

BACKGROUND MONITORING WELLS

SITES INCLUDE: TH-02-95 (380237097324401), TH-06-95 (375304097291301), TH-10-95 (380424097343801), TH-12-95 (375140097243301), TH-08-A1 (375628097270201), TH-08-A2 (375628097270401), TH-08-A3 (375628097270801), TH-08-A4 (375628097271001), TH-08-A5 (375628097271701), CITY WELL SEDGWICK (375456097260901), SEDGWICK WELL (375259097252901), SEDGWICK WELL A3 (375300097253501), ALTA MILLS (380643097353001)

STATISTICAL SUMMARY FOR FIELD PARAMETERS, MAJOR AND TRACE ELEMENTS, NUTRIENTS, BACTERIA, SEDIMENT, AND RADIONUCLIDE DATA COLLECTED FROM MAR 1995 TO NOV 2007

WATER-QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
00065 Gage height ft	114	16.1	-11.8	8.22	12.9	10.3	8.41	6.14	4.87
72020 Elevation above NGVD ft	260	1400	1340	1370	1400	1390	1360	1350	1350
72019 WaterLevel, BelowLSD ft	260	25.2	2.27	18.7	23.8	22.3	19.6	16.2	10.6
00010 Temperature, water deg C	265	29	14.7	15.7	16.6	15.9	15.7	15.4	15
00020 Temperature, air deg C	256	44	-5	21.6	35	29.5	22.5	14.5	4.43
00025 Air pressure mm/Hg	257	739	714	726	733	730	727	724	718
00300 Dissolved oxygen mg/l	264	2.09	0.03	0.306	0.9	0.35	0.21	0.13	0.06
00400 pH std units	265	7.39	6.12	6.94	7.28	7.08	6.95	6.85	6.61
00403 pH, wu,lab std units	255	8.51	6.65	7.1	7.4	7.21	7.09	6.98	6.85
00095 Specific cond at 25C uS/cm @25C	267	906	315	615	797	693	634	550	356
90095 SpecCond,wu25degCLab uS/cm @25C	258	924	333	616	801	692	635	542	357
63001 Redox potential, raw mV	196	380	-239	-1.58	292	40.3	-50	-80.9	-113
63002 Redox potential, SHE mV	206	600	-30	218	520	290	160	130	100
63675 Turbidity, Nephelom NTU	258	163	0.09	3.06	6.41	2.82	1.74	0.966	0.193
63676 Turbidity, NephRatio NTRU	259	25.6	--	1.223*	*4.950	*1.430	*0.460	*0.170	*0.039
00901 Carbonate hardness, wu mg/l CaCO3	258	425	130	244	341	283	246	204	149
00900 Hardness, water mg/l CaCO3	258	363	138	243	342	281	245	205	149
00915 Calcium, wf mg/l	258	117	44.8	79.2	112	93.2	80.3	63.2	51.1
00916 Calcium, wu,recov mg/l	14	110	47.7	76.9	110	81.4	73	71.6	47.7
00925 Magnesium, wf mg/l	258	18.3	4.37	10.9	15.1	13.7	11.2	8.35	5.09
00927 Magnesium, wu,recov mg/l	14	16.6	4.62	11.2	16.6	12.1	11.7	9.51	4.62
00935 Potassium, wf mg/l	258	5.67	1.37	2.46	3.58	3.1	2.24	1.88	1.65
00937 Potassium, wu,recov mg/l	14	3.93	2.17	3.25	3.93	3.64	3.53	2.87	2.17
00930 Sodium, wf mg/l	258	90.7	17.8	42.7	70.6	50	43.4	23.2	20
00929 Sodium, wu,recov mg/l	14	72.9	23.7	47.8	72.9	60.2	45.2	41.2	23.7
00419 ANC, wu, inflection pt,field mg/l CaCO3	9	332	193	260	332	311	274	205	193
00416 ANC, wu, inflection point,lab mg/l CaCO3	14	298	172	220	298	248	208	188	172
39086 Alkalinity, wf,inflect,field mg/l CaCO3	1	204	--	--	--	--	--	--	--
39087 Alkalinity, wf,inflect pt,lab mg/l CaCO3	254	340	174	240	316	284	229	200	180
00453 Bicarbonate,wf,inflect pt,fld mg/l	1	249	--	--	--	--	--	--	--
29806 HCO3, wf, inflection pt, lab mg/l	258	414	212	293	386	346	279	244	219
00450 Bicarbonate,wu,inflect pt,fld mg/l	9	406	236	317	406	380	334	250	236
00449 Bicarbonate,wu,inflect pt,lab mg/l	14	363	210	268	363	302	253	229	210

01027	Cadmium, wu ug/l	14	--	--	--	--	--	--	--	--
01030	Chromium, wf ug/l	86	2.75	--	1.159*	*2.149	*1.414	*1.055	*0.771	*0.518
01034	Chromium, wu,recov ug/l	14	--	--	--	--	--	--	--	--
01040	Copper, wf ug/l	86	--	--	--	--	--	--	--	--
01042	Copper, wu,rec ug/l	14	--	--	--	--	--	--	--	--
00723	Cyanide, wf mg/l	86	--	--	--	--	--	--	--	--
00720	Cyanide, wu mg/l	14	--	--	--	--	--	--	--	--
01046	Iron, wf ug/l	258	1850	--	597.558*	*1193.350	*920.800	*624.500	*199.824	*30.965
01045	Iron, wu,rec ug/l	14	1700	--	630.393*	*1700.000	*904.500	*666.500	*175.250	*16.400
01049	Lead, wf ug/l	86	9.38	--	0.420*	*3.085	*0.145	*0.024	*0.004	*0.000
01051	Lead, wu,recov ug/l	14	--	--	--	--	--	--	--	--
01056	Manganese, wf ug/l	258	4320	3	324	799	524	258	97.1	10.8
01055	Manganese, wu,recov ug/l	14	518	90.7	246	518	338	240	99.5	90.7
71890	Mercury, wf ug/l	86	--	--	--	--	--	--	--	--
71901	Mercury, wu, rec ug/l	14	--	--	--	--	--	--	--	--
01065	Nickel, wf ug/l	86	3.23	--	0.747*	*2.252	*0.933	*0.557	*0.332	*0.153
01067	Nickel, wu,recov ug/l	14	10.7	--	2.018*	*10.680	*3.138	*0.831	*0.256	*0.068
01145	Selenium, wf ug/l	92	22.4	--	2.548*	*16.425	*2.000	*0.641	*0.203	*0.037
01147	Selenium, wu ug/l	14	--	--	--	--	--	--	--	--
01075	Silver, wf ug/l	86	--	--	--	--	--	--	--	--
01077	Silver, wu,recov ug/l	14	--	--	--	--	--	--	--	--
01080	Strontium, wf ug/l	86	861	224	517	764	609	532	427	268
01082	Strontium, wu,recov ug/l	14	684	236	511	684	586	565	430	236
01057	Thallium, wf ug/l	89	--	--	--	--	--	--	--	--
01059	Thallium, wu ug/l	14	--	--	--	--	--	--	--	--
01085	Vanadium, wf ug/l	86	14.7	--	3.082*	*8.045	*3.912	*2.353	*1.428	*0.727
01087	Vanadium, wu ug/l	14	--	--	--	--	--	--	--	--
01090	Zinc, wf ug/l	86	18	--	4.436*	*14.260	*5.358	*3.188	*1.817	*0.849
01092	Zinc, wu,rec ug/l	14	--	--	--	--	--	--	--	--
75986	Alpha 2scu, wf,U-nat ug/l	16	12.1	1.56	4.17	12.1	5.64	3.3	2.37	1.56
75987	Alpha 2scu, wf,Th230 pCi/L	16	6.57	1.16	2.76	6.57	3.77	2.2	1.53	1.16
04126	Alpha activity, wf, Th-230 pCi/L	16	19	--	3.714*	*19.000	*3.925	*1.762	*0.570	*0.186
75989	Beta 2scu, wf,Cs137 pCi/L	16	5.97	1.1	3.37	5.97	5.08	3.38	1.31	1.1
75988	Beta 2scu, wf,Sr/Y90 pCi/L	16	3.78	0.762	2.04	3.78	3.29	1.47	0.995	0.762
80030	Gross alpha,wf,U-nat ug/l	16	33	--	5.901*	*33.000	*5.100	*2.936	*0.991	*0.489
03515	Gross beta, wf,Cs-137 pCi/L	16	19	--	6.746*	*19.000	*8.500	*5.500	*3.425	*2.300
80050	Gross beta,wf,Sr/Y90 pCi/L	16	9.2	--	4.136*	*9.200	*5.375	*3.637	*2.325	*1.500

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

STATISTICAL SUMMARY OF ARSENIC SPECIATION DATA COLLECTED FROM MAR 1995 TO NOV 2007

WATER-QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
62453 Arsenate, wf ug/L as As	48	3.79	--	1.662*	*3.633	*2.508	*1.427	*0.689	*0.314
62452 Arsenite, wf ug/L as As	48	9.54	--	4.002*	*8.621	*7.372	*4.193	*0.599	*0.320
62455 Dimethylarsinate, wf ug/L as As	48	0.709	--	0.313*	*0.687	*0.384	*0.278	*0.200	*0.127
62454 Monomethylarsonate, wf ug/L as As	48	--	--	--	--	--	--	--	--

* - 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 MAR 1995 TO NOV 2007

WATER-QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
00065 Gage height ft	108	16.1	-11.8	8.25	13	10.3	8.42	6.13	4.86
00095 Specific cond at 25C uS/cm @25C	245	906	315	617	795	694	636	552	356
34756 Triazines, ELISA, wf ugAtrazn/L	245	2.3	--	0.067*	*0.230	*0.039	*0.010	*0.003	*0.000
34757 Triazines, ELISA, wu ugAtrazn/L	12	--	--	--	--	--	--	--	--

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82681	Thiobencarb,w,gf<.7u ug/l	47	--	--	--	--	--	--	--	--
82678	Triallate, w,gf<.7u ug/l	47	--	--	--	--	--	--	--	--
61610	Tribuphos, wf ug/l	7	--	--	--	--	--	--	--	--
49235	Triclopyr, w,gf<.7u ug/l	14	--	--	--	--	--	--	--	--
82661	Trifluralin,w,gf<.7u ug/l	69	--	--	--	--	--	--	--	--
39030	Trifluralin, wu ug/l	12	--	--	--	--	--	--	--	--
30324	Vernolate, wu ug/l	12	--	--	--	--	--	--	--	--
39702	Hexachlorobutadiene, wu ug/l	14	--	--	--	--	--	--	--	--
38775	Dichlorvos, wf ug/l	22	--	--	--	--	--	--	--	--

ORGANOPHOSPHATES AND ORGANOCHLORIDE PESTICIDES + GROSS PCBS

39330	Aldrin, wu ug/l	12	--	--	--	--	--	--	--	--
39388	alpha-Endosulfan, wu ug/l	12	--	--	--	--	--	--	--	--
39786	Carbophenothion, wu ug/l	12	--	--	--	--	--	--	--	--
39350	Chlordane (technical), wu ug/l	12	--	--	--	--	--	--	--	--
38932	Chlorpyrifos, wu ug/l	12	--	--	--	--	--	--	--	--
39570	Diazinon, wu ug/l	12	--	--	--	--	--	--	--	--
39380	Dieldrin, wu ug/l	12	--	--	--	--	--	--	--	--
39011	Disulfoton, wu ug/l	12	--	--	--	--	--	--	--	--
39390	Endrin, wu ug/l	12	--	--	--	--	--	--	--	--
39398	Ethion, wu ug/l	12	--	--	--	--	--	--	--	--
82614	Fonofos, wu ug/l	12	--	--	--	--	--	--	--	--
39420	Heptachlor epoxide, wu ug/l	12	--	--	--	--	--	--	--	--
39410	Heptachlor, wu ug/l	12	--	--	--	--	--	--	--	--
39340	Lindane, wu ug/l	12	--	--	--	--	--	--	--	--
39530	Malathion, wu ug/l	12	--	--	--	--	--	--	--	--
39600	Methyl parathion, wu ug/l	12	--	--	--	--	--	--	--	--
39755	Mirex, wu ug/l	12	--	--	--	--	--	--	--	--
39360	p,p'-DDD, wu ug/l	12	--	--	--	--	--	--	--	--
39365	p,p'-DDE, wu ug/l	12	--	--	--	--	--	--	--	--
39370	p,p'-DDT, wu ug/l	12	--	--	--	--	--	--	--	--
39034	p,p'-Ethyl-DDD, wu ug/l	12	--	--	--	--	--	--	--	--
39480	p,p'-Methoxychlor,wu ug/l	12	--	--	--	--	--	--	--	--
39540	Parathion, wu ug/l	12	--	--	--	--	--	--	--	--
39516	PCBs, wu ug/l	12	--	--	--	--	--	--	--	--
39023	Phorate, wu ug/l	12	--	--	--	--	--	--	--	--
39250	PCNs, wu ug/l	12	--	--	--	--	--	--	--	--
39400	Toxaphene, wu ug/l	12	--	--	--	--	--	--	--	--
39040	Tribuphos, wu ug/l	12	--	--	--	--	--	--	--	--

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

STATISTICAL SUMMARY OF ANTIBIOTIC DATA COLLECTED FROM MAY 2002 TO MAY 2002

WATER-QUALITY CONSTITUENT	DESCRIPTIVE STATISTICS				PERCENT OF SAMPLES IN WHICH VALUES WERE LESS THAN OR EQUAL TO THOSE SHOWN				
	SAMPLE SIZE	MAXIMUM	MINIMUM	MEAN	95%	75%	(MEDIAN) 50%	25%	5%
62650 Anhydrochlortetracycline, gf.7 ug/l	7	--	--	--	--	--	--	--	--
62651 Anhydrotetracycline, w, gf<0.7u ug/l	7	--	--	--	--	--	--	--	--
62658 Carbadox, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
61744 Chlorotetracycline, wf ug/l	7	--	--	--	--	--	--	--	--
62680 Demeclocycline, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
62694 Doxycycline, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
62717 Flumequine, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
62751 Minocycline, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
62757 Norfloxacin, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
62759 Oxolinic acid, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
61759 Oxytetracycline, wf ug/l	7	--	--	--	--	--	--	--	--
62771 Sarafloxacin, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
62774 Sulfachlorpyridazine, gf<0.7u ug/l	7	--	--	--	--	--	--	--	--
62776 Sulfadimethoxine, w, gf<0.7u ug/l	7	--	--	--	--	--	--	--	--
62777 Sulfamerazine, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
61762 Sulfamethazine, wf ug/l	7	--	--	--	--	--	--	--	--
62021 Sulfamethoxazole, wf ug/l	7	--	--	--	--	--	--	--	--
62778 Sulfathiazole, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--
62781 Tetracycline, w, gf<.7u ug/l	7	--	--	--	--	--	--	--	--

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34704	cis-1,3-Dichloropropene, wu ug/l	14	--	--	--	--	--	--	--	--
32105	Dibromochloromethane, wu ug/l	14	--	--	--	--	--	--	--	--
30217	Dibromomethane, wu ug/l	14	--	--	--	--	--	--	--	--
34668	CFC-12, wu ug/l	14	--	--	--	--	--	--	--	--
34423	Dichloromethane, wu ug/l	14	--	--	--	--	--	--	--	--
34371	Ethylbenzene, wu ug/l	14	--	--	--	--	--	--	--	--
39702	Hexachlorobutadiene, wu ug/l	14	--	--	--	--	--	--	--	--
34396	Hexachloroethane, wu ug/l	12	--	--	--	--	--	--	--	--
77223	Isopropylbenzene, wu ug/l	14	--	--	--	--	--	--	--	--
34696	Naphthalene, wu ug/l	14	--	--	--	--	--	--	--	--
77342	n-Butylbenzene, wu ug/l	14	--	--	--	--	--	--	--	--
77224	n-Propylbenzene, wu ug/l	14	--	--	--	--	--	--	--	--
77350	sec-Butylbenzene, wu ug/l	14	--	--	--	--	--	--	--	--
77128	Styrene, wu ug/l	14	--	--	--	--	--	--	--	--
78032	MTBE, wu ug/l	14	--	--	--	--	--	--	--	--
77353	t-Butylbenzene, wu ug/l	14	--	--	--	--	--	--	--	--
34475	Tetrachloroethene, wu ug/l	14	--	--	--	--	--	--	--	--
32102	Tetrachloromethane, wu ug/l	14	--	--	--	--	--	--	--	--
34010	Toluene, wu ug/l	14	--	--	--	--	--	--	--	--
34546	trans-1,2-Dichloroethene, wu ug/l	14	--	--	--	--	--	--	--	--
34699	trans-1,3-Dichloropropene, wu ug/l	14	--	--	--	--	--	--	--	--
32104	Tribromomethane, wu ug/l	14	--	--	--	--	--	--	--	--
39180	Trichloroethene, wu ug/l	14	--	--	--	--	--	--	--	--
34488	CFC-11, wu ug/l	14	--	--	--	--	--	--	--	--
32106	Trichloromethane, wu ug/l	14	--	--	--	--	--	--	--	--
39175	Vinyl chloride, wu ug/l	14	--	--	--	--	--	--	--	--

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