

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

NF: No Flow (creek dry)

Location: BDC

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	5.35	NF	NF	5.35	5.35	5.35	1
pH	SU	NF	NF	NF	NF	NF	NF	NF	NF	NF	4.29	NF	NF	4.29	4.29	4.29	1
Temperature	° C	NF	NF	NF	NF	NF	NF	NF	NF	NF	19.2	NF	NF	19.2	19.2	19.2	1
Hardness (total)	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	120	NF	NF	120	120	120	1
Nitrate-Nitrogen	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.043	NF	NF	0.043	0.043	0.043	1
Nitrite-Nitrogen	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	<0.020	NF	NF	<0.020	<0.020	<0.020	0
Phosphorus	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.010	NF	NF	0.010	0.010	0.010	1
Total Organic Carbon	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	3.2	NF	NF	3.2	3.2	3.2	1
Aluminum	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	19.1924	NF	NF	19.1924	19.1924	19.1924	1
Beryllium	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.0211	NF	NF	0.0211	0.0211	0.0211	1
Cadmium	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.0012	NF	NF	0.0012	0.0012	0.0012	1
Chromium	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.0010	NF	NF	0.0010	0.0010	0.0010	1
Copper	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.0053	NF	NF	0.0053	0.0053	0.0053	1
Iron	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	1.1716	NF	NF	1.1716	1.1716	1.1716	1
Mercury	µg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	<0.02000	NF	NF	<0.02000	<0.02000	<0.02000	0
Manganese	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	2.1201	NF	NF	2.1201	2.1201	2.1201	1
Nickel	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.0975	NF	NF	0.0975	0.0975	0.0975	1
Lead	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	< 0.0050	NF	NF	< 0.0050	< 0.0050	< 0.0050	0
Thallium	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	< 0.0100	NF	NF	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	0.2397	NF	NF	0.2397	0.2397	0.2397	1
Total Suspended Solids	mg/L	NF	NF	NF	NF	NF	NF	NF	NF	NF	4	NF	NF	4	4	4	1
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Aroclor 1016	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1221	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1232	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1242	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1248	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1254	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1260	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
alpha-BHC	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
beta-BHC	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
delta-BHC	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
gamma-BHC (Lindane)	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Chlordane	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
4,4'-DDD	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDE	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDT	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Dieldrin	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0

Location: BDC

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan I	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan II	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan sulfate	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin aldehyde	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor epoxide	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Toxaphene	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
2,4-D	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<2.1	N/A	N/A	<2.1	<2.1	<2.1	0
2,4,5-TP (Silvex)	µg/L	NF	N/A	N/A	NF	N/A	N/A	NF	N/A	N/A	<0.53	N/A	N/A	<0.53	<0.53	<0.53	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: surrogate failure

#>LLD - number of samples with value greater than instrument detection limit

Location: FMC-2

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	4.40	8.75	8.68	6.30	4.90	4.51	2.70	1.53	1.45	1.37	4.80	6.92	8.75	1.37	4.69	12
pH	SU	5.56	5.40	4.96	6.07	5.80	6.51	7.20	5.63	5.90	5.88	5.90	5.97	7.20	4.96	5.90	12
Temperature	° C	15.9	13.0	12.6	20.1	16.0	23.0	26.0	29.0	25.4	18.9	9.3	14.2	29.0	9.3	18.6	12
Hardness (total)	mg/L	42	10	<10	<10	<10	<10	<10	<10	17	25	<10	<10	42	10	24	4
Nitrate-Nitrogen	mg/L	0.170	0.081	0.092	0.033	0.170	0.025	0.046	0.021	0.032	0.047	0.210	0.120	0.210	0.021	0.087	12
Nitrite-Nitrogen	mg/L	0.025	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.025	0.025	0.025	1
Phosphorus	mg/L	0.048	0.029	<0.010	<0.010	0.065	0.016	0.019	<0.010	0.130	0.044	0.056	0.025	0.130	0.016	0.048	9
Total Organic Carbon	mg/L	5.9	7.2	6.3	6.9	9.0	9.8	12.0	15.0	27.0	15.0	9.3	8.7	27.0	5.9	11.0	12
Aluminum	mg/L	0.4596	0.3569	0.2654	0.2505	0.2926	0.1909	0.1338	0.2357	0.6248	0.2035	0.2617	0.1527	0.6248	0.1338	0.2857	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	0.0006	< 0.0005	0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	0.0007	< 0.0005	0.0006	< 0.0005	0.0007	0.0005	0.0006	5
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0031	< 0.0010	< 0.0010	< 0.0010	0.0031	0.0031	0.0031	1
Copper	mg/L	0.0035	0.0020	0.0014	< 0.0010	0.0024	< 0.0010	< 0.0010	0.0017	0.0018	< 0.0010	0.0031	< 0.0010	0.0035	0.0014	0.0023	7
Iron	mg/L	1.7967	1.1811	0.6443	1.3123	3.3463	1.4138	1.4098	5.2996	29.3305	11.4198	3.2577	2.6269	29.3305	0.6443	5.2532	12
Mercury	µg/L	<0.02000	0.05871	<0.02000	<0.02000	0.03175	<0.02000	<0.02000	<0.02000	0.02752	<0.02000	<0.02000	<0.02000	0.05871	0.02752	0.03933	3
Manganese	mg/L	0.0969	0.0575	0.1224	0.2167	0.4132	0.1985	0.0612	0.3976	0.6563	0.3322	0.1425	0.0532	0.6563	0.0532	0.2290	12
Nickel	mg/L	0.0020	0.0018	0.0014	< 0.0010	0.0019	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0020	0.0014	0.0018	4
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0065	0.0051	< 0.0050	< 0.0050	0.0065	0.0051	0.0058	2
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0106	< 0.0100	0.0106	0.0106	0.0106	1
Zinc	mg/L	0.0269	0.0158	0.0162	0.0119	0.0176	0.0049	0.0178	0.0086	0.0163	0.0063	0.0166	0.0135	0.0269	0.0049	0.0144	12
Total Suspended Solids	mg/L	5	12	9	3	23	3	1	18	100	28	21	8	100	1	19	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
4,4'-DDT	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Dieldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0

Location: FMC-2

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
2,4-D	µg/L	<2.1	N/A	N/A	<2.0	N/A	N/A	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	<2.0	<2.1	0
2,4,5-TP (Silvex)	µg/L	<0.53	N/A	N/A	<0.51	N/A	N/A	<0.56	N/A	N/A	<0.53	N/A	N/A	<0.56	<0.51	<0.53	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: surrogate failure

#>LLD - number of samples with value greater than instrument detection limit

Location: FM-2B

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	6.10	7.96	7.89	6.77	7.00	5.71	4.86	3.71	3.96	4.89	7.52	6.77	7.96	3.71	6.10	12
pH	SU	5.65	5.28	2.70	6.35	6.70	6.30	5.30	6.02	6.24	5.61	6.09	6.09	6.70	2.70	5.69	12
Temperature	° C	15.1	13.4	11.3	17.4	15.9	23.1	24.0	26.8	24.6	18.4	9.4	14.3	26.8	9.4	17.8	12
Hardness (total)	mg/L	34	12	14	16	18	11	12	22	16	<10	<10	10	34	10	17	10
Nitrate-Nitrogen	mg/L	0.170	0.091	0.200	0.150	0.250	0.030	0.068	0.022	0.053	0.100	0.160	0.130	0.250	0.022	0.119	12
Nitrite-Nitrogen	mg/L	0.023	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.023	0.023	0.023	1
Phosphorus	mg/L	0.045	0.048	<0.010	<0.010	0.140	0.025	0.033	0.018	0.076	0.026	0.024	0.021	0.140	0.018	0.046	10
Total Organic Carbon	mg/L	7.2	8.5	5.6	6.0	7.1	10.0	10.0	16.0	9.7	7.8	6.2	7.4	16.0	5.6	8.5	12
Aluminum	mg/L	0.4068	1.3509	0.2166	0.1879	0.1393	0.2695	0.1615	0.1811	0.1104	0.0753	0.0731	0.0880	1.3509	0.0731	0.2717	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	0.0006	0.0006	0.0006	1
Chromium	mg/L	< 0.0010	0.0015	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0015	0.0015	0.0015	1
Copper	mg/L	0.0032	0.0030	0.0030	0.0019	0.0018	0.0111	< 0.0010	0.0011	< 0.0010	< 0.0010	0.0014	< 0.0010	0.0111	0.0011	0.0033	8
Iron	mg/L	3.6586	1.2418	0.6034	1.1429	1.8767	1.6704	1.9292	8.5075	4.5891	1.6952	1.0486	1.4012	8.5075	0.6034	2.4471	12
Mercury	µg/L	<0.02000	0.04535	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.04535	0.04535	0.04535	1
Manganese	mg/L	0.1226	0.0235	0.0228	0.0346	0.0555	0.0314	0.3537	1.8223	0.5671	0.1058	0.0560	0.0605	1.8223	0.0228	0.2713	12
Nickel	mg/L	0.0033	0.0019	0.0019	< 0.0010	0.0022	0.0041	0.0020	0.0011	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0041	0.0011	0.0024	7
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0237	0.0206	0.0474	0.0161	0.0155	0.0162	0.0119	0.0102	0.0082	0.0086	0.0105	0.0101	0.0474	0.0082	0.0166	12
Total Suspended Solids	mg/L	29	8	1	<1	8	4	2	22	11	5	<1	2	29	1	9	10
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Aroclor 1016	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1221	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1232	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1242	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1248	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1254	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1260	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
alpha-BHC	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
beta-BHC	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
delta-BHC	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
gamma-BHC (Lindane)	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Chlordane	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
4,4'-DDD	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
4,4'-DDE	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
4,4'-DDT	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Dieldrin	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endosulfan I	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0

Location: FM-2B

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endosulfan sulfate	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endrin	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endrin aldehyde	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Heptachlor	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Heptachlor epoxide	µg/L	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Toxaphene	µg/L	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
2,4-D	µg/L	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	<2.1	<2.2	0
2,4,5-TP (Silvex)	µg/L	<0.56	N/A	N/A	<0.52	N/A	N/A	<0.56	N/A	N/A	<0.53	N/A	N/A	<0.56	<0.52	<0.54	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

Location: FM-6

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	9.20	9.62	9.80	8.91	8.50	7.20	6.90	7.39	8.11	8.61	10.20	9.48	10.20	6.90	8.66	12
pH	SU	6.17	6.18	6.05	6.76	7.20	6.65	6.00	6.67	7.19	7.40	6.88	6.00	7.40	6.00	6.60	12
Temperature	° C	17.0	13.8	16.9	23.6	19.0	24.2	26.0	24.5	27.2	18.7	11.6	14.4	27.2	11.6	19.7	12
Hardness (total)	mg/L	32	12	10	21	11	<10	<10	<10	14	11	10	<10	32	10	15	8
Nitrate-Nitrogen	mg/L	0.840	0.670	1.200	1.000	0.720	0.230	0.360	0.570	0.490	0.610	4.500	0.740	4.500	0.230	0.994	12
Nitrite-Nitrogen	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0
Phosphorus	mg/L	0.120	0.093	0.052	0.089	0.120	0.089	0.016	0.140	0.099	0.110	0.086	0.110	0.140	0.016	0.094	12
Total Organic Carbon	mg/L	4.0	8.4	4.7	5.3	5.2	10.0	10.0	7.9	6.0	4.2	4.0	6.4	10.0	4.0	6.3	12
Aluminum	mg/L	0.1192	1.1220	0.1945	0.2136	0.1671	0.4017	0.2736	0.1190	0.0746	0.1075	0.0943	0.1483	1.1220	0.0746	0.2530	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	0.0005	0.0005	1
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	0.0005	0.0005	0.0005	1
Chromium	mg/L	< 0.0010	0.0012	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0012	0.0012	0.0012	1
Copper	mg/L	< 0.0010	0.0021	< 0.0010	0.0013	0.0012	0.0024	0.0016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0019	0.0024	0.0012	0.0018	6
Iron	mg/L	0.7581	1.1206	0.5534	0.8089	1.1422	1.2759	1.5353	1.6085	1.1573	0.8464	0.8185	1.3843	1.6085	0.5534	1.0841	12
Mercury	µg/L	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0
Manganese	mg/L	0.0524	0.0774	0.0502	0.0571	0.0504	0.0593	0.0783	0.0738	0.0568	0.0551	0.0427	0.0668	0.0783	0.0427	0.0600	12
Nickel	mg/L	0.0016	0.0022	< 0.0010	0.0014	0.0018	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0022	0.0014	0.0018	4
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0063	< 0.0050	< 0.0050	0.0063	0.0063	0.0063	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0081	0.0217	0.0097	0.0106	0.0059	0.0126	0.0185	0.0065	0.0089	0.0094	0.0042	0.0203	0.0217	0.0042	0.0114	12
Total Suspended Solids	mg/L	3	9	4	3	4	8	4	4	3	5	2	6	9	2	5	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDT	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Dieldrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0

Location: FM-6

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
2,4-D	µg/L	<2.0	N/A	N/A	<2.1	N/A	N/A	<2.1	N/A	N/A	<2.1	N/A	N/A	<2.1	<2.0	<2.1	0
2,4,5-TP (Silvex)	µg/L	<0.51	N/A	N/A	<0.52	N/A	N/A	<0.52	N/A	N/A	<0.52	N/A	N/A	<0.52	<0.51	<0.52	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

Location: L3R-2

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.97	8.62	9.88	8.93	8.80	7.29	6.43	6.71	7.89	8.38	9.30	8.34	9.88	6.43	8.30	12
pH	SU	6.63	6.05	6.06	6.68	7.20	6.21	6.50	6.97	6.34	6.85	7.53	6.51	7.53	6.05	6.63	12
Temperature	° C	17.0	13.9	15.5	27.2	22.0	24.0	26.0	27.9	24.7	18.5	13.2	15.6	27.9	13.2	20.5	12
Hardness (total)	mg/L	82	38	46	35	45	<10	17	43	40	51	47	50	82	17	45	11
Nitrate-Nitrogen	mg/L	0.110	0.060	0.068	0.048	0.180	0.052	0.120	0.110	0.100	0.068	0.180	0.160	0.180	0.048	0.105	12
Nitrite-Nitrogen	mg/L	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	0.020	0.020	1
Phosphorus	mg/L	0.041	0.042	0.085	0.012	0.041	0.035	0.076	<0.010	0.029	0.032	0.056	0.230	0.230	0.012	0.062	11
Total Organic Carbon	mg/L	3.6	16.0	4.5	4.8	3.7	7.7	6.9	3.1	3.3	2.6	3.1	7.5	16.0	2.6	5.6	12
Aluminum	mg/L	0.0687	0.5205	0.0881	0.0659	0.1198	0.1131	0.0999	0.0546	0.0344	0.0211	0.1061	0.0767	0.5205	0.0211	0.1141	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	0.0006	0.0006	0.0006	1
Chromium	mg/L	< 0.0010	0.0016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0012	< 0.0010	0.0016	0.0012	0.0014	2
Copper	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0
Iron	mg/L	0.4372	0.5443	0.3254	0.3857	0.6301	0.6180	0.6558	0.6264	0.5432	1.3946	1.4455	0.5577	1.4455	0.3254	0.6803	12
Mercury	µg/L	<0.02000	0.02373	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.02373	0.02373	0.02373	1
Manganese	mg/L	0.0858	0.0591	0.0540	0.0549	0.0651	0.0620	0.0646	0.0718	0.0736	0.0457	0.0552	0.0872	0.0872	0.0457	0.0658	11
Nickel	mg/L	0.0013	0.0010	0.0011	< 0.0010	0.0016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0016	0.0010	0.0013	4
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0144	0.0125	0.0152	0.0050	0.0106	0.0045	0.0117	0.0094	0.0127	0.0083	0.0986	0.0164	0.0986	0.0045	0.0183	12
Total Suspended Solids	mg/L	3	7	5	1	7	5	3	4	4	2	2	2	7	1	4	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
4,4'-DDT	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Dieldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0

Location: L3R-2

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
2,4-D	µg/L	<2.0	N/A	N/A	<2.0	N/A	N/A	<2.4	N/A	N/A	<2.1	N/A	N/A	<2.4	<2.0	<2.1	0
2,4,5-TP (Silvex)	µg/L	<0.51	N/A	N/A	<0.51	N/A	N/A	<0.59	N/A	N/A	<0.52	N/A	N/A	<0.59	<0.51	<0.53	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: matrix spike failure

#>LLD - number of samples with value greater than instrument detection limit

Location: PB-3

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	9.38	9.50	9.85	7.87	9.40	8.00	6.88	7.28	8.33	8.87	10.08	9.39	10.08	6.88	8.74	12
pH	SU	6.23	6.22	6.12	6.78	7.20	6.35	6.20	6.37	7.04	6.31	7.10	6.00	7.20	6.00	6.49	12
Temperature	° C	16.7	13.5	16.8	23.9	20.3	23.3	25.0	24.1	24.5	18.9	13.2	14.7	25.0	13.2	19.6	12
Hardness (total)	mg/L	48	26.0	32	33	33	12	13	<10	30	19	19	<10	48	12	27	10
Nitrate-Nitrogen	mg/L	0.220	0.370	0.180	0.110	0.670	0.100	0.170	0.110	0.160	0.170	0.430	0.140	0.670	0.100	0.236	12
Nitrite-Nitrogen	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0
Phosphorus	mg/L	0.140	0.045	<0.010	<0.010	0.150	0.040	0.011	0.058	0.032	0.055	0.120	0.041	0.150	0.011	0.069	10
Total Organic Carbon	mg/L	5.1	16.0	7.6	9.1	5.6	13.0	19.0	13.0	5.6	3.7	3.9	7.3	19.0	3.7	9.1	12
Aluminum	mg/L	0.1809	0.8387	0.2823	0.3226	0.1465	0.3506	0.5404	0.4048	0.1015	0.2239	0.2040	0.2131	0.8387	0.1015	0.3174	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0008	< 0.0005	0.0008	0.0006	0.0007	2
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	0.0011	< 0.0010	< 0.0010	0.0012	0.0012	< 0.0010	0.0011	< 0.0010	< 0.0010	0.0012	0.0011	0.0012	4
Copper	mg/L	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	0.0040	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0017	< 0.0010	0.0040	0.0013	0.0023	3
Iron	mg/L	0.7398	0.9007	0.5916	0.8089	0.8745	1.2943	1.6357	1.7602	0.9177	1.0699	0.5433	0.8689	1.7602	0.5433	1.0005	12
Mercury	µg/L	<0.02000	0.02097	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.02097	0.02097	0.02097	1
Manganese	mg/L	0.0852	0.1037	0.0769	0.0690	0.0680	0.0777	0.1341	0.1639	0.0815	0.1503	0.0509	0.0861	0.1639	0.0509	0.0956	12
Nickel	mg/L	0.0011	0.0017	0.0012	< 0.0010	< 0.0010	0.0010	0.0011	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0017	0.0010	0.0012	5
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0364	0.0254	0.0113	0.0063	0.0070	0.0081	0.0234	0.0067	0.0109	0.0087	0.0606	0.0151	0.0606	0.0063	0.0183	12
Total Suspended Solids	mg/L	4	13	4	1	6	11	5	10	4	19	7	5	19	1	7	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
4,4'-DDT	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Dieldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0

Location: PB-3

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.028	<0.025	<0.026	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.28	<0.25	<0.26	0
2,4-D	µg/L	<2.0	N/A	N/A	<2.0	N/A	N/A	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	<2.0	<2.1	0
2,4,5-TP (Silvex)	µg/L	<0.51	N/A	N/A	<0.51	N/A	N/A	<0.54	N/A	N/A	<0.52	N/A	N/A	<0.54	<0.51	<0.52	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

Location: RM-118.8

estimated: matrix spike failure

estimated: surrogate failure

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.38	9.39	9.66	9.10	7.25	6.83	5.80	6.92	6.81	8.13	8.30	8.63	9.66	5.80	7.93	12
pH	SU	6.53	7.30	7.15	7.09	7.00	6.95	6.67	6.77	6.42	7.00	6.80	7.01	7.30	6.42	6.89	12
Temperature	° C	16.2	13.0	14.8	15.8	22.0	23.1	24.0	24.1	25.5	25.0	16.9	15.7	25.5	13.0	19.7	12
Hardness (total)	mg/L	52	20	30	18	20	<10	<10	16	17	20	18	<10	52	16	23	9
Nitrate-Nitrogen	mg/L	0.320	0.330	0.320	0.300	0.340	0.270	0.240	0.240	0.240	0.610	0.200	0.260	0.610	0.200	0.306	12
Nitrite-Nitrogen	mg/L	0.021	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.021	0.021	0.021	1
Phosphorus	mg/L	0.110	0.120	<0.010	0.100	<0.010	0.088	0.079	0.059	0.068	0.100	0.110	0.190	0.190	0.059	0.102	10
Total Organic Carbon	mg/L	3.7	5.6	4.0	4.3	5.3	5.6	7.6	3.9	3.8	3.9	4.4	4.5	7.6	3.7	4.7	12
Aluminum	mg/L	0.2514	0.5598	0.4757	0.3856	0.3130	0.5552	1.0422	0.3177	0.2820	0.2972	0.2071	0.1557	1.0422	0.1557	0.4036	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	0.0006	0.0006	0.0006	2
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0
Copper	mg/L	< 0.0010	0.0010	0.0023	0.0079	< 0.0010	0.0015	0.0022	0.0010	< 0.0010	< 0.0010	0.0012	0.0015	0.0079	0.0010	0.0023	8
Iron	mg/L	0.4857	0.8304	0.6647	0.6915	1.0167	1.0797	1.4624	0.7817	0.7792	0.6387	0.4197	0.5638	1.4624	0.4197	0.7845	12
Mercury	µg/L	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0
Manganese	mg/L	0.0737	0.0936	0.0915	0.0892	0.1112	0.2204	0.1739	0.1770	0.1524	0.1099	0.0795	0.0838	0.2204	0.0737	0.1213	12
Nickel	mg/L	0.0016	< 0.0010	< 0.0010	< 0.0010	0.0014	< 0.0010	0.0012	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0016	0.0012	0.0014	3
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0061	< 0.0050	< 0.0050	0.0061	0.0061	0.0061	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0106	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0102	0.0177	0.0177	0.0102	0.0128	3
Zinc	mg/L	0.0080	0.0049	0.0078	0.0043	0.0028	0.0031	0.0057	0.0040	0.0168	0.0844	0.0093	0.0248	0.0844	0.0028	0.0147	12
Total Suspended Solids	mg/L	6	8	9	8	14	21	13	11	15	10	6	4	21	4	10	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Aroclor 1016	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
Aroclor 1221	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
Aroclor 1232	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
Aroclor 1242	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
Aroclor 1248	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
Aroclor 1254	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
Aroclor 1260	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
alpha-BHC	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
beta-BHC	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
delta-BHC	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
gamma-BHC (Lindane)	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Chlordane	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
4,4'-DDD	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
4,4'-DDE	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
4,4'-DDT	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Dieldrin	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Endosulfan I	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0

Location: RM-118.8

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Endosulfan sulfate	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Endrin	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Endrin aldehyde	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Heptachlor	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Heptachlor epoxide	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.026	<0.028	0
Toxaphene	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.26	<0.28	0
2,4-D	µg/L	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	N/A	N/A	<2.3	N/A	N/A	<2.3	<2.1	<2.2	0
2,4,5-TP (Silvex)	µg/L	<0.56	N/A	N/A	<0.53	N/A	N/A	<0.55	N/A	N/A	<0.57	N/A	N/A	<0.57	<0.53	<0.55	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: matrix spike failure

#>LLD - number of samples with value greater than instrument detection limit

Location: RM-129.1

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.40	9.80	9.55	8.35	7.29	6.92	6.54	7.11	7.20	7.45	8.43	8.54	9.80	6.54	7.97	12
pH	SU	6.60	7.30	7.10	6.90	7.10	6.81	6.72	6.87	6.35	6.45	6.72	6.84	7.30	6.35	6.81	12
Temperature	° C	16.0	12.9	12.9	17.7	21.7	21.1	23.0	24.8	25.3	22.0	16.3	16.2	25.3	12.9	19.2	12
Hardness (total)	mg/L	54	22	18	36	20	11	<10	15	17	35	17	13	54	11	23	11
Nitrate-Nitrogen	mg/L	0.280	0.320	0.300	0.045	0.310	0.250	0.250	0.210	0.270	0.240	0.220	0.270	0.320	0.045	0.247	12
Nitrite-Nitrogen	mg/L	0.022	<0.020	<0.020	<0.020	0.021	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.022	0.021	0.022	2
Phosphorus	mg/L	0.110	0.120	0.019	0.073	0.090	0.066	<0.010	0.054	0.058	0.092	0.085	0.170	0.170	0.019	0.085	11
Total Organic Carbon	mg/L	3.7	5.5	4.5	8.1	5.6	5.6	5.8	3.9	3.2	4.2	4.4	6.1	8.1	3.2	5.1	12
Aluminum	mg/L	0.2173	0.5939	0.4573	0.1637	0.5940	0.5673	0.9575	0.3314	0.2906	0.1627	0.1780	0.1514	0.9575	0.1514	0.3888	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	0.0005	0.0005	2
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0
Copper	mg/L	< 0.0010	< 0.0010	0.0021	< 0.0010	0.0018	0.0011	0.0014	< 0.0010	< 0.0010	< 0.0010	0.0012	< 0.0010	0.0021	0.0011	0.0015	5
Iron	mg/L	0.4972	0.8585	0.8479	0.5992	1.8439	1.0854	1.4565	0.9077	0.7303	0.9121	0.3801	0.5805	1.8439	0.3801	0.8916	12
Mercury	µg/L	<0.02000	0.04583	<0.02000	<0.02000	0.02463	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.04583	0.02463	0.03523	2
Manganese	mg/L	0.0783	0.0963	0.1405	0.0333	0.2774	0.1714	0.2406	0.1908	0.1479	0.1469	0.0805	0.0806	0.2774	0.0333	0.1404	12
Nickel	mg/L	< 0.0010	< 0.0010	0.0014	< 0.0010	0.0021	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0021	0.0014	0.0018	2
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0072	< 0.0050	< 0.0050	0.0072	0.0072	0.0072	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0059	0.0045	0.0076	0.0039	0.0062	0.0033	0.0048	0.0034	0.0045	0.0077	0.0039	0.0182	0.0182	0.0033	0.0062	12
Total Suspended Solids	mg/L	6	9	13	2	41	21	23	11	11	7	3	5	41	2	13	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Aroclor 1016	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1221	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1232	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1242	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1248	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1254	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
Aroclor 1260	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
alpha-BHC	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
beta-BHC	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
delta-BHC	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
gamma-BHC (Lindane)	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Chlordane	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
4,4'-DDD	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
4,4'-DDE	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
4,4'-DDT	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Dieldrin	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endosulfan I	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0

Location: RM-129.1

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endosulfan sulfate	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endrin	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Endrin aldehyde	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Heptachlor	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Heptachlor epoxide	µg/L	<0.029	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.028	0
Toxaphene	µg/L	<0.29	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.28	0
2,4-D	µg/L	<2.2	N/A	N/A	<2.2	N/A	N/A	<2.2	N/A	N/A	<2.2	N/A	N/A	<2.2	<2.2	<2.2	0
2,4,5-TP (Silvex)	µg/L	<0.56	N/A	N/A	<0.54	N/A	N/A	<0.56	N/A	N/A	<0.56	N/A	N/A	<0.56	<0.54	<0.56	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: surrogate failure

#>LLD - number of samples with value greater than instrument detection limit

Location: RM-141.5

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.23	10.10	9.78	8.70	7.41	6.82	6.16	6.91	7.08	7.03	8.33	8.57	10.10	6.16	7.93	12
pH	SU	6.45	7.20	7.08	6.91	7.15	6.70	6.65	6.80	6.20	6.37	6.85	7.03	7.20	6.20	6.78	12
Temperature	° C	15.7	12.6	12.5	15.9	20.0	21.0	21.0	24.8	24.2	22.2	16.6	15.6	24.8	12.5	18.5	12
Hardness (total)	mg/L	46	18	20	20	26	16	<10	16	17	24	16	19	46	16	22	11
Nitrate-Nitrogen	mg/L	0.280	0.290	0.290	0.250	0.320	0.250	0.220	0.170	0.250	0.230	0.200	0.270	0.320	0.170	0.252	12
Nitrite-Nitrogen	mg/L	0.023	<0.020	<0.020	<0.020	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.023	0.020	0.022	2
Phosphorus	mg/L	0.120	0.110	0.034	0.097	0.041	0.061	0.052	0.058	0.052	0.098	0.089	0.170	0.170	0.034	0.082	12
Total Organic Carbon	mg/L	3.8	5.7	4.4	4.7	5.4	6.1	5.6	4.6	3.5	3.9	4.2	5.3	6.1	3.5	4.8	12
Aluminum	mg/L	0.2439	0.6792	0.3880	0.4015	0.2663	0.4852	0.8027	0.2431	0.1945	0.2260	0.1651	0.1326	0.8027	0.1326	0.3523	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	0.0005	0.0005	1
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	0.0010	< 0.0010	< 0.0010	0.0011	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	0.0010	0.0011	2
Copper	mg/L	< 0.0010	< 0.0010	0.0025	0.0011	< 0.0010	< 0.0010	0.0020	< 0.0010	< 0.0010	< 0.0010	0.0010	< 0.0010	0.0025	0.0010	0.0017	4
Iron	mg/L	0.5035	1.0755	0.5962	0.8380	1.0315	0.9927	1.6172	1.1922	0.6563	0.4950	0.3173	0.4745	1.6172	0.3173	0.8158	12
Mercury	µg/L	<0.02000	0.03989	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.03989	0.03989	0.03989	1
Manganese	mg/L	0.0769	0.0943	0.0886	0.0991	0.1155	0.1556	0.2891	0.2786	0.1377	0.0840	0.0656	0.0693	0.2891	0.0656	0.1295	12
Nickel	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0016	< 0.0010	0.0021	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0021	0.0016	0.0019	2
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0067	< 0.0050	< 0.0050	0.0067	0.0067	0.0067	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0100	< 0.0100	< 0.0100	0.0100	0.0100	0.0100	1
Zinc	mg/L	0.0042	0.0039	0.0099	0.0054	0.0023	0.0029	0.0063	0.0051	0.0075	0.0051	0.0025	0.0058	0.0099	0.0023	0.0051	12
Total Suspended Solids	mg/L	6	8	7	5	10	17	26	8	10	8	4	5	26	4	10	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Aroclor 1016	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
Aroclor 1221	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
Aroclor 1232	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
Aroclor 1242	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
Aroclor 1248	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
Aroclor 1254	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
Aroclor 1260	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
alpha-BHC	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
beta-BHC	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
delta-BHC	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
gamma-BHC (Lindane)	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Chlordane	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
4,4'-DDD	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
4,4'-DDE	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
4,4'-DDT	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Dieldrin	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Endosulfan I	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0

Location: RM-141.5

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Endosulfan sulfate	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Endrin	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Endrin aldehyde	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Heptachlor	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Heptachlor epoxide	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	<0.029	<0.027	<0.027	0
Toxaphene	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	<0.29	<0.27	<0.27	0
2,4-D	µg/L	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	N/A	N/A	<2.2	N/A	N/A	<2.2	<2.1	<2.2	0
2,4,5-TP (Silvex)	µg/L	<0.56	N/A	N/A	<0.52	N/A	N/A	<0.55	N/A	N/A	<0.55	N/A	N/A	<0.56	<0.52	<0.55	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

Location: RM-150.4

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.21	9.70	9.35	8.72	7.54	6.78	7.02	7.19	7.15	7.05	8.41	8.69	9.70	6.78	7.98	12
pH	SU	5.91	7.10	6.77	7.12	6.54	6.61	6.68	6.63	6.45	6.35	6.83	7.00	7.12	5.91	6.67	12
Temperature	° C	15.8	12.4	12.6	16.1	14.0	20.3	19.8	24.4	24.5	21.2	17.7	15.6	24.5	12.4	17.9	12
Hardness (total)	mg/L	46	20	20	24	20	<10	<10	16	18	19	18	10	46	10	21	10
Nitrate-Nitrogen	mg/L	0.320	0.320	0.300	0.260	0.340	0.530	0.240	0.200	0.250	0.270	0.230	0.290	0.530	0.200	0.296	12
Nitrite-Nitrogen	mg/L	0.025	<0.020	<0.020	<0.020	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.025	0.020	0.023	2
Phosphorus	mg/L	0.150	0.140	<0.010	0.180	<0.010	0.065	<0.010	0.055	0.060	0.130	0.110	0.150	0.180	0.055	0.116	9
Total Organic Carbon	mg/L	3.8	4.8	4.4	4.7	5.2	6.3	5.1	4.2	3.5	4.1	4.8	5.8	6.3	3.5	4.7	12
Aluminum	mg/L	0.3064	0.8732	0.5657	0.4403	0.2994	0.4173	1.0641	0.4187	0.2586	0.2348	0.2625	0.1778	1.0641	0.1778	0.4432	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	0.0006	0.0006	1
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	2
Chromium	mg/L	< 0.0010	0.0011	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	0.0011	0.0011	2
Copper	mg/L	< 0.0010	< 0.0010	0.0014	< 0.0010	0.0011	< 0.0010	0.0011	0.0010	< 0.0010	< 0.0010	0.0016	0.0012	0.0016	0.0010	0.0012	6
Iron	mg/L	0.5338	1.0920	0.6460	0.7193	0.7867	0.8617	1.3985	0.9022	0.6051	0.5239	0.4559	0.4448	1.3985	0.4448	0.7475	12
Mercury	µg/L	<0.02000	0.05444	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.05444	0.05444	0.05444	1
Manganese	mg/L	0.0865	0.1346	0.1084	0.1067	0.1044	0.1298	0.3047	0.2216	0.1255	0.0877	0.0875	0.0719	0.3047	0.0719	0.1308	12
Nickel	mg/L	0.0013	0.0017	< 0.0010	< 0.0010	0.0014	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0017	0.0013	0.0015	3
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0066	< 0.0050	< 0.0050	0.0066	0.0066	0.0066	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0057	0.0056	0.0073	0.0052	0.0030	0.0030	0.0054	0.0035	0.0085	0.0064	0.0045	0.0092	0.0092	0.0030	0.0056	12
Total Suspended Solids	mg/L	8	35	17	8	13	15	21	16	14	7	8	5	35	5	14	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Aroclor 1016	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
Aroclor 1221	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
Aroclor 1232	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
Aroclor 1242	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
Aroclor 1248	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
Aroclor 1254	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
Aroclor 1260	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
alpha-BHC	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
beta-BHC	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
delta-BHC	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
gamma-BHC (Lindane)	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Chlordane	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
4,4'-DDD	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
4,4'-DDE	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
4,4'-DDT	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Dieldrin	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Endosulfan I	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0

Location: RM-150.4

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Endosulfan sulfate	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Endrin	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Endrin aldehyde	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Heptachlor	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Heptachlor epoxide	µg/L	<0.029	N/A	N/A	<0.027	N/A	N/A	<0.027	N/A	N/A	N/A	<0.027	N/A	<0.029	<0.027	<0.028	0
Toxaphene	µg/L	<0.29	N/A	N/A	<0.27	N/A	N/A	<0.27	N/A	N/A	N/A	<0.27	N/A	<0.29	<0.27	<0.28	0
2,4-D	µg/L	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	N/A	N/A	<2.2	N/A	N/A	<2.2	<2.1	<2.2	0
2,4,5-TP (Silvex)	µg/L	<0.56	N/A	N/A	<0.52	N/A	N/A	<0.56	N/A	N/A	<0.56	N/A	N/A	<0.56	<0.52	<0.55	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

Location: RM-160

estimated: matrix spike failure

estimated: surrogate failure

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.70	8.90	8.85	9.27	7.79	7.28	7.47	7.45	7.28	7.29	8.58	9.04	9.27	7.28	8.16	12
pH	SU	6.86	7.10	5.76	6.22	6.12	6.60	6.65	6.65	5.97	5.98	7.00	6.70	7.10	5.76	6.47	12
Temperature	° C	15.7	12.6	12.1	14.7	16.0	19.5	20.2	23.0	24.2	20.0	16.4	15.3	24.2	12.1	17.5	12
Hardness (total)	mg/L	42	18	20	18	20	19	<10	10	<10	18	16	13	42	10	19	10
Nitrate-Nitrogen	mg/L	0.270	0.290	0.300	0.250	0.300	0.280	0.250	0.210	0.220	0.210	0.200	0.300	0.300	0.200	0.257	12
Nitrite-Nitrogen	mg/L	0.026	<0.020	<0.020	<0.020	0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.026	0.020	0.023	2
Phosphorus	mg/L	0.120	0.120	0.031	0.022	<0.010	0.029	0.012	0.053	0.062	0.110	0.087	0.140	0.140	0.012	0.071	11
Total Organic Carbon	mg/L	3.9	4.8	4.6	4.2	5.0	5.6	4.9	3.8	3.6	4.0	4.5	5.6	5.6	3.6	4.5	12
Aluminum	mg/L	0.2000	0.5977	0.3628	0.4126	0.2580	0.3610	0.8110	0.2712	0.1744	0.2198	0.1273	0.1203	0.8110	0.1203	0.3263	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	0.0006	0.0006	0.0006	1
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0
Copper	mg/L	< 0.0010	< 0.0010	0.0022	0.0011	0.0012	0.0013	0.0019	< 0.0010	< 0.0010	< 0.0010	0.0015	0.0012	0.0022	0.0011	0.0015	7
Iron	mg/L	0.2914	0.6530	0.4707	0.5858	0.6926	0.8700	1.4044	0.5340	0.4551	0.5124	0.2181	0.3526	1.4044	0.2181	0.5867	12
Mercury	µg/L	<0.02000	0.04720	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.04720	0.04720	0.04720	1
Manganese	mg/L	0.0619	0.0921	0.0978	0.0917	0.1060	0.1623	0.3256	0.1622	0.1006	0.0889	0.0600	0.0649	0.3256	0.0600	0.1178	12
Nickel	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0016	0.0016	0.0016	1
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0061	< 0.0050	< 0.0050	0.0061	0.0061	0.0061	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0111	0.0111	0.0111	0.0111	1
Zinc	mg/L	0.0041	0.0057	0.0115	0.0052	0.0036	0.0027	0.0067	0.0033	0.0033	0.0065	0.0102	0.0207	0.0207	0.0027	0.0070	12
Total Suspended Solids	mg/L	4	6	7	3	6	15	32	9	7	8	2	4	32	2	9	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Aroclor 1016	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
Aroclor 1221	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
Aroclor 1232	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
Aroclor 1242	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
Aroclor 1248	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
Aroclor 1254	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
Aroclor 1260	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
alpha-BHC	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
beta-BHC	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
delta-BHC	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
gamma-BHC (Lindane)	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Chlordane	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
4,4'-DDD	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
4,4'-DDE	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
4,4'-DDT	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Dieldrin	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Endosulfan I	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0

Location: RM-160

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Endosulfan sulfate	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Endrin	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Endrin aldehyde	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Heptachlor	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Heptachlor epoxide	µg/L	<0.029	N/A	N/A	<0.026	N/A	N/A	<0.030	N/A	N/A	<0.028	N/A	N/A	<0.030	<0.026	<0.028	0
Toxaphene	µg/L	<0.29	N/A	N/A	<0.26	N/A	N/A	<0.30	N/A	N/A	<0.28	N/A	N/A	<0.30	<0.26	<0.28	0
2,4-D	µg/L	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.3	N/A	N/A	<2.2	N/A	N/A	<2.3	<2.1	<2.2	0
2,4,5-TP (Silvex)	µg/L	<0.56	N/A	N/A	<0.52	N/A	N/A	<0.57	N/A	N/A	<0.56	N/A	N/A	<0.57	<0.52	<0.55	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: matrix spike failure

#>LLD - number of samples with value greater than instrument detection limit

Location: SC-4

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	9.06	9.75	9.93	8.67	9.00	7.26	6.65	7.36	8.31	8.39	9.69	8.75	9.93	6.65	8.57	12
pH	SU	6.70	6.50	5.66	6.57	7.20	6.35	5.67	6.73	7.09	6.74	7.14	6.37	7.20	5.66	6.56	12
Temperature	° C	16.3	13.8	16.9	22.0	24.9	24.3	25.0	24.0	24.0	19.6	13.2	15.2	25.0	13.2	19.9	12
Hardness (total)	mg/L	50	20	26	29	18	18	25	11	27	24	22	22	50	11	24	12
Nitrate-Nitrogen	mg/L	0.084	0.120	1.200	0.077	0.270	0.075	1.200	0.110	0.095	0.048	0.120	0.086	1.200	0.048	0.290	12
Nitrite-Nitrogen	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0
Phosphorus	mg/L	0.028	0.038	<0.010	0.120	0.120	0.016	0.190	0.054	0.021	0.022	0.012	0.017	0.190	0.012	0.058	11
Total Organic Carbon	mg/L	4.2	12.0	5.6	5.5	4.6	13.0	14.0	6.3	4.0	3.3	3.7	7.3	14.0	3.3	7.0	12
Aluminum	mg/L	0.0880	0.5430	0.2395	0.5105	0.0993	0.2703	0.3569	0.1681	0.0685	0.0804	0.0595	0.0980	0.5430	0.0595	0.2152	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	0.0005	0.0005	2
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	0.0012	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0013	0.0012	0.0013	2
Copper	mg/L	< 0.0010	0.0011	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0013	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0013	0.0011	0.0012	2
Iron	mg/L	0.5430	0.7574	0.7815	2.4227	0.5785	0.9332	1.1465	0.9636	0.6253	0.3896	0.3450	0.6558	2.4227	0.3450	0.8452	12
Mercury	µg/L	<0.02000	0.02241	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.02241	0.02241	0.02241	1
Manganese	mg/L	0.0500	0.0734	0.0975	0.2672	0.0471	0.1019	0.1149	0.0885	0.0565	0.0344	0.0280	0.0548	0.2672	0.0280	0.0845	12
Nickel	mg/L	< 0.0010	< 0.0010	0.0016	< 0.0010	0.0020	< 0.0010	0.0017	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0020	0.0016	0.0018	3
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0132	0.0097	0.0079	0.0091	0.0042	0.0048	0.0190	0.0083	0.0083	0.0064	0.0062	0.0138	0.0190	0.0042	0.0092	12
Total Suspended Solids	mg/L	2	12	18	36	5	9	6	7	3	4	3	2	36	2	9	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
4,4'-DDT	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Dieldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0

Location: SC-4

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Endrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.028	N/A	N/A	<0.028	N/A	N/A	<0.028	<0.025	<0.027	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.28	N/A	N/A	<0.28	N/A	N/A	<0.28	<0.25	<0.27	0
2,4-D	µg/L	<2.0	N/A	N/A	<2.0	N/A	N/A	<2.2	N/A	N/A	<2.2	N/A	N/A	<2.2	<2.0	<2.1	0
2,4,5-TP (Silvex)	µg/L	<0.51	N/A	N/A	<0.51	N/A	N/A	<0.56	N/A	N/A	<0.54	N/A	N/A	<0.56	<0.51	<0.53	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: matrix spike failure

#>LLD - number of samples with value greater than instrument detection limit

estimated: surrogate failure

Location: TB-5

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	7.55	8.55	8.19	6.83	7.21	7.79	6.54	6.16	7.02	7.36	8.84	8.88	8.88	6.16	7.58	12
pH	SU	5.27	6.10	6.34	6.21	6.60	4.87	6.10	6.23	6.76	7.10	6.52	6.67	7.10	4.87	6.23	12
Temperature	° C	15.7	13.7	12.0	17.0	15.2	22.1	23.0	25.2	24.7	18.7	10.6	13.7	25.2	10.6	17.6	12
Hardness (total)	mg/L	36	<10	<10	18	<10	<10	<10	<10	<10	<10	<10	<10	36	18	27	2
Nitrate-Nitrogen	mg/L	0.065	0.085	0.054	0.072	2.800	0.048	0.030	0.034	0.023	2.200	0.110	0.140	2.800	0.023	0.472	12
Nitrite-Nitrogen	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0
Phosphorus	mg/L	0.054	0.058	<0.010	0.028	0.068	0.068	0.110	0.068	0.052	0.046	0.079	0.094	0.110	0.028	0.066	11
Total Organic Carbon	mg/L	6.3	8.1	5.6	7.0	7.4	13.0	13.0	8.1	6.2	4.6	4.4	6.0	13.0	4.4	7.5	12
Aluminum	mg/L	0.2283	0.2260	0.1169	0.1467	0.1912	0.3440	0.1885	0.1263	0.0864	0.0756	0.0871	0.1295	0.3440	0.0756	0.1622	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	0.0006	0.0005	0.0006	3
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0011	0.0011	0.0011	1
Copper	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0083	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0083	0.0083	0.0083	1
Iron	mg/L	3.6702	1.7096	2.0371	3.3468	4.8638	2.5955	4.1602	5.7658	5.5830	3.6929	2.7854	3.3932	5.7658	1.7096	3.6336	12
Mercury	µg/L	<0.02000	0.02893	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.02893	0.02893	0.02893	1
Manganese	mg/L	0.1281	0.0694	0.0943	0.1624	0.2764	0.1248	0.1074	0.2909	0.2403	0.1357	0.1111	0.0868	0.2909	0.0694	0.1523	12
Nickel	mg/L	0.0075	0.0068	0.0075	0.0099	0.0116	0.0123	0.0109	0.0079	0.0058	0.0035	< 0.0010	< 0.0010	0.0123	0.0035	0.0084	10
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0054	< 0.0050	< 0.0050	< 0.0050	0.0054	0.0054	0.0054	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0126	0.0103	< 0.0100	0.0126	0.0103	0.0115	2
Zinc	mg/L	0.0757	0.0067	0.0145	0.0032	0.0137	0.0117	0.0074	0.0059	0.0042	0.0049	0.0033	0.0537	0.0757	0.0032	0.0171	12
Total Suspended Solids	mg/L	14	3	5	5	7	9	7	12	11	15	6	9	15	3	9	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Aroclor 1016	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
Aroclor 1221	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
Aroclor 1232	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
Aroclor 1242	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
Aroclor 1248	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
Aroclor 1254	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
Aroclor 1260	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
alpha-BHC	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
beta-BHC	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
delta-BHC	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
gamma-BHC (Lindane)	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Chlordane	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
4,4'-DDD	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
4,4'-DDE	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
4,4'-DDT	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Dieldrin	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Endosulfan I	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0

Location: TB-5

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Endosulfan sulfate	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Endrin	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Endrin aldehyde	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Heptachlor	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Heptachlor epoxide	µg/L	<0.028	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.027	N/A	N/A	<0.028	<0.026	<0.027	0
Toxaphene	µg/L	<0.28	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.27	N/A	N/A	<0.28	<0.26	<0.27	0
2,4-D	µg/L	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	N/A	N/A	<2.1	N/A	N/A	<2.2	<2.1	<2.2	0
2,4,5-TP (Silvex)	µg/L	<0.54	N/A	N/A	<0.52	N/A	N/A	<0.56	N/A	N/A	<0.52	N/A	N/A	<0.56	<0.52	<0.54	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

Location: TC-1

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	9.18	9.22	10.18	9.01	9.50	7.15	6.60	7.14	7.88	8.33	10.34	8.83	10.34	6.60	8.61	12
pH	SU	6.21	5.05	5.75	6.97	7.20	6.58	5.68	6.40	6.53	6.19	6.88	6.45	7.20	5.05	6.32	12
Temperature	° C	15.0	13.3	13.3	20.7	15.8	24.0	25.0	29.9	25.6	18.5	10.2	15.7	29.9	10.2	18.9	12
Hardness (total)	mg/L	42	14	<10	18	<10	13	<10	14	14	11	<10	<10	42	11	18	7
Nitrate-Nitrogen	mg/L	0.160	0.085	0.830	0.086	0.120	0.039	0.130	0.140	0.130	0.065	0.079	0.170	0.830	0.039	0.170	12
Nitrite-Nitrogen	mg/L	0.021	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.021	0.021	0.021	1
Phosphorus	mg/L	0.052	0.053	0.030	<0.010	0.084	0.130	0.130	0.097	0.100	0.057	0.034	0.057	0.130	0.030	0.075	11
Total Organic Carbon	mg/L	4.4	9.9	4.9	4.9	5.1	13.0	8.1	8.4	5.2	4.0	3.5	6.8	13.0	3.5	6.5	12
Aluminum	mg/L	0.1170	0.2301	0.0735	0.0706	0.0992	0.1736	0.1280	0.1986	0.1361	0.0772	0.0589	0.1199	0.2301	0.0589	0.1236	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	0.0006	0.0006	0.0006	1
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	0.0007	0.0007	0.0007	1
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0
Copper	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0108	< 0.0010	0.0022	0.0025	< 0.0010	< 0.0010	< 0.0010	0.0108	0.0022	0.0052	3
Iron	mg/L	0.4204	0.4880	0.2760	0.4194	0.6766	1.3766	1.0589	1.0092	1.0258	0.4934	0.2853	0.4565	1.3766	0.2760	0.6655	12
Mercury	µg/L	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0
Manganese	mg/L	0.0284	0.0290	0.0136	0.0197	0.0207	0.0478	0.0449	0.0525	0.0525	0.0287	0.0139	0.0315	0.0525	0.0136	0.0319	12
Nickel	mg/L	< 0.0010	0.0011	0.0015	< 0.0010	0.0012	0.0068	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0068	0.0011	0.0027	4
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0061	< 0.0050	< 0.0050	0.0061	0.0061	0.0061	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0
Zinc	mg/L	0.0163	0.0159	0.0161	0.0063	0.0075	0.0116	0.0125	0.0106	0.0148	0.0052	0.0042	0.0103	0.0163	0.0042	0.0109	12
Total Suspended Solids	mg/L	7	8	4	2	8	6	4	13	11	7	1	6	13	1	6	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDT	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Dieldrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0

Location: TC-1

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
2,4-D	µg/L	<2.0	N/A	N/A	<2.0	N/A	N/A	<2.1	N/A	N/A	<2.0	N/A	N/A	<2.1	<2.0	<2.0	0
2,4,5-TP (Silvex)	µg/L	<0.51	N/A	N/A	<0.51	N/A	N/A	<0.52	N/A	N/A	<0.51	N/A	N/A	<0.52	<0.51	<0.51	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

estimated: matrix spike failure

#>LLD - number of samples with value greater than instrument detection limit

Location: U3R-1A

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.70	9.26	9.23	8.94	9.20	6.89	7.20	7.50	8.19	8.37	9.47	8.67	9.47	6.89	8.47	12
pH	SU	4.89	5.02	3.50	6.69	7.90	6.55	4.50	5.99	6.60	6.62	6.71	5.90	7.90	3.50	5.91	12
Temperature	° C	16.3	14.7	14.2	19.4	15.2	21.1	21.0	24.7	23.6	18.2	11.4	16.0	24.7	11.4	18.0	12
Hardness (total)	mg/L	38	<10	<10	12	11	<10	<10	<10	<10	<10	<10	<10	38	11	20	3
Nitrate-Nitrogen	mg/L	0.340	0.240	1.600	0.280	0.420	0.079	0.310	0.310	0.300	0.230	0.270	0.830	1.600	0.079	0.434	12
Nitrite-Nitrogen	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0
Phosphorus	mg/L	0.010	0.020	<0.010	0.093	0.160	<0.010	0.019	<0.010	0.011	0.030	0.019	0.013	0.160	0.010	0.042	9
Total Organic Carbon	mg/L	1.8	7.6	1.5	1.9	1.9	15.0	3.8	2.3	2.3	2.2	2.1	3.0	15.0	1.5	3.8	12
Aluminum	mg/L	0.1052	0.4209	0.0827	0.0893	0.1373	0.6118	0.1955	0.1071	0.0847	0.1042	0.0792	0.0742	0.6118	0.0742	0.1743	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005	0.0006	< 0.0005	< 0.0005	< 0.0005	0.0007	0.0006	0.0007	2
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	0.0007	0.0007	1
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0
Copper	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0015	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0015	0.0015	0.0015	1
Iron	mg/L	0.3397	0.4393	0.2152	0.2989	0.4358	0.6779	0.7175	0.5622	0.4863	0.4674	0.3046	0.4208	0.7175	0.2152	0.4471	12
Mercury	µg/L	<0.02000	0.03627	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0.03627	0.03627	0.03627	1
Manganese	mg/L	0.0084	0.0216	0.0078	0.0092	0.0112	0.0378	0.0128	0.0099	0.0091	0.0095	0.0096	0.0125	0.0378	0.0078	0.0133	12
Nickel	mg/L	< 0.0010	0.0013	0.0017	< 0.0010	0.0016	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0017	0.0013	0.0015	3
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0059	< 0.0050	< 0.0050	0.0059	0.0059	0.0059	1
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0129	0.0129	0.0129	0.0129	1
Zinc	mg/L	0.0384	0.0180	0.0119	0.0042	0.0068	0.0047	0.0104	0.0075	0.0051	0.0083	0.0045	0.0076	0.0384	0.0042	0.0106	12
Total Suspended Solids	mg/L	3	5	4	<1	5	5	4	6	4	6	<1	3	6	3	5	10
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
4,4'-DDT	µg/L	0.033	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	0.0330	0.0330	0.0330	1
Dieldrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0

Location: U3R-1A

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.026	<0.026	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.26	<0.26	0
2,4-D	µg/L	<2.0	N/A	N/A	<2.0	N/A	N/A	<2.2	N/A	N/A	N/A	<2.2	N/A	<2.2	<2.0	<2.1	0
2,4,5-TP (Silvex)	µg/L	<0.51	N/A	N/A	<0.51	N/A	N/A	<0.55	N/A	N/A	N/A	<0.55	N/A	<0.55	<0.51	<0.53	0

Data Table 5-24, 2013 Surface Water Surveillance- Inorganic Contaminants, Pesticides, Herbicides, and PCBs

Average-average value of samples with results greater than instrument detection limit

#>LLD - number of samples with value greater than instrument detection limit

Location: U3R-4

estimated: matrix spike failure

estimated: surrogate failure

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Dissolved Oxygen	mg/L	8.98	8.15	9.69	8.59	7.60	6.85	7.20	7.57	8.40	8.57	9.93	9.29	9.93	6.85	8.40	12
pH	SU	5.77	5.44	3.69	7.17	7.20	6.24	5.40	6.60	7.21	6.88	6.54	6.17	7.21	3.69	6.19	12
Temperature	° C	16.8	14.1	16.4	27.6	18.4	23.1	24.0	23.7	24.5	18.7	12.4	14.0	27.6	12.4	19.5	12
Hardness (total)	mg/L	38	10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	38	10	19	3
Nitrate-Nitrogen	mg/L	0.210	0.098	0.140	0.140	0.260	0.030	0.150	0.180	0.170	0.120	0.150	0.200	0.260	0.030	0.154	12
Nitrite-Nitrogen	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0
Phosphorus	mg/L	0.034	0.034	<0.010	0.049	0.030	0.052	0.055	0.031	0.054	0.041	0.031	0.032	0.055	0.030	0.040	11
Total Organic Carbon	mg/L	3.2	13.0	3.6	4.3	3.3	23.0	9.5	3.9	3.5	2.8	3.1	6.5	23.0	2.8	6.6	12
Aluminum	mg/L	0.1965	0.9401	0.2064	0.2156	0.2135	0.8785	0.4315	0.2184	0.2216	0.1489	0.1168	0.1855	0.9401	0.1168	0.3311	12
Beryllium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	0.0007	0.0007	1
Cadmium	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0007	< 0.0005	0.0007	0.0007	0.0007	1
Chromium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0
Copper	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0017	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0017	0.0017	0.0017	1
Iron	mg/L	0.4876	0.5938	0.3537	0.4237	0.5659	0.9961	1.2497	0.7814	0.8547	0.4868	0.4053	0.6598	1.2497	0.3537	0.6549	12
Mercury	µg/L	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	<0.02000	0
Manganese	mg/L	0.0240	0.0658	0.0188	0.0187	0.0203	0.0878	0.0356	0.0273	0.0450	0.0174	0.0142	0.0258	0.0878	0.0142	0.0334	12
Nickel	mg/L	0.0017	0.0030	0.0011	< 0.0010	0.0019	< 0.0010	0.0015	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0030	0.0011	0.0018	5
Lead	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0
Thallium	mg/L	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	< 0.0100	0.0103	< 0.0100	< 0.0100	0.0103	0.0103	0.0103	1
Zinc	mg/L	0.0116	0.0158	0.0190	0.0062	0.0133	0.0139	0.0372	0.0045	0.0049	0.0064	0.0047	0.0093	0.0372	0.0045	0.0122	12
Total Suspended Solids	mg/L	5	6	6	4	8	6	7	10	16	8	3	2	16	2	7	12
Pesticides/Herbicides/PCBs		1st Quarter			2nd Quarter			3rd Quarter			4th Quarter						
Aldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Aroclor 1016	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
Aroclor 1221	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
Aroclor 1232	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
Aroclor 1242	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
Aroclor 1248	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
Aroclor 1254	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
Aroclor 1260	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
alpha-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
beta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
delta-BHC	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
gamma-BHC (Lindane)	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Chlordane	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
4,4'-DDD	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
4,4'-DDE	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
4,4'-DDT	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Dieldrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Endosulfan I	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0

Location: U3R-4

Parameter	Unit	Collection Date												MAX	MIN	Average	#>LLD
		01/2013	02/2013	03/2013	04/2013	05/2013	06/2013	07/2013	08/2013	09/2013	10/2013	11/2013	12/2013				
Endosulfan II	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Endosulfan sulfate	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Endrin	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Endrin aldehyde	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Heptachlor	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Heptachlor epoxide	µg/L	<0.026	N/A	N/A	<0.025	N/A	N/A	<0.026	N/A	N/A	<0.026	N/A	N/A	<0.026	<0.025	<0.026	0
Toxaphene	µg/L	<0.26	N/A	N/A	<0.25	N/A	N/A	<0.26	N/A	N/A	<0.26	N/A	N/A	<0.26	<0.25	<0.26	0
2,4-D	µg/L	<2.1	N/A	N/A	<2.0	N/A	N/A	<2.3	N/A	N/A	<2.1	N/A	N/A	<2.3	<2.0	<2.1	0
2,4,5-TP (Silvex)	µg/L	<0.53	N/A	N/A	<0.51	N/A	N/A	<0.57	N/A	N/A	<0.53	N/A	N/A	<0.57	<0.51	<0.54	0