		JR-02	Jock River, at Jockvale Rd.	0.0005	0.0036	74	0.005 - 0.025	0	0%	0.0007		0.0006
		JR-05	Jock River, at Moodie Dr.	0.0005	0.00302	67	0.005 - 0.025	0	0%	0.0006		0.0006
		JR-12	Jock River, at Ottawa St., Richmond	0.0005	0.005	56	0.005 - 0.025	0	0%	0.0007		0.0006
		JR-20	Jock River, at Bleeks Side Rd.	0.0005	0.007	64	0.005 - 0.025	0	0%	0.0008		0.0006
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	0.005	0.0207	30	0.005 - 0.025	0	0%	0.0055		0.0052
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	0.001	0.018	23	0.005 - 0.025	0	0%	0.0025		0.0013
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.0005	0.00377	84	0.005 - 0.025	0	0%	0.0006		0.0006
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010
		KEM-07	Kemptville Creek @ Oxford Mills	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010
KEM-08		Kemptville Creek @ Pattersons Corners	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010	
KEM-09		Kemptville Creek @ County Road 20	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010	
KEM-10		Kemptville Creek @ Limerick Road	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010	
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.005	0.005	30	0.005 - 0.025	0	0%	0.0050		0.0050	
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.005	0.005	30	0.005 - 0.025	0	0%	0.0050		0.0050	
	18003303402	Rideau River, St. Patrick St, Ottawa	0.005	0.005	30	0.005 - 0.025	0	0%	0.0050		0.0050	
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.005	0.005	30	0.005 - 0.025	0	0%	0.0050		0.0050	
	ARC-01	Arcand Drain @ County Road 19	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010		0.0010	
	BRA-01	Brassils Creek @ Donnelly Drive	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010		0.0010	
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	0.0005	0.00629	65	0.005 - 0.025	0	0%	0.0008		0.0006	
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	0.0005	0.00802	78	0.005 - 0.025	0	0%	0.0012		0.0009	
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.0005	0.00333	81	0.005 - 0.025	0	0%	0.0007		0.0006	
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	0.0005	0.015	79	0.005 - 0.025	0	0%	0.0012		0.0008	
	CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.0005	0.009	76	0.005 - 0.025	0	0%	0.0012		0.0009	
	CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	0.0005	0.013	67	0.005 - 0.025	0	0%	0.0011		0.0007	
	CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	0.0005	0.016	48	0.005 - 0.025	0	0%	0.0010		0.0006	
	CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	0.0005	0.023	68	0.005 - 0.025	0	0%	0.0011		0.0007	
	CK19-10	Hunt Club Creek, at Country Club Rd.	0.0005	0.008	72	0.005 - 0.025	0	0%	0.0012		0.0008	
	CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.0005	0.021	79	0.005 - 0.025	0	0%	0.0009		0.0006	
	CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	0.0005	0.002	65	0.005 - 0.025	0	0%	0.0006		0.0005	
	CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.0005	0.00331	59	0.005 - 0.025	0	0%	0.0006		0.0006	

**Table A-9**

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**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Lead (mg/L)								
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	0.0005	0.00322	55	0.005 - 0.025	0	0%	0.0007		0.0006
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	0.0005	0.001	61	0.005 - 0.025	0	0%	0.0005		0.0005
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.0005	0.00341	64	0.005 - 0.025	0	0%	0.0007		0.0006
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	0.0005	0.00338	61	0.005 - 0.025	0	0%	0.0007		0.0006
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	0.0005	0.0029	59	0.005 - 0.025	0	0%	0.0007		0.0006
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.0005	0.00231	60	0.005 - 0.025	0	0%	0.0006		0.0006
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	0.0005	0.00179	58	0.005 - 0.025	0	0%	0.0006		0.0006
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.0005	0.004	75	0.005 - 0.025	0	0%	0.0006		0.0006
		MCD-02	McDermott Drain @ County Road 19	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010		0.0010
		MCD-03	McDermott Drain @ County Road 19	0.001	0.002	21	0.005 - 0.025	0	0%	0.0010		0.0010
		MUR-01	Murphy Drain @ County Road 22	0.001	0.005	22	0.005 - 0.025	0	0%	0.0012		0.0011
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.0005	0.0041	66	0.005 - 0.025	0	0%	0.0006		0.0005
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.0005	0.0045	83	0.005 - 0.025	0	0%	0.0006		0.0006
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.0005	0.00867	56	0.005 - 0.025	0	0%	0.0007		0.0006
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.0005	0.00226	61	0.005 - 0.025	0	0%	0.0006		0.0006
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.0005	0.003	67	0.005 - 0.025	0	0%	0.0006		0.0006
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.0005	0.00465	83	0.005 - 0.025	0	0%	0.0006		0.0006
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.0005	0.00356	63	0.005 - 0.025	0	0%	0.0007		0.0006
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstre	0.0005	0.00243	85	0.005 - 0.025	0	0%	0.0006		0.0005
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.0005	0.00376	35	0.005 - 0.025	0	0%	0.0007		0.0006
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.005	0.005	30	0.005 - 0.025	0	0%	0.0050		0.0050
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.005	0.0426	30	0.005 - 0.025	2	7%	0.0072		0.0058
		BAR-01	Barbers Creek @ County Road 16	0.001	0.001	24	0.005 - 0.025	0	0%	0.0010		0.0010
		COC-02	Cockburn Creek @ Hwy. 43	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010		0.0010
		DAL-01	Dales Creek @ County Road 23	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010		0.0010
		HUT-02	Hutton Creek @ Townline Road	0.001	0.001	21	0.005 - 0.025	0	0%	0.0010		0.0010
		IRI-02	Irish Creek @ County Road 15 (Jasper)	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010		0.0010
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	0.001	0.012	23	0.005 - 0.025	0	0%	0.0015		0.0011
		RCK-01	Rideau Creek @ Donnelly Drive	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010		0.0010
		ROS-01	Rosedale Creek @ Hwy. 43	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010		0.0010
		RVL-26	Otter Lake									
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	0.001	0.001	18	0.005 - 0.025	0	0%	0.0010		0.0010
		BLA-01	Black Creek in Murphys Pt. Prov. Park	0.001	0.008	22	0.005 - 0.025	0	0%	0.0014		0.0014
		RVL-11	Black Lake									
		RVL-12	Burridge Lake									
		RVL-13	Long Lake (East)									
		RVL-14	Westport Sand Lake									
		RVL-27	Wolfe Lake									
		RVL-32	Adam Lake									
		RVL-33	Round Lake									
		RVL-34	Loon Lake									

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Lead (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
		RVL-35	Bass Lake										
		RVL-36	Big Rideau Lake, Hoggs Bay										
		RVL-37	Upper Rideau Lake										
		RVL-38	Lower Rideau Lake										
		RVL-39	Big Rideau Lake										
		SHE-01	Sheldons Creek @ Old Kingston Road	0.001	0.001	16	0.005 - 0.025	0	0%	0.0010			0.0010
		WES-01	Westport Dam	0.001	0.001	17	0.005 - 0.025	0	0%	0.0010			0.0010
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.005	0.005	28	0.005 - 0.025	0	0%	0.0050			0.0050
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.005	0.0175	30	0.005 - 0.025	0	0%	0.0057			0.0054
		EAG-01	Eagle Creek u/s Bobs Lake	0.001	0.001	21	0.005 - 0.025	0	0%	0.0010			0.0010
		FIS-01	Fish Creek	0.001	0.001	7	0.005 - 0.025	0	0%	0.0010			0.0010
		FIS-03	Fish Creek @ County Road 38	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		FIS-A	Fish Creek u/s Bobs Lake	0.001	0.001	13	0.005 - 0.025	0	0%	0.0010			0.0010
		GRT-01	Grants Creek @ Glen Tay Road	0.001	0.006	22	0.005 - 0.025	0	0%	0.0013			0.0011
		GRT-02	Grants Creek @ Upper Scotch Line	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		GRT-03	Grants Creek @ County Road 10	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		GRT-04	Grants Creek @ Pike Lake Dam	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		GRT-05	Grants Creek d/s Upper Scotch Line	0.001	0.001	17	0.005 - 0.025	0	0%	0.0010			0.0010
		JEB-01	Jebbs Creek @ County Road 1	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		RUD-01	Ruddsdale Creek @ Christie Lake Road	0.001	0.001	21	0.005 - 0.025	0	0%	0.0010			0.0010
		RVL-01	Pike Lake										
		RVL-02	O'Brien Lake										
		RVL-03	Farren Lake										
		RVL-04	Crosby Lake										
		RVL-05	Little Crosby Lake										
		RVL-06	Davern Lake										
		RVL-07	Little Silver Lake										
		RVL-08	Rainbow Lake										
		RVL-09	Eagle Lake										
		RVL-10	Otty Lake										
		RVL-16	Bob's Lake, Buck Bay										
		RVL-17	Bob's Lake, Green Bay										
		RVL-18	Bob's Lake, West Basin										
		RVL-19	Bob's Lake, Mud Bay										
		RVL-20	Bob's Lake, Norris Bay										
		RVL-21	Bob's Lake, E. Basin, Long Bay										
		RVL-22	Bob's Lake, C. Narrows										
		RVL-23	Bob's Lake, Mill Bay										
		RVL-24	Crow Lake										
		RVL-25	Christie Lake										
		RVL-28	Leggatt Lake										
		RVL-29	Long Lake (West)										

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Lead (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	
		RVL-30	Elbow Lake										
		RVL-31	Carnahan Lake										
		SNY-03	Scotts Snye @ Upper Scotch Line	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.001	0.001	21	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-01	Tay River @ Port Elmsley	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-04	Tay River @ Rogers Road (Perth)	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-05	Tay River @ Glen Tay	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-08	Tay River @ Gore Street (Perth)	0.001	0.002	25	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-09	Tay River @ Adams Pond	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-11	Tay River u/s of Tay Marsh	0.001	0.001	23	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-15	Tay River d/s of Christie Lake	0.001	0.001	20	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-16	Tay River @ Bolingbroke	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		TAY-19	Tay River @ Craig St. (Perth)	0.001	0.001	22	0.005 - 0.025	0	0%	0.0010			0.0010
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	0.001	0.001	17	0.005 - 0.025	0	0%	0.0010			0.0010

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin	
		19343072901	Big Gull (Clarendon) Lake, Main Basin	
		19343072801	Big Gull (Clarendon) Lake, West Basin	
Buckshot Creek		18343077201	Blue Lake	
		18343070401	Buckshot (Indian) Lake	
		18343070801	Grindstone Lake, North Basin	
		18343070901	Grindstone Lake, South Basin	
		18343072101	Sand Lake	
		18343072201	Shabomeka (Buck) Lake	
		19343072301	Shawenegog (McClintock) Lake, North Basin	
		19343072401	Shawenegog (McClintock) Lake, South Basin	
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	
		CK70-05	Poole Creek, Stittsville Main St	
Clyde River		18343052002	At dam, downstream of Lanark	
		18343053002	Kerr Lake outlet, upstream of Lanark	
		18343070501	Canonto Lake (North & South Basins)	
		19343074901	Clyde Lake	
		19343075001	Flower Round Lake	
		19343076001	Horne Lake	
		19343076401	Joes Lake	
		18343074301	Palmerston Lake (North & South Basins)	
		19343076501	Paddys Lake	
		19343075901	Upper Park Lake	
		19343070101	Robertson Lake	
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	
		19343073401	Dalhousie Lake	
		19343073501	Mississippi Lake, Big Lake	
		19343001401	Mississippi Lake, Second Lake	
		18343075301	Patterson Lake	
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		18343072701	Bennett Lake (North & South Basins)	
		Unknown	Black Lake	
		18343074801	Clear Lake	
		18343073601	Sharbot Lake, East Basin	
		18343072501	Sharbot Lake, Main Basin	
		18343074501	Sharbot Lake, South-West Basin	
		18343074401	Sharbot Lake, West Basin	
		18343072601	Silver Lake	
		18343074601	White Lake	
	Indian River	19343073101	Clayton Lake	
		19343077101	Taylor Lake	
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	
		18343003402	Mississippi River, At dam, downstream of Pakenham	
		18343004002	Mississippi River, Almonte St, Almonte	
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	
		CK3-01	Cody Creek, at Hansen Side Rd.	
		CK3-03	Cody Creek, at Highway 44, E of Road 10	
		CK3-04	Cody Creek, March Rd.	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	
		18343071101	Kishkebus Lake	
		18343073901	Mackavoy Lake	
		18343071401	Marble Lake	
		19343074101	Mazinaw Lake, North Basin	
		19343073701	Mazinaw Lake, South Basin	
		Unknown	McCausland Lake	
		19343071601	Mississagagon Lake, East Basin	
		19343071501	Mississagagon Lake, West Basin	
	Upper Mississippi	18343070201	Ardoch (Green) Lake	
		18343073301	Crotch (Cross) Lake, North Basin	
		18343073201	Crotch (Cross) Lake, South Basin	
		18343070701	Fawn Lake	
		19343071001	Kashwakamak Lake, East Basin	
		19343073801	Kashwakamak Lake, West Basin	
		18343071301	Malcolm Lake	
		18343071901	Mosque Lake (North, South & West Basins)	
		18343072001	Pine Lake	
<b>Ottawa</b>	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	
		CK6-001	Watts Creek, at Shirley Blvd.	
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd)	
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstre	
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of F	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	
		CK24-002	Cardinal Creek, Old Montreal Rd.	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	
		MKL-01	Mackay Lake, deepest basin, NW portion of lake	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	
	Ottawa River	18000017002	Ottawa River, Chats Falls	
		ORS-100.20	Woolsey Narrows/Ottawa River	
		ORS-210.10	Deschenes Rapids/Ottawa River	
		ORS-210.30	Deschenes Rapids/Ottawa River	
		ORS-210.40	Deschenes Rapids/Ottawa River	
		ORS-430.10	Upper Duck Island/Ottawa River	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	
		ORS-430.60	Kettle Island/Ottawa River	
		ORS-430.70	Kettle Island/Ottawa River	
		ORS-450.10	Hiawatha/Ottawa River	
		ORS-450.20	Hiawatha/Ottawa River	
		ORS-450.30	Hiawatha/Ottawa River	
		ORS-450.40	Hiawatha/Ottawa River	
		ORS-500.10	Petrie Island/Ottawa River	
		ORS-500.20	Petrie Island/Ottawa River	
		ORS-500.50	Petrie Island/Ottawa River	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	
		JR-02	Jock River, at Jockvale Rd.	
		JR-05	Jock River, at Moodie Dr.	
		JR-12	Jock River, at Ottawa St., Richmond	
		JR-20	Jock River, at Bleeks Side Rd.	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	
		KEM-01	Kemptville Creek @ Hwy. 43 (Kemptville)	
		KEM-04	Kemptville Creek @ Hurd Street (Kemptville)	
		KEM-06	Kemptville Creek @ County Road 18 d/s Oxford Mills	
		KEM-07	Kemptville Creek @ Oxford Mills	
		KEM-08	Kemptville Creek @ Pattersons Corners	
		KEM-09	Kemptville Creek @ County Road 20	
		KEM-10	Kemptville Creek @ Limerick Road	
		KEM-11	Kemptville Creek @ Garretton	
		KEM-14	Kemptville Creek @ Kyle Road	
	KEM-16	Kemptville Creek u/s N. Augusta		
	NKE-02	North Kemptville Creek @ Bishops Mills		
	NKE-06	North Kemptville Creek @ County Road 15 d/s Cranberry Lake		
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of		
	18003303102	Rideau River, Hogs Back Rd, Ottawa		
	18003303402	Rideau River, St. Patrick St, Ottawa		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano		
	ARC-01	Arcand Drain @ County Road 19		
	BRA-01	Brassils Creek @ Donnelly Drive		
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid		
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o		
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.		
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc		
	CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.		
	CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)		
	CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.		
	CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.		
	CK19-10	Hunt Club Creek, at Country Club Rd.		
	CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)		
	CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R		
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f			



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	
		MCD-02	McDermott Drain @ County Road 19	
		MCD-03	McDermott Drain @ County Road 19	
		MUR-01	Murphy Drain @ County Road 22	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	
		BAR-01	Barbers Creek @ County Road 16	
		COC-02	Cockburn Creek @ Hwy. 43	
		DAL-01	Dales Creek @ County Road 23	
		HUT-02	Hutton Creek @ Townline Road	
		IRI-02	Irish Creek @ County Road 15 (Jasper)	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	
		RCK-01	Rideau Creek @ Donnelly Drive	
		ROS-01	Rosedale Creek @ Hwy. 43	
		RVL-26	Otter Lake	
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	
		BLA-01	Black Creek in Murphys Pt. Prov. Park	
		RVL-11	Black Lake	
		RVL-12	Burridge Lake	
		RVL-13	Long Lake (East)	
		RVL-14	Westport Sand Lake	
		RVL-27	Wolfe Lake	
		RVL-32	Adam Lake	
		RVL-33	Round Lake	
		RVL-34	Loon Lake	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		RVL-35	Bass Lake	
		RVL-36	Big Rideau Lake, Hoggs Bay	
		RVL-37	Upper Rideau Lake	
		RVL-38	Lower Rideau Lake	
		RVL-39	Big Rideau Lake	
		SHE-01	Sheldons Creek @ Old Kingston Road	
		WES-01	Westport Dam	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	
		EAG-01	Eagle Creek u/s Bobs Lake	
		FIS-01	Fish Creek	
		FIS-03	Fish Creek @ County Road 38	
		FIS-A	Fish Creek u/s Bobs Lake	
		GRT-01	Grants Creek @ Glen Tay Road	
		GRT-02	Grants Creek @ Upper Scotch Line	
		GRT-03	Grants Creek @ County Road 10	
		GRT-04	Grants Creek @ Pike Lake Dam	
		GRT-05	Grants Creek d/s Upper Scotch Line	
		JEB-01	Jebbs Creek @ County Road 1	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	
		RVL-01	Pike Lake	
		RVL-02	O'Brien Lake	
		RVL-03	Farren Lake	
		RVL-04	Crosby Lake	
		RVL-05	Little Crosby Lake	
		RVL-06	Davern Lake	
		RVL-07	Little Silver Lake	
		RVL-08	Rainbow Lake	
		RVL-09	Eagle Lake	
		RVL-10	Otty Lake	
		RVL-16	Bob's Lake, Buck Bay	
		RVL-17	Bob's Lake, Green Bay	
		RVL-18	Bob's Lake, West Basin	
		RVL-19	Bob's Lake, Mud Bay	
		RVL-20	Bob's Lake, Norris Bay	
		RVL-21	Bob's Lake, E. Basin, Long Bay	
		RVL-22	Bob's Lake, C. Narrows	
		RVL-23	Bob's Lake, Mill Bay	
		RVL-24	Crow Lake	
		RVL-25	Christie Lake	
		RVL-28	Leggatt Lake	
		RVL-29	Long Lake (West)	

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Geomean
				Exceed.
		RVL-30	Elbow Lake	
		RVL-31	Carnahan Lake	
		SNY-03	Scotts Snye @ Upper Scotch Line	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	
		TAY-01	Tay River @ Port Elmsley	
		TAY-04	Tay River @ Rogers Road (Perth)	
		TAY-05	Tay River @ Glen Tay	
		TAY-08	Tay River @ Gore Street (Perth)	
		TAY-09	Tay River @ Adams Pond	
		TAY-11	Tay River u/s of Tay Marsh	
		TAY-15	Tay River d/s of Christie Lake	
		TAY-16	Tay River @ Bolingbroke	
		TAY-19	Tay River @ Craig St. (Perth)	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

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MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Zinc (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin										
		19343072901	Big Gull (Clarendon) Lake, Main Basin										
		19343072801	Big Gull (Clarendon) Lake, West Basin										
Buckshot Creek		18343077201	Blue Lake										
		18343070401	Buckshot (Indian) Lake										
		18343070801	Grindstone Lake, North Basin										
		18343070901	Grindstone Lake, South Basin										
		18343072101	Sand Lake										
		18343072201	Shabomeka (Buck) Lake										
		19343072301	Shawenegog (McClintock) Lake, North Basin										
		19343072401	Shawenegog (McClintock) Lake, South Basin										
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp	0.0007	0.0087	33	0.03	0	0%	0.0025		0.0022	
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn	0.0007	0.0073	33	0.03	0	0%	0.0029		0.0024	
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	0.0001	0.0450	59	0.03	1	2%	0.0043		0.0024	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	0.0001	0.0133	59	0.03	0	0%	0.0042		0.0030	
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	0.0001	0.0360	59	0.03	1	2%	0.0062		0.0046	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	0.0001	0.0190	57	0.03	0	0%	0.0047		0.0031	
		CK70-05	Poole Creek, Stittsville Main St	0.0001	0.0300	77	0.03	0	0%	0.0062		0.0046	
Clyde River		18343052002	At dam, downstream of Lanark	0.0003	0.0044	35	0.03	0	0%	0.0010		0.0008	
		18343053002	Kerr Lake outlet, upstream of Lanark	0.0003	0.0061	33	0.03	0	0%	0.0010		0.0007	
		18343070501	Canonto Lake (North & South Basins)										
		19343074901	Clyde Lake										
		19343075001	Flower Round Lake										
		19343076001	Horne Lake										
		19343076401	Joes Lake										
		18343074301	Palmerston Lake (North & South Basins)										
		19343076501	Paddys Lake										
		19343075901	Upper Park Lake										
		19343070101	Robertson Lake										
CP Dam		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8	0.0003	0.0066	36	0.03	0	0%	0.0010		0.0007	
		19343073401	Dalhousie Lake										
		19343073501	Mississippi Lake, Big Lake										
		19343001401	Mississippi Lake, Second Lake										
		18343075301	Patterson Lake										
Fall River		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook	0.0003	0.0346	36	0.03	1	3%	0.0029		0.0011	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Zinc (mg/L)											
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.		
		18343072701	Bennett Lake (North & South Basins)												
		Unknown	Black Lake												
		18343074801	Clear Lake												
		18343073601	Sharbot Lake, East Basin												
		18343072501	Sharbot Lake, Main Basin												
		18343074501	Sharbot Lake, South-West Basin												
		18343074401	Sharbot Lake, West Basin												
		18343072601	Silver Lake												
		18343074601	White Lake												
	Indian River	19343073101	Clayton Lake												
		19343077101	Taylor Lake												
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta	0.0003	0.0116	31	0.03	0	0%	0.0017			0.0012		
		18343003402	Mississippi River, At dam, downstream of Pakenham	0.0003	0.0043	36	0.03	0	0%	0.0012			0.0008		
		18343004002	Mississippi River, Almonte St, Almonte	0.0003	0.0053	36	0.03	0	0%	0.0013			0.0009		
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton	0.0003	0.0060	36	0.03	0	0%	0.0018			0.0014		
		CK3-01	Cody Creek, at Hansen Side Rd.	0.0001	0.1780	55	0.03	1	2%	0.0076			0.0037		
		CK3-03	Cody Creek, at Highway 44, E of Road 10	0.0001	0.0323	24	0.03	1	4%	0.0065			0.0033		
		CK3-04	Cody Creek, March Rd.	0.0005	0.0080	31	0.03	0	0%	0.0021			0.0016		
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	0.0001	0.0340	81	0.03	1	1%	0.0031			0.0021		
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41	0.0003	0.0053	36	0.03	0	0%	0.0015			0.0011		
		18343071101	Kishkebus Lake												
		18343073901	Mackavoy Lake												
		18343071401	Marble Lake												
		19343074101	Mazinaw Lake, North Basin												
		19343073701	Mazinaw Lake, South Basin												
		Unknown	McCausland Lake												
		19343071601	Mississagagon Lake, East Basin												
		19343071501	Mississagagon Lake, West Basin												
	Upper Mississippi	18343070201	Ardoch (Green) Lake												
		18343073301	Crotch (Cross) Lake, North Basin												
		18343073201	Crotch (Cross) Lake, South Basin												
		18343070701	Fawn Lake												
		19343071001	Kashwakamak Lake, East Basin												
		19343073801	Kashwakamak Lake, West Basin												
		18343071301	Malcolm Lake												
		18343071901	Mosque Lake (North, South & West Basins)												
		18343072001	Pine Lake												
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	0.0001	0.0090	58	0.03	0	0%	0.0024			0.0015		

**Table A-9**

**Surface Water - Water Quality Summary Results  
Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Zinc (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	0.0001	0.0260	69	0.03	0	0%	0.0058		0.0044	
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	0.0001	0.0280	65	0.03	0	0%	0.0095		0.0065	
		CK6-001	Watts Creek, at Shirley Blvd.	0.0001	0.0570	56	0.03	3	5%	0.0111		0.0080	
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd. 174)	0.0001	0.0750	73	0.03	7	10%	0.0153		0.0113	
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	0.0001	0.0302	52	0.03	1	2%	0.0078		0.0061	
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	0.0001	0.0120	58	0.03	0	0%	0.0046		0.0036	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	0.0005	0.0100	37	0.03	0	0%	0.0026		0.0018	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstream	0.0050	0.0610	66	0.03	9	14%	0.0162		0.0134	
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	0.0030	0.0590	66	0.03	5	8%	0.0142		0.0116	
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	0.0020	0.0311	56	0.03	1	2%	0.0108		0.0095	
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of F	0.0010	0.2630	54	0.03	1	2%	0.0151		0.0101	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	0.0030	0.1030	70	0.03	6	9%	0.0175		0.0135	
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	0.0001	0.0502	68	0.03	3	4%	0.0115		0.0087	
		CK24-002	Cardinal Creek, Old Montreal Rd.	0.0001	0.0320	60	0.03	1	2%	0.0082		0.0062	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of	0.0001	0.0410	53	0.03	1	2%	0.0075		0.0048	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	0.0005	0.1250	71	0.03	9	13%	0.0159		0.0090	
		MKL-01	Mackay Lake, deepest basin, NW portion of lake	0.0005	0.0061	38	0.03	0	0%	0.0020		0.0014	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	0.0001	0.0420	62	0.03	1	2%	0.0086		0.0067	
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	0.0001	0.0830	72	0.03	6	8%	0.0129		0.0094	
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	0.0001	0.0310	67	0.03	1	1%	0.0080		0.0063	
		CK9-1	Pincrest Creek, at Ottawa River Parkway, westbound lane, mid	0.0030	0.1140	66	0.03	8	12%	0.0159		0.0107	
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	0.0005	0.0416	39	0.03	1	3%	0.0036		0.0022	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	0.0010	0.0150	35	0.03	0	0%	0.0066		0.0058	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	0.0005	0.0100	41	0.03	0	0%	0.0034		0.0027	
	Ottawa River	18000017002	Ottawa River, Chats Falls	0.0003	0.0099	42	0.03	0	0%	0.0027		0.0021	
		ORS-100.20	Woolsey Narrows/Ottawa River	0.0005	0.0300	37	0.03	0	0%	0.0047		0.0030	
		ORS-210.10	Deschenes Rapids/Ottawa River	0.0010	0.0182	36	0.03	0	0%	0.0038		0.0029	
		ORS-210.30	Deschenes Rapids/Ottawa River	0.0010	0.0090	36	0.03	0	0%	0.0032		0.0028	
		ORS-210.40	Deschenes Rapids/Ottawa River	0.0010	0.0091	36	0.03	0	0%	0.0030		0.0026	
		ORS-430.10	Upper Duck Island/Ottawa River	0.0010	0.0550	40	0.03	1	3%	0.0056		0.0033	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	0.0005	0.0130	40	0.03	0	0%	0.0036		0.0028	
		ORS-430.60	Kettle Island/Ottawa River	0.0005	0.0144	40	0.03	0	0%	0.0033		0.0026	
		ORS-430.70	Kettle Island/Ottawa River	0.0005	0.0270	40	0.03	0	0%	0.0037		0.0026	
		ORS-450.10	Hiawatha/Ottawa River	0.0010	0.0130	24	0.03	0	0%	0.0034		0.0030	
		ORS-450.20	Hiawatha/Ottawa River	0.0010	0.0190	24	0.03	0	0%	0.0039		0.0027	
		ORS-450.30	Hiawatha/Ottawa River	0.0005	0.0110	24	0.03	0	0%	0.0028		0.0023	
		ORS-450.40	Hiawatha/Ottawa River	0.0005	0.0100	24	0.03	0	0%	0.0031		0.0026	
		ORS-500.10	Petrie Island/Ottawa River	0.0005	0.0114	39	0.03	0	0%	0.0033		0.0027	
		ORS-500.20	Petrie Island/Ottawa River	0.0010	0.0300	40	0.03	0	0%	0.0036		0.0027	
		ORS-500.50	Petrie Island/Ottawa River	0.0005	0.0130	39	0.03	0	0%	0.0032		0.0027	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Zinc (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	0.0003	0.0161	29	0.03	0	0%	0.0062		0.0040	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	0.0001	0.1120	60	0.03	1	2%	0.0075		0.0046	
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	0.0001	0.0190	71	0.03	0	0%	0.0039		0.0026	
		JR-02	Jock River, at Jockvale Rd.	0.0001	0.0180	74	0.03	0	0%	0.0035		0.0024	
		JR-05	Jock River, at Moodie Dr.	0.0001	0.0128	67	0.03	0	0%	0.0036		0.0028	
		JR-12	Jock River, at Ottawa St., Richmond	0.0001	0.0191	56	0.03	0	0%	0.0024		0.0016	
		JR-20	Jock River, at Bleeks Side Rd.	0.0001	0.0710	64	0.03	1	2%	0.0045		0.0027	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	0.0003	0.0272	30	0.03	0	0%	0.0059		0.0038	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	0.0010	0.0540	23	0.03	2	9%	0.0082		0.0043	
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	0.0005	0.1270	84	0.03	1	1%	0.0048		0.0024	
KEM-01		Kemptville Creek @ Hwy. 43 (Kemptville)	0.0010	0.0180	24	0.03	0	0%	0.0045		0.0032		
KEM-04		Kemptville Creek @ Hurd Street (Kemptville)	0.0010	0.0190	24	0.03	0	0%	0.0032		0.0021		
KEM-06		Kemptville Creek @ County Road 18 d/s Oxford Mills	0.0010	0.0090	24	0.03	0	0%	0.0030		0.0024		
KEM-07		Kemptville Creek @ Oxford Mills	0.0010	0.0150	24	0.03	0	0%	0.0032		0.0023		
KEM-08		Kemptville Creek @ Pattersons Corners	0.0070	0.0070	24	0.03	0	0%	0.0025		0.0020		
KEM-09		Kemptville Creek @ County Road 20	0.0010	0.0070	24	0.03	0	0%	0.0030		0.0023		
KEM-10		Kemptville Creek @ Limerick Road	0.0010	0.0130	24	0.03	0	0%	0.0034		0.0024		
KEM-11		Kemptville Creek @ Garretton	0.0010	0.1380	24	0.03	2	8%	0.0120		0.0031		
KEM-14		Kemptville Creek @ Kyle Road	0.0010	0.0050	24	0.03	0	0%	0.0023		0.0020		
KEM-16		Kemptville Creek u/s N. Augusta	0.0010	0.0110	23	0.03	0	0%	0.0025		0.0018		
NKE-02	North Kemptville Creek @ Bishops Mills	0.0010	0.0090	24	0.03	0	0%	0.0032		0.0024			
	North Kemptville Creek @ County Road 15 d/s Cranberry Lake	0.0010	0.0100	24	0.03	0	0%	0.0025		0.0019			
Lower Rideau	18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	0.0003	0.0415	30	0.03	1	3%	0.0059		0.0032		
	18003303102	Rideau River, Hogs Back Rd, Ottawa	0.0003	0.1590	30	0.03	1	3%	0.0094		0.0033		
	18003303402	Rideau River, St. Patrick St, Ottawa	0.0003	0.0150	30	0.03	0	0%	0.0046		0.0034		
	18003303702	Rideau River, Long Island gauging station, downstream of Mano	0.0003	0.0217	30	0.03	0	0%	0.0019		0.0010		
	ARC-01	Arcand Drain @ County Road 19	0.0010	0.0090	22	0.03	0	0%	0.0031		0.0024		
	BRA-01	Brassils Creek @ Donnelly Drive	0.0010	0.0070	23	0.03	0	0%	0.0022		0.0017		
	CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	0.0001	0.0378	65	0.03	1	2%	0.0056		0.0037		
	CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	0.0001	0.3260	78	0.03	9	12%	0.0199		0.0124		
	CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	0.0001	0.0410	81	0.03	2	2%	0.0071		0.0051		
	CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	0.0001	0.1120	79	0.03	5	6%	0.0173		0.0134		
	CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	0.0001	0.1280	76	0.03	6	8%	0.0189		0.0147		
	CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	0.0001	0.1100	67	0.03	8	12%	0.0191		0.0143		
	CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	0.0040	0.1220	48	0.03	3	6%	0.0151		0.0117		
	CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	0.0001	0.1420	68	0.03	2	3%	0.0110		0.0073		
	CK19-10	Hunt Club Creek, at Country Club Rd.	0.0001	0.1260	72	0.03	5	7%	0.0116		0.0074		
	CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	0.0001	0.1620	79	0.03	5	6%	0.0111		0.0052		
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	0.0001	0.0200	65	0.03	0	0%	0.0051		0.0039			
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	0.0001	0.0376	59	0.03	1	2%	0.0070		0.0049			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Zinc (mg/L)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	0.0001	0.1070	55	0.03	1	2%	0.0069		0.0041	
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	0.0001	0.0120	61	0.03	0	0%	0.0038		0.0028	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	0.0001	0.0510	64	0.03	1	2%	0.0047		0.0030	
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	0.0001	0.1540	61	0.03	1	2%	0.0076		0.0038	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	0.0001	0.0140	59	0.03	0	0%	0.0037		0.0028	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	0.0001	0.0242	60	0.03	0	0%	0.0027		0.0015	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	0.0005	0.0140	58	0.03	0	0%	0.0042		0.0032	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	0.0001	0.0330	75	0.03	1	1%	0.0027		0.0013	
		MCD-02	McDermott Drain @ County Road 19	0.0010	0.0190	22	0.03	0	0%	0.0043		0.0025	
		MCD-03	McDermott Drain @ County Road 19	0.0010	0.0080	21	0.03	0	0%	0.0038		0.0032	
		MUR-01	Murphy Drain @ County Road 22	0.0010	0.0280	22	0.03	0	0%	0.0068		0.0052	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	0.0005	0.1000	66	0.03	2	3%	0.0075		0.0038	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	0.0005	0.0160	83	0.03	0	0%	0.0036		0.0025	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	0.0005	0.0103	56	0.03	0	0%	0.0029		0.0021	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	0.0005	0.0420	61	0.03	1	2%	0.0038		0.0022	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	0.0005	0.0114	67	0.03	0	0%	0.0026		0.0019	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	0.0005	0.0175	83	0.03	0	0%	0.0032		0.0022	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	0.0005	0.1500	63	0.03	1	2%	0.0052		0.0023	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstre	0.0001	0.1480	85	0.03	2	2%	0.0056		0.0022	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	0.0005	0.0796	34	0.03	4	12%	0.0058		0.0024	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	0.0003	0.0101	30	0.03	0	0%	0.0035		0.0024	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	0.0003	0.0195	30	0.03	0	0%	0.0037		0.0023	
		BAR-01	Barbers Creek @ County Road 16	0.0010	0.0440	24	0.03	1	4%	0.0057		0.0035	
		COC-02	Cockburn Creek @ Hwy. 43	0.0010	0.0170	23	0.03	0	0%	0.0048		0.0038	
		DAL-01	Dales Creek @ County Road 23	0.0010	0.0380	23	0.03	1	4%	0.0059		0.0039	
		HUT-02	Hutton Creek @ Townline Road	0.0010	0.0090	21	0.03	0	0%	0.0030		0.0023	
		IRI-02	Irish Creek @ County Road 15 (Jasper)	0.0010	0.0070	23	0.03	0	0%	0.0023		0.0018	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	0.0010	0.0070	23	0.03	0	0%	0.0030		0.0025	
		RCK-01	Rideau Creek @ Donnelly Drive	0.0010	0.0120	23	0.03	0	0%	0.0032		0.0023	
		ROS-01	Rosedale Creek @ Hwy. 43	0.0030	0.0580	23	0.03	1	4%	0.0095		0.0067	
		RVL-26	Otter Lake										
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	0.0020	0.0100	18	0.03	0	0%	0.0049		0.0043	
		BLA-01	Black Creek in Murphys Pt. Prov. Park	0.0010	0.0110	22	0.03	0	0%	0.0025		0.0019	
		RVL-11	Black Lake										
		RVL-12	Burridge Lake										
		RVL-13	Long Lake (East)										
		RVL-14	Westport Sand Lake										
		RVL-27	Wolfe Lake										
		RVL-32	Adam Lake										
		RVL-33	Round Lake										
		RVL-34	Loon Lake										



**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Zinc (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		RVL-35	Bass Lake											
		RVL-36	Big Rideau Lake, Hoggs Bay											
		RVL-37	Upper Rideau Lake											
		RVL-38	Lower Rideau Lake											
		RVL-39	Big Rideau Lake											
		SHE-01	Sheldons Creek @ Old Kingston Road	0.0010	0.0150	18	0.03	0	0%	0.0043			0.0030	
		WES-01	Westport Dam	0.0010	0.0060	17	0.03	0	0%	0.0021			0.0017	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	0.0003	0.0081	28	0.03	0	0%	0.0019			0.0012	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	0.0003	0.0129	30	0.03	0	0%	0.0034			0.0021	
		EAG-01	Eagle Creek u/s Bobs Lake	0.0010	0.0080	21	0.03	0	0%	0.0024			0.0019	
		FIS-01	Fish Creek	0.0010	0.0110	7	0.03	0	0%	0.0039			0.0023	
		FIS-03	Fish Creek @ County Road 38	0.0010	0.0090	22	0.03	0	0%	0.0027			0.0022	
		FIS-A	Fish Creek u/s Bobs Lake	0.0010	0.0020	13	0.03	0	0%	0.0012			0.0011	
		GRT-01	Grants Creek @ Glen Tay Road	0.0010	0.0220	22	0.03	0	0%	0.0041			0.0031	
		GRT-02	Grants Creek @ Upper Scotch Line	0.0010	0.0080	22	0.03	0	0%	0.0019			0.0016	
		GRT-03	Grants Creek @ County Road 10	0.0010	0.0050	22	0.03	0	0%	0.0024			0.0020	
		GRT-04	Grants Creek @ Pike Lake Dam	0.0010	0.0050	22	0.03	0	0%	0.0022			0.0019	
		GRT-05	Grants Creek d/s Upper Scotch Line	0.0010	0.0100	17	0.03	0	0%	0.0019			0.0015	
		JEB-01	Jebbs Creek @ County Road 1	0.0010	0.0070	22	0.03	0	0%	0.0022			0.0017	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	0.0010	0.0070	21	0.03	0	0%	0.0021			0.0017	
		RVL-01	Pike Lake											
		RVL-02	O'Brien Lake											
		RVL-03	Farren Lake											
		RVL-04	Crosby Lake											
		RVL-05	Little Crosby Lake											
		RVL-06	Davern Lake											
		RVL-07	Little Silver Lake											
		RVL-08	Rainbow Lake											
		RVL-09	Eagle Lake											
		RVL-10	Otty Lake											
		RVL-16	Bob's Lake, Buck Bay											
		RVL-17	Bob's Lake, Green Bay											
		RVL-18	Bob's Lake, West Basin											
		RVL-19	Bob's Lake, Mud Bay											
		RVL-20	Bob's Lake, Norris Bay											
		RVL-21	Bob's Lake, E. Basin, Long Bay											
		RVL-22	Bob's Lake, C. Narrows											
		RVL-23	Bob's Lake, Mill Bay											
		RVL-24	Crow Lake											
		RVL-25	Christie Lake											
		RVL-28	Leggatt Lake											
		RVL-29	Long Lake (West)											

**Table A-9****Surface Water - Water Quality Summary Results****Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	Zinc (mg/L)										
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.	
		RVL-30	Elbow Lake											
		RVL-31	Carnahan Lake											
		SNY-03	Scotts Snye @ Upper Scotch Line	0.0010	0.0060	22	0.03	0	0%	0.0020		0.0017		
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	0.0010	0.0100	21	0.03	0	0%	0.0021		0.0015		
		TAY-01	Tay River @ Port Elmsley	0.0010	0.0090	23	0.03	0	0%	0.0037		0.0029		
		TAY-04	Tay River @ Rogers Road (Perth)	0.0010	0.0390	23	0.03	1	4%	0.0056		0.0034		
		TAY-05	Tay River @ Glen Tay	0.0010	0.0080	23	0.03	0	0%	0.0027		0.0021		
		TAY-08	Tay River @ Gore Street (Perth)	0.0010	0.0130	25	0.03	0	0%	0.0031		0.0022		
		TAY-09	Tay River @ Adams Pond	0.0010	0.0350	22	0.03	1	5%	0.0044		0.0026		
		TAY-11	Tay River u/s of Tay Marsh	0.0010	0.0060	23	0.03	0	0%	0.0024		0.0021		
		TAY-15	Tay River d/s of Christie Lake	0.0010	0.0030	20	0.03	0	0%	0.0013		0.0012		
		TAY-16	Tay River @ Bolingbroke	0.0010	0.0170	22	0.03	0	0%	0.0037		0.0022		
		TAY-19	Tay River @ Craig St. (Perth)	0.0010	0.0070	22	0.03	0	0%	0.0030		0.0024		
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	0.0010	0.0120	17	0.03	0	0%	0.0029		0.0022		

**Notes:** CCME - Canadian Council of Ministers of the Environment

CWQG - Canadian Water Quality Guidelines, CCME

EC - Environment Canada

MOE - Ontario Ministry of the Environment

MVC WW - Mississippi Valley Conservation - Watershed Watch

ODWQS - Ontario Drinking Water Quality Standards, MOE

ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE

Ottawa - City of Ottawa - Surface Water Quality Monitoring

PWQMN - Provincial Water Quality Monitoring Network

PWQO - Provincial Water Quality Objectives, MOE

RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring

RVCA WW - Rideau Valley Conservation Authority - Watershed Watch

SSWQO - Saskatchewan Surface Water Quality Objectives

1 - PWQO criteria for pH must be between the range of 6.5 - 8.5

2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	E.coli (cfu / 100 mL)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
<b>MVC</b>	Big Gull	19343073001	Big Gull (Clarendon) Lake, East Basin										
		19343072901	Big Gull (Clarendon) Lake, Main Basin										
		19343072801	Big Gull (Clarendon) Lake, West Basin										
Buckshot Creek		18343077201	Blue Lake										
		18343070401	Buckshot (Indian) Lake										
		18343070801	Grindstone Lake, North Basin										
		18343070901	Grindstone Lake, South Basin										
		18343072101	Sand Lake										
		18343072201	Shabomeka (Buck) Lake										
		19343072301	Shawenegog (McClintock) Lake, North Basin										
		19343072401	Shawenegog (McClintock) Lake, South Basin										
Carp River		18337010102	Carp River, Craig Side Rd, downstream Carp										
		18337012102	Carp River, John Shaw Rd, downstream of Kinburn										
		R010-01	Carp River, at Carp Rd. Bridge (Regional Rd. 5), Fitzroy Harbour	5	5300	61	100	22	36%	237	YES	69	
		R010-06	Carp River, at Craig Side Rd., downstream of bridge	10	10000	61	100	38	62%	380	YES	153	YES
		R010-09	Carp River, at Richardson Side Rd., downstream of bridge	1	2100	61	100	28	46%	223	YES	91	
		R010-14	Carp River, at John Shaw Rd., N of Kinburn Side Road	2	3400	58	100	18	31%	218	YES	54	
		CK70-05	Poole Creek, Stittsville Main St	5	2700	79	100	51	65%	320	YES	137	YES
Clyde River		18343052002	At dam, downstream of Lanark										
		18343053002	Kerr Lake outlet, upstream of Lanark										
		18343070501	Canonto Lake (North & South Basins)										
		19343074901	Clyde Lake										
		19343075001	Flower Round Lake										
		19343076001	Horne Lake										
		19343076401	Joes Lake										
		18343074301	Palmerston Lake (North & South Basins)										
		19343076501	Paddys Lake										
		19343075901	Upper Park Lake										
CP Dam		19343070101	Robertson Lake										
		19343003601	Sunday Lake										
		19343076301	Widow Lake										
		18343017502	Mississippi River, Dalhousie Lake outlet, Lanark County Rd 8										
		19343073401	Dalhousie Lake										
Fall River		19343073501	Mississippi Lake, Big Lake										
		19343001401	Mississippi Lake, Second Lake										
		18343075301	Patterson Lake										
		18343061002	Fall River, Bennett Lake outlet, upstream of Fallbrook										

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	E.coli (cfu / 100 mL)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		18343072701	Bennett Lake (North & South Basins)										
		Unknown	Black Lake										
		18343074801	Clear Lake										
		18343073601	Sharbot Lake, East Basin										
		18343072501	Sharbot Lake, Main Basin										
		18343074501	Sharbot Lake, South-West Basin										
		18343074401	Sharbot Lake, West Basin										
		18343072601	Silver Lake										
		18343074601	White Lake										
	Indian River	19343073101	Clayton Lake										
		19343077101	Taylor Lake										
	Lower Mississippi	18343003002	Mississippi River, Railroad Trestle, Galetta										
		18343003402	Mississippi River, At dam, downstream of Pakenham										
		18343004002	Mississippi River, Almonte St, Almonte										
		18343006102	Mississippi River, Lanark Cnty Rd 11, Appleton										
		CK3-01	Cody Creek, at Hansen Side Rd.	14	10000	56	100	38	68%	403	YES	167	YES
		CK3-03	Cody Creek, at Highway 44, E of Road 10	1	5000	23	100	1	4%	241	YES	17	
		CK3-04	Cody Creek, March Rd.	2	250	33	100	10	30%	70		37	
		R9-01	Mississippi River, at Galetta Side Rd Bridge (Regional Rd. 22)	1	900	83	100	8	10%	50		16	
	Mazinaw	18343023002	Mississippi River, Mazinaw Lake outlet, Smarts Rd, E of Hwy 41										
		18343071101	Kishkebus Lake										
		18343073901	Mackavoy Lake										
		18343071401	Marble Lake										
		19343074101	Mazinaw Lake, North Basin										
		19343073701	Mazinaw Lake, South Basin										
		Unknown	McCausland Lake										
		19343071601	Mississagagon Lake, East Basin										
		19343071501	Mississagagon Lake, West Basin										
	Upper Mississippi	18343070201	Ardoch (Green) Lake										
		18343073301	Crotch (Cross) Lake, North Basin										
		18343073201	Crotch (Cross) Lake, South Basin										
		18343070701	Fawn Lake										
		19343071001	Kashwakamak Lake, East Basin										
		19343073801	Kashwakamak Lake, West Basin										
		18343071301	Malcolm Lake										
		18343071901	Mosque Lake (North, South & West Basins)										
		18343072001	Pine Lake										
Ottawa	MVC - Ottawa	CK4-02	Constance Creek, at Vances Side Rd.	1	7600	64	100	14	22%	410	YES	50	

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	E.coli (cfu / 100 mL)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK5-01	Shirley's Brook, at Fourth Line Rd., near 1375 Fourth Line Rd.	3	7700	71	100	45	63%	357	YES	138	YES
		CK5-07	Shirley's Brook, at Hines Rd., N of Solandt, upstream of culvert	1	8100	67	100	45	67%	660	YES	149	YES
		CK6-001	Watts Creek, at Shirley Blvd.	2	5000	58	100	35	60%	437	YES	130	YES
		CK6-312	Watts Creek, at Corkstown Rd. W, near March Rd. (Regional Rd)	10	10000	75	100	55	73%	1092	YES	271	YES
		CK64-02	Casey Creek, at Dunrobin Rd., near Thomas Dolan Parkway	5	10000	54	100	41	76%	1492	YES	395	YES
		CK65-04	Harwood Creek, at Dunrobin Rd., near River Rd.	3	10000	60	100	32	53%	520	YES	85	
		CLL-01	Constance Lake, deepest point, approximately 0.5 km from boat	1	22	38	100	0	0%	4		2	
	RVCA - Ottawa Ea	CK21-002	Greens Creek, at Montreal Rd. Bridge (Regional Rd. 34), upstre	20	10000	73	100	54	74%	685	YES	216	YES
		CK21-003	Greens Creek, at Innes Rd. bridge (Regional Rd. 30), upstream	18	10000	72	100	57	79%	756	YES	213	YES
		CK21-009	Ramsay Creek, at Baseline Rd., 1 km S of Ridge Rd.	9	2600	56	100	32	57%	231	YES	104	YES
		CK21-502	Black Creek (Mer Bleue Tributary), at Anderson Rd., 1 km S of f	1	530	54	100	13	24%	84		32	
		CK22-001	Bilberry Creek, 0.25 km downstream of dead end of Bilberry Dr.	20	10000	79	100	72	91%	1259	YES	511	YES
		CK23-001	Taylor Creek, at North Service Rd. (Jeanne D'Arc Extension), up	5	10000	157	100	125	80%	659	YES	301	YES
		CK24-002	Cardinal Creek, Old Montreal Rd.	5	4700	74	100	31	42%	312	YES	67	
		CK25-001	Beckets Creek, at Highway 17 (Regional Rd. 174), upstream of c	5	4500	54	100	17	31%	169	YES	39	
		CK35-004	Voyager Creek, at Youville Dr., downstream of culvert	8	3900	107	100	78	73%	426	YES	197	YES
		MKL-01	MackKay Lake, deepest basin, NW portion of lake	1	60	37	100	0	0%	6		3	
	RVCA - Ottawa W	CK7-01	Stillwater Creek, Carling Ave.	5	3100	63	100	45	71%	391	YES	188	YES
		CK8-01	Graham Creek, at Carling Ave. westbound lane, downstream of	2	10000	97	100	73	75%	587	YES	226	YES
		CK8-35	Graham Creek, at Siskin Court (formerly Knoxdale Rd.)	1	2300	67	100	38	57%	210	YES	84	
		CK9-1	Pinecrest Creek, at Ottawa River Parkway, westbound lane, mid	3	10000	270	100	227	84%	910	YES	323	YES
		MUDLK-03	Mud Lake, W part of lake, 170 m S of N shore	1	370	38	100	3	8%	29		8	
		CRS-101A	Rideau Canal, at Rideau St. bridge, 0.4 km upstream of Ottawa	5	870	35	100	8	23%	108	YES	41	
		CRS-105B	Rideau Canal, at Bronson St. Bridge, 5.4 km upstream	1	136	41	100	2	5%	19		9	
	Ottawa River	18000017002	Ottawa River, Chats Falls										
		ORS-100.20	Woolsey Narrows/Ottawa River	1	104	38	100	1	3%	14		8	
		ORS-210.10	Deschenes Rapids/Ottawa River	1	144	37	100	2	5%	33		19	
		ORS-210.30	Deschenes Rapids/Ottawa River	3	110	37	100	1	3%	28		18	
		ORS-210.40	Deschenes Rapids/Ottawa River	2	134	37	100	1	3%	28		16	
		ORS-430.10	Upper Duck Island/Ottawa River	5	630	41	100	10	24%	100	YES	65	
		ORS-430.30	Upper Duck Island/Kettle Island/Ottawa River	16	470	41	100	13	32%	102	YES	74	
		ORS-430.60	Kettle Island/Ottawa River	16	750	41	100	10	24%	101	YES	63	
		ORS-430.70	Kettle Island/Ottawa River	3	910	40	100	12	30%	112	YES	61	
		ORS-450.10	Hiawatha/Ottawa River	5	780	24	100	8	33%	134	YES	67	
		ORS-450.20	Hiawatha/Ottawa River	10	1000	24	100	9	38%	170	YES	84	
		ORS-450.30	Hiawatha/Ottawa River	10	1000	24	100	11	46%	183	YES	94	
		ORS-450.40	Hiawatha/Ottawa River	90	1000	23	100	22	96%	396	YES	309	YES
		ORS-500.10	Petrie Island/Ottawa River	10	710	40	100	5	13%	75		48	
		ORS-500.20	Petrie Island/Ottawa River	6	860	41	100	7	17%	82		50	
		ORS-500.50	Petrie Island/Ottawa River	10	930	40	100	26	65%	187	YES	137	YES

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	E.coli (cfu / 100 mL)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
RVCA	Jock River	18003303602	Jock River, Moodie Dr., W of Hwy 416	4	440	8	100	4	50%	149	YES	58	
		CK67-001	Flowing Creek, at Perth Rd., 50 m upstream of confluence with J	18	10000	62	100	54	87%	575	YES	291	YES
		JR-01	Jock River, at Prince of Wales Dr. (Regional Rd. 73)	1	440	71	100	15	21%	64		30	
		JR-02	Jock River, at Jockvale Rd.	2	1000	74	100	12	16%	77		35	
		JR-05	Jock River, at Moodie Dr.	1	1000	68	100	14	21%	111	YES	39	
		JR-12	Jock River, at Ottawa St., Richmond	1	1000	57	100	14	25%	107	YES	43	
		JR-20	Jock River, at Bleeks Side Rd.	1	1000	64	100	26	41%	155	YES	62	
	Kemptville Creek	18003300302	Kemptville Creek, Leeds and Grenville County Rd. 43, Kemptvill	4	350	9	100	1	11%	59		18	
		BRN-03	Barnes Creek @ Van Buren Street (Kemptville)	8	5300	28	100	22	79%	550	YES	228	YES
		CK53-06	Kemptville Creek, at Prescott St. (Kemptville)	1	1000	86	100	23	27%	107	YES	28	
KEM-01		Kemptville Creek @ Hwy. 43 (Kemptville)	6	400	30	100	13	43%	85		52		
KEM-04		Kemptville Creek @ Hurd Street (Kemptville)	9	1000	30	100	10	33%	107	YES	60		
KEM-06		Kemptville Creek @ County Road 18 d/s Oxford Mills	5	1000	28	100	5	18%	78		30		
KEM-07		Kemptville Creek @ Oxford Mills	2	140	30	100	1	3%	23		16		
KEM-08		Kemptville Creek @ Pattersons Corners	6	140	23	100	2	9%	31		21		
KEM-09		Kemptville Creek @ County Road 20	5	1000	29	100	4	14%	102	YES	32		
KEM-10		Kemptville Creek @ Limerick Road	6	360	30	100	3	10%	58		37		
Lower Rideau		18003302902	Rideau River, Roger Stevens Rd, Regional Rd 6, downstream of	4	8	9	100	0	0%	5		5	
		18003303102	Rideau River, Hogs Back Rd, Ottawa	8	120	9	100	2	22%	47		29	
		18003303402	Rideau River, St. Patrick St, Ottawa	4	620	9	100	3	33%	128	YES	52	
		18003303702	Rideau River, Long Island gauging station, downstream of Mano	4	900	9	100	1	11%	124	YES	22	
		ARC-01	Arcand Drain @ County Road 19	2	1000	28	100	7	25%	117	YES	60	
		BRA-01	Brassils Creek @ Donnelly Drive	4	430	30	100	6	20%	87		45	
		CK13-01	Black Rapids Creek, 0.23 km upstream from confluence with Rid	2	6600	66	100	31	47%	372	YES	91	
		CK14-14	Nepean Creek, 30 m downstream of Fisher Glen STF by-pass o	3	10000	78	100	35	45%	402	YES	86	
		CK18-03-00	Sawmill Creek, NE tributary at Lester and Albion Rds.	1	2100	81	100	19	23%	116	YES	26	
		CK18-J	Sawmill Creek, at Johnston Rd. (4.45 km upstream of confluenc	40	8000	79	100	68	86%	751	YES	360	YES
CK18-M	Sawmill Creek, 100 m W of Brookfield Rd. and Junction Ave.	5	6400	76	100	66	87%	647	YES	329	YES		
CK18-Q	Sawmill Creek, at Riverside Dr., westbound lane (downstream)	20	9300	67	100	60	90%	831	YES	372	YES		
CK18-S	Sawmill Creek, Walkley Rd. onramp & Airport Pkwy.	30	10000	48	100	40	83%	872	YES	356	YES		
CK19-01	Hunt Club Creek, 200 m downstream of Riverside Dr.	5	21000	69	100	46	67%	750	YES	178	YES		
CK19-10	Hunt Club Creek, at Country Club Rd.	1	3300	72	100	37	51%	259	YES	71			
CK19-12	Hunt Club Creek, at DeNiverville Dr. (Uplands System)	1	2800	79	100	26	33%	219	YES	39			
CK20-10	Mosquito Creek, at Leitrim Rd., 0.5 km upstream from Rideau R	5	1300	66	100	28	42%	197	YES	75			
CK20-16	Mosquito Creek, at Limebank Rd., 4 km upstream from Rideau f	3	1000	59	100	15	25%	124	YES	50			

**Table A-9**

**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	E.coli (cfu / 100 mL)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		CK20-22	Mosquito Creek, at Rideau Rd. (9th Line) and Downey Rd., down	5	7000	56	100	36	64%	501	YES	154	YES
		CK41-01	Mud Creek, at Bankfield Rd., upstream of culverts	5	1300	62	100	29	47%	174	YES	91	
		CK42-04	Stevens Creek, at Church St. weir, North Gower	5	2900	65	100	37	57%	211	YES	105	YES
		CK42-05-03	Taylor Drain, at Fourth Line Rd. (Regional Rd. 5) between Roger	1	10000	60	100	31	52%	448	YES	95	
		CK42-06	Stevens Creek, at Second Line Rd. S, between Roger Stevens f	5	560	61	100	20	33%	110	YES	66	
		CK42-07	Stevens Creek, at Roger Stevens Rd. (Regional Rd. 6), at exit o	1	810	60	100	11	18%	88		24	
		CK43-02	Cranberry Creek, at Third Line Rd. S, S of Highway 416, upstrea	1	1000	60	100	17	28%	103	YES	37	
		CK44-02	Brassils Creek, at Dwyer Hill Rd., near Donnelly Rd.	1	740	77	100	14	18%	73		21	
		MCD-02	McDermott Drain @ County Road 19	8	4700	27	100	11	41%	293	YES	73	
		MCD-03	McDermott Drain @ County Road 19	2	1000	20	100	11	55%	193	YES	85	
		MUR-01	Murphy Drain @ County Road 22	2	1900	29	100	12	41%	201	YES	69	
		RRS-103C	Rideau River, at St. Patrick St. (1.8 km upstream from Ottawa R	3	530	68	100	12	18%	62		37	
		RRS-108C	Rideau River, at Bank St. (7.9 km upstream)	1	710	85	100	7	8%	47		24	
		RRS-118A	Rideau River, Black Rapids Dam, open dam channel (16.25 km	1	184	58	100	3	5%	27		14	
		RRS-118B	Rideau River, Black Rapids Dam, centre sluice (16.25 km upstre	1	500	63	100	7	11%	42		17	
		RRS-119B	Rideau River, Long Island Locks (26 km upstream)	1	200	69	100	3	4%	23		10	
		RRS-119C	Rideau River, at Barnsdale Rd. (26 km upstream)	1	350	86	100	14	16%	46		20	
		RRS-121C	Rideau River, at Roger Stevens Rd. (36.3 km upstream)	1	158	65	100	3	5%	15		5	
		RRS-124B	Rideau River, N shore at Burritts Rapids Bridge (66 km upstream	1	520	88	100	1	1%	18		6	
		RRS-167B	Rideau River, Mooney's Bay (11.6 km upstream)	1	194	37	100	2	5%	24		11	
	Middle Rideau	18003302602	Rideau River, Rawley Rd, at dam, Kilmarnock	4	16	9	100	0	0%	7		6	
		18003303502	Rideau River, Nicholsons Lock, Andrewsville	4	12	9	100	0	0%	5		5	
		BAR-01	Barbers Creek @ County Road 16	10	950	30	100	22	73%	244	YES	148	YES
		COC-02	Cockburn Creek @ Hwy. 43	7	1000	30	100	12	40%	143	YES	55	
		DAL-01	Dales Creek @ County Road 23	2	2900	30	100	17	57%	257	YES	79	
		HUT-02	Hutton Creek @ Townline Road	14	3600	28	100	20	71%	518	YES	233	YES
		IRI-02	Irish Creek @ County Road 15 (Jasper)	9	164	30	100	1	3%	36		28	
		OTT-01	Otter Creek @ Hwy. 29 south of Smiths Falls	9	7300	30	100	22	73%	1043	YES	309	YES
		RCK-01	Rideau Creek @ Donnelly Drive	9	650	30	100	11	37%	97		47	
		ROS-01	Rosedale Creek @ Hwy. 43	44	2400	30	100	24	80%	351	YES	232	YES
		RVL-26	Otter Lake	1	20	51	100	0	0%	3		2	
	Rideau Lakes	ADR-01	Adrians Creek near County Road 42	9	610	18	100	11	61%	168	YES	101	YES
		BLA-01	Black Creek in Murphys Pt. Prov. Park	9	990	22	100	4	18%	88		35	
		RVL-11	Black Lake	1	200	175	100	1	1%	8		4	
		RVL-12	Burridge Lake	1	25	21	100	0	0%	6		3	
		RVL-13	Long Lake (East)	1	100	84	100	1	1%	6		3	
		RVL-14	Westport Sand Lake	1	42	40	100	0	0%	7		4	
		RVL-27	Wolfe Lake	1	280	46	100	2	4%	16		5	
		RVL-32	Adam Lake	2	106	63	100	1	2%	6		3	
		RVL-33	Round Lake	2	128	40	100	1	3%	12		5	
		RVL-34	Loon Lake	2	134	29	100	1	3%	14		6	

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**Surface Water - Water Quality Summary Results**

**Proposed Mississippi - Rideau Source Water Protection Region**

Watershed	Subwatershed	Station ID	Station Location	E.coli (cfu / 100 mL)									
				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-35	Bass Lake	2	910	82	100	7	9%	39		6	
		RVL-36	Big Rideau Lake, Hoggs Bay	2	56	26	100	0	0%	14		6	
		RVL-37	Upper Rideau Lake	2	116	90	100	2	2%	8		3	
		RVL-38	Lower Rideau Lake	2	186	301	100	1	0%	6		3	
		RVL-39	Big Rideau Lake	2	48	228	100	0	0%	4		3	
		SHE-01	Sheldons Creek @ Old Kingston Road	2	510	18	100	5	28%	78		31	
		WES-01	Westport Dam	2	18	17	100	0	0%	9		7	
	Tay River	18003300802	Tay River, 1.5km downstream of Perth lagoons	4	160	7	100	2	29%	58		35	
		18003302302	Tay River, Bolingbroke Station Rd, at dam, Bolingbroke	4	12	8	100	0	0%	6		5	
		EAG-01	Eagle Creek u/s Bobs Lake	2	280	21	100	4	19%	54		25	
		FIS-01	Fish Creek	3	220	7	100	3	43%	80		38	
		FIS-03	Fish Creek @ County Road 38	5	750	22	100	10	45%	114	YES	63	
		FIS-A	Fish Creek u/s Bobs Lake	18	270	13	100	2	15%	64		41	
		GRT-01	Grants Creek @ Glen Tay Road	10	460	32	100	10	31%	93		55	
		GRT-02	Grants Creek @ Upper Scotch Line	2	1000	31	100	24	77%	281	YES	168	YES
		GRT-03	Grants Creek @ County Road 10	2	840	32	100	4	13%	56		20	
		GRT-04	Grants Creek @ Pike Lake Dam	2	410	32	100	2	6%	23		8	
		GRT-05	Grants Creek d/s Upper Scotch Line	18	950	17	100	14	82%	255	YES	168	YES
		JEB-01	Jebbs Creek @ County Road 1	2	380	30	100	3	10%	41		20	
		RUD-01	Ruddsdale Creek @ Christie Lake Road	4	530	28	100	9	32%	104	YES	52	
		RVL-01	Pike Lake	1	198	204	100	1	0%	6		3	
		RVL-02	O'Brien Lake	2	10	9	100	0	0%	3		2	
		RVL-03	Farren Lake	2	8	42	100	0	0%	2		2	
		RVL-04	Crosby Lake	2	6	46	100	0	0%	2		2	
		RVL-05	Little Crosby Lake	2	3	14	100	0	0%	2		2	
		RVL-06	Davern Lake	2	6	21	100	0	0%	2		2	
		RVL-07	Little Silver Lake	2	12	47	100	0	0%	3		3	
		RVL-08	Rainbow Lake	2	8	12	100	0	0%	3		3	
		RVL-09	Eagle Lake	1	36	42	100	0	0%	4		3	
		RVL-10	Otty Lake	1	40	52	100	0	0%	6		3	
		RVL-16	Bob's Lake, Buck Bay	2	14	27	100	0	0%	3		3	
		RVL-17	Bob's Lake, Green Bay	2	46	81	100	0	0%	5		3	
		RVL-18	Bob's Lake, West Basin	1	200	86	100	4	5%	15		4	
		RVL-19	Bob's Lake, Mud Bay	1	62	29	100	0	0%	7		4	
		RVL-20	Bob's Lake, Norris Bay	1	44	24	100	0	0%	5		3	
		RVL-21	Bob's Lake, E. Basin, Long Bay	2	16	35	100	0	0%	5		3	
		RVL-22	Bob's Lake, C. Narrows	2	10	9	100	0	0%	3		2	
		RVL-23	Bob's Lake, Mill Bay	2	10	14	100	0	0%	5		4	
		RVL-24	Crow Lake	2	50	90	100	0	0%	4		3	
		RVL-25	Christie Lake	2	86	125	100	0	0%	6		4	
		RVL-28	Leggatt Lake	1	200	34	100	1	3%	12		4	
		RVL-29	Long Lake (West)	1	44	60	100	0	0%	6		3	



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				Min	Max	# of Samples	PWQO criteria	# Samples Exceed.	% Samples Exceed.	Avg.	Avg. Exceed.	Geo. Mean	Geomean Exceed.
		RVL-30	Elbow Lake	2	116	47	100	1	2%	17		10	
		RVL-31	Carnahan Lake	1	106	44	100	1	2%	12		5	
		SNY-03	Scotts Snye @ Upper Scotch Line	4	290	22	100	6	27%	78		51	
		STU-01	Stub Creek @ Babcock Road u/s Long Lake	2	370	21	100	3	14%	55		27	
		TAY-01	Tay River @ Port Elmsley	2	370	32	100	6	19%	66		39	
		TAY-04	Tay River @ Rogers Road (Perth)	6	420	31	100	10	32%	91		60	
		TAY-05	Tay River @ Glen Tay	2	156	33	100	6	18%	47		29	
		TAY-08	Tay River @ Gore Street (Perth)	10	330	34	100	6	18%	77		59	
		TAY-09	Tay River @ Adams Pond	2	200	32	100	2	6%	38		22	
		TAY-11	Tay River u/s of Tay Marsh	2	590	32	100	7	22%	82		32	
		TAY-15	Tay River d/s of Christie Lake	2	110	31	100	2	6%	13		5	
		TAY-16	Tay River @ Bolingbroke	2	100	31	100	1	3%	12		6	
		TAY-19	Tay River @ Craig St. (Perth)	10	370	32	100	13	41%	102	YES	76	
		UEN-01	Uens Creek @ Babcock Road u/s Long Lake	2	91	17	100	0	0%	34		20	

- Notes:** CCME - Canadian Council of Ministers of the Environment  
 CWQG - Canadian Water Quality Guidelines, CCME  
 EC - Environment Canada  
 MOE - Ontario Ministry of the Environment  
 MVC WW - Mississippi Valley Conservation - Watershed Watch  
 ODWQS - Ontario Drinking Water Quality Standards, MOE  
 ODWSOG - Ontario Drinking Water Standards, Objectives and Guidelines, MOE  
 Ottawa - City of Ottawa - Surface Water Quality Monitoring  
 PWQMN - Provincial Water Quality Monitoring Network  
 PWQO - Provincial Water Quality Objectives, MOE  
 RVCA SW - Rideau Valley Conservation Authority - Surface Water Quality Monitoring  
 RVCA WW - Rideau Valley Conservation Authority - Watershed Watch  
 SSWQO - Saskatchewan Surface Water Quality Objectives

- 1 - PWQO criteria for pH must be between the range of 6.5 - 8.5  
 2 - PWQO criteria for lead varies depending on alkalinity concentration - see PWQO, MOE