Performance Evaluation Report
USEPA Water Pollution Study WP035

Participant ID: Type: Requesting Office:

Sample Number	Reported Value	True Value*	Acceptance Limits	Warning Limits	Performance Evaluation
TRACE METALS IN MICROGRAMS/LITER					
001-ALUMINUM					
01	.	321	261- 382	276- 367	
02	.	1500	1270- 1700	1330- 1640	
002-ARSENIC					
01	.	193	167- 231	175- 223	
02	.	571	492- 676	515- 653	
003-BERYLLIUM					
01	.	190	165- 209	170- 204	
02	.	541	480- 597	495- 583	
004-CADMIUM					
01	.	52.6	44.5- 60.7	46.5- 58.7	
02	.	401	345- 454	359- 440	
005-COBALT					
01	.	28.1	22.9- 32.6	24.1- 31.4	
02	.	624	557- 686	574- 670	
006-CHROMIUM					
01	.	17.0	13- 20.5	13.9- 19.5	
02	.	880	767- 985	794- 958	
007-COPPER					
01	.	86.7	75.5- 96.9	78.2- 94.2	
02	.	370	334- 409	344- 399	
008-IRON					
01	.	30.4	18.8- 42.6	21.8- 39.6	
02	.	464	441- 519	451- 509	
009-MERCURY					
01	.	3.10	2.03- 4.07	2.29- 3.81	
02	.	11.6	8.65- 14.7	9.41- 13.9	
010-MANGANESE					
01	.	401	369- 441	378- 432	
02	.	881	833- 968	850- 951	
011-NICKEL					
01	.	496	453- 560	466- 547	
02	.	611	557- 698	574- 680	
012-LEAD					
01	.	297	259- 334	269- 325	
02	.	399	356- 446	367- 435	
013-SELENIUM					
01	.	522	402- 615	429- 588	
02	.	978	754- 1150	804- 1100	
014-VANADIUM					
01	.	211	186- 234	192- 228	
02	.	811	724- 888	745- 867	
015-ZINC					
01	.	71.9	62.7- 84.9	65.5- 82.2	
02	.	1800	1610- 2030	1660- 1980	

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016-ANTIMONY					
03	.	370	240- 450	266- 423	
04	.	570	369- 692	410- 651	
017-SILVER					
03	.	180	153- 207	160- 200	
04	.	340	298- 391	310- 380	
018-THALLIUM					
03	.	83.3	63.4- 99.1	67.9- 94.6	
04	.	365	301- 425	317- 410	
074-MOLYBDENUM					
03	.	130	106- 151	112- 146	
04	.	310	257- 358	270- 345	
075-STRONTIUM					
03	.	3.55	2.56- 4.49	2.81- 4.23	
04	.	96.0	79.8- 110	83.9- 106	
076-TITANIUM					
03	.	115	96.8- 130	101- 126	
04	.	270	230- 302	239- 293	
MINERALS IN MILLIGRAMS/LITER (EXCEPT AS NOTED)					
019-PH-UNITS					
03	.	4.30	4.22- 4.4	4.25- 4.38	
04	.	5.50	5.46- 5.62	5.48- 5.6	
020-SPEC. COND.(UMHOS/CM AT 25 C)					
01	.	916	830- 983	849- 964	
02	.	586	536- 627	547- 616	
021-TDS AT 180 C					
01	.	553	326- 762	380- 708	
02	.	311	226- 398	248- 377	
022-TOTAL HARDNESS(AS CACO3)					
01	.	330	302- 358	309- 351	
02	.	101	90.8- 110	93.2- 108	
023-CALCIUM					
01	.	104	92.8- 120	96.2- 116	
02	.	6.39	5.53- 7.54	5.79- 7.29	
024-MAGNESIUM					
01	.	17.0	15.2- 19.3	15.7- 18.7	
02	.	20.6	18- 23.6	18.7- 22.9	
025-SODIUM					
01	.	14.2	13.1- 16.2	13.5- 15.8	
02	.	54.3	49.3- 58.9	50.5- 57.7	
026-POTASSIUM					
01	.	21.0	18.8- 23.7	19.4- 23.1	
02	.	38.3	33.3- 41.7	34.3- 40.7	
027-TOTAL ALKALINITY(AS CACO3)					
01	.	20.0	17.4- 25.1	18.3- 24.1	
02	.	72.0	64.8- 78.6	66.5- 76.9	

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028-CHLORIDE					
01	.	241	224- 259	228- 254	
02	.	72.7	65.1- 79.8	67- 77.9	
029-FLUORIDE					
01	.	3.50	3.09- 3.8	3.18- 3.71	
02	.	1.35	1.16- 1.53	1.21- 1.48	
030-SULFATE					
01	.	18.0	13.8- 22.1	14.8- 21.1	
02	.	86.4	72- 97	75.1- 93.9	
NUTRIENTS IN MILLIGRAMS/LITER					
031-AMMONIA-NITROGEN					
01	.	19.0	15- 22.3	15.9- 21.5	
02	.	1.40	1.15- 2.08	1.26- 1.97	
032-NITRATE-NITROGEN					
01	.	8.31	6.76- 9.69	7.11- 9.34	
02	.	0.390	0.28-0.495	0.305-0.469	
033-ORTHOPHOSPHATE					
01	.	.0560	0.0333-0.076	0.0384-0.071	
02	.	2.80	2.43- 3.19	2.52- 3.1	
034-KJELDAHL-NITROGEN					
03	.	0.540	0.115- 1.12	0.235-0.995	
04	.	7.80	5.73- 9.64	6.2- 9.17	
035-TOTAL PHOSPHORUS					
03	.	0.574	0.47-0.705	0.498-0.677	
04	.	6.08	5.16- 7.2	5.41- 6.96	
DEMANDS IN MILLIGRAMS/LITER					
036-COD					
01	.	236	189- 259	198- 250	
02	.	101	71.2- 120	77.3- 114	
037-TOC					
01	.	93.1	78.5- 108	82.4- 105	
02	.	40.1	31.6- 47.4	33.6- 45.3	
038-5-DAY BOD					
01	.	141	64.1- 218	83.3- 199	
02	.	62.5	29.5- 95.5	37.7- 87.3	
102-CARBONACEOUS BOD					
01	.	117	34.3- 199	55.6- 178	
02	.	51.6	20- 83.2	28.2- 75	
PCB'S IN MICROGRAMS/LITER					
040-PCB-AROCLOR 1016/1242					
01	.		Not Present		
02	.		Not Present		
042-PCB-AROCLOR 1232					
01	.	2.76	0.709- 4.3	1.17- 3.84	
02	.		Not Present		

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044-PCB-AROCLOR 1248					
01	.		Not Present		
02	.	4.26	1.77- 6.04	2.3- 5.5	
045-PCB-AROCLOR 1254					
01	.		Not Present		
02	.		Not Present		
046-PCB-AROCLOR 1260					
01	.		Not Present		
02	.		Not Present		
PCB'S IN OIL IN MILLIGRAMS/KILOGRAM					
099-PCB IN OIL- 1016/1242					
01	.	42.3	6.88- 58.9	13.5- 52.3	
02	.		Not Present		
100-PCB IN OIL- 1254					
01	.		Not Present		
02	.		Not Present		
101-PCB IN OIL- 1260					
01	.		Not Present		
02	.	12.7	3.17- 20.4	5.37- 18.2	
PESTICIDES IN MICROGRAMS/LITER					
047-ALDRIN					
01	.	3.11	0.522- 5.23	1.12- 4.64	
02	.	0.243	0.065-0.322	0.0977-0.289	
048-DIELDRIN					
01	.	4.51	2.62- 6.22	3.08- 5.76	
02	.	1.62	0.858- 2.19	1.03- 2.02	
049-DDD					
01	.	5.67	3.14- 9.33	3.92- 8.55	
02	.	1.94	1.21- 2.64	1.39- 2.46	
050-DDE					
01	.	3.76	2.14- 5.1	2.51- 4.73	
02	.	1.42	0.72- 1.85	0.863- 1.71	
051-DDT					
01	.	6.46	3.79- 9.28	4.48- 8.59	
02	.	1.76	0.865- 2.33	1.05- 2.14	
052-HEPTACHLOR					
01	.	2.85	0.694- 4.14	1.13- 3.71	
02	.	0.278	0.0899-0.374	0.126-0.338	
053-CHLORDANE					
03	.	12.3	4.69- 17.2	6.27- 15.6	
04	.	1.36	0.695- 1.81	0.835- 1.67	
078-HEPTACHLOR EPOXIDE					
01	.	2.20	1.13- 2.53	1.31- 2.35	
02	.	0.284	0.153- 0.37	0.18-0.342	

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VOLATILE HALOCARBONS IN MICROGRAMS/LITER					
054-1,2 DICHLOROETHANE					
01	.	56.3	39- 79.4	44.1- 74.4	
02	.	12.2	8.5- 17.5	9.63- 16.4	
055-CHLOROFORM					
01	.	64.8	47.6- 83.2	52.1- 78.7	
02	.	14.2	11- 18.4	11.9- 17.4	
056-1,1,1 TRICHLOROETHANE					
01	.	63.7	41- 85.7	46.6- 80.1	
02	.	16.2	10.4- 22.2	11.9- 20.7	
057-TRICHLOROETHENE					
01	.	72.3	45.7- 93	51.6- 87.1	
02	.	16.1	10.7- 20.6	11.9- 19.4	
058-CARBONTETRACHLORIDE					
01	.	29.0	16.5- 45	20- 41.4	
02	.	9.36	5.61- 13.7	6.62- 12.7	
059-TETRACHLOROETHENE					
01	.	73.6	46.5- 96.3	52.7- 90.1	
02	.	10.4	6.04- 14.5	7.1- 13.4	
060-BROMODICHLOROMETHANE					
01	.	55.6	37- 73.1	41.6- 68.6	
02	.	14.6	10.2- 18.4	11.2- 17.3	
061-DIBROMOCHLOROMETHANE					
01	.	48.5	33.1- 63.4	37- 59.6	
02	.	14.6	9.59- 18.9	10.7- 17.7	
062-BROMOFORM					
01	.	68.0	50.4- 95.3	56- 89.7	
02	.	12.6	8.42- 17.3	9.53- 16.2	
063-METHYLENE CHLORIDE					
01	.	46.7	30.3- 64.1	34.6- 59.9	
02	.	10.3	6.63- 14.7	7.65- 13.7	
064-CHLOROBENZENE					
01	.	68.1	46.5- 89	51.8- 83.7	
02	.	17.7	11.7- 24.2	13.2- 22.6	
VOLATILE AROMATICS IN MICROGRAMS/LITER					
065-BENZENE					
01	.	55.9	40.7- 69.9	44.4- 66.2	
02	.	9.30	6.56- 12.3	7.28- 11.6	
066-ETHYLBENZENE					
01	.	56.4	38.7- 73.3	43- 69	
02	.	10.4	7.18- 13.6	7.99- 12.8	
067-TOLUENE					
01	.	44.7	30.9- 57.6	34.3- 54.2	
02	.	7.60	5.29- 9.97	5.88- 9.38	

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094-1,2-DICHLOROBENZENE					
01	.	52.0	40.7- 66.5	44- 63.2	
02	.	11.7	7.82- 16.6	8.92- 15.5	
095-1,4-DICHLOROBENZENE					
01	.	48.3	33.3- 62.2	37- 58.5	
02	.	13.4	9.37- 17.6	10.4- 16.6	
096-1,3-DICHLOROBENZENE					
01	.	42.7	34.4- 53.1	36.7- 50.7	
02	.	12.6	8.8- 16.6	9.79- 15.6	
MISCELLANEOUS PARAMETERS					
071-TOTAL CYANIDE(IN MG/L)					
01	.	.0301	0.0138-0.046	0.0179-0.042	
02	.	0.410	0.297-0.522	0.325-0.493	
072-NON-FILTERABLE RESIDUE(IN MG/L)					
01	.	88.0	61.9- 98.1	66.4- 93.6	
02	.	56.0	42.7- 60.1	44.9- 57.9	
073-OIL AND GREASE(IN MG/L)					
01	.	46.0	29.5- 54.1	32.6- 51	
02	.	18.9	12- 23.2	13.4- 21.8	
097-TOTAL PHENOLICS(IN MG/L)					
01	.	2.71	1.47- 3.96	1.78- 3.64	
02	.	1.19	0.519- 1.87	0.692- 1.7	
098-TOTAL RESIDUAL CHLORINE(IN MG/L)					
01	.	2.80	2.54- 3.6	2.68- 3.46	
02	.	0.410	0.295-0.624	0.338-0.581	

********** END OF DATA FOR **********
NOTE: FOR LIMITS AND TRUE VALUES, ASSUME THREE SIGNIFICANT DIGITS.
********** END OF REPORT FOR **********

* Based on gravimetric calculations, or a reference value when necessary.