

WESTCHESTER COUNTY DEPARTMENT OF LABS & RESEARCH												
CHAIN OF CUSTODY RECORD												
							PAGE ____ OF ____					
SDG# _____ NAME <u>NYC-DEP</u> CONTACT <u>J. Morris</u>				LABORATORY <u>WESTCHESTER COUNTY</u> ADDRESS <u>VALHALLA, NEW YORK</u> CONTACT _____								
SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE TIME		SAMPLE TYPE	ANALYSES					# OF BOTTLES	PRESERVATION	COMMENTS (SPECIAL INSTRUCTIONS, CAUTIONS, ETC.)
Coff	28856	11/25/01	8:40		VOA	BNA	PEST/ PCB	METALS	CN	25 / 529		
Dell	28855	" "	8:42		H					10		
Coff	28857	" "	7:20		H					4		
FBI	28858				H					4		
I. SAMPLED AND RELINQ. BY: SIGN: [Signature] PRINT: Vincent L. Monar FIRM: NYC-DEP DATE: 11/26/01 TIME: 7:35	I. RECEIVED BY: SIGN: [Signature] PRINT: K. Magnuson FIRM: WL DATE: 11/26/01 TIME: 2:35	ANALYSES/COMMENTS:			IV. RELINQUISHED BY: SIGN: PRINT: FIRM: DATE: TIME:			IV. RECEIVED BY: SIGN: PRINT: FIRM: DATE: TIME:			ANALYSES/COMMENTS:	
II. RELINQUISHED BY: SIGN: PRINT: FIRM: DATE: TIME:	II. RECEIVED BY: SIGN: PRINT: FIRM: DATE: TIME:	ANALYSES/COMMENTS:			V. RELINQUISHED BY: SIGN: PRINT: FIRM: DATE: TIME:			V. RECEIVED BY: SIGN: PRINT: FIRM: DATE: TIME:			ANALYSES/COMMENTS:	
III. RELINQUISHED BY: SIGN: PRINT: FIRM: DATE: TIME:	III. RECEIVED BY: SIGN: PRINT: FIRM: DATE: TIME:	ANALYSES/COMMENTS:			VI. RELINQUISHED BY: SIGN: PRINT: FIRM: DATE: TIME:			VI. RECEIVED BY: SIGN: PRINT: FIRM: DATE: TIME:			ANALYSES/COMMENTS:	
EVIDENCE SAMPLES TAMPERED WITH: ___ NO ___ YES ___ N/A					SAMPLES DISPOSED OF ON: _____ BY: _____							
IF YES EXPLAIN IN REMARKS												

NYC-DEP Bureau of Water Supply
Weekly Chlorination and Fluoridation Report
Kensico Laboratory, ELAP ID No. 10771

For Period 10/08 - 10/14/01

DATE	CHLORINATION										FLUORIDATION										
	CATSKILL		DELAWARE		CROTON				CATSKILL		DELAWARE		CROTON		DISTRIBUTION						
	at Eastview		at Shaft 19		at CLGH		at Sh 9		at Eastview		at Shaft 19		BX32(CRO)	@DUNW	BX3(CAT)	BX58(DEL)					
	FCR	DOSE	FCR	DOSE	FCR	DOSE	FCR	DOSE	Fluoride	DOSE	Fluoride	DOSE	Fluoride	DOSE	Fluoride	Fluoride					
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L					
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM					
08OCT01	1.30	1.28	1.94	0.99	1.00	1.56	1.48	1.49	2.28	0.95	X	1.00	X	0.98	0.90	X	0.97	1.09	X	1.02	1.01
09OCT01	1.32	1.38	1.92	1.14	1.04	1.63	1.54	1.43	2.31	0.95	X	0.94	X	0.97	1.01	X	0.96	1.07	X	1.00	1.00
10OCT01	1.50	1.48	1.95	1.09	0.92	1.62	1.45	1.51	2.26	0.96	X	1.14	X	0.97	1.05	X	0.97	1.24	X	0.98	1.02
11OCT01	1.38	1.42	1.98	1.04	0.96	1.57	1.45	1.44	2.28	0.92	X	1.00	X	0.97	0.98	X	0.97	1.24	X	1.00	0.99
12OCT01	1.40	1.44	2.02	1.00	0.94	1.61	1.40	1.41	2.25	0.90	X	0.98	X	0.98	0.96	X	0.93	1.27	X	1.09	1.05
13OCT01	1.42	1.44	2.01	1.03	0.94	1.49	1.40	1.40	2.49	0.83	X	1.02	X	0.97	1.00	X	0.97	1.18	X	1.01	0.81
14OCT01	1.47	1.40	1.61	1.04	0.96	2.03	1.38	1.38	2.45	0.80	X	1.04	X	0.97	1.10	X	0.97	1.19	X	1.03	0.99

BX3, BX32, BX58 analyses done at Central Laboratory

Inclusion of results does not explicitly imply certification for all analytes by NYS DOH ELAP.

OPERATION COMMENTS & SUMMARY ON DOWN TIME

Reported By

Date	System	Treatment Process	Time Down	Reason	Time On	Total Time Down



Westchester County

ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM WESTCHESTER COUNTY LABORATORIES AND RESEARCH

2 Dana Road, Valhalla, New York 10595

(914) 593-5575



NYS-ELAP No. 10108

Form A-70 (rev. 1/96)

Time/Date Set:

Sample Type (circle one):

1. Potable 3. Non-Potable *Treated*
2. Non-Potable 4. Other

Time/Date Collected: *11-27-01*Collected By: *NEWMAN* Agency Code:

Collected From:

Location's/Individual's Name: *NYC DEP/NEW YORK*Street: *100 W 11th St*City/St/Zip: *VALHALLA, NY 10595*

Identification of Source:

Collection Point: *FIELD*

Bottle #'s:

Chain of Custody? ☐ yes ☐ no

Comments:

PWS #: Source ID: Type Descriptor:

Bill to:

Name/Company:

Street:

City/St/Zip:

Phone#:

Fax #:

CA, CH, BI?

Check#:

Amount\$

BACTERIOLOGICAL ANALYSES

Lab#:

(circle tests)

1. Heterotrophic Plate Count (hemodialysis & all others)
2. Coliform P/A (public supplies)
3. Coliform MPN (priv well, raw, stp)
4. Fecal Coliform (all samples)
5. Microscopic
6. Macroscopic
7. AP
8. Other:

Refrigerated? ☐ yes ☐ noChlorinated? ☐ yes ☐ no

Free Chlorine Res: mg/L

Total Chlorine Res: mg/L

pH

ORGANIC POTABLE ANALYSES

Lab#:

(circle tests)

1. Trihalomethanes (524)
2. Volatile Halocarbons (524)
3. Volatile Aromatics (524)
4. Total Trihalomethane Potential (510)
5. Microextractables (504)
6. Pesticides (507)
7. Pesticides/PCB screen (508)
8. PCB as Decachlorobiphenyl (508A)
9. Herbicides (515)
10. Pesticides (525)
11. Carbamate Pesticides (531)
12. Glyphosate (547)
13. Diquat (549)
14. Chlorination Disinfection Byproducts (551)
15. Haloacetic Acids (552)
16. Other Pesticides (SM-18/6630)
17. Petroleum/Hydrocarbon Scan (310-13)

ORGANIC NONPOTABLE/SOLID ANALYSES

1. Purgeable Halocarbons (624/8260)
2. Purgeable Aromatics (624/8260)
3. Acrolein & Acrylonitrile (624)
4. Phthalates (606/8060)
5. Organochlorine Pesticides (608/8080)
6. PCB's (Arochlors) (608/8080)
7. Herbicides (SM-18/6640; 8151)
8. Other Pesticides (SM-18/6630)
9. Petroleum Hydrocarbon Scan (310-13)
10. Glycols in Water
11. Acid Extractables (625/8270)
12. Base Neutral Extractables (625/8270)
13. GC/MS Unknown Scan
14. Purgeable Halocarbons (DEF)
15. Purgeable Aromatics (DEF)
16. Pesticides (DEF)
17. PCB's (Arochlors) (DEF)

INORGANIC ANALYSES REQUESTED - Lab#:

(circle tests)

- | | | |
|-----------------------------|--|-----------------------------------|
| 1. Color | 20. Acidity | 39. Aluminum |
| 2. Turbidity | 21. Alkalinity, as CaCO ₃ | 40. Antimony |
| 3. pH | 22. Bromide | 41. Arsenic |
| 4. Conductivity | 23. Bromate/Chlorate/Chlorite | 42. Barium |
| 5. Corrosivity (temp: °C) | 24. Chloride | 43. Beryllium |
| 6. BOD (5 day) | 25. Cyanide | 44. Boron |
| 7. Soluble BOD (5 day) | 26. Fluoride | 45. Cadmium |
| 8. Carbonaceous BOD (5 day) | 27. Hardness, Total as CaCO ₃ | 46. Calcium, as CaCO ₃ |
| 9. Chemical Oxygen Demand | 28. Nitrogen, Ammonia as N | 47. Calcium, Ca ²⁺ |
| 10. Dissolved Oxygen | 29. Nitrogen, Nitrate as N | 48. Chromium, Total |
| 11. Total Organic Carbon | 30. Nitrogen, Nitrite as N | 49. Chromium, Hexavalent |
| 12. Total Organic Halides | 31. Nitrogen, Total Kjeldahl as N | 50. Cobalt |
| 13. Solids, Percent (%) | 32. Oil and Grease | 51. Copper |
| 14. Solids, Settleable | 33. Phenol | 52. Iron |
| 15. Solids, Suspended | 34. Phosphorus, Total as P | 53. Lead |
| 16. Solids, Total | 35. Phosphorus, Ortho as P | 54. Magnesium |
| 17. Solids, Total Dissolved | 36. Sulfates | 55. Manganese |
| 18. Solids, Total Volatile | 37. Surfactants | 56. Mercury |
| 19. Other: <i>Lead</i> | 38. UV254 | 57. Molybdenum |
| | | 58. Nickel |

59. Potassium

60. Selenium

61. Silver

62. Sodium

63. Thallium

64. Vanadium

65. Zinc

CLP:

66. Metals/CN

67. Volatiles

68. Semi-volatiles

69. Pesticides/PCB's

70. Disk Deliverables

TCLP:

71. TCLP-Metals

72. TCLP-Pesticides

73. TCLP-Herbicides

74. TCLP-Volatiles

75. TCLP-BNA's



Technicon Industrial Systems

Cyanide, Manual Distillation
 (10-500 UG/L)
 (Cyanide Requires Pump Tube Change)

- | | | |
|-------------|---|---|
| 165-B006-33 | 2 | Interference Filter, 660 NM
(Ammonia, TKN, Phos-Ortho, Phos-Total,
Silica, Sulfide) |
| 165-B030-02 | 2 | Flowcells, 10 x 0.5 MM |
| | | Controller/Data Handler Package,
providing complete TRAACS-800 system
control, data collection for up to
four (4) chemistry channels, report
generation, automatic baseline and
gain control, curve regeneration,
archival disk storage and retrieval,
and multi-tasking consists of the
following: |
| 167-B441-04 | 1 | IBM PS/2 Model 30-286-E21
80286 10 MHz
512 Kb, 20 Mb HD
1.44 Mb 3.5 in. FD
VGA
KEYBOARD (101)
SP, PP, GP, C/C
IBM PS/2 0.5 Mb Memory Modules Kit
IBM PS/2 8512 COLOR DISPLAY 14"
INTEL 80287-10 CO-PROCESSOR
I/OSP, PP, C/C CARD |
| 167-B430-01 | 1 | Dot Matrix PC Graphics Printer, includes:
- Printer Stand
- Parallel Printer Cable
- Printer Paper Package |
| 167-0800-02 | 1 | D-Base III Plus Software |

Please note: Warranty on the Model
 30 System is backed by a one year
 limited warranty. Extended terms
 are available from IBM and/or from
 IBM authorized remarketers.

Bran+Luebbe Analyzing Technologies, Inc.

103 Fairview Park Drive, Elmsford, New York 10523-1500 • (914) 524-8000

This Price List Subject To Terms & Conditions of Purchase Only



Westchester County

ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM WESTCHESTER COUNTY LABORATORIES AND RESEARCH

2 Dana Road, Valhalla, New York 10595

(914) 593-5575



NYS-ELAP No. 10108

Form A-70 (rev. 1/96)

Time/Date Set:

Sample Type (circle one):

1. Potable 3. Non-Potable Treated
2. Non-Potable 4. Other

Time/Date Collected: 08/10 11-25-01Collected By: NEWMAN Agency Code: _____

Collected From:

Location's/Individual's Name NYC DEPT. OF ENVIRONMENTAL CONSERVATIONStreet 19 WEST 11th DRIVECity/St/Zip VALHALLA NY 10595

Identification of Source _____

Collection Point LAKEBottle #'s: C-0713, 1015, 1213, 1204, Q-1020, 1018, 995, 1

Chain of Custody? _____ yes _____ no

Comments: _____

PWS #: _____ Source ID: _____ Type Descriptor: _____

Bill to: _____

Name/Company _____

Street _____

City/St/Zip _____

Phone #: _____ Fax #: _____

CA, CH, BI? _____ Check#: _____ Amount\$ _____

BACTERIOLOGICAL ANALYSES

Lab #: _____

(circle tests)

1. Heterotrophic Plate Count (hemodialysis & all others)
2. Coliform P/A (public supplies)
3. Coliform MPN (priv well, raw, stp)
4. Fecal Coliform (all samples)
5. Microscopic
6. Macroscopic
7. API
8. Other: _____

Refrigerated? _____ yes _____ no

Chlorinated?: _____ yes _____ no

Free Chlorine Res: _____ mg/L

Total Chlorine Res: _____ mg/L

pH _____

ORGANIC POTABLE ANALYSES

Lab #: _____

(circle tests)

1. Trihalomethanes (524)
2. Volatile Halocarbons (524)
3. Volatile Aromatics (524)
4. Total Trihalomethane Potential (510)
5. Microextractables (504)
6. Pesticides (507)
7. Pesticides/PCB screen (508)
8. PCB as Decachlorobiphenyl (508A)
9. Herbicides (515)
10. Pesticides (525)
11. Carbamate Pesticides (531)
12. Glyphosate (547)
13. Diquat (549)
14. Chlorination Disinfection Byproducts (551)
15. Haloacetic Acids (552)
16. Other Pesticides (SM-18/6630)
17. Petroleum/Hydrocarbon Scan (310-13)

ORGANIC NONPOTABLE/SOLID ANALYSES

1. Purgeable Halocarbons (624/8260)
2. Purgeable Aromatics (624/8260)
3. Acrolein & Acrylonitrile (624)
4. Phthalates (606/8060)
5. Organochlorine Pesticides (608/8080)
6. PCB's (Arochlors) (608/8080)
7. Herbicides (SM-18/6640; 8151)
8. Other Pesticides (SM-18/6630)
9. Petroleum Hydrocarbon Scan (310-13)
10. Glycols in Water
11. Acid Extractables (625/8270)
12. Base Neutral Extractables (625/8270)
13. GC/MS Unknown Scan
14. Purgeable Halocarbons (DEF)
15. Purgeable Aromatics (DEF)
16. Pesticides (DEF)
17. PCB's (Arochlors) (DEF)

INORGANIC ANALYSES REQUESTED - Lab#: 28856

(circle tests)

- | | | |
|---------------------------------|--|-----------------------------------|
| 1. Color | 20. Acidity | 39. Aluminum |
| 2. Turbidity | 21. Alkalinity, as CaCO ₃ | 40. Antimony |
| 3. pH | 22. Bromide | 41. Arsenic |
| 4. Conductivity | 23. Bromate/Chlorate/Chlorite | 42. Barium |
| 5. Corrosivity (temp: _____ °C) | 24. Chloride | 43. Beryllium |
| 6. BOD (5 day) | 25. Cyanide | 44. Boron |
| 7. Soluble BOD (5 day) | 26. Fluoride | 45. Cadmium |
| 8. Carbonaceous BOD (5 day) | 27. Hardness, Total as CaCO ₃ | 46. Calcium, as CaCO ₃ |
| 9. Chemical Oxygen Demand | 28. Nitrogen, Ammonia as N | 47. Calcium, Ca |
| 10. Dissolved Oxygen | 29. Nitrogen, Nitrate as N | 48. Chromium, Total |
| 11. Total Organic Carbon | 30. Nitrogen, Nitrite as N | 49. Chromium, Hexavalent |
| 12. Total Organic Halides | 31. Nitrogen, Total Kjeldahl as N | 50. Cobalt |
| 13. Solids, Percent (%) | 32. Oil and Grease | 51. Copper |
| 14. Solids, Settleable | 33. Phenol | 52. Iron |
| 15. Solids, Suspended | 34. Phosphorus, Total as P | 53. Lead |
| 16. Solids, Total | 35. Phosphorus, Ortho as P | 54. Magnesium |
| 17. Solids, Total Dissolved | 36. Sulfates | 55. Manganese |
| 18. Solids, Total Volatile | 37. Surfactants | 56. Mercury |
| 19. Other: <u>X</u> | 38. (IV254) | 57. Molybdenum |
| | | 58. Nickel |

59. Potassium
60. Selenium
61. Silver
62. Sodium
63. Thallium
64. Vanadium
65. Zinc

CLP

66. Metals/CN
67. Volatiles
68. Semi-volatiles
69. Pesticides/PCB's
70. Disk Deliverables

TCLP

71. TCLP-Metals
72. TCLP-Pesticides
73. TCLP-Herbicides
74. TCLP-Volatiles
75. TCLP-BNA's



Technicon Industrial Systems

March 19, 1990

Proposal Number: PC1-3432

Ms. Eva Chen
 Laboratory Director
 NY CITY ENVIRONMENTAL PROTECTION
 AND BUREAU OF WATER SUPPLY
 Division of Drinking Water Quality Control
 51 Astor Place, Room 643
 New York, NY 10003

Re: Per the Request of our Mr. B. Cole

Part Number	Qty	Product Description	Extended Price
Modules		Technicon TrAAcs-800 (TM) Computer Controlled Dual Channel System, consisting of the following:	39,150.00
165-B122-02	1	Random Access Sampler with 120 Cup Position Analytical Console Containing: - Dual Channel Multi-Speed Pump - One (1) Dual Channel Colorimeter Assembly with Fiber Optics	
165-B085-01		- Custom Operating and Data Handling Software - One (1) Autodilutor Assembly (typically a fixed 1:10 dilution loop)	
165-D000-01	2	Multi-Test Chemistry Manifolds for the Analysis of the Following Methods in Water and Wastewater: Alkalinity, M.O. (10-500 MG/L) Ammonia (0.02-3 MG/L) Chloride (2-100 MG/L) Nitrate (Hydrazine) (0.02-2 MG/L) Nitrite (0.02-2 MG/L) Nitrogen, Total Kjeldahl (0.04-2 MG/L) Silica (0.02-10 MG/L) Sulfide (0.1-2.0 mg/L) Sulfite (0.06-3.0 mg/L) Phosphorus, Ortho (0.04-2 MG/L) Phosphorus, Total (.1-5 MG/L) Hardness (5-250 MG/L)	

Bran + Luebbe Analyzing Technologies, Inc.

103 Fairview Park Drive, Elmsford, New York 10523-1500 • (914) 524-8000



Westchester County

ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM WESTCHESTER COUNTY LABORATORIES AND RESEARCH

2 Dana Road, Valhalla, New York 10595

(914) 593-5575



NYS-ELAP No. 10108

Form A-70 (rev. 1/96)

Time/Date Set:

Sample Type (circle one):

1. Potable 3. Non-Potable Treated

2. Non-Potable 4. Other

Time/Date Collected: 0720 11-25-01

Collected By: NEWMAN Agency Code:

Collected From:

Location's/Individual's Name NYCD P/2/2510

Street 19 W 91st DRIVE

City/ST/Zip VALHALLA NY 10595

Identification of Source

Collection Point CROGH

Bottle #'s: K-9101, 7130, 9114, P-42, 675, Q-964, 963

Chain of Custody? yes no

Comments:

PWS #: Source ID: Type Descriptor:

Bill to:

Name/Company

Street

City/ST/Zip

Phone#:

Fax #:

CA, CH, BI?

Check#:

Amount\$

BACTERIOLOGICAL ANALYSES

Lab#:

(circle tests)

- Heterotrophic Plate Count (hemodialysis & all others)
- Coliform P/A (public supplies)
- Coliform MPN (priv well, raw, stp)
- Fecal Coliform (all samples)
- Microscopic
- Macroscopic
- API
- Other:

Refrigerated? yes no

Chlorinated? yes no

Free Chlorine Res: mg/L

Total Chlorine Res: mg/L

pH

ORGANIC POTABLE ANALYSES

Lab#:

(circle tests)

- Trihalomethanes (524)
- Volatile Halocarbons (524)
- Volatile Aromatics (524)
- Total Trihalomethane Potential (510)
- Microextractables (504)
- Pesticides (507)
- Pesticides/PCB screen (508)
- PCB as Decachlorobiphenyl (508A)
- Herbicides (515)
- Pesticides (525)
- Carbamate Pesticides (531)
- Glyphosate (547)
- Diquat (549)
- Chlorination Disinfection Byproducts (551)
- Halacetic Acids (552)
- Other Pesticides (SM-18/6630)
- Petroleum/Hydrocarbon Scan (310-13)

ORGANIC NONPOTABLE/SOLID ANALYSES

- Purgeable Halocarbons (624/8260)
- Purgeable Aromatics (624/8260)
- Acrolein & Acrylonitrile (624)
- Phthalates (606/8060)
- Organochlorine Pesticides (608/8080)
- PCB's (Aroclors) (608/8080)
- Herbicides (SM-18/6640; 8151)
- Other Pesticides (SM-18/6630)
- Petroleum Hydrocarbon Scan (310-13)
- Glycols in Water
- Acid Extractables (625/8270)
- Base Neutral Extractables (625/8270)
- GC/MS Unknown Scan
- Purgeable Halocarbons (DEF)
- Purgeable Aromatics (DEF)
- Pesticides (DEF)
- PCB's (Aroclors) (DEF)

INORGANIC ANALYSES REQUESTED - Lab#:

(circle tests)

- | | | |
|-----------------------------|--|-----------------------------------|
| 1. Color | 20. Acidity | 39. Aluminum |
| 2. Turbidity | 21. Alkalinity, as CaCO ₃ | 40. Antimony |
| 3. pH | 22. Bromide | 41. Arsenic |
| 4. Conductivity | 23. Bromate/Chlorate/Chlorite | 42. Barium |
| 5. Corrosivity (temp: °C) | 24. Chloride | 43. Beryllium |
| 6. BOD (5 day) | 25. Cyanide | 44. Boron |
| 7. Soluble BOD (5 day) | 26. Fluoride | 45. Cadmium |
| 8. Carbonaceous BOD (5 day) | 27. Hardness, Total as CaCO ₃ | 46. Calcium, as CaCO ₃ |
| 9. Chemical Oxygen Demand | 28. Nitrogen, Ammonia as N | 47. Calcium, Ca ²⁺ |
| 10. Dissolved Oxygen | 29. Nitrogen, Nitrate as N | 48. Chromium, Total |
| 11. Total Organic Carbon | 30. Nitrogen, Nitrite as N | 49. Chromium, Hexavalent |
| 12. Total Organic Halides | 31. Nitrogen, Total Kjeldahl as N | 50. Cobalt |
| 13. Solids, Percent (%) | 32. Oil and Grease | 51. Copper |
| 14. Solids, Settleable | 33. Phenol | 52. Iron |
| 15. Solids, Suspended | 34. Phosphorus, Total as P | 53. Lead |
| 16. Solids, Total | 35. Phosphorus, Ortho as P | 54. Magnesium |
| 17. Solids, Total Dissolved | 36. Sulfates | 55. Manganese |
| 18. Solids, Total Volatile | 37. Surfactants | 56. Mercury |
| 19. Other | 38. UV254 | 57. Molybdenum |
| | | 58. Nickel |

- Potassium
- Selenium
- Silver
- Sodium
- Thallium
- Vanadium
- Zinc

CLP

- Metals/CN
- Volatiles
- Semi-volatiles
- Pesticides/PCB's
- Disk Deliverables

TCLP

- TCLP-Metals
- TCLP-Pesticides
- TCLP-Herbicides
- TCLP-Volatiles
- TCLP-BNA's

LIMNOLOGY (EAST OF HUDSON)

West Branch Reservoir - Full Survey

Prepared by Keith Chin, EOH Limnology

A full survey of West Branch Reservoir was conducted on October 10, 2001. Sites sampled included Site 1, located in front of the dam; Site 2, located at Shaft 10 where water leaves the reservoir; Site 3, located at Shaft 9 where water enters the reservoir; and Site 4, located in the northeast basin separated from the main basin by a causeway. Samples were analyzed for a series of physical, chemical and microbiological parameters according to NYCRR Part 700; Memorandum of Agreement; NYC Rules and Regulations; and NYC system specific reservoir standards. The results of the survey are as follows:

Currently all sites are isothermal with temperatures ranging between 15 °C and 16 °C. Turbidity levels were above the internal alert standard of 1.5 NTU at all sites except for Site 3. Color was above the secondary standard of 15 color units at all sites except for the top and bottom of Site 3 and the top of Site 4. Secchi disk measurements were 3.2 meters at Site 2, 4.5 meters at Site 3, and 2.5 meters at Site 4. Median dissolved oxygen (DO) concentrations measured between 7.7 and 8.9 mg·L⁻¹ at all sites.

Total phytoplankton levels were below the DWQC internal standard of 2000 SAU·ml⁻¹ at all sites. Individual genera counts exceeded the DWQC internal standard of 1000 SAU·ml⁻¹ at the top of Site 4 (1300 SAU·ml⁻¹, *Melosira* dominant). Total coliform levels were below the SWTR limit of 100 CFU·100ml⁻¹ at all locations. Fecal coliform exceeded the SWTR limit of 20 CFU·100ml⁻¹ at the bottom of Site 1 (24 CFU·100ml⁻¹).

SUTTON PARK

M. Principe
D. Smith

UPSTATE LABS

Ben Nesin Lab
Croton Lab
Grahamsville Lab
Katonah Lab
Kensico Lab

KINGSTON

S. Schindler

LEFRAK

F. LaPorta
T. Tipa
Central Lab



Westchester County

ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM WESTCHESTER COUNTY LABORATORIES AND RESEARCH

2 Dana Road, Valhalla, New York 10595
(914) 593-5575

NYS-ELAP No. 10108
Form A-70 (rev. 1/96)

Time/Date Set:

Sample Type (circle one):

1. Potable 3. Non-Potable Treated
2. Non-Potable 4. Other

Time/Date Collected:

Collected By: LAB Agency Code: NEW

Collected From:

Location's/Individual's Name: F. H. B. B. B.

Street:

City/ST/Zip:

Identification of Source:

Collection Point: FB - 11/25/01

Bottle #'s: P 1213 Q 899

Chain of Custody? yes no

Comments:

PWS #: _____ Source ID: _____ Type Descriptor: _____

Bill to:

Name/Company:

Street:

City/ST/Zip:

Phone #:

Fax #:

CA, CH, BI?

Check#:

Amount\$

BACTERIOLOGICAL ANALYSES

Lab #:

(circle tests)

1. Heterotrophic Plate Count (hemodialysis & all others)
2. Coliform P/A (public supplies)
3. Coliform MPN (priv. well, raw, stp)
4. Fecal Coliform (all samples)
5. Microscopic
6. Macroscopic
AP:
Other: _____

Refrigerated? yes no

Chlorinated? yes no

Free Chlorine Res: _____ mg/L

Total Chlorine Res: _____ mg/L

pH:

ORGANIC POTABLE ANALYSES

Lab #:

(circle tests)

1. Trihalomethanes (524)
2. Volatile Halocarbons (524)
3. Volatile Aromatics (524)
4. Total Trihalomethane Potential (510)
5. Microextractables (504)
6. Pesticides (507)
7. Pesticides/PCB screen (508)
8. PCBs as Decachlorobiphenyl (508A)
9. Herbicides (515)
10. Pesticides (525)
11. Carbamate Pesticides (531)
12. Glyphosate (547)
13. Diquat (549)
14. Chlorination Disinfection Byproducts (551)
15. Haloacetic Acids (552)
16. Other Pesticides (SM:18/6630)
17. Petroleum Hydrocarbon Scan (310-13)

ORGANIC NONPOTABLE/SOLID ANALYSES

1. Purgeable Halocarbons (624/8260)
2. Purgeable Aromatics (624/8260)
3. Acrolein & Acrylonitrile (624)
4. Phthalates (606/8060)
5. Organochlorine Pesticides (608/8080)
6. PCB's (Arochlors) (608/8080)
7. Herbicides (SM:18/6640, 8151)
8. Other Pesticides (SM:18/6630)
9. Petroleum Hydrocarbon Scan (310-13)
10. Glycols in Water
11. Acid Extractables (625/8270)
12. Base Neutral Extractables (625/8270)
13. GC/MS Unknown Scan
14. Purgeable Halocarbons (DEF)
15. Purgeable Aromatics (DEF)
16. Pesticides (DEF)
17. PCB's (Arochlors) (DEF)

INORGANIC ANALYSES REQUESTED Lab #: 28558

(circle tests)

1. Color
2. Turbidity
3. pH
4. Conductivity
5. Corrosivity (temp: _____ °C)
6. BOD (5 day)
7. Soluble BOD (5 day)
8. Carbonaceous BOD (5 day)
9. Chemical Oxygen Demand
10. Dissolved Oxygen
11. Total Organic Carbon
12. Total Organic Halides
13. Solids, Percent (%)
14. Solids, Settleable
15. Solids, Suspended
16. Solids, Total
17. Solids, Total Dissolved
18. Solids, Total Volatile
19. Other: _____
20. Acidity
21. Alkalinity, as CaCO₃
22. Bromide
23. Bromate/Chlorate/Chlorite
24. Chloride
25. Cyanide
26. Fluoride
27. Hardness, Total as CaCO₃
28. Nitrogen, Ammonia as N
29. Nitrogen, Nitrate as N
30. Nitrogen, Nitrite as N
31. Nitrogen, Total Kjeldahl as N
32. Oil and Grease
33. Phenol
34. Phosphorus, Total as P
35. Phosphorus, Ortho as P
36. Sulfates
37. Surfactants
38. UV254
39. Aluminum
40. Antimony
41. Arsenic
42. Barium
43. Beryllium
44. Boron
45. Cadmium
46. Calcium, as CaCO₃
47. Calcium, Ca
48. Chromium, Total
49. Chromium, Hexavalent
50. Cobalt
51. Copper
52. Iron
53. Lead
54. Magnesium
55. Manganese
56. Mercury
57. Molybdenum
58. Nickel

59. Potassium
60. Selenium
61. Silver
62. Sodium
63. Thallium
64. Vanadium
65. Zinc

CLP

66. Metals/CN
67. Volatiles
68. Semi-volatiles
69. Pesticides/PCB's
70. Disk Deliverables

TCLP

71. TCLP Metals
72. TCLP Pesticides
73. TCLP Herbicides
74. TCLP Volatiles
75. TCLP BNA's

[illegible]