

[illegible]

against breakage.

9.1.2 Chemicals

9.1.2.1 One bottle of each of the chemicals used in making the solutions are kept in a storage cabinet.

9.1.2.2 All of the unopened bottles are kept in chemical storage in the basement of Ben Nesin Lab. Such chemicals are sucrose, sodium chloride, laurel sulfate, sodium phosphate, potassium chloride, tween 80, glycerol, and potassium phosphate.

9.1.2.3 Other chemicals are stored under refrigeration such as: bovine albumin and percoll. The supply of formaldehyde is kept in the lab facility's chemical storage area.

9.1.2.4 Chemicals are dated with the following: date received, date opened and expiration date.

9.1.2.5 The specifications for the chemicals that are used for making reagents, are the same as what is stated in the Information Collection Rule.

9.1.3 Filters

9.1.3.1 Two types of filters are used in the Hoefer Manifold procedure. The bottom or support filter is a cellulosic, 5.0 micron, 25mm filter. The top filter is a cellulose acetate 0.22 micron, 25 mm filter. These filters are stored in a bench drawer, in plastic storage containers, when not in use.

9.1.3.2 Gelman Envirochek Capsules are used in the EPA method 1623 procedure. These are approximately 6 cm in diameter and 21 cm long containing a polyethersulfone filter media and inlet and outlet fittings. These filters are stored in a cabinet outside the Pathogen Lab door.

10 Laboratory Practices

10.1 Reagent-grade water is prepared using a Mill-Q Water System, MRO system, manufactured by the Millipore Co.

10.2 After glassware is used it is put on the counter next to the sink to be washed. The dirty glassware is either washed with a diluted Micro cleaning solution or a diluted Coverage Plus Brand disinfectant and cleaner. After the glassware is washed, it is laid out to air dry and then put away in the appropriate storage places. Prior to beginning analysis, the designated glassware is laid out on the workbench and labeled with the appropriate solution names, sample numbers and appropriate dates. This is done to avoid any confusion during the sample processing procedure.

10.3 All glassware use in the 1623 procedure is autoclaved, scrubbed with a warm detergent solution and then soaked in a 5% hypochlorite solution for a minimum of 30 minutes. Then the glassware is rinsed with reagent water and placed out to dry.

10.4 Disposable supplies are used whenever possible in all procedures.



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. 1/9)

Date Set: _____

Sample Type (circle one):

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

Time/Date Collected: 1/25 11:30 AMCollected By: D. SCOTT Agency Code: _____

Collected From:

Location's/Individual's Name NYC DCPStreet 17 Westlake DriveCity/St/Zip Valhalla, NY 10595

Identification of Source _____

Collection Point Del 18Bottle #'s: 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000Chain 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

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#: 26626

(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: See T
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, Ca²⁺
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

11 Analytical Procedures

11.1 Reference Methods

11.1.1 The Environmental Protection Agency (EPA) Information Collection Rule (ICR) Microbial Laboratory Manual, April 1996

11.1.2 The EPA Method 1623, April 1999.

12 Quality Assurance and Quality Control (QA/QC) Checks

- 12.1 Confirmation and verification of presumed oocysts and/or cysts are performed by making comparison to the positive and negative control organisms examined with each sample. Cysts and oocysts are only "confirmed" if internal structures are identified.
- 12.2 As a sterility indicator, the temperature is checked during autoclaving runs to make sure appropriate sterilization temperatures are being attained. This is maintained in the logbook that is kept near the autoclave. The accurateness of the autoclave is checked by autoclave tape, kill-it ampules, broth tests and temperature checks. These results are recorded in a logbook located next to the autoclave.
- 12.3 Over the course of a week, all of the samples processed using the ICR method are considered a **BATCH**. A negative and a positive filter are processed as QC samples for each batch for each week. These filters are prepared according to the instructions in the ICR for QC samples. Matrix spikes are performed weekly and matrix spike duplicates are performed monthly.
- 12.4 Over the course of a week, all of the samples processed using the 1623 method are considered a **BATCH**. A negative and a positive filter are processed as QC samples for each batch for each week. These filters are prepared according to the instructions in the 1623 manual for QC samples. Matrix spikes are performed weekly.
- 12.5 The PE samples are currently distributed by the US EPA, since NYC DEP is part of the National Performance Evaluation Program.
- 12.6 Deviation in microscopic counts between analysts is derived from duplicate counts performed by each Principle Analyst quarterly.

13 QC Summary

13.1 Documentation

QUAL1080D02.doc

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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. 1/98)

Time/Date Set: _____

Sample Type (circle one):

1. Potable 3. Non-Potable Treated

2. Non-Potable 4. Other _____

Time/Date Collected: 11/48 11-30-01Collected By: D. SCOTT Agency Code: _____**Collected From:**Location's/Individual's Name NYC DEPStreet 19 Washburn DriveCity/ST/Zip Valhalla NY 10595

Identification of Source _____

Collection Point at HallBottle #'s: 1122 1123 1124 1125 1126 1127

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. 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#: 21625

(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: Asbestos

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. IIV254

39. Aluminum

40. Antimony

41. Arsenic

42. Barium

43. Beryllium

44. Boron

45. Cadmium

46. Calcium, as CaCO₃47. Calcium, Ca²⁺

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. Risk Deliverables

TCLP

71. TCLP-Metals

72. TCLP-Pesticides

73. TCLP-Herbicides

74. TCLP-Volatiles

75. TCLP-BNA's

13.1.1 3 SOP's - ICR manifold, well-slide, Method 1623

13.1.2 1 QAP - describing all laboratory calibrations and quality control practices

13.1.3 1 QAPP - Routine Keypoint Protozoan Monitoring

13.2 QC Per sample

13.2.1 Positive and negative control slides are prepared with each sample to ensure stain performance, and comparative cyst and oocyst appearance. Results are pass/fail.

13.3 Weekly or Biweekly QC (equivalent to "Batch" QC)

13.3.1 Positive and negative spikes are added to carboys of DI water, filtered and taken through the entire ICR analytical procedure to ensure the negative spike remains negative and the positive spike results in recovery. Results are recorded as percent recovery.

13.3.2 Positive and negative spikes are added to carboys of DI water, filtered and taken through the entire Method 1623 analytical procedure to ensure the negative spike remains negative and the positive spike results in recovery. Results are recorded as percent recovery.

13.4 Monthly or Bimonthly QC

13.4.1 Precision of microscopic counts is performed between principle analysts for both cysts and oocysts by replicate counting of the same slides of unknown concentration.

13.5 Quarterly QC

13.5.1 The DEP is registered to electively participate in the EPA PE program for the ICR manifold method and for Method 1623. Samples are delivered quarterly for ongoing precision and recovery.

13.6 Method Specific QA/QC

13.6.1 Since all methods have different specific QA/QC this information can be found in the respective SOP's.

14 Data Reduction, Verification, Validation, and Reporting

14.1 Calculations are determined according to the formula used in the April 1996 ICR on page VII-28 to VII-30.

14.2 No calculations are necessary for samples processed using the 1623 method. Direct counts are recorded.

14.3 Before data is reported it is checked by the principal analyst and compared to the laboratory notebook.

14.4 The results are validated by correctly processing the QC samples and the weekly batch samples and as well as passing internal Q.C. inspection by lab director and Q.C. inspector.



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. 1/01)

Time/Date Set: _____

Sample Type (circle one):① Potable 3. Non-Potable *Treated*

2. Non-Potable 4. Other _____

Time/Date Collected: 11 30 01

Collected By: _____ Agency Code: _____

Collected From:Location's/Individual's Name NYC DEPStreet 19 USHAKA DRIVECity/St/Zip Valhalla NY 10595

Identification of Source _____

Collection Point RO GFIDEF 35010-347, 0-344Bottle #s: 2-6485, 4-6335, 4-7037, 4-7067

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. P
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 2. Volatile Halocarbons (524)
- ③ 3. Volatile Aromatics (524)
4. Total Trihalomethane Potential (510)
5. Microextractables (504)
6. Pesticides (507)
- ⑦ 7. Pesticides/PCB screen (508)
8. PCB as Decachlorobiphenyl (508A)
9. Herbicides (515)
- ⑩ 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 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#: 26624

(circle tests)

- | | | |
|---------------------------------|--|-----------------------------------|
| 1. Color | 20. Acidity | 39. Aluminum |
| 2. Turbidity | 21. Alkalinity, as CaCO ₃ | ④ 40. Antimony |
| 3. pH | 22. Bromide | 41. Arsenic |
| 4. Conductivity | 23. Bromate/Chlorate/Chlorite | 42. Barium |
| 5. Corrosivity (temp: _____ °C) | 24. Chloride | ④ 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 | ④ 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 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 |
| ⑬ 18. Solids, Total Volatile | 37. Surfactants | 56. Mercury |
| 19. Other: <u>SAF</u> | 38. UV254 | ⑤ 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

- 14.5 The results will be entered onto SAS data sheets by the Pathogen Lab, double-checked and submitted by Friday of each week to the Admin staff responsible for entering the data. The computer copy is sent back to the Pathogen Lab. The computer sheet is again double checked and returned to the admin staff for any necessary corrections. After any corrections, the computer sheet is filed with the Pathogen Lab.

15 Corrective Action Contingencies

- 15.1 If any part of the Quality Control procedure is found to be unacceptable, results are not reported. Instead "QCU" is placed in the data location indicating "Quality Control is Unacceptable," and a chart or graph showing the results of concern is attached.
- 15.2 The lab director and the principal analyst are to take corrective action.

16 Record Keeping

- 16.1 Records are kept on all samples, procedures, observations, calculations and data analysis. When a sample comes in, it is recorded in a Sample logbook. The sample paperwork is signed and placed the History Sheet binder. The notes on the procedures are kept in the technicians or analyst's lab notebook. Observations and calculations are kept in the lab's sample analysis notebook.
- 16.2 For samples processed by the 1623 method, an additional bench sheet is kept to record individual steps during processing.
- 16.3 Records are kept in the laboratory for a minimum of 5 years. After 5 years, records can be moved to another DEP location for a minimum of another 5 year term.
- 16.4 Data analysis records (spread sheets, graphs, etc.) are stored on a computer disk with a backup and are also stored in hard copy form. All of the lab books and binders are kept in a file cabinet drawer and on a bookshelf.