Performance Evaluation Report
USEPA Water Pollution Study WP039

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	.	489	420- 562	437- 544	
002-ARSENIC					
01	.	864	739- 1010	772- 972	
003-BERYLLIUM					
02	.	191	170- 214	176- 208	
004-CADMIUM					
01	.	33.9	28.7- 39.1	30- 37.8	
005-COBALT					
01	.	82.3	71.5- 92.4	74.1- 89.7	
006-CHROMIUM					
01	.	216	189- 244	196- 237	
007-COPPER					
01	.	74.3	68.2- 84.3	70.2- 82.3	
008-IRON					
01	.	191	165- 218	171- 211	
009-MERCURY					
01	.	0.563	0.307-0.782	0.366-0.722	
010-MANGANESE					
01	.	530	485- 587	498- 574	
011-NICKEL					
01	.	702	674- 780	688- 767	
012-LEAD					
01	.	1900	1690- 2110	1740- 2060	
013-SELENIUM					
01	.	760	625- 862	655- 833	
014-VANADIUM					
01	.	1420	1320- 1560	1350- 1530	
015-ZINC					
01	.	131	113- 150	118- 146	
016-ANTIMONY					
02	.	277	198- 325	214- 309	
017-SILVER					
02	.	130	118- 150	122- 146	
018-THALLIUM					
02	.	141	121- 167	127- 161	
074-MOLYBDENUM					
02	.	589	521- 662	539- 644	
075-STRONTIUM					
02	.	6.34	5.37- 7.59	5.66- 7.31	
076-TITANIUM					
02	.	88.2	77.3- 98.2	80- 95.4	

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MINERALS IN MILLIGRAMS/LITER (EXCEPT AS NOTED)					
020-SPEC. COND.(UMHOS/CM AT 25 C)					
01	.	296	271- 313	276- 308	
021-TDS AT 180 C					
01	.	156	127- 200	136- 191	
022-TOTAL HARDNESS(AS CACO3)					
01	.	14.8	11.7- 18.8	12.6- 17.9	
023-CALCIUM					
01	.	2.51	1.98- 3.23	2.14- 3.07	
024-MAGNESIUM					
01	.	2.08	1.84- 2.37	1.91- 2.31	
025-SODIUM					
01	.	31.8	28- 36.2	29- 35.1	
026-POTASSIUM					
01	.	30.0	24.4- 35.3	25.7- 33.9	
027-TOTAL ALKALINITY(AS CACO3)					
01	.	36.8	32.3- 44.7	33.8- 43.1	
028-CHLORIDE					
01	.	10.8	8.3- 12.7	8.85- 12.2	
029-FLUORIDE					
01	.	3.80	3.37- 4.24	3.48- 4.14	
030-SULFATE					
01	.	58.0	49- 67.3	51.3- 65	
NUTRIENTS IN MILLIGRAMS/LITER					
031-AMMONIA-NITROGEN					
01	.	0.840	0.594- 1.13	0.658- 1.07	
032-NITRATE-NITROGEN					
01	.	1.10	0.868- 1.31	0.921- 1.26	
033-ORTHOPHOSPHATE					
01	.	0.250	0.203-0.296	0.214-0.285	
034-KJELDAHL-NITROGEN					
02	.	0.360	D.L. -0.907	0.0785-0.794	
035-TOTAL PHOSPHORUS					
02	.	0.170	0.15-0.252	0.162- 0.24	
DEMANDS IN MILLIGRAMS/LITER					
036-COD					
01	.	192	139- 232	151- 220	
037-TOC					
01	.	76.0	63.6- 86.4	66.6- 83.4	
038-5-DAY BOD					
01	.	119	63.5- 174	77.4- 160	
102-CARBONACEOUS BOD					
01	.	100	41.2- 159	56.7- 143	

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PCB'S IN MICROGRAMS/LITER					
040-PCB-AROCLOR 1016/1242					
01	.		Not Present		
02	.	6.40	2.55- 8.54	3.3- 7.78	
042-PCB-AROCLOR 1232					
01	.		Not Present		
02	.		Not Present		
044-PCB-AROCLOR 1248					
01	.		Not Present		
02	.		Not Present		
045-PCB-AROCLOR 1254					
01	.	3.29	1.45- 4.34	1.81- 3.98	
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	.		Not Present		
02	.	41.7	6.01- 57.7	12.6- 51.1	
100-PCB IN OIL- 1254					
01	.		Not Present		
02	.		Not Present		
101-PCB IN OIL- 1260					
01	.	16.6	2.93- 23.7	5.57- 21	
02	.		Not Present		
PESTICIDES IN MICROGRAMS/LITER					
047-ALDRIN					
01	.	1.48	0.354- 2.12	0.576- 1.89	
048-DIELDRIN					
01	.	1.72	0.949- 2.14	1.1- 1.99	
049-DDD					
01	.	2.35	1.19- 2.94	1.41- 2.72	
050-DDE					
01	.	1.47	0.791- 2.56	1.01- 2.34	
051-DDT					
01	.	3.25	1.07- 3.76	1.41- 3.43	
052-HEPTACHLOR					
01	.	0.764	0.236- 1.03	0.335-0.927	
053-CHLORDANE					
02	.	12.7	5.86- 18.9	7.5- 17.3	
078-HEPTACHLOR EPOXIDE					
01	.	0.586	0.317-0.693	0.364-0.646	

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VOLATILE HALOCARBONS IN MICROGRAMS/LITER					
054-1,2 DICHLOROETHANE					
01	.	22.8	15.8- 28.9	17.5- 27.3	
055-CHLOROFORM					
01	.	27.2	18.5- 33.3	20.3- 31.5	
056-1,1,1 TRICHLOROETHANE					
01	.	17.4	11.3- 23.3	12.8- 21.8	
057-TRICHLOROETHENE					
01	.	12.7	7.88- 15.3	8.81- 14.4	
058-CARBONTETRACHLORIDE					
01	.	15.2	8.37- 20.9	9.94- 19.3	
059-TETRACHLOROETHENE					
01	.	17.5	11.1- 22.3	12.5- 20.9	
060-BROMODICHLOROMETHANE					
01	.	21.6	15.7- 25.8	17- 24.5	
061-DIBROMOCHLOROMETHANE					
01	.	20.4	13.7- 25	15.1- 23.6	
062-BROMOFORM					
01	.	36.8	21.7- 47.5	24.9- 44.3	
063-METHYLENE CHLORIDE					
01	.	33.6	21.8- 41.8	24.3- 39.3	
064-CHLOROBENZENE					
01	.	16.6	11.8- 20.6	12.9- 19.5	
VOLATILE AROMATICS IN MICROGRAMS/LITER					
065-BENZENE					
01	.	46.4	35- 57.9	37.9- 55	
066-ETHYLBENZENE					
01	.	27.3	19.2- 34.5	21.1- 32.6	
067-TOLUENE					
01	.	62.6	46.5- 76.5	50.3- 72.8	
094-1,2-DICHLOROBENZENE					
01	.	13.8	9.42- 16.2	10.3- 15.3	
095-1,4-DICHLOROBENZENE					
01	.	18.8	13.6- 23.9	14.9- 22.6	
096-1,3-DICHLOROBENZENE					
01	.	22.4	15.7- 26.4	17.1- 25.1	
MISCELLANEOUS ANALYTES					
019-PH-UNITS					
01	.	5.03	4.93- 5.14	4.95- 5.12	
071-TOTAL CYANIDE(IN MG/L)					
01	.	0.639	0.447-0.836	0.496-0.787	
072-NON-FILTERABLE RESIDUE(IN MG/L)					
01	.	96.0	36.8- 109	45.7- 100	

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073-OIL AND GREASE (FREON EXTRACTION)(IN MG/L)					
01	.	44.0	31- 49.2	33.4- 46.9	
097-TOTAL PHENOLICS(IN MG/L)					
01	.	0.799	0.443- 1.15	0.536- 1.06	
098-TOTAL RESIDUAL CHLORINE(IN MG/L)					
01	.	0.280	0.229-0.439	0.256-0.412	
104-OIL AND GREASE (HEXANE EXTRACTION)(IN MG/L)					
01	.	44.0	24.2- 58	28.7- 53.5	

********** 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.