September 2026 (Sixteenth Assessment) Semi-Annual Sampling Analytical Results
RPL Whitewater Valley Station
Richmond, Indiana

Chemical Name	Location ID:	UPGRADIENT				DOWNGRADIENT											
		MW-AS	MW-FS	MW-GSR	MW-GSR DUP	MW-BS	MW-CS	MW-DS	MW-ES	MW-HS	MW-IS	MW-JS	MW-KS[1]	MW-LS[1]	MW-MS[1]	MW-NS[1]	MW-OS[1]
	Sample Date:	9/16/2026	9/16/2026	9/16/2026	9/16/2026	9/15/2026	9/15/2026	9/15/2026	9/15/2026	9/15/2026	9/16/2026	9/15/2026	9/15/2026	9/15/2026	9/15/2026	9/15/2026	9/16/2026
	Unit																
Antimony, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic, Total[2]	mg/L	0.0015	ND	ND	ND	ND	0.0025	ND	0.0064	0.0023	0.0011	0.0014	0.0078	0.0025	0.0013	0.0039	0.0031
Barium, Total[2]	mg/L	0.111	0.0228	0.0135	0.0138	0.0187	0.0272	0.0282	0.0874	0.0657	0.0291	0.0751	0.0966	0.0387	0.0435	0.0816	0.0575
Beryllium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	0.00027	ND	ND	ND	0.00066	ND	ND	ND	ND
Boron, Total	mg/L	0.218	9.79	1.22	1.17	4.54	2.69	5.1	4.98	1.42	1.7	0.589	7.77	4.27	2.54	2.12	2.67
Cadmium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	0.0005	0.00022	ND	ND	ND	ND	ND	0.00025	ND
Calcium, Total	mg/L	98.9	289	524	523	270	276	329	372	232	325	94.1	377	323	241	218	231
Chloride	mg/L	159	30.1	35	35.7	135	42.6	145	38.8	62.9	572	28.3	90.8	116	61.2	36.1	51.5
Chromium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	0.0078	ND	ND	ND	0.0076	0.004	0.0027	0.005	0.0027
Cobalt, Total[2]	mg/L	0.006	0.0014	0.0121	0.0119	0.0011	0.0012	ND	0.0047	0.0026	0.0084	0.0013	0.0041	0.0021	0.0019	0.0026	0.0019
Fluoride[2]	mg/L	0.13	ND	0.13	0.13	0.24	0.33	ND	0.12	0.43	0.67	0.15	0.12	ND	0.17	0.28	0.17
Lead, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	0.0073	ND	ND	ND	0.0098	0.003	0.0015	0.0047	0.0026
Lithium, Total[2]	mg/L	ND	0.2	0.103	0.108	0.062	0.0715	0.047	0.107	0.051	0.0209	ND	0.164	0.0646	0.0538	0.0491	0.029
Mercury, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum, Total[2]	mg/L	0.005	0.0705	ND	ND	0.104	0.074	0.0074	0.0268	0.0421	0.0292	0.0088	0.0252	0.0118	0.0124	0.0285	0.0141
pH, Lab	s.u.	7.2	7.2	6.7	6.7	7.3	7.2	6.9	6.9	6.9	7.4	7.1	7.0	7.0	7.0	7.1	7.0
Radium-226[2]	pCi/L	0.998	-0.274	0.0611	0.305	0	0.126	0	0.786	-0.0624	0.221	0.190	0.806	0.191	0.570	0.0644	0.604
Radium-228[2]	pCi/L	0.477	0.804	0.294	1.28	0.639	0.845	0.684	0.414	0.353	0.919	0.537	1.11	0.864	0.430	0.618	0.290
Total Radium[2]	pCi/L	1.48	0.804	0.355	1.59	0.639	0.971	0.684	1.20	0.353	1.14	0.727	1.92	1.06	1.000	0.682	0.894
Selenium, Total[2]	mg/L	ND	ND	ND	ND	ND	0.0132	ND	0.0025	0.0134	ND	0.0053	0.0046	0.001	0.0034	0.0079	0.0012
Sulfate	mg/L	83.6	693	1820	1870	923	597	819	884	485	1180	105	1050	773	477	436	476
Thallium, Total[2]	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Dissolved Solids, Lab	mg/L	640	1280	3120	3120	1760	1380	1850	1790	1260	2840	510	1850	1640	1130	952	1080
Field Parameters[3]																	
Temperature	°C	15.72	14.53	16.40	16.40	13.37	15.03	15.59	16.80	16.46	23.90	20.45	16.97	16.43	18.31	18.40	15.00
Conductivity	mS/cm	1.18	1.66	3.30	3.30	2.30	1.87	2.37	2.23	1.85	1.52	1.18	2.34	2.18	1.70	1.39	1.45
pH	s.u.	7.22	7.26	6.72	6.72	7.38	7.15	6.94	7.00	6.67	7.04	7.02	6.95	7.14	6.99	7.15	7.25
Turbidity	NTU	1.60	1.80	0.40	0.40	0.50	0.30	1.10	254	0.20	4.80	46.0	230	131	31.0	82.0	77.5
Total Dissolved Solids	g/L	0.756	1.06	2.11	2.11	1.47	1.20	1.52	1.43	1.19	0.97	0.75	1.50	1.4	1.09	0.890	0.928
Dissolved Oxygen	mg/L	0.00	2.53	2.86	2.86	0.29	0.07	0.33	3.20	0.03	3.17	2.55	11.30	3.65	2.71	4.58	2.70
Oxygen-Reduction Potential	mV	-35	104	163	163	21	93	-1	59	68	141	88	73	119	142	134	147

Notes:

1 MW-KS, MW-LS, MW-MS, MW-NS, and MW-OS were installed in July 2020.

2 Shading of the chemical name indicates that the parameter is included in "Appendix IV to Part 257-Consituents for Assessment Monitoring" of the CCR Rule.

3 Field measurements recorded when the readings stabilized during purging.

mg/L - milligrams per liter

$CaCO_3$ - calcium carbonate

s.u. - Standard Units

pCi/L - Picocuries per liter

°C - degrees Celsius

NTU - Nephelometric Turbidity Unit

g/L - grams per liter

mV - millivolts

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