MONITORING WELLS NEAR THE SEDGWICK RECHARGE SITE

STATISTICAL SUMMARY FOR FIELD PARAMETERS, MAJOR AND MINOR ELEMENTS, NUTRIENTS, BACTERIA, SEDIMENT, AND RADIONUCLIDE DATA COLLECTED FROM AUGUST 1998 TO FEBRUARY 1999

| | | | DESCRIPTIVE STATISTICS | | PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN | | | | |
| | SAMPLE | | | | | | (MEDIAN) | | |
WATER-QUALITY CONSTITUENT	SIZE	MAXIMUM	MINIMUM	MEAN	95 %	75 %	50 %	25 %	5 %
00010 Temperature, wat degrees C	9	21.500	12.500	15.656	21.500	16.450	15.000	14.200	12.500
00020 Temperature, air degrees C	6	24.000	3.500	16.667	24.000	24.000	22.250	3.875	3.500
00025 Air pressure mm of Hg	7	732.000	727.000	728.286	732.000	729.000	728.000	727.000	727.000
00300 Dissolved oxygen mg/L	9	7.440	0.310	3.214	7.440	6.080	2.870	0.490	0.310
00400 pH standard units	9	7.470	4.350	6.471	7.470	6.965	6.580	6.330	4.350
00095 Specific cond at uS/cm @ 25C	9	1650.000	641.000	877.556	1650.000	993.500	706.000	652.000	641.000
61028 Turbidity, wu,fl NTU	8	24.700	0.170	4.224	24.700	3.920	0.980	0.220	0.170
90095 SpecCond,wu25deg uS/cm @ 25C	9	1587.000	484.000	800.111	1587.000	927.500	730.000	527.500	484.000
00403 pH, wu,lab standard units	9	7.430	4.650	6.687	7.430	7.160	6.870	6.590	4.650
82079 Turbidity, wu,la NTU	9	20.400	0.100	3.061	20.400	2.812	0.360	0.171	0.100
00900 Hardness, wu mg/L as CaCO3	9	574.000	217.000	339.556	574.000	380.000	342.000	263.500	217.000
00901 CarbonateHardnes mg/L as CaCO3	9	573.000	217.000	339.333	573.000	380.000	342.000	263.000	217.000
39087 Alkalinity, wf,i mg/L as CaCO3	9	330.000	10.000	193.333	330.000	288.000	218.000	113.000	10.000
00530 Residue, total mg/L	9	--	--	--	--	--	--	--	--
70300 Residue, ROE@180 mg/L	9	1020.000	375.000	586.778	1020.000	749.500	521.000	407.500	375.000
00915 Calcium, wf mg/L	9	179.000	69.900	108.289	179.000	122.500	106.000	86.050	69.900
00925 Magnesium, wf mg/L	9	30.800	10.300	16.789	30.800	19.850	16.300	11.750	10.300
00930 Sodium, wf mg/L	9	130.000	19.000	57.267	130.000	77.000	46.900	35.350	19.000
00935 Potassium, wf mg/L	9	5.430	2.290	3.589	5.430	4.490	3.310	2.855	2.290
29806 HCO3, wf,icr,lab mg/L	9	402.000	12.000	235.667	402.000	351.000	266.000	138.000	12.000
29809 CO3, wf,icr,lab mg/L	9	0.000	--	--	--	--	--	--	--
00945 Sulfate, wf mg/L	9	353.000	40.000	173.333	353.000	300.500	140.000	81.000	40.000
00940 Chloride, wf mg/L	9	65.000	5.000	32.889	65.000	46.000	31.000	21.500	5.000
00631 NO2+NO3, wf mg/L as N	9	19.630	0.710	8.032	19.630	15.050	7.830	1.135	0.710
00608 Ammonia, wf mg/L as N	9	0.110	--	0.049*	*0.110	*0.070	*0.040	*0.025	*0.015
01046 Iron, wf ug/L	9	--	--	--	--	--	--	--	--
01056 Manganese, wf ug/L	9	184.000	--	43.075*	*184.000	*75.050	*10.800	*2.678	*0.759
31504 TColiform,LesEnd colonies/100mL	9	--	--	--	--	--	--	--	--
31625 Fecal coliforms, colonies/100mL	9	--	--	--	--	--	--	--	--

* - 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

		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 %
34756 Triazines, ELISA ug/L	9	1.060	--	0.276*	*1.060	*0.430	*0.160	*0.042	*0.018

* - 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

		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 RESEARCH LABORATORY

TRIAZINE HERBICIDES ANALZYED BY GC/MS

WATER-QUALITY CONSTITUENT	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95 %	75 %	50 %	25 %	5 %
49260 Acetochlor, wf ug/L	9	--	--	--	--	--	--	--	--
46342 Alachlor, wf ug/L	9	--	--	--	--	--	--	--	--
38401 Ametryn, wf ug/L	9	--	--	--	--	--	--	--	--
39632 Atrazine, wf ug/L	9	--	--	--	--	--	--	--	--
04041 Cyanazine, wf ug/L	9	--	--	--	--	--	--	--	--
61709 Cyanazine amide, ug/L	2	--	--	--	--	--	--	--	--
04040 CIAT, wf ug/L	9	0.720	--	0.223*	*0.720	*0.415	*0.140	*0.042	*0.013
04038 CEAT, wf ug/L	9	--	--	--	--	--	--	--	--
39415 Metolachlor, wf ug/L	9	--	--	--	--	--	--	--	--
82630 Metribuzin, wf ug/L	9	--	--	--	--	--	--	--	--
04037 Prometon, wf ug/L	9	--	--	--	--	--	--	--	--
04036 Prometryn, wf ug/L	9	--	--	--	--	--	--	--	--
04024 Propachlor, wf ug/L	9	--	--	--	--	--	--	--	--
38535 Propazine, wf ug/L	9	--	--	--	--	--	--	--	--
04035 Simazine, wf ug/L	9	--	--	--	--	--	--	--	--
38888 Terbutryn, wf ug/L	9	--	--	--	--	--	--	--	--

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