MISCELLANEOUS SURFACE WATER SITES

STATISTICAL SUMMARY FOR FIELD PARAMETERS, MAJOR AND TRACE ELEMENTS, NUTRIENTS, BACTERIA, SEDIMENT, AND RADIONUCLIDE DATA COLLECTED FROM OCT 1995 TO DEC 2012

		DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	WATER-QUALITY CONSTITUENT	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
00061	Discharge, instant. cfs	49	9970	0.18	815	6830	573	37.5	14.2	0.67
00065	Gage height ft	77	15.7	0.12	5.15	9.62	6.21	5.03	4.24	0.844
00010	Temperature, water deg C	111	29.6	0.13	14.4	27	23.3	14.4	6.11	0.496
00020	Temperature, air deg C	94	36.5	-6	18.2	32.5	26	17.8	12.5	0
00025	Air pressure mm/Hg	108	737	714	727	734	730	726	724	719
00300	Dissolved oxygen mg/l	107	18.2	3.07	9.71	15.6	12.1	9.57	7.41	4.86
00400	pH std units	111	8.72	6.8	7.87	8.58	8.21	7.89	7.53	7.15
00403	pH, wu,lab std units	6	8.25	7.8	8.03	8.25	8.2	8.05	7.86	7.8
00095	Specific cond at 25C uS/cm @25C	111	3220	134	1170	2270	1540	1080	789	303
90095	SpecCond,wu25degCLab uS/cm @25C	12	2410	709	1590	2410	2320	1590	955	709
63001	Redox potential, raw mV	12	353	64	233	353	334	253	134	64
63002	Redox potential, SHE mV	6	560	260	390	560	545	345	283	260
63675	Turbidity, Nephelom NTU	12	90.5	0.42	11.6	90.5	8.29	2.82	1.02	0.42
63676	Turbidity, NephRatio NTRU	8	860	4.87	253	860	564	14.5	6.05	4.87
63680	Turbidity, Form Neph FNU	33	1440	0.1	162	1170	111	36.2	18.3	1.01
00901	Carbonate hardness, wu mg/l CaCO3	17	401	196	277	401	302	262	242	196
00900	Hardness, water mg/l CaCO3	17	401	196	277	401	302	262	242	196
00915	Calcium, wf mg/l	17	129	55.5	79.9	129	89.1	76.4	65.1	55.5
00925	Magnesium, wf mg/l	17	27.4	9.85	18.8	27.4	21.7	18.9	16.1	9.85
00935	Potassium, wf mg/l	17	11.7	5.55	8.1	11.7	10.5	7.65	6.12	5.55
00930	Sodium, wf mg/l	17	387	42.1	170	387	322	103	71.9	42.1
39087	Alkalinity, wf,inflect pt,lab mg/l CaCO3	17	331	140	218	331	253	212	178	140
29806	HCO3, wf, inflection pt, lab mg/l	17	404	171	266	404	309	258	217	171
29809	CO3, wf, inflection pt, lab mg/l	17	14	0	1.59	14	0	0	0	0
00940	Chloride, wf mg/l	17	583	29	250	583	506	124	83.9	29
00950	Fluoride, wf mg/l	17	0.74	0.26	0.462	0.74	0.555	0.46	0.365	0.26
00955	Silica, wf mg/l	17	21.9	2.16	11.8	21.9	16.7	13	6.43	2.16
00945	Sulfate, wf mg/l	17	156	30.8	90.9	156	128	77	58.1	30.8
70300	Residue, ROE@180C,wf mg/l	17	1330	258	782	1330	1190	642	489	258
70301	Residue, wf, sum mg/l	17	1320	332	777	1320	1190	623	479	332
00530	Residue,total nonflt mg/l	17	82	--	18.532*	*82.000	*29.000	*7.000	*2.229	*0.613
00625	NH3+orgN, wu mg/l as N	1	0.855	--	--	--	--	--	--	--
00608	Ammonia, wf mg/l as N	17	0.2	--	0.064*	*0.200	*0.085	*0.060	*0.023	*0.010
00618	Nitrate, wf mg/l as N	17	15.8	0.04	2.82	15.8	2.87	1.43	0.215	0.04
00631	NO3+NO2, wf mg/l as N	18	15.8	0.04	3.31	15.8	4.41	1.57	0.267	0.04
00613	Nitrite, wf mg/l as N	17	--	--	--	--	--	--	--	--
00671	Orthophosphate, wf mg/l as P	17	3.07	--	0.828*	*3.070	*1.355	*0.400	*0.045	*0.013

00666	Phosphorus, wf mg/l	17	2.42	--	0.646*	*2.420	*0.958	*0.404	*0.060	*0.020
00665	Phosphorus, wu mg/l	1	2.19	--	--	--	--	--	--	--
00681	Organic carbon, wf mg/l	1	3.95	--	--	--	--	--	--	--
00680	Organic carbon, wu mg/l	1	6.2	--	--	--	--	--	--	--
90902	E. coli, modif m-TEC cfu/100ml	23	7400	15	815	6560	767	430	80	16.2
31648	Escherichia coli, m-TEC MF cfu/100ml	3	1180	426	--	--	--	--	--	--
31625	Fecal coliform, M-FC MF, 0.7u cfu/100ml	25	36000	30	3660	35700	1640	530	179	30.9
01000	Arsenic, wf ug/l	17	10.9	1.2	5.27	10.9	8.51	4.8	1.76	1.2
71870	Bromide, wf mg/l	17	0.35	--	0.166*	*0.350	*0.245	*0.140	*0.095	*0.047
01046	Iron, wf ug/l	17	--	--	--	--	--	--	--	--
01056	Manganese, wf ug/l	17	375	11	88.5	375	152	20	13	11
70331	Suspnd sed <63u, sd %	5	91	59	--	--	--	--	--	--
80154	Suspnd sedmnt conc mg/l	5	40	6	--	--	--	--	--	--

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF TRIAZINE HERBICIDE SCREEN DATA COLLECTED FROM NOV 1995 TO NOV 2012

		DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	WATER-QUALITY CONSTITUENT	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
00065	Gage height ft	13	7.18	0.12	3.51	7.18	6.9	2.22	0.88	0.12
00061	Discharge, instant. cfs	61	4200	0.18	162	909	44.5	18.7	14.4	1.13
00095	Specific cond at 25C uS/cm @25C	92	3220	91	862	2260	1260	780	330	142
34756	Triazines, ELISA, wf ugAtrazn/L	93	49.5	--	4.186*	*26.210	*4.210	*0.560	*0.115	*0.013
34757	Triazines, ELISA, wu ugAtrazn/L	93	49.5	--	4.186*	*26.210	*4.210	*0.560	*0.115	*0.013

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF COMMONLY USED PESTICIDES AND THEIR DEGRADATES DATA

		DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	WATER-QUALITY CONSTITUENT	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
	SAMPLES ANALYZED BY THE ORGANIC GEOCHEMISTRY RESEARCH LABORATORY									
	TRIAZINE HERBICIDES ANALYZED BY GC/MS									
04040	CIAT, wf	14	1.11	0.1	0.491	1.11	0.76	0.39	0.278	0.1
04038	CEAT, wf	14	0.57	--	0.249*	*0.570	*0.380	*0.170	*0.142	*0.057
49260	Acetochlor, wf	14	--	--	--	--	--	--	--	--
46342	Alachlor, wf	14	10.2	--	1.549*	*10.190	*1.420	*0.565	*0.270	*0.044
38401	Ametryn, wf	14	--	--	--	--	--	--	--	--
39632	Atrazine, wf	13	26.4	1.69	7.36	26.4	10.3	4.94	3.55	1.69
61709	Cyanazine amide, wf	13	--	--	--	--	--	--	--	--
04041	Cyanazine, wf	14	0.35	--	0.077*	*0.350	*0.100	*0.038	*0.016	*0.005
39415	Metolachlor, wf	14	5.42	0.08	2.08	5.42	3.79	1.48	0.663	0.08
04037	Prometon, wf	14	--	--	--	--	--	--	--	--
04036	Prometryn, wf	14	--	--	--	--	--	--	--	--
04024	Propachlor, wf	14	--	--	--	--	--	--	--	--
38535	Propazine, wf	14	0.29	--	0.076*	*0.290	*0.100	*0.050	*0.015	*0.005
04035	Simazine, wf	14	--	--	--	--	--	--	--	--
38888	Terbutryn, wf	14	--	--	--	--	--	--	--	--
	ACETANILIDE ACIDS									
	GLYPHOSATE AND METABOLITES									
	SAMPLES ANALYZED BY THE NATIONAL WATER QUALITY LABORATORY									
	ORGANOPHOSPHATES AND ORGANOCHLORIDE PESTICIDES + GROSS PCBS									

* - VALUE IS ESTIMATED BY USING A LOG-PROBABILITY REGRESSION TO PREDICT THE VALUES OF DATA BELOW THE DETECTION LIMIT

STATISTICAL SUMMARY OF VOLATILE ORGANIC COMPOUNDS DATA COLLECTED FROM MAY 2012 TO MAY 2012

		DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	WATER-QUALITY CONSTITUENT	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
81551	Xylene, wu ug/l	1	--	--	--	--	--	--	--	--
77562	1112Tetrachloroethan ug/l	1	--	--	--	--	--	--	--	--
34506	1,1,1-Trichloroethane, wu ug/l	1	--	--	--	--	--	--	--	--
34516	1,1,2,2-Tetrachloroethane, wu ug/l	1	--	--	--	--	--	--	--	--
77652	CFC-113, wu ug/l	1	--	--	--	--	--	--	--	--
34511	1,1,2-Trichloroethane, wu ug/l	1	--	--	--	--	--	--	--	--
34496	1,1-Dichloroethane, wu ug/l	1	--	--	--	--	--	--	--	--
34501	1,1-Dichloroethene, wu ug/l	1	--	--	--	--	--	--	--	--
77168	11Dichloropropene,wu ug/l	1	--	--	--	--	--	--	--	--
77613	123-Trichlorobenzene ug/l	1	--	--	--	--	--	--	--	--
77443	123-Trichloropropane ug/l	1	--	--	--	--	--	--	--	--
34551	1,2,4-Trichlorobenzene, wu ug/l	1	--	--	--	--	--	--	--	--
77222	124-Trimethylbenzene ug/l	1	--	--	--	--	--	--	--	--
82625	Dibromochloropropane ug/l	1	--	--	--	--	--	--	--	--
77651	1,2-Dibromoethane,wu ug/l	1	--	--	--	--	--	--	--	--
34536	1,2-Dichlorobenzene, wu ug/l	1	--	--	--	--	--	--	--	--
32103	1,2-Dichloroethane, wu ug/l	1	--	--	--	--	--	--	--	--
99832	12DiChlEthane-d4,sur %	1	166	--	--	--	--	--	--	--
34541	1,2-Dichloropropane, wu ug/l	1	--	--	--	--	--	--	--	--
77226	135-Trimethylbenzene ug/l	1	--	--	--	--	--	--	--	--
34566	1,3-Dichlorobenzene, wu ug/l	1	--	--	--	--	--	--	--	--
77173	13Dichloropropane,wu ug/l	1	--	--	--	--	--	--	--	--
34571	1,4-Dichlorobenzene, wu ug/l	1	--	--	--	--	--	--	--	--
99834	1Br4FlBenzene,surVOC %	1	166	--	--	--	--	--	--	--
77170	22Dichloropropane,wu ug/l	1	--	--	--	--	--	--	--	--
77275	2-Chlorotoluene, wu ug/l	1	--	--	--	--	--	--	--	--
77277	4-Chlorotoluene, wu ug/l	1	--	--	--	--	--	--	--	--
77356	4Isopropyltoluene,wu ug/l	1	--	--	--	--	--	--	--	--
34215	Acrylonitrile, wu ug/l	1	--	--	--	--	--	--	--	--
34030	Benzene, wu ug/l	1	--	--	--	--	--	--	--	--
81555	Bromobenzene, wu ug/l	1	--	--	--	--	--	--	--	--
77297	Bromochloromethane,u ug/l	1	--	--	--	--	--	--	--	--
32101	CHBrCl2, wu ug/l	1	--	--	--	--	--	--	--	--
34413	Bromomethane, wu ug/l	1	--	--	--	--	--	--	--	--
34301	Chlorobenzene, wu ug/l	1	--	--	--	--	--	--	--	--
34311	Chloroethane, wu ug/l	1	--	--	--	--	--	--	--	--
34418	Chloromethane, wu ug/l	1	--	--	--	--	--	--	--	--
77093	cis12Dichloroethene ug/l	1	--	--	--	--	--	--	--	--
34704	cis-1,3-Dichloropropene, wu ug/l	1	--	--	--	--	--	--	--	--

32105	Dibromochloromethane, wu ug/l	1	--	--	--	--	--	--	--	--
30217	Dibromomethane, wu ug/l	1	--	--	--	--	--	--	--	--
34668	CFC-12, wu ug/l	1	--	--	--	--	--	--	--	--
34423	Dichloromethane, wu ug/l	1	--	--	--	--	--	--	--	--
34371	Ethylbenzene, wu ug/l	1	--	--	--	--	--	--	--	--
39702	Hexachlorobutadiene, wu ug/l	1	--	--	--	--	--	--	--	--
77223	Isopropylbenzene, wu ug/l	1	--	--	--	--	--	--	--	--
34696	Naphthalene, wu ug/l	1	--	--	--	--	--	--	--	--
77342	n-Butylbenzene, wu ug/l	1	--	--	--	--	--	--	--	--
77224	n-Propylbenzene, wu ug/l	1	--	--	--	--	--	--	--	--
77350	sec-Butylbenzene, wu ug/l	1	--	--	--	--	--	--	--	--
77128	Styrene, wu ug/l	1	--	--	--	--	--	--	--	--
78032	MTBE, wu ug/l	1	--	--	--	--	--	--	--	--
77353	t-Butylbenzene, wu ug/l	1	--	--	--	--	--	--	--	--
34475	Tetrachloroethene, wu ug/l	1	--	--	--	--	--	--	--	--
32102	Tetrachloromethane, wu ug/l	1	--	--	--	--	--	--	--	--
34010	Toluene, wu ug/l	1	--	--	--	--	--	--	--	--
34546	trans-1,2-Dichloroethene, wu ug/l	1	--	--	--	--	--	--	--	--
34699	trans-1,3-Dichloropropene, wu ug/l	1	--	--	--	--	--	--	--	--
32104	Tribromomethane, wu ug/l	1	--	--	--	--	--	--	--	--
39180	Trichloroethene, wu ug/l	1	--	--	--	--	--	--	--	--
34488	CFC-11, wu ug/l	1	--	--	--	--	--	--	--	--
32106	Trichloromethane, wu ug/l	1	--	--	--	--	--	--	--	--
39175	Vinyl chloride, wu ug/l	1	--	--	--	--	--	--	--	--

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