

Summary of Surface Water Quality Data for 5 Quarters SW-1

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.009	0.0308	0.0199		4
Aluminum, total recoverable	mg/L	0.03	0.183	0.073		4
Arsenic, dissolved	mg/L	0.0002	0.0011	0.0006		4
Arsenic, total recoverable	mg/L	0.0008	0.0018	0.0013		4
Bicarbonate as CaCO ₃	mg/L	21.4	27.4	25.43		4
Cadmium, dissolved	mg/L	0.00032	0.0022	0.0012		4
Calcium, dissolved	mg/L	16.3	34.2	25.0		4
Carbon, dissolved organic	mg/L	1	1.1	1.1	1	3
Carbonate as CaCO ₃	mg/L	2	2	2	4	4
Chloride	mg/L	0.5	0.74	0.58	2	3
Copper, dissolved	mg/L	0.0008	0.00134	0.0009	3	4
Fluoride	mg/L	0.1	0.18	0.1	2	4
Hardness as CaCO ₃ (dissolved)	mg/L	44	94	68		4
Hydroxide as CaCO ₃	mg/L	2	2	2	4	4
Iron, dissolved	mg/L	0.007	0.015	0.011	1	3
Iron, total recoverable	mg/L	0.074	0.168	0.132		4
Lead, dissolved	mg/L	0.0001	0.00214	0.0006	2	4
Magnesium, dissolved	mg/L	0.7	2.01	1.4		4
Manganese, dissolved	mg/L	0.07	0.859	0.42		4
Mercury, total (low level)	ng/L	0.3	1.69	0.7	2	4
Nitrate/Nitrite as N	mg/L	0.15	0.324	0.23		4
Potassium, dissolved	mg/L	0.2	0.54	0.3	1	4
Silver, dissolved	mg/L	0.0001	0.0001	0.0001	4	4
Sodium, dissolved	mg/L	1.04	3.07	2.00		4
Sulfate	mg/L	24.2	73.9	49.6		4
Total Alkalinity	mg/L	21.4	27.4	25.4		4
Total Dissolved Solids	mg/L	54	136	99		4
Total Suspended Solids	mg/L	5	5	5	4	4
Zinc, dissolved	mg/L	0.13	0.693	0.37		4
pH (field)	s.u.	6.81	8.28	7.62		4
Water Temperature (field)	deg. C	6.9	14.3	10.6		4
ORP (field)	mV	185	326	222		4
Conductivity (field)	µS/cm	222.5	286	251		4
Dissolved Oxygen (field)	%	73.3	92	83		4
Flow (field)	CFS	0.08	5.73	2.35		4

Summary of Surface Water Quality Data for 5 Quarters SW-2

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.005	0.0139	0.008	3	5
Aluminum, total recoverable	mg/L	0.005	0.105	0.072	1	5
Arsenic, dissolved	mg/L	0.00032	0.00096	0.00065		5
Arsenic, total recoverable	mg/L	0.0004	0.0026	0.0014		5
Bicarbonate as CaCO ₃	mg/L	20.6	33.8	29.1		5
Cadmium, dissolved	mg/L	0.00005	0.00046	0.00019	1	5
Calcium, dissolved	mg/L	13.9	31.3	23.7		5
Carbon, dissolved organic	mg/L	1	4.3	2	1	4
Carbonate as CaCO ₃	mg/L	2	2	2	5	5
Chloride	mg/L	0.5	0.7	0.6	3	5
Copper, dissolved	mg/L	0.0008	0.0018	0.0010	4	5
Fluoride	mg/L	0.1	0.25	0.2	1	5
Hardness as CaCO ₃ (dissolved)	mg/L	40	88	67		5
Hydroxide as CaCO ₃	mg/L	2	2	2	5	5
Iron, dissolved	mg/L	0.007	0.0079	0.007	4	5
Iron, total recoverable	mg/L	0.007	0.129	0.079	1	5
Lead, dissolved	mg/L	0.0001	0.00036	0.0002	1	5
Magnesium, dissolved	mg/L	1.2	2.44	2.0		5
Manganese, dissolved	mg/L	0.01	0.19	0.05	3	5
Mercury, total (low level)	ng/L	0.3	1.52	0.8	1	5
Nitrate/Nitrite as N	mg/L	0.04	0.194	0.09		5
Potassium, dissolved	mg/L	0.2	0.4	0.3		5
Silver, dissolved	mg/L	0.0001	0.0001	0.0001	5	5
Sodium, dissolved	mg/L	0.8	2.15	1.6		5
Sulfate	mg/L	26.6	59.6	42.0		5
Total Alkalinity	mg/L	20.6	33.8	29.1		5
Total Dissolved Solids	mg/L	54	134	94		5
Total Suspended Solids	mg/L	5	5	5	4	5
Zinc, dissolved	mg/L	0.02	0.146	0.07	1	5
pH (field)	s.u.	6.57	8.18	7.69		5
Water Temperature (field)	deg. C	1.1	11.1	7.5		5
ORP (field)	mV	146	366	221		5
Conductivity (field)	µS/cm	7	390	128		5
Dissolved Oxygen (field)	%	72.4	100	86		5
Flow (field)	CFS	1.14	33.87	13.7		5

Summary of Surface Water Quality Data for 5 Quarters SW-3

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.005	0.005	0.005	5	5
Aluminum, total recoverable	mg/L	0.01	0.726	0.16		5
Arsenic, dissolved	mg/L	0.00059	0.0015	0.0010		5
Arsenic, total recoverable	mg/L	0.00085	0.00393	0.0019		5
Bicarbonate as CaCO ₃	mg/L	35.3	326	97		5
Cadmium, dissolved	mg/L	0.00012	0.000317	0.00023		5
Calcium, dissolved	mg/L	35.8	57.1	44.0		5
Carbon, dissolved organic	mg/L	1	2.1	1	2	4
Carbonate as CaCO ₃	mg/L	2	5.5	3	4	5
Chloride	mg/L	0.53	9.26	2.55		5
Copper, dissolved	mg/L	0.0008	0.0008	0.0008	5	5
Fluoride	mg/L	0.19	0.23	0.21		5
Hardness as CaCO ₃ (dissolved)	mg/L	96	158	120		5
Hydroxide as CaCO ₃	mg/L	2	2	2	5	5
Iron, dissolved	mg/L	0.007	0.007	0.0070	4	4
Iron, total recoverable	mg/L	0.017	0.584	0.142		5
Lead, dissolved	mg/L	0.0001	0.00201	0.0005	1	5
Magnesium, dissolved	mg/L	1.7	3.74	2.4		5
Manganese, dissolved	mg/L	0.01	0.018	0.01	4	5
Mercury, total (low level)	ng/L	0.4	40.6	10.8		5
Nitrate/Nitrite as N	mg/L	0.28	2.1	0.855		5
Potassium, dissolved	mg/L	0.4	0.82	0.5		5
Silver, dissolved	mg/L	0.0001	0.0001	0.0001	5	5
Sodium, dissolved	mg/L	3.47	5.47	4.28		5
Sulfate	mg/L	51.6	124	83.3		5
Total Alkalinity	mg/L	35.3	332	98.4		5
Total Dissolved Solids	mg/L	140	242	182		5
Total Suspended Solids	mg/L	5	9	6	4	5
Zinc, dissolved	mg/L	0.07	0.226	0.16		5
pH (field)	s.u.	6.89	8.21	7.54		5
Water Temperature (field)	deg. C	-1.1	11	6.1		5
ORP (field)	mV	182	416.8	250		5
Conductivity (field)	µS/cm	13	393	222		3
Dissolved Oxygen (field)	%	71.1	83.1	76.8		3
Flow (field)	CFS	0.51	3.11	1.30		5

Summary of Surface Water Quality Data for 5 Quarters SW-4

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.005	0.0182	0.011	2	5
Aluminum, total recoverable	mg/L	0.0223	0.235	0.097		5
Arsenic, dissolved	mg/L	0.0005	0.00091	0.0007		5
Arsenic, total recoverable	mg/L	0.0007	0.0027	0.0016		5
Bicarbonate as CaCO ₃	mg/L	22.9	39.5	30.6		5
Cadmium, dissolved	mg/L	0.000153	0.000528	0.000340		5
Calcium, dissolved	mg/L	16.2	38.2	27.64		5
Carbon, dissolved organic	mg/L	1	1.2	1	2	4
Carbonate as CaCO ₃	mg/L	2	2	2	5	5
Chloride	mg/L	0.5	1.13	0.7	2	4
Copper, dissolved	mg/L	0.0008	0.0017	0.0010	3	5
Fluoride	mg/L	0.1	0.36	0.2	2	5
Hardness as CaCO ₃ (dissolved)	mg/L	46	106	77		5
Hydroxide as CaCO ₃	mg/L	2	2	2	5	5
Iron, dissolved	mg/L	0.007	0.0089	0.007	3	4
Iron, total recoverable	mg/L	0.0246	0.235	0.115		5
Lead, dissolved	mg/L	0.0002	0.00154	0.0006		5
Magnesium, dissolved	mg/L	1.3	2.61	2.0		5
Manganese, dissolved	mg/L	0.02	0.17	0.07		5
Mercury, total (low level)	ng/L	0.3	14.4	3.9	1	5
Nitrate/Nitrite as N	mg/L	0.1	0.476	0.3		5
Potassium, dissolved	mg/L	0.2	0.63	0.4		5
Silver, dissolved	mg/L	0.0001	0.0001	0.0001	5	5
Sodium, dissolved	mg/L	1.1	3.5	2.3		5
Sulfate	mg/L	30.1	76.4	50.8		5
Total Alkalinity	mg/L	22.9	39.5	30.6		5
Total Dissolved Solids	mg/L	64	162	113		5
Total Suspended Solids	mg/L	5	5	5	4	5
Zinc, dissolved	mg/L	0.093	0.233	0.14		5
pH (field)	s.u.	6.72	8.18	7.56		5
Water Temperature (field)	deg. C	1.2	10	6.5		5
ORP (field)	mV	130	322.2	208		5
Conductivity (field)	µS/cm	166	264	217		5
Dissolved Oxygen (field)	%	82.2	91.3	86.4		5
Flow (field)	CFS	2.44	35.8	13.0		5

Summary of Surface Water Quality Data for 5 Quarters SW-15

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.005	0.015	0.009	3	5
Aluminum, total recoverable	mg/L	0.0073	0.13	0.07		5
Arsenic, dissolved	mg/L	0.0005	0.00089	0.00076		5
Arsenic, total recoverable	mg/L	0.00087	0.0034	0.0016		5
Bicarbonate as CaCO ₃	mg/L	20.5	37.4	30.3		5
Cadmium, dissolved	mg/L	0.000063	0.00053	0.00018		5
Calcium, dissolved	mg/L	14.2	35.1	24.5		5
Carbon, dissolved organic	mg/L	1	1.2	1	3	4
Carbonate as CaCO ₃	mg/L	2	2	2	5	5
Chloride	mg/L	0.5	0.65	0.5	3	5
Copper, dissolved	mg/L	0.0008	0.002	0.0010	4	5
Fluoride	mg/L	0.1	0.22	0.2	2	5
Hardness as CaCO ₃ (dissolved)	mg/L	41	99	70		5
Hydroxide as CaCO ₃	mg/L	2	2	2	5	5
Iron, dissolved	mg/L	0.007	0.0088	0.0076	3	5
Iron, total recoverable	mg/L	0.007	0.185	0.081	1	5
Lead, dissolved	mg/L	0.0001	0.0004	0.0002	3	5
Magnesium, dissolved	mg/L	1.3	2.79	2.1		5
Manganese, dissolved	mg/L	0.01	0.23	0.05	2	5
Mercury, total (low level)	ng/L	0.3	1.59	0.7	1	5
Nitrate/Nitrite as N	mg/L	0.03	0.166	0.08		5
Potassium, dissolved	mg/L	0.2	0.51	0.4		5
Silver, dissolved	mg/L	0.0001	0.0001	0.0001	5	5
Sodium, dissolved	mg/L	0.9	2.8	1.9		5
Sulfate	mg/L	22.8	67.6	42.5		5
Total Alkalinity	mg/L	20.5	37.4	30.3		5
Total Dissolved Solids	mg/L	50	154	97		5
Total Suspended Solids	mg/L	5	5	5	5	5
Zinc, dissolved	mg/L	0.025	0.11	0.05		5
pH (field)	s.u.	6.58	8.25	7.71		5
Water Temperature (field)	deg. C	-0.5	11	7.5		5
ORP (field)	mV	157	366.6	247		5
Conductivity (field)	µS/cm	202	268	235		2
Dissolved Oxygen (field)	%	75.4	97.3	82.8		3
Flow (field)	CFS	0.276	42.45	14.27		5

Summary of Surface Water Quality Data for 5 Quarters SW-16

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.005	0.141	0.034	2	5
Aluminum, total recoverable	mg/L	0.03	0.24	0.11		5
Arsenic, dissolved	mg/L	0.0007	0.00163	0.0010		5
Arsenic, total recoverable	mg/L	0.0009	0.0024	0.0016		5
Bicarbonate as CaCO ₃	mg/L	22.1	37.8	30.0		5
Cadmium, dissolved	mg/L	0.000079	0.00045	0.00019		5
Calcium, dissolved	mg/L	15.3	34.4	23.8		5
Carbon, dissolved organic	mg/L	1	2.2	1	1	4
Carbonate as CaCO ₃	mg/L	2	2	2	5	5
Chloride	mg/L	0.5	0.57	0.5	3	4
Copper, dissolved	mg/L	0.0008	0.00485	0.0018	2	5
Fluoride	mg/L	0.1	0.22	0.2	2	5
Hardness as CaCO ₃ (dissolved)	mg/L	43	96	67		5
Hydroxide as CaCO ₃	mg/L	2	2	2	5	5
Iron, dissolved	mg/L	0.007	0.126	0.037	3	4
Iron, total recoverable	mg/L	0.031	0.204	0.101		5
Lead, dissolved	mg/L	0.0001	0.00587	0.0013	2	5
Magnesium, dissolved	mg/L	1.1	2.55	1.9		5
Manganese, dissolved	mg/L	0.016	0.15	0.05	1	5
Mercury, total (low level)	ng/L	0.6	2.19	1.2		5
Nitrate/Nitrite as N	mg/L	0.02	0.204	0.09	1	5
Potassium, dissolved	mg/L	0.2	0.55	0.4	1	5
Silver, dissolved	mg/L	0.0001	0.0001	0.0001	5	5
Sodium, dissolved	mg/L	1	2.89	2		5
Sulfate	mg/L	23.9	68.7	42.1		5
Total Alkalinity	mg/L	22.1	37.8	30.0		5
Total Dissolved Solids	mg/L	56	156	95		5
Total Suspended Solids	mg/L	5	9	6	3	5
Zinc, dissolved	mg/L	0.04	0.296	0.12		5
pH (field)	s.u.	6.52	8.25	7.64		5
Water Temperature (field)	deg. C	-1	13.4	8		5
ORP (field)	mV	168	307.6	209		5
Conductivity (field)	µS/cm	22	182.3	120		3
Dissolved Oxygen (field)	%	54	86.6	71		4
Flow (field)	CFS	0.84	44.41	15.79		5

Summary of Surface Water Quality Data for 5 Quarters SW-17

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.005	0.0174	0.008	1	5
Aluminum, total recoverable	mg/L	0.033	0.311	0.132		5
Arsenic, dissolved	mg/L	0.0003	0.00258	0.0008		5
Arsenic, total recoverable	mg/L	0.0004	0.0029	0.0011		5
Bicarbonate as CaCO ₃	mg/L	20.7	50	36		5
Cadmium, dissolved	mg/L	0.00005	0.00005	0.00005	5	5
Calcium, dissolved	mg/L	12.4	46.9	24.6		5
Carbon, dissolved organic	mg/L	1	2.1	1		4
Carbonate as CaCO ₃	mg/L	2	2	2	5	5
Chloride	mg/L	0.5	6.72	1.8	2	5
Copper, dissolved	mg/L	0.0008	0.001	0.0008	4	5
Fluoride	mg/L	0.1	0.68	0.2	4	5
Hardness as CaCO ₃ (dissolved)	mg/L	35	125	68		5
Hydroxide as CaCO ₃	mg/L	2	2	2	5	5
Iron, dissolved	mg/L	0.007	0.0121	0.008	4	5
Iron, total recoverable	mg/L	0.028	0.205	0.100		5
Lead, dissolved	mg/L	0.0001	0.0001	0.0001	5	5
Magnesium, dissolved	mg/L	1.02	2.42	1.70		5
Manganese, dissolved	mg/L	0.01	0.01	0.01	5	5
Mercury, total (low level)	ng/L	0.56	1.29	0.78		5
Nitrate/Nitrite as N	mg/L	0.042	0.223	0.097		5
Potassium, dissolved	mg/L	0.2	0.38	0.3	3	5
Silver, dissolved	mg/L	0.0001	0.00122	0.0003	4	5
Sodium, dissolved	mg/L	0.43	5.95	1.88		5
Sulfate	mg/L	18.7	89.5	43.1		5
Total Alkalinity	mg/L	20.7	50	36		5
Total Dissolved Solids	mg/L	46	204	94		5
Total Suspended Solids	mg/L	5	6	5	3	5
Zinc, dissolved	mg/L	0.02	0.02	0.02	5	5
pH (field)	s.u.	6.64	8.15	7.65		5
Water Temperature (field)	deg. C	3.8	9.8	6.3		5
ORP (field)	mV	172	367.4	214		5
Conductivity (field)	µS/cm	5	321	132		4
Dissolved Oxygen (field)	%	76.7	99	85		5
Flow (field)	CFS	1.8	23	12		5

Summary of Surface Water Quality Data for 5 Quarters SW-21

Analyte	Units	Minimum	Maximum	Average	Nondetect Count	Sample Count
Aluminum, dissolved	mg/L	0.005	0.0214	0.010	3	4
Aluminum, total recoverable	mg/L	0.0185	0.298	0.142	3	4
Arsenic, dissolved	mg/L	0.00076	0.00094	0.00087		4
Arsenic, total recoverable	mg/L	0.00096	0.0022	0.0015	2	4
Bicarbonate as CaCO ₃	mg/L	26.4	40.7	35.6	3	4
Cadmium, dissolved	mg/L	0.000073	0.000238	0.00017		4
Calcium, dissolved	mg/L	19.4	37.2	29.4	3	4
Carbon, dissolved organic	mg/L	1	1.2	1	2	3
Carbonate as CaCO ₃	mg/L	2	2	2	4	4
Chloride	mg/L	0.5	1.28	0.8	2	4
Copper, dissolved	mg/L	0.0008	0.00101	0.0009	3	4
Fluoride	mg/L	0.15	0.24	0.20	1	4
Hardness as CaCO ₃ (dissolved)	mg/L	55	103	82	3	4
Hydroxide as CaCO ₃	mg/L	2	2	2	4	4
Iron, dissolved	mg/L	0.007	0.0121	0.009	2	3
Iron, total recoverable	mg/L	0.0219	0.259	0.135	3	4
Lead, dissolved	mg/L	0.00011	0.00066	0.00034	1	4
Magnesium, dissolved	mg/L	1.51	2.53	2.08	3	4
Manganese, dissolved	mg/L	0.01	0.023	0.01	2	4
Mercury, total (low level)	ng/L	0.4	2.99	1.5	1	4
Nitrate/Nitrite as N	mg/L	0.14	0.414	0.28	3	4
Potassium, dissolved	mg/L	0.31	0.62	0.46		4
Silver, dissolved	mg/L	0.0001	0.0001	0.0001	4	4
Sodium, dissolved	mg/L	1.26	3.54	2.51	3	4
Sulfate	mg/L	33	69.6	50.5	3	4
Total Alkalinity	mg/L	26.4	40.7	35.6	3	4
Total Dissolved Solids	mg/L	80	158	122	3	4
Total Suspended Solids	mg/L	5	8	6	2	4
Zinc, dissolved	mg/L	0.063	0.11	0.08	3	4
pH (field)	s.u.	7.92	8.1	8.0		3
Water Temperature (field)	deg. C	0.6	8	5		3
ORP (field)	mV	168	347.5	249		3
Conductivity (field)	µS/cm	212.6	212.6	212.6		1
Dissolved Oxygen (field)	%	91.7	96.9	94.3		2
Flow (field)	CFS	5.48	44.01	24.75		2