

Appendix 1. Results for basic water chemistry samples from eight nested wells around Shell Lake. (United States Department of Interior, Geological Survey, MULTIPLE STATION ANALYSES - SIR 2013–5181)

[Abbreviations: CaCO3, calcium carbonate; fltrd, filtered; fxd end lab, fixed-endpoint laboratory titration; mg/L, milligrams per liter; org-N, organic nitrogen. Numbers in parentheses are USGS laboratory parameter codes]

Station number	Site ID	Record number	Date	Time	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Hardness water, mg/L as CaCO ₃ (00900)	Alkalinity, wat fltrd fxd end lab, mg/L as CaCO ₃ (29801)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L as P (00666)
454458091525701	10S	702865	07-24-2007	1815	8.4	3.5	35	39	4.3	2.1	1.63	<.019	0.74
454458091525701	10S	802196	05-28-2008	1920	8.2	3.5	35	40	2.5	1.7	1.39	<.019	0.626
454458091525701	10S	905596	09-23-2009	1700	6.7	3.1	30	41	2.8	1.9	1.49	<.019	0.8
454458091525702	10D	702868	07-25-2007	1900	15.4	4.1	55	56	2.1	0.65	0.381	<.019	0.188
454458091525702	10D	802203	05-28-2008	1810	15.4	4.2	56	56	2.1	0.47	0.397	<.019	0.187
454458091525702	10D	1000384	01-13-2010	1400	15.2	4.2	55	56	2.4	0.39	0.368	<.019	0.183
454323091530501	20S	702863	07-26-2007	700	--	--	--	--	--	--	--	--	--
454323091530501	20S	905694	07-15-2009	1415	16.6	7.8	74	62	7.8	<.14	<.015	<.019	0.079
454323091530502	20D	702864	07-26-2007	900	33.6	9.6	123	86	25.7	0.18	0.045	<.019	0.054
454323091530502	20D	802201	05-29-2008	1140	32.4	9.5	120	86	23.6	<.14	0.046	<.019	0.068
454323091530502	20D	905595	09-23-2009	1305	29.5	9.4	112	88	18.9	<.14	0.04	<.019	0.057
454301091542901	30S	702862	07-25-2007	945	--	--	--	--	--	--	--	--	--
454301091542901	30S	802204	05-29-2008	1415	46.3	19.5	196	204	2.6	0.43	0.036	<.019	0.035
454301091542901	30S	905696	07-15-2009	1210	43.6	18	183	153	7.2	0.31	<.015	<.019	0.035
454301091542902	30D	702867	07-25-2007	830	28.8	9.6	111	101	1.2	<.14	<.015	0.268	0.069
454301091542902	30D	802194	05-29-2008	1500	26.7	9.1	104	97	1.3	<.14	<.015	0.28	0.095
454301091542902	30D	905695	07-15-2009	1110	27	9.2	105	98	1.4	<.14	<.015	0.287	0.074
454447091545901	40S	702866	07-25-2007	1630	3.9	1.3	15	14	2.2	0.25	<.015	0.035	0.013
454447091545901	40S	802199	05-29-2008	910	4.3	1.4	17	15	2.2	0.19	0.029	0.267	0.012
454447091545902	40D	802198	05-29-2008	945	4.8	1.7	19	18	3	0.2	<.015	0.452	<.005
454447091545902	40D	905597	09-23-2009	1900	10.2	3.9	42	26	18.9	<.14	<.015	1.32	0.005
454401091523700	PZ1	905690	07-14-2009	1620	--	--	--	--	--	--	--	--	0.013
454401091523700	PZ1	905589	09-22-2009	1510	--	--	--	--	--	--	--	--	0.038
454332091525500	PZ2	905689	07-14-2009	1540	--	--	--	--	--	--	--	--	0.26
454332091525500	PZ2	905590	09-22-2009	1620	--	--	--	--	--	--	--	--	0.355
454308091532500	PZ3	905688	07-14-2009	1710	--	--	--	--	--	--	--	--	0.544
454308091532500	PZ3	905591	09-22-2009	1705	--	--	--	--	--	--	--	--	0.63
454300091535400	PZ4	905687	07-14-2009	1800	--	--	--	--	--	--	--	--	0.416
454300091535400	PZ4	905592	09-22-2009	1820	--	--	--	--	--	--	--	--	0.463
454300091541400	PZ5	905686	07-14-2009	1840	--	--	--	--	--	--	--	--	0.016
454300091541400	PZ5	905593	09-23-2009	910	--	--	--	--	--	--	--	--	0.019
454310091550000	PZ6	905685	07-14-2009	1930	--	--	--	--	--	--	--	--	0.019
454310091550000	PZ6	905594	09-23-2009	1005	--	--	--	--	--	--	--	--	0.017

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454458091525701	10S	905596	09-23-2009	1700	6.7	3.1	30	41	2.8	1.9	1.49	<.019	0.8
454458091525702	10D	702868	07-25-2007	1900	15.4	4.1	55	56	2.1	0.65	0.381	<.019	0.188
454458091525702	10D	802203	05-28-2008	1810	15.4	4.2	56	56	2.1	0.47	0.397	<.019	0.187
454458091525702	10D	1000384	01-13-2010	1400	15.2	4.2	55	56	2.4	0.39	0.368	<.019	0.183
454323091530501	20S	702863	07-26-2007	700	--	--	--	--	--	--	--	--	--
454323091530501	20S	905694	07-15-2009	1415	16.6	7.8	74	62	7.8	<.14	<.015	<.019	0.079
454323091530502	20D	702864	07-26-2007	900	33.6	9.6	123	86	25.7	0.18	0.045	<.019	0.054
454323091530502	20D	802201	05-29-2008	1140	32.4	9.5	120	86	23.6	<.14	0.046	<.019	0.068
454323091530502	20D	905595	09-23-2009	1305	29.5	9.4	112	88	18.9	<.14	0.04	<.019	0.057
454301091542901	30S	702862	07-25-2007	945	--	--	--	--	--	--	--	--	--
454301091542901	30S	802204	05-29-2008	1415	46.3	19.5	196	204	2.6	0.43	0.036	<.019	0.035
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454447091545902	40D	802198	05-29-2008	945	4.8	1.7	19	18	3	0.2	<.015	0.452	<.005
454447091545902	40D	905597	09-23-2009	1900	10.2	3.9	42	26	18.9	<.14	<.015	1.32	0.005
454401091523700	PZ1	905690	07-14-2009	1620	--	--	--	--	--	--	--	--	0.013
454401091523700	PZ1	905589	09-22-2009	1510	--	--	--	--	--	--	--	--	0.038
454332091525500	PZ2	905689	07-14-2009	1540	--	--	--	--	--	--	--	--	0.26
454332091525500	PZ2	905590	09-22-2009	1620	--	--	--	--	--	--	--	--	0.355
454308091532500	PZ3	905688	07-14-2009	1710	--	--	--	--	--	--	--	--	0.544
454308091532500	PZ3	905591	09-22-2009	1705	--	--	--	--	--	--	--	--	0.63
454300091535400	PZ4	905687	07-14-2009	1800	--	--	--	--	--	--	--	--	0.416
454300091535400	PZ4	905592	09-22-2009	1820	--	--	--	--	--	--	--	--	0.463
454300091541400	PZ5	905686	07-14-2009	1840	--	--	--	--	--	--	--	--	0.016
454300091541400	PZ5	905593	09-23-2009	910	--	--	--	--	--	--	--	--	0.019
454310091550000	PZ6	905685	07-14-2009	1930	--	--	--	--	--	--	--	--	0.019
454310091550000	PZ6	905594	09-23-2009	1005	--	--	--	--	--	--	--	--	0.017

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