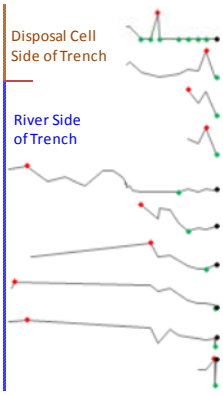
Appendix A

Supplementary Time-Trend Sparkline Plots

This page intentionally left blank

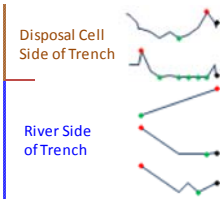
Floodplain Trench 1 Area: Ammonia (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1111		65.2	0.35	8.0	26
1112		17.0	2.3	4.8	8
1140		27.0	4.0	11.8	12
1141		29.9	10.1	10.8	11
0615		51.0	3.1	12.7	9
1105		2.00	0.10	0.12	11
0793		91.0	22.9	22.9	11
1009		25.0	6.9	6.9	4
0853		15.0	10.0	10.0	4
1142		0.13	0.07	0.12	5

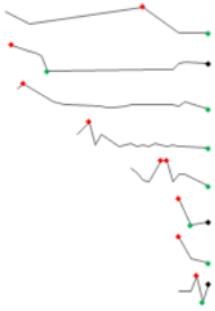
Wells are listed in approximate order of increasing distance from the disposal cell. Wells 0793, 1009, 0853, and 1142 are more distal but designated as Trench 1 area wells for reporting purposes.

Floodplain Trench 2 Area: Ammonia (mg/L)



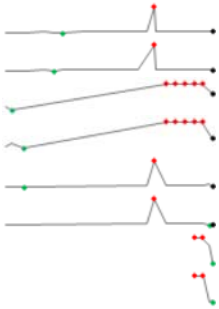
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1115		410	65	268	15
1128		2.0	0.10	0.24	14
1117		470	130	470	4
1132		6.0	0.88	1.1	6
1134		2.0	0.56	1.1	5

Floodplain Well 1089 Area: Ammonia (mg/L)



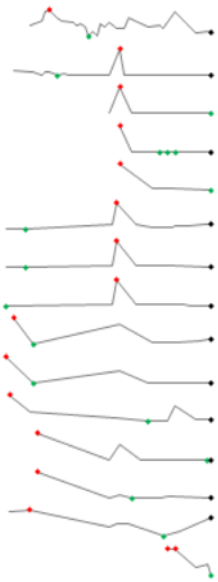
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0766		1.0	0.09	0.09	6
0854		21.7	2.0	7.6	10
1008		51.4	8.5	8.5	15
1089		6.0	0.18	0.18	16
1104		3.4	0.12	0.12	10
1137		0.78	0.54	0.57	3
1138		0.42	0.27	0.27	3
1139		0.17	0.05	0.13	5

North-Northwest Floodplain Area: Ammonia (mg/L)



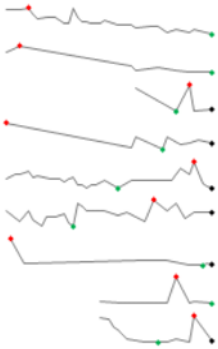
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0734		1.0	0.003	0.091	17
0736		1.0	0.011	0.057	18
0782/0782R		0.100	0.028	0.072	8
0783/0783R		0.100	0.004	0.040	9
0855		1.0	0.004	0.055	12
0856		1.0	0.046	0.073	11
1135		0.100	0.064	0.064	5
1143		0.100	0.050	0.050	5

Central Floodplain Wells: Ammonia (mg/L)



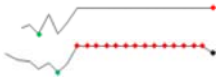
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0618		75.5	27.0	34.4	26
0619		27.0	0.01	0.55	25
0622		1.0	0.06	0.06	7
0623		1.0	0.10	0.10	8
0625		1.0	0.06	0.06	6
0626		1.0	0.01	0.21	12
0628		1.0	0.02	0.05	10
0630		1.0	0.01	0.03	11
0768		1.31	0.02	0.28	9
0775		2.21	0.02	0.06	8
0779		18.0	0.96	2.0	9
0792		1.71	0.06	0.08	11
0798		22.3	0.60	1.25	8
0857		19.2	3.8	14.5	9
1136		0.10	0.04	0.04	5

South-Southeast Floodplain Area: Ammonia (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0608		436	70	70	27
0610		66.5	0.37	0.37	9
0611		10.0	1.6	2.3	5
0612		1.9	0.10	0.51	9
0614		79.0	17.0	17.4	29
0735		25.0	3.8	14.8	25
0773		10.0	0.02	0.51	8
1113		98.0	0.12	0.12	9
1114		440	82.0	103	13

Floodplain Background Wells: Ammonia (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0797		0.10	0.003	0.10	21
0850		0.10	0.004	0.07	22

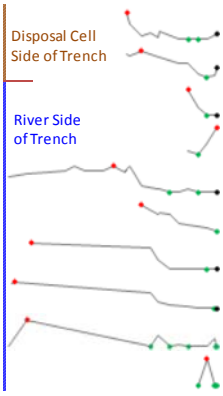
All but most recent results are nondetects, where result = DL value.

Legend

In these sparkline diagrams, red markers denote maximum (max) concentrations and green markers denote minima (min); black markers denote the most recent (current) March 2011 measurement. The x-axis is hidden but corresponds to the Feb-00 to Mar-11 date range noted above each plot. Vertical (y-) axis scales are automatic for each individual well, so magnitudes should not be compared across wells (instead refer to summary statistics).

Figure A–1. Ammonia Concentration Trends in Floodplain Monitoring Wells

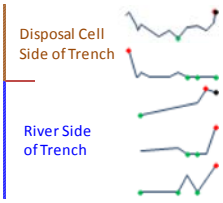
Floodplain Trench 1 Area: Nitrate as N (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1111		1,200	14.0	23	26
1112		171	4.0	7.8	8
1140		0.49	0.01	0.01	12
1141		223	0.01	0.05	11
0615		1,100	60	60	9
1105		139	12	38.8	11
0793		840	230	452	11
1009		320	130	131	4
0853		58.5	29.0	58.5	4
1142		0.08	0.01	0.01	5

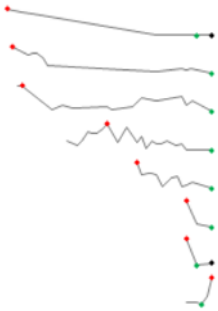
Wells are listed in approximate order of increasing distance from the disposal cell. Wells 0793, 1009, 0853, and 1142 are more distal but designated as Trench 1 area wells for reporting purposes.

Floodplain Trench 2 Area: Nitrate (mg/L)



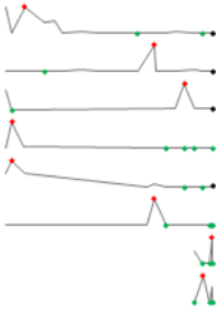
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1115		409	48	400	15
1128		2.300	0.01	0.01	14
1117		560	392	535	4
1132		0.67	0.01	0.67	6
1134		5.14	0.01	5.14	5

Floodplain Well 1089 Area: Nitrate (mg/L)



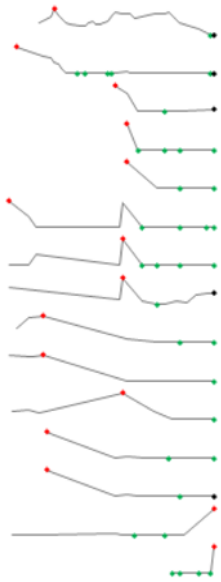
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0766		267	0.01	3.3	7
0854		463	40.6	40.6	11
1008		282	18.4	18.4	15
1089		83	3.8	3.8	22
1104		180	16.3	16.3	12
1137		27.0	4.0	4.0	3
1138		10.0	5.8	6.2	3
1139		29.9	0.1	29.9	5

North-Northwest Floodplain Area: Nitrate (mg/L)



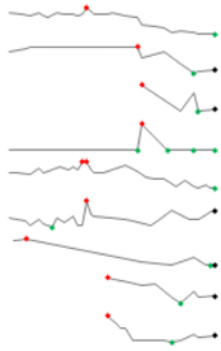
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0734		50.4	0.01	0.36	18
0736		2.3	0.01	0.01	19
0782/0782R		0.03	0.01	0.01	8
0783/0783R		0.82	0.01	0.01	9
0855		16.9	0.01	1.1	13
0856		1.0	0.01	0.01	11
1135		0.05	0.01	0.01	5
1143		0.08	0.01	0.01	5

Central Floodplain Wells: Nitrate (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0618		402	71.0	75	27
0619		29.4	0.01	0.05	25
0622		3.4	0.01	0.36	7
0623		2.3	0.01	0.01	8
0625		2.3	0.01	0.01	6
0626		2.6	0.01	0.01	13
0628		2.3	0.01	0.01	11
0630		28	0.02	12	11
0768		14	0.01	0.01	10
0775		248	0.01	0.01	9
0779		122	0.01	0.01	10
0792		30.0	0.01	0.01	11
0798		203	0.01	0.69	8
0857		33.6	0.01	33.6	10
1136		0.3	0.01	0.25	5

South-Southeast Floodplain Area: Nitrate (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0608		650	83	83	28
0610		780	190	270	10
0611		178	0.5	17	5
0612		0.56	0.01	0.01	9
0614		1,100	353	353	29
0735		1,200	7.1	738	26
0773		370	23.0	27.1	9
1113		1,175	96	391	9
1114		420	27	131	13

Floodplain Background Wells: Nitrate (mg/L)

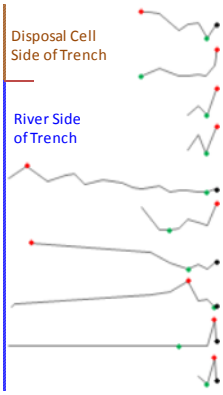
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0797		0.11	0.004	0.010	21
0850		3.30	0.004	0.010	22

Legend

In these sparkline diagrams, red markers denote maximum (max) concentrations and green markers denote minima (min); black markers denote the most recent (current) March 2011 measurement. The x-axis is hidden but corresponds to the Feb-00 to Mar-11 date range noted above each plot. Vertical (y-) axis scales are automatic for each individual well, so magnitudes should not be compared across wells (instead refer to summary statistics).

Figure A–2. Nitrate Concentration Trends in Floodplain Monitoring Wells

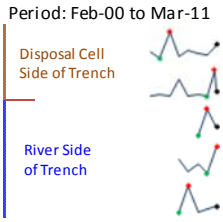
Floodplain Trench 1 Area: Selenium (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1111		1.8	0.11	0.28	20
1112		0.51	0.15	0.25	7
1140		0.008	0.0001	0.002	11
1141		0.34	0.035	0.049	10
0615		0.31	0.047	0.31	8
1105		0.74	0.40	0.57	8
0793		3.07	0.40	3.1	9
1009		1.2	0.14	1.2	4
0853		0.71	0.19	0.71	4
1142		0.008	0.001	0.002	5

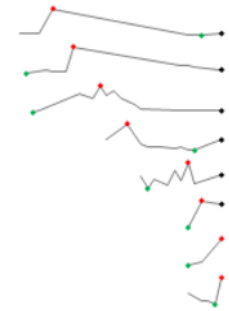
Wells are listed in approximate order of increasing distance from the disposal cell. Wells 0793, 1009, 0853, and 1142 are more distal but designated as Trench 1 area wells for reporting purposes.

Floodplain Trench 2 Area: Selenium (mg/L)



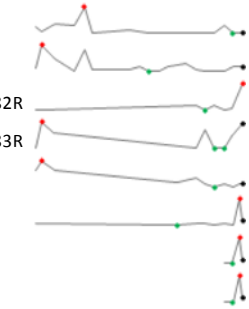
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1115		0.12	0.01	0.07	10
1128		0.008	0.0002	0.002	10
1117		0.03	0.02	0.02	3
1132		0.002	0.0004	0.002	5
1134		0.006	0.0001	0.002	4

Floodplain Well 1089 Area: Selenium (mg/L)



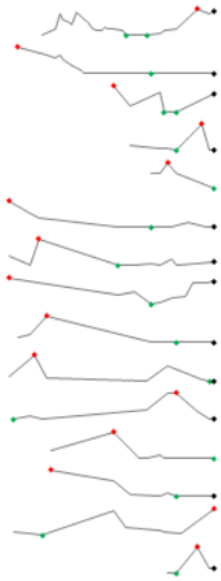
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0766		0.053	0.001	0.005	6
0854		0.076	0.005	0.016	10
1008		0.240	0.009	0.023	14
1089		0.094	0.015	0.046	11
1104		0.047	0.014	0.031	9
1137		0.003	0.002	0.003	3
1138		0.005	0.001	0.005	3
1139		0.025	0.004	0.025	5

North-Northwest Floodplain Area: Selenium (mg/L)



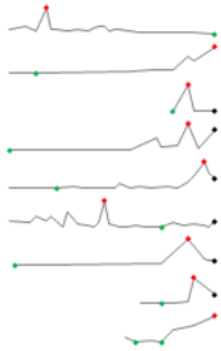
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0734		50.4	0.01	0.36	18
0736		2.3	0.01	0.01	19
0782/0782R		0.03	0.01	0.01	8
0783/0783R		0.82	0.01	0.01	9
0855		16.9	0.01	1.1	13
0856		1.0	0.01	0.01	11
1135		0.05	0.01	0.01	5
1143		0.08	0.01	0.01	5

Central Floodplain Wells: Selenium (mg/L)



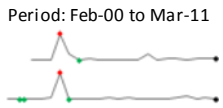
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0618		0.51	0.160	0.48	23
0619		0.48	0.0004	0.002	24
0622		0.29	0.024	0.21	6
0623		0.008	0.001	0.002	7
0625		0.002	0.002	0.002	5
0626		0.037	0.0004	0.002	12
0628		0.027	0.0003	0.004	10
0630		0.123	0.005	0.11	10
0768		0.77	0.001	0.002	9
0775		0.12	0.002	0.002	8
0779		0.024	0.001	0.002	9
0792		1.3	0.002	0.002	10
0798		0.87	0.020	0.036	7
0857		0.002	0.0001	0.002	9
1136		0.008	0.0001	0.002	5

South-Southeast Floodplain Area: Selenium (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0608		0.031	0.002	0.002	23
0610		0.239	0.014	0.239	9
0611		0.084	0.001	0.002	4
0612		0.002	0.000	0.002	8
0614		2.660	0.044	0.990	25
0735		0.270	0.022	0.076	25
0773		0.290	0.012	0.059	8
1113		0.320	0.009	0.111	6
1114		0.016	0.004	0.016	8

Floodplain Background Wells: Selenium (mg/L)



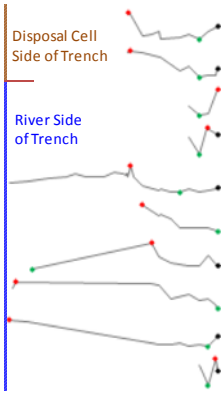
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0797		0.01	0.0001	0.002	21
0850		0.02	0.0001	0.004	22

Legend

In these sparkline diagrams, red markers denote maximum (max) concentrations and green markers denote minima (min); black markers denote the most recent (current) March 2011 measurement. The x-axis is hidden but corresponds to the Feb-00 to Mar-11 date range noted above each plot. Vertical (y-) axis scales are automatic for each individual well, so magnitudes should not be compared across wells (instead refer to summary statistics).

Figure A–3. Selenium Concentration Trends in Floodplain Monitoring Wells

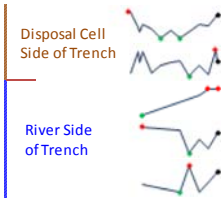
Floodplain Trench 1 Area: Sulfate (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1111		13,185	7,900	10,500	11
1112		14,676	8,300	10,400	11
1140		12,600	7,000	12,600	4
1141		5,200	4,100	4,910	4
0615		30,868	3,500	8,340	26
1105		21,000	8,060	8,060	9
0793		7,300	2,460	3,150	8
1009		4,690	1,830	1,830	11
0853		1,600	330	818	12
1142		156	130	144	5

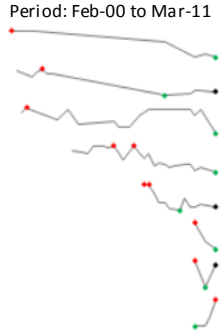
Wells are listed in approximate order of increasing distance from the disposal cell. Wells 0793, 1009, 0853, and 1142 are more distal but designated as Trench 1 area wells for reporting purposes.

Floodplain Trench 2 Area: Sulfate (mg/L)



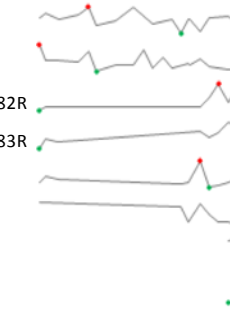
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
1115		7,742	1,500	6,910	15
1128		208	87	154	14
1117		10,000	5,109	10,000	4
1132		168	110	154	6
1134		410	120	342	5

Floodplain Well 1089 Area: Sulfate (mg/L)



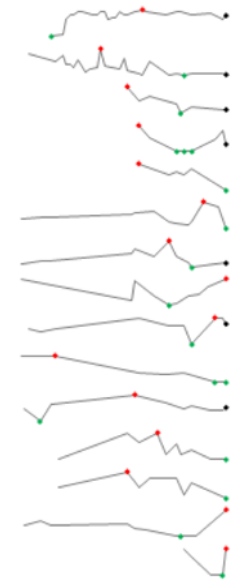
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0766		24,600	5,290	5,290	7
0854		27,000	8,421	11,300	11
1008		19,100	8,070	8,070	15
1089		15,000	4,760	4,760	22
1104		19,000	6,100	7,970	12
1137		3,800	2,010	2,010	3
1138		2,600	1,700	2,450	3
1139		6,740	1,200	6,740	4

North-Northwest Floodplain Area: Sulfate (mg/L)



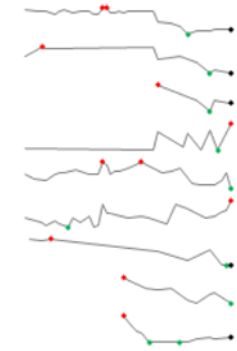
Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0734		11,100	2,200	5,150	18
0736		9,950	3,480	3,590	19
0782/0782R		630	183	459	8
0783/0783R		615	138	615	9
0855		5,300	2,700	3,930	13
0856		3,340	2,600	3,040	11
1135		6,100	4,140	4,140	5
1143		3,090	2,800	3,000	5

Central Floodplain Wells: Sulfate (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0618		15,000	5,560	12,900	27
0619		14,000	2,900	3,320	25
0622		5,600	2,600	3,030	7
0623		3,092	2,700	2,810	8
0625		2,973	2,040	2,040	6
0626		3,990	2,360	2,360	13
0628		4,800	2,200	2,630	11
0630		3,900	2,200	3,900	11
0768		18,600	4,300	15,200	10
0775		13,300	4,180	4,180	9
0779		9,191	3,950	6,660	10
0792		27,000	6,170	6,170	11
0798		18,000	5,620	5,620	8
0857		4,500	470	4,500	10
1136		370	190	370	5

South-Southeast Floodplain Area: Sulfate (mg/L)



Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0608		12,000	3,600	5,130	28
0610		11,300	4,800	4,870	10
0611		6,964	4,900	5,560	5
0612		2,660	250	2,660	9
0614		17,000	8,400	8,400	29
0735		17,200	707	17,200	26
0773		5,630	2,110	2,150	9
1113		13,595	4,080	4,080	9
1114		10,093	1,500	3,190	13

Floodplain Background Wells: Sulfate (mg/L)

Well ID	Period: Feb-00 to Mar-11	Max	Min	Current	N
0797		5,200	240	2,690	21
0850		4,600	210	642	22

Legend

In these sparkline diagrams, red markers denote maximum (max) concentrations and green markers denote minima (min); black markers denote the most recent (current) March 2011 measurement. The x-axis is hidden but corresponds to the Feb-00 to Mar-11 date range noted above each plot. Vertical (y-) axis scales are automatic for each individual well, so magnitudes should not be compared across wells (instead refer to summary statistics).

Figure A–4. Sulfate Concentration Trends in Floodplain Monitoring Wells

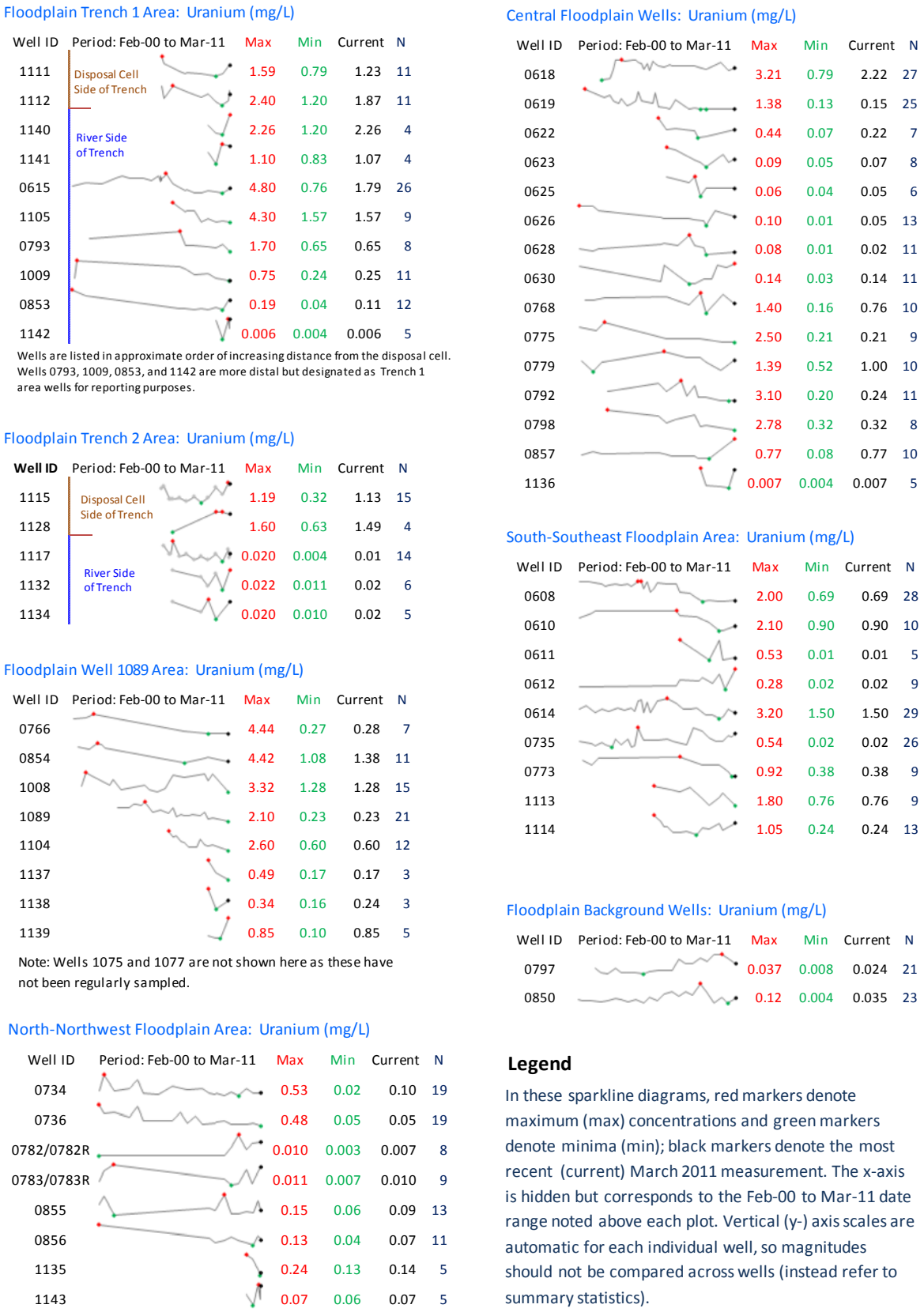


*Figure A–5. Uranium Concentration Trends in Floodplain Monitoring Wells**
**Repeated from Figure 23 in main body of report.*

This page intentionally left blank