

WESTCH. OF LABS & RESEARCH												
CHAIN OF CUSTODY RECORD												
							PAGE ____ OF ____					
SDG# NAME CONTACT				LABORATORY ADDRESS CONTACT								
NYC-DEP-Kensico Lab <u>J. Morris</u>				WESTCHESTER COUNTY VALHALLA, NEW YORK <u>J. Morris</u>								
SAMPLE NO.	LABORATORY SAMPLE NO.	SAMPLING DATE TIME		SAMPLE TYPE	ANALYSES					# OF BOTTLES	PRESER-VATION	COMMENTS (SPECIAL INSTRUCTIONS, CAUTIONS, ETC.)
					VOA	BNA	PEST/ PCB	METALS	CN			
Catfish	26473	10/29/01	9:00		4			1		528 828	11	
Delt	26474	"	8:40		3			1		6	10	
Codfish	26475	"	7:40		3			1		6	10	
I. SAMPLER AND RELINQ. BY:	I. RECEIVED BY:		ANALYSES/COMMENTS:		IV. RELINQUISHED BY:		IV. RECEIVED BY:		ANALYSES/COMMENTS:			
SIGN: [Signature]	SIGN: [Signature]				SIGN:		SIGN:					
PRINT: Vincent J. LaMorte	PRINT: [Signature]				PRINT:		PRINT:					
FIRM: NYC-DEP-Kensico Lab	FIRM: [Signature]				FIRM:		FIRM:					
DATE: 10/29/01 TIME: 12:25	DATE: 10/29/01 TIME: 1:25				DATE: TIME:		DATE: TIME:					
II. RELINQUISHED BY:	II. RECEIVED BY:		ANALYSES/COMMENTS:		V. RELINQUISHED BY:		V. RECEIVED BY:		ANALYSES/COMMENTS:			
SIGN:	SIGN:				SIGN:		SIGN:					
PRINT:	PRINT:				PRINT:		PRINT:					
FIRM:	FIRM:				FIRM:		FIRM:					
DATE: TIME:	DATE: TIME:				DATE: TIME:		DATE: TIME:					
III. RELINQUISHED BY:	III. RECEIVED BY:		ANALYSES/COMMENTS:		VI. RELINQUISHED BY:		VI. RECEIVED BY:		ANALYSES/COMMENTS:			
SIGN:	SIGN:				SIGN:		SIGN:					
PRINT:	PRINT:				PRINT:		PRINT:					
FIRM:	FIRM:				FIRM:		FIRM:					
DATE: TIME:	DATE: TIME:				DATE: TIME:		DATE: TIME:					
EVIDENCE SAMPLES TAMPERED WITH: ___ NO ___ YES ___ N/A					SAMPLES DISPOSED OF ON: _____							
IF YES EXPLAIN IN REMARKS					BY: _____							

See LAB0060.

9.3.3.3 Record the date, analyst, preparation of the test culture, results of the testing, and final conclusions (i.e. the cleaner is inhibitory, but is rinsed off well enough by routine procedures).

9.3.3.4 If the test indicates that routine procedures are not adequate to eliminate the effects of the cleaner, procedures are to be bolstered to include more rinsing.

9.3.4 Verification of Colonies

9.3.4.1 Verification of colonies is required monthly.

9.3.4.2 Ten positive and ten negative colonies are selected from both total and fecal coliform plates. Colonies that are difficult to identify as having a sheen or blue color should be evaluated.

9.3.4.3 The colonies are verified using tube media as described within the total and fecal coliform SOPs.

9.3.4.4 Record the date, analyst, samples used to provide colonies, morphology of colonies selected, and results of LTB, BGB, and EC/mug testing.

9.3.4.5 If colonies are found to be responding differently than expected, they may be identified. Supervisors are to discuss the differentiation of colony morphology.

9.3.4.6 Sample counts are to be reported in the verified results fields.

9.3.4.7 At all times, pinpoint fecal colonies are to be verified. These colonies are not to be counted unless they have been verified.

9.3.5 Cultures of known organisms

9.3.5.1 Reference cultures

9.3.5.1.1 Reference cultures are to be purchased from ATCC certified stocks. Certificates are to be retained for each reference culture.

9.3.5.1.2 Reference cultures are to be reconstituted and grown to provide viable organisms. The resulting culture shall be referred to as a stock culture.

9.3.5.2 Stock cultures

9.3.5.2.1 Stock cultures are assumed to have the appropriate biochemical responses, since they are only obtained from certified stocks.

9.3.5.2.2 Stock cultures are to be kept in the refrigerator and may be used to grow working cultures until the culture begins to show signs of degradation, including media breakdown or dehydration, or inappropriate test results.

9.3.5.2.3 Stock cultures are not to be held for more than three months.

9.3.5.2.4 Stock cultures are not to be sub-cultured to create working cultures more than five times.

9.3.5.3 Working cultures

9.3.5.3.1 Working cultures are made from the stock cultures, and will be used to prepare daily QC checks.

9.3.5.3.2 Each working culture may be used for one week.

9.3.5.3.3 Working cultures are not to be used to re-supply the stock culture.

9.3.5.4 Daily cultures

9.3.5.4.1 Daily cultures are used to set up QC tests for many

ENVIRONMENTAL SERVICES SAMPLE SUBMISSION FORM
WESTCHESTER COUNTY LABORATORIES AND RESEARCH2 Dana Road, Valhalla, New York 10595
(914) 593-5575NYS-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: 0700 11/23/01

Collected By: Newman Agency Code: _____

Collected From:

Location's/Individual's Name NYC DEP/Kensico

Street 170 West 16th Drive

City/St/Zip Valhalla, NY 10595

Identification of Source _____

Collection Point CAT LAKE

Bottle #s: 110-0106, 20102100, 10426, 01021, 2168, 2165, K-100120, 7908, 3157, 70

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 ANALYSIS

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 ANALYSIS

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. Pesticides (SM18/6630)
17. Petroleum/Hydrocarbon Scan (310-13)
18. Other: _____

ORGANIC NONPOTABLE/SOLID ANALYSIS

1. Purgeable Halocarbons (624/8260)
2. Purgeable Aromatics (624/8260)
3. Acrolein & Acrylonitrile (624)
4. Phthalates (625/8270)
5. Organochlorine Pesticides (608/8081)
6. PCB's (Aroclors) (608/8081)
7. Methoprene (616)
8. Herbicides (EPA1978/8151)
9. Pesticides (SM18/6630)
10. Petroleum Hydrocarbon Scan (310-13)
11. Glycols
12. Acid Extractables (625/8270)
13. Base Neutral Extractables (625/8270)
14. GC/MS Semivolatile Unknown Scan
15. Purgeable Halocarbons (DEF)
16. Purgeable Aromatics (DEF)
17. Pesticides/PCB's (DEF)
18. Other: _____

INORGANIC ANALYSIS REQUESTED - Lab#: 26473

(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: SH Ti | 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

more than adequate lighting (see blue prints)

- 5.1.5 Air system: Two air conditioners in the laboratory .
- 5.1.6 Lab reagent water system: Millipore Reverse Osmosis system combined with MilliQ A10 System with a 60 liter holding tank. A backwashable carbon tank and a prefilter is at the beginning of the whole system.
- 5.1.7 Waste disposal system: Biohazard waste is disposed of in red biohazard bags which are then placed in biohazard boxes and labeled. These boxes are stored in the facility garage downstairs and are picked up on a regular monthly basis by a NYC contracted waste disposal firm.
- 5.1.8 Safety considerations: Lab coats, goggles and double gloves are used during all sample processing. The lab benches are cleaned periodically throughout the work day and at the end of each work day with 70% ethanol. Mercury and chemical spill kits are located at the entrance to the lab room.

6 Field Sampling Procedures

- 6.1 For more detailed field sampling procedures, refer to Pathogen Program Field Collection S.O.P.
- 6.2 Routine keypoint samples collected for the ICR method are the influents and effluents of Kensico Reservoir: CATALUM, DEL17, CATLEFF and DEL18, and the effluent of Croton Reservoir, CROGH.
- 6.3 Samples are collected and transported as described in the ICR sampling manual.
- 6.4 The sampling apparatus is assembled, water pressure adjusted to less than or equal to 30 psi and flushed with 20 gallons of water. After the system is flushed and emptied, a filter is placed in the filter housing. At least 26 gallons is filtered at less than or equal to 30 psi and at a flow rate of 1 gpm. The filter is then packaged per ICR instructions, placed in a cooler with ice packs (initial internal cooler temperature equals 0°C), and shipped by overnight delivery to the laboratory.
- 6.5 Samples are identified as CATALUM, DEL17, CATLEFF, DEL18, or CROGH. Field personnel write these site names on the chain of custody sheets. This information is then transferred into the laboratory logbook as a permanent record.

7 Laboratory Sample Handling Procedures

- 7.1 When a sample is received, the sample is given the next available number in the Pathogen Lab Log Book and logged in. The paperwork for the sample is unpacked, dated, the time received recorded, given the appropriate sample number and is then placed in the sample paperwork binder. The number given to the sample is also put on the sample packaging. The sample is stored in the



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: 0840 10/28/01

Collected By: M. J. J. Agency Code: _____

Collected From: _____

Location's/Individual's Name NYC DEP/ENSCO

Street 19 W. 4th St. Drive

City/St/Zip Valhalla, NY 10595

Identification of Source _____

Collection Point Del 18

Bottle #'s: 1-16 2032, 2026, 2027, 618 42539 770
0802171, C-0415, R-8606, 7007, 71101

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
Macroscopic
6. API
7. 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#: 26474

(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: Sn Ti | 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

range of organisms.

- 4.2 Lisa Blancero- Scientist Water Ecologist - Principal Analyst and Lab Supervisor
 - 4.2.1 B.S. in Biology from SUNY - Albany
 - 4.2.2 10 years experience analyzing several hundred water and wastewater samples for Giardia and Cryptosporidium.
 - 4.2.3 11 years experience with immunofluorescent antibody techniques;
 - 4.2.4 training and experience acquired under the direction of the New York State Dept. of Health- Wadsworth Center for Labs and Research.
- 4.3 William G. Kuhne - Associate Microbiologist I – Principal Analyst
 - 4.3.1 B.S. in Environmental Forest Biology from SUNY - ESF.
 - 4.3.2 9 years experience in field sample collection and analyzing water and wastewater samples for Giardia and Cryptosporidium.
 - 4.3.3 5 years experience with immunofluorescent antibody techniques;
 - 4.3.4 training and experience acquired under the direction of the New York City Dept. of Env. Protection Pathogen Laboratory, Ben Nesin Facility where he has processed over several hundred water and waste water samples.
- 4.4 Charles T. Lundy - Laboratory Microbiologist II - Technician
 - 4.4.1 A.A.S. in Water Quality Monitoring from Ulster Community College.
 - 4.4.2 9 years experience in field sampling and analyzing water and wastewater samples for nutrient determinations and chlorophyll analysis
 - 4.4.3 5 years experience processing water and wastewater samples for Giardia and Cryptosporidium analysis at the N.Y.C. Dept. of Env. Protection Ben Nesin Laboratory.
 - 4.4.4 8 years experience with the City of Poughkeepsie Water Purification Plant, performing bacteriological, microscopic and chemical examination of the city's water supply.
- 4.5 The Department of Environmental Protection has an aggressive literature search program as well as subscriptions to the most relevant microbiological journals. Additionally, department personnel are often sent to national and international conferences addressing improved methods and data reporting.

5 Facilities

- 5.1 The facility has been upgraded and consists of the following:
 - 5.1.1 The Pathogen Lab is located in the Ben Nesin Facility, bottom floor. The room is approximately 19'x20', with a dark room located within the lab and measures approximately 8'x10'.
 - 5.1.2 Bench space: approximate length is 15 feet of usable bench space.
 - 5.1.3 Storage space: other than the upgraded lab room, additional storage space and a chemical storage room can be found on the ground floor of the building.
 - 5.1.4 Lighting: several fluorescent ceiling lights and one large wall of windows provide

**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)

me/Date Set:

Sample Type (circle one):

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

Time/Date Collected: 0740 10/28/01Collected By: Newman Agency Code: _____**Collected From:**Location's/Individual's Name NYC DEP/KENStreet 13 West 44 DriveCity/St/Zip Valhalla, NY 10595

Identification of Source _____

Collection Point CRO GHBottle #'s: C-0443, K-7373, K164, G173, Q-300, 301/46, 303, P-415, 428/48, 400

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 _____ no

Chlorinated?: _____ yes _____ no

Free Chlorine Res: _____ mg/L

Total Chlorine Res: _____ mg/L

pH _____

ORGANIC POTABLE ANALYSESLab #: 21475

(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: <u>SATI</u> | 38. IIV254 | 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

1 Title: Pathogen Laboratory Quality Assurance Plan

2 Table of Contents

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3 Laboratory Organization and Responsibility

- 3.1 See Figure #1
- 3.2 Kerri Alderisio - Pathogen Lab Director
 - 3.2.1 Sutton Park, 465 Columbus Ave., Valhalla, NY 10595
- 3.3 Lisa Blancero - Pathogen Lab Supervisor, Principal Analyst (on site)
- 3.4 William Kuhne - Principal Analyst, (on site)
- 3.5 Charles Lundy - Technician, (on site)
- 3.6 James Broderick - Divisional QA/QC Officer, along with the Lab Director is responsible for internal audits and reviews of the implementation of the QA Plan and its requirements.

4 Personnel

- 4.1 Kerri Alderisio- Associate Microbiologist II- Pathogen Lab Director
 - 4.1.1 B.S. Biology from SUNY -Binghamton
 - 4.1.2 Over 12 years of experience analyzing water and wastewater samples for a wide