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[redacted]

GeoTrans, inc.
GROUNDWATER SPECIALISTS

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GROUNDWATER MONITORING PLAN

WINNEBAGO RECLAMATION LANDFILL
ROCKFORD, ILLINOIS

VOLUME II — APPENDICES

Prepared for:

Winnebago Reclamation Services, Inc.
Rockford, Illinois

July 1995

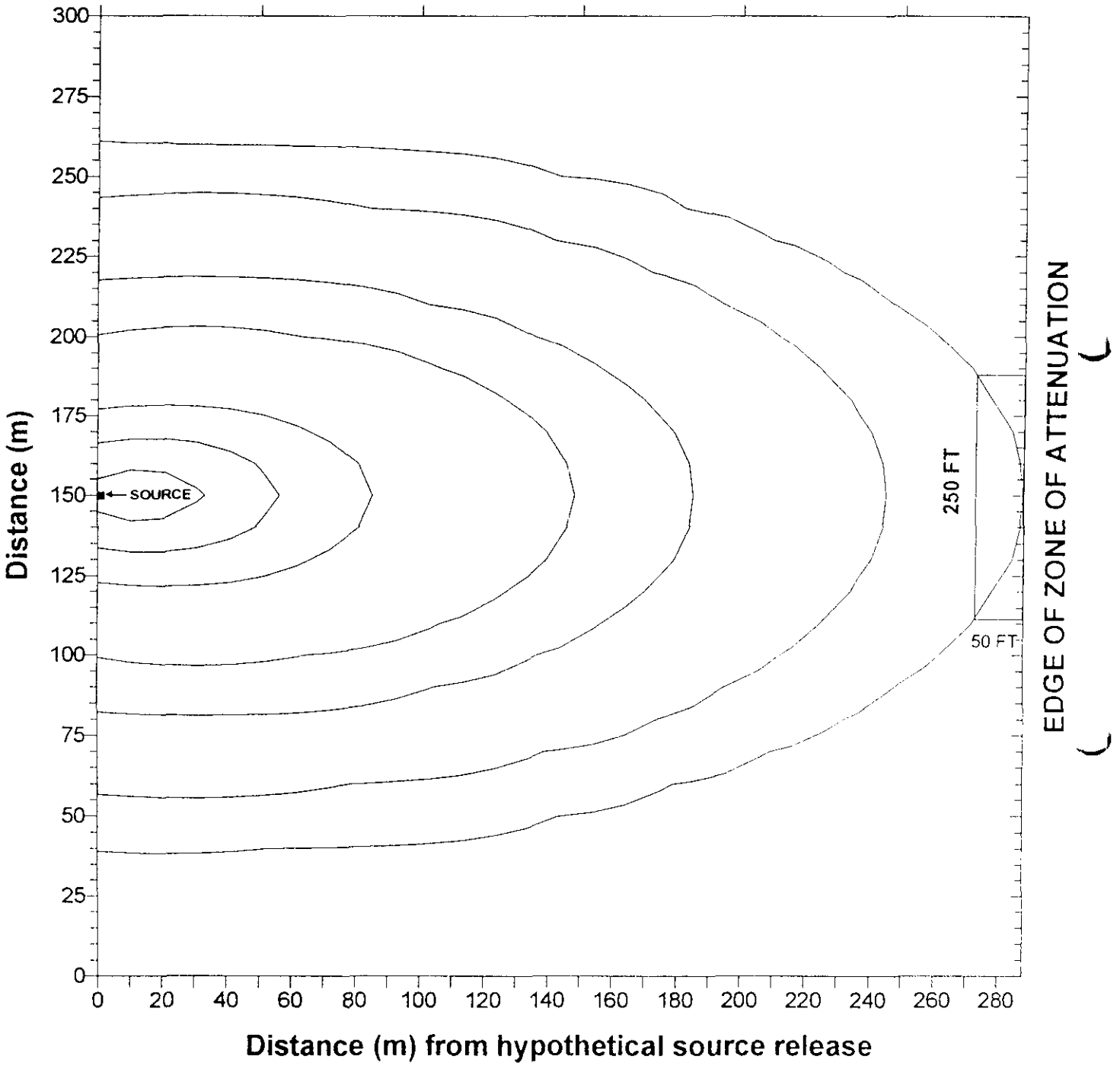
APPENDICES

APPENDIX A

APPENDIX A

Modeling Output
from Well Spacing Determination

Figure B-1 Well Spacing Simulation, Hypothetical concentrations



Model Run: Space-4.INP Plot File: WELLSP-4.SRF

```
SPACE-4 Well spacing based on hypothetical tear w/ instantaneous source 6/18/95
   30   31    1 1000    1    6    1    1    0    1    2    0    1    1
     10.67    1000.0       0.0       1.0     149.5     150.5       0.0     10.67
      0.30     19.05     0.005     32.92      6.58      6.58       0.0       0.0
       0.0       0.0 1.855E+03  1.0E+03   0.00001      24.0     480.0     100.0
       0.0      10.0      20.0      30.0      40.0      50.0      60.0      70.0
      80.0      90.0     100.0     110.0     120.0     130.0     140.0     150.0
     160.0     170.0     180.0     190.0     200.0     210.0     220.0     230.0
     240.0     250.0     260.0     270.0     280.0     288.0
       0.0      10.0      20.0      30.0      40.0      50.0      60.0      70.0
      80.0      90.0     100.0     110.0     120.0     130.0     140.0     150.0
     160.0     170.0     180.0     190.0     200.0     210.0     220.0     230.0
     240.0     250.0     260.0     270.0     280.0     290.0     300.0
       1.0
```

```
1


     SPACE-4 Well spacing based on hypothetical tear w/ instantaneous source 6/18
/95


     NO. OF POINTS IN X-DIRECTION ......................   30
     NO. OF POINTS IN Y-DIRECTION ......................   31
     NO. OF POINTS IN Z-DIRECTION ......................    1
     NO. OF ROOTS: NO. OF SERIES TERMS .................  1000
     NO. OF BEGINNING TIME STEPS .......................    1
     NO. OF ENDING TIME STEP ...........................    6
     NO. OF TIME INTERVALS FOR PRINTED OUT SOLUTION ....    1
     INSTANTANEOUS SOURCE CONTROL = 0 FOR INSTANT SOURCE    1
     SOURCE CONDITION CONTROL = 0 FOR STEADY SOURCE ....    0
     INTERMITTENT OUTPUT CONTROL = 0 NO SUCH OUTPUT ....    1
     CASE CONTROL =1 THERMAL, = 2 FOR CHEMICAL, = 3 RAD     2


     AQUIFER DEPTH, = 0.0 FOR INFINITE DEEP (METERS) ...  0.1067E+02
     AQUIFER WIDTH, = 0.0 FOR INFINITE WIDE (METERS) ...  0.0000E+00
     BEGIN POINT OF X-SOURCE LOCATION (METERS) .........  0.0000E+00
     END POINT OF X-SOURCE LOCATION (METERS) ...........  0.1000E+01
     BEGIN POINT OF Y-SOURCE LOCATION (METERS) .........  0.1495E+03
     END POINT OF Y-SOURCE LOCATION (METERS) ...........  0.1505E+03
     BEGIN POINT OF Z-SOURCE LOCATION (METERS) .........  0.0000E+00
     END POINT OF Z-SOURCE LOCATION (METERS) ...........  0.1067E+02


     POROSITY ..........................................  0.3000E+00
     HYDRAULIC CONDUCTIVITY (METER/HOUR) ...............  0.1905E+02
     HYDRAULIC GRADIENT ................................  0.5000E-02
     LONGITIDUNAL DESPERSIVITY (METER) .................  0.3292E+02
     LATERAL DISPERSIVITY (METER) ......................  0.6580E+01
     VERTICAL DISPERSIVITY (METER) .....................  0.6580E+01
     DISTRIBUTION COEFFICIENT, KD (M**3/KG) ............  0.0000E+00
     HEAT EXCHANGE COEFFICIENT (KCAL/HR-M**2-DEGREE C)..  0.0000E+00


     MOLECULAR DIFFUSION MULTIPLY BY TOROSITY (M**2/HR)   0.0000E+00
     DECAY CONSTANT (PER HOUR) .........................  0.0000E+00
     BULK DENSITY OF THE SOIL (KG/M**3) ................  0.1855E+04
     ACCURACY TOLERANCE FOR REACHING STEADY STATE ......  0.1000E-04
     DENSITY OF WATER (KG/M**3) ........................  0.1000E+04
     TIME INTERVAL SIZE FOR THE DESIRED SOLUTION (HR) ..  0.2400E+02
     DISCHARGE TIME (HR) ...............................  0.4800E+03
     WASTE RELEASE RATE (KCAL/HR), (KG/HR), OR (CI/HR) .  0.1000E+03

0
     RETARDATION FACTOR ................................  0.1000E+01
     RETARDED DARCY VELOCITY (M/HR) ....................  0.3175E+00
     RETARDED LONGITUDINAL DISPERSION COEF. (M**2/HR) ..  0.1045E+02
     RETARDED LATERAL DIEPSERSION COEFFICIENT (M**2/HR)   0.2089E+01
     RETARDED VERTICAL DISPERSION COEFFICIENT (M**2/HR).  0.2089E+01

1    LIST OF Z-EIGENVALUES
       0.2944E+00  0.5889E+00  0.8833E+00  0.1178E+01  0.1472E+01  0.1767E+01  0.
2061E+01  0.2355E+01  0.2650E+01  0.2944E+01
       0.3239E+01  0.3533E+01  0.3828E+01  0.4122E+01  0.4416E+01  0.4711E+01  0.
5005E+01  0.5300E+01  0.5594E+01  0.5889E+01
       0.6183E+01  0.6478E+01  0.6772E+01  0.7066E+01  0.7361E+01  0.7655E+01  0.
7950E+01  0.8244E+01  0.8539E+01  0.8833E+01
       0.9127E+01  0.9422E+01  0.9716E+01  0.1001E+02  0.1031E+02  0.1060E+02  0.
```



```
1089E+02  0.1119E+02  0.1148E+02  0.1178E+02
       0.1207E+02  0.1237E+02  0.1266E+02  0.1296E+02  0.1325E+02  0.1354E+02  0.
1384E+02  0.1413E+02  0.1443E+02  0.1472E+02
       0.1502E+02  0.1531E+02  0.1560E+02  0.1590E+02  0.1619E+02  0.1649E+02  0.
1678E+02  0.1708E+02  0.1737E+02  0.1767E+02
       0.1796E+02  0.1825E+02  0.1855E+02  0.1884E+02  0.1914E+02  0.1943E+02  0.
1973E+02  0.2002E+02  0.2032E+02  0.2061E+02
       0.2090E+02  0.2120E+02  0.2149E+02  0.2179E+02  0.2208E+02  0.2238E+02  0.
2267E+02  0.2297E+02  0.2326E+02  0.2355E+02
       0.2385E+02  0.2414E+02  0.2444E+02  0.2473E+02  0.2503E+02  0.2532E+02  0.
2562E+02  0.2591E+02  0.2620E+02  0.2650E+02
       0.2679E+02  0.2709E+02  0.2738E+02  0.2768E+02  0.2797E+02  0.2827E+02  0.
2856E+02  0.2885E+02  0.2915E+02  0.2944E+02
       0.2974E+02  0.3003E+02  0.3033E+02  0.3062E+02  0.3092E+02  0.3121E+02  0.
3150E+02  0.3180E+02  0.3209E+02  0.3239E+02
       0.3268E+02  0.3298E+02  0.3327E+02  0.3357E+02  0.3386E+02  0.3415E+02  0.
3445E+02  0.3474E+02  0.3504E+02  0.3533E+02
       0.3563E+02  0.3592E+02  0.3622E+02  0.3651E+02  0.3680E+02  0.3710E+02  0.
3739E+02  0.3769E+02  0.3798E+02  0.3828E+02
       0.3857E+02  0.3887E+02  0.3916E+02  0.3945E+02  0.3975E+02  0.4004E+02  0.
4034E+02  0.4063E+02  0.4093E+02  0.4122E+02
       0.4151E+02  0.4181E+02  0.4210E+02  0.4240E+02  0.4269E+02  0.4299E+02  0.
4328E+02  0.4358E+02  0.4387E+02  0.4416E+02
       0.4446E+02  0.4475E+02  0.4505E+02  0.4534E+02  0.4564E+02  0.4593E+02  0.
4623E+02  0.4652E+02  0.4681E+02  0.4711E+02
       0.4740E+02  0.4770E+02  0.4799E+02  0.4829E+02  0.4858E+02  0.4888E+02  0.
4917E+02  0.4946E+02  0.4976E+02  0.5005E+02
       0.5035E+02  0.5064E+02  0.5094E+02  0.5123E+02  0.5153E+02  0.5182E+02  0.
5211E+02  0.5241E+02  0.5270E+02  0.5300E+02
       0.5329E+02  0.5359E+02  0.5388E+02  0.5418E+02  0.5447E+02  0.5476E+02  0.
5506E+02  0.5535E+02  0.5565E+02  0.5594E+02
       0.5624E+02  0.5653E+02  0.5683E+02  0.5712E+02  0.5741E+02  0.5771E+02  0.
5800E+02  0.5830E+02  0.5859E+02  0.5889E+02
       0.5918E+02  0.5948E+02  0.5977E+02  0.6006E+02  0.6036E+02  0.6065E+02  0.
6095E+02  0.6124E+02  0.6154E+02  0.6183E+02
       0.6213E+02  0.6242E+02  0.6271E+02  0.6301E+02  0.6330E+02  0.6360E+02  0.
6389E+02  0.6419E+02  0.6448E+02  0.6478E+02
       0.6507E+02  0.6536E+02  0.6566E+02  0.6595E+02  0.6625E+02  0.6654E+02  0.
6684E+02  0.6713E+02  0.6742E+02  0.6772E+02
       0.6801E+02  0.6831E+02  0.6860E+02  0.6890E+02  0.6919E+02  0.6949E+02  0.
6978E+02  0.7007E+02  0.7037E+02  0.7066E+02
       0.7096E+02  0.7125E+02  0.7155E+02  0.7184E+02  0.7214E+02  0.7243E+02  0.
7272E+02  0.7302E+02  0.7331E+02  0.7361E+02
       0.7390E+02  0.7420E+02  0.7449E+02  0.7479E+02  0.7508E+02  0.7537E+02  0.
7567E+02  0.7596E+02  0.7626E+02  0.7655E+02
       0.7685E+02  0.7714E+02  0.7744E+02  0.7773E+02  0.7802E+02  0.7832E+02  0.
7861E+02  0.7891E+02  0.7920E+02  0.7950E+02
       0.7979E+02  0.8009E+02  0.8038E+02  0.8067E+02  0.8097E+02  0.8126E+02  0.
8156E+02  0.8185E+02  0.8215E+02  0.8244E+02
       0.8274E+02  0.8303E+02  0.8332E+02  0.8362E+02  0.8391E+02  0.8421E+02  0.
8450E+02  0.8480E+02  0.8509E+02  0.8539E+02
       0.8568E+02  0.8597E+02  0.8627E+02  0.8656E+02  0.8686E+02  0.8715E+02  0.
8745E+02  0.8774E+02  0.8804E+02  0.8833E+02
       0.8862E+02  0.8892E+02  0.8921E+02  0.8951E+02  0.8980E+02  0.9010E+02  0.
9039E+02  0.9069E+02  0.9098E+02  0.9127E+02
       0.9157E+02  0.9186E+02  0.9216E+02  0.9245E+02  0.9275E+02  0.9304E+02  0.
9334E+02  0.9363E+02  0.9392E+02  0.9422E+02
       0.9451E+02  0.9481E+02  0.9510E+02  0.9540E+02  0.9569E+02  0.9598E+02  0.
9628E+02  0.9657E+02  0.9687E+02  0.9716E+02
       0.9746E+02  0.9775E+02  0.9805E+02  0.9834E+02  0.9863E+02  0.9893E+02  0.
9922E+02  0.9952E+02  0.9981E+02  0.1001E+03
       0.1004E+03  0.1007E+03  0.1010E+03  0.1013E+03  0.1016E+03  0.1019E+03  0.
1022E+03  0.1025E+03  0.1028E+03  0.1031E+03
       0.1033E+03  0.1036E+03  0.1039E+03  0.1042E+03  0.1045E+03  0.1048E+03  0.
1051E+03  0.1054E+03  0.1057E+03  0.1060E+03
       0.1063E+03  0.1066E+03  0.1069E+03  0.1072E+03  0.1075E+03  0.1078E+03  0.
```

```
1081E+03  0.1084E+03  0.1086E+03  0.1089E+03
        0.1092E+03  0.1095E+03  0.1098E+03  0.1101E+03  0.1104E+03  0.1107E+03  0.
1110E+03  0.1113E+03  0.1116E+03  0.1119E+03
        0.1122E+03  0.1125E+03  0.1128E+03  0.1131E+03  0.1134E+03  0.1137E+03  0.
1139E+03  0.1142E+03  0.1145E+03  0.1148E+03
        0.1151E+03  0.1154E+03  0.1157E+03  0.1160E+03  0.1163E+03  0.1166E+03  0.
1169E+03  0.1172E+03  0.1175E+03  0.1178E+03
        0.1181E+03  0.1184E+03  0.1187E+03  0.1190E+03  0.1192E+03  0.1195E+03  0.
1198E+03  0.1201E+03  0.1204E+03  0.1207E+03
        0.1210E+03  0.1213E+03  0.1216E+03  0.1219E+03  0.1222E+03  0.1225E+03  0.
1228E+03  0.1231E+03  0.1234E+03  0.1237E+03
        0.1240E+03  0.1243E+03  0.1245E+03  0.1248E+03  0.1251E+03  0.1254E+03  0.
1257E+03  0.1260E+03  0.1263E+03  0.1266E+03
        0.1269E+03  0.1272E+03  0.1275E+03  0.1278E+03  0.1281E+03  0.1284E+03  0.
1287E+03  0.1290E+03  0.1293E+03  0.1296E+03
        0.1298E+03  0.1301E+03  0.1304E+03  0.1307E+03  0.1310E+03  0.1313E+03  0.
1316E+03  0.1319E+03  0.1322E+03  0.1325E+03
        0.1328E+03  0.1331E+03  0.1334E+03  0.1337E+03  0.1340E+03  0.1343E+03  0.
1346E+03  0.1348E+03  0.1351E+03  0.1354E+03
        0.1357E+03  0.1360E+03  0.1363E+03  0.1366E+03  0.1369E+03  0.1372E+03  0.
1375E+03  0.1378E+03  0.1381E+03  0.1384E+03
        0.1387E+03  0.1390E+03  0.1393E+03  0.1396E+03  0.1399E+03  0.1401E+03  0.
1404E+03  0.1407E+03  0.1410E+03  0.1413E+03
        0.1416E+03  0.1419E+03  0.1422E+03  0.1425E+03  0.1428E+03  0.1431E+03  0.
1434E+03  0.1437E+03  0.1440E+03  0.1443E+03
        0.1446E+03  0.1449E+03  0.1452E+03  0.1454E+03  0.1457E+03  0.1460E+03  0.
1463E+03  0.1466E+03  0.1469E+03  0.1472E+03
        0.1475E+03  0.1478E+03  0.1481E+03  0.1484E+03  0.1487E+03  0.1490E+03  0.
1493E+03  0.1496E+03  0.1499E+03  0.1502E+03
        0.1505E+03  0.1507E+03  0.1510E+03  0.1513E+03  0.1516E+03  0.1519E+03  0.
1522E+03  0.1525E+03  0.1528E+03  0.1531E+03
        0.1534E+03  0.1537E+03  0.1540E+03  0.1543E+03  0.1546E+03  0.1549E+03  0.
1552E+03  0.1555E+03  0.1558E+03  0.1560E+03
        0.1563E+03  0.1566E+03  0.1569E+03  0.1572E+03  0.1575E+03  0.1578E+03  0.
1581E+03  0.1584E+03  0.1587E+03  0.1590E+03
        0.1593E+03  0.1596E+03  0.1599E+03  0.1602E+03  0.1605E+03  0.1608E+03  0.
1611E+03  0.1613E+03  0.1616E+03  0.1619E+03
        0.1622E+03  0.1625E+03  0.1628E+03  0.1631E+03  0.1634E+03  0.1637E+03  0.
1640E+03  0.1643E+03  0.1646E+03  0.1649E+03
        0.1652E+03  0.1655E+03  0.1658E+03  0.1661E+03  0.1664E+03  0.1666E+03  0.
1669E+03  0.1672E+03  0.1675E+03  0.1678E+03
        0.1681E+03  0.1684E+03  0.1687E+03  0.1690E+03  0.1693E+03  0.1696E+03  0.
1699E+03  0.1702E+03  0.1705E+03  0.1708E+03
        0.1711E+03  0.1714E+03  0.1717E+03  0.1719E+03  0.1722E+03  0.1725E+03  0.
1728E+03  0.1731E+03  0.1734E+03  0.1737E+03
        0.1740E+03  0.1743E+03  0.1746E+03  0.1749E+03  0.1752E+03  0.1755E+03  0.
1758E+03  0.1761E+03  0.1764E+03  0.1767E+03
        0.1770E+03  0.1772E+03  0.1775E+03  0.1778E+03  0.1781E+03  0.1784E+03  0.
1787E+03  0.1790E+03  0.1793E+03  0.1796E+03
        0.1799E+03  0.1802E+03  0.1805E+03  0.1808E+03  0.1811E+03  0.1814E+03  0.
1817E+03  0.1820E+03  0.1823E+03  0.1825E+03
        0.1828E+03  0.1831E+03  0.1834E+03  0.1837E+03  0.1840E+03  0.1843E+03  0.
1846E+03  0.1849E+03  0.1852E+03  0.1855E+03
        0.1858E+03  0.1861E+03  0.1864E+03  0.1867E+03  0.1870E+03  0.1873E+03  0.
1876E+03  0.1878E+03  0.1881E+03  0.1884E+03
        0.1887E+03  0.1890E+03  0.1893E+03  0.1896E+03  0.1899E+03  0.1902E+03  0.
1905E+03  0.1908E+03  0.1911E+03  0.1914E+03
        0.1917E+03  0.1920E+03  0.1923E+03  0.1926E+03  0.1929E+03  0.1931E+03  0.
1934E+03  0.1937E+03  0.1940E+03  0.1943E+03
        0.1946E+03  0.1949E+03  0.1952E+03  0.1955E+03  0.1958E+03  0.1961E+03  0.
1964E+03  0.1967E+03  0.1970E+03  0.1973E+03
        0.1976E+03  0.1979E+03  0.1982E+03  0.1984E+03  0.1987E+03  0.1990E+03  0.
1993E+03  0.1996E+03  0.1999E+03  0.2002E+03
        0.2005E+03  0.2008E+03  0.2011E+03  0.2014E+03  0.2017E+03  0.2020E+03  0.
2023E+03  0.2026E+03  0.2029E+03  0.2032E+03
        0.2035E+03  0.2037E+03  0.2040E+03  0.2043E+03  0.2046E+03  0.2049E+03  0.
```



```
2052E+03  0.2055E+03  0.2058E+03  0.2061E+03
        0.2064E+03  0.2067E+03  0.2070E+03  0.2073E+03  0.2076E+03  0.2079E+03  0.
2082E+03  0.2085E+03  0.2088E+03  0.2090E+03
        0.2093E+03  0.2096E+03  0.2099E+03  0.2102E+03  0.2105E+03  0.2108E+03  0.
2111E+03  0.2114E+03  0.2117E+03  0.2120E+03
        0.2123E+03  0.2126E+03  0.2129E+03  0.2132E+03  0.2135E+03  0.2138E+03  0.
2141E+03  0.2143E+03  0.2146E+03  0.2149E+03
        0.2152E+03  0.2155E+03  0.2158E+03  0.2161E+03  0.2164E+03  0.2167E+03  0.
2170E+03  0.2173E+03  0.2176E+03  0.2179E+03
        0.2182E+03  0.2185E+03  0.2188E+03  0.2191E+03  0.2194E+03  0.2196E+03  0.
2199E+03  0.2202E+03  0.2205E+03  0.2208E+03
        0.2211E+03  0.2214E+03  0.2217E+03  0.2220E+03  0.2223E+03  0.2226E+03  0.
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1874E+00  0.1874E+00  0.1874E+00  0.1874E+00
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1874E+00  0.1874E+00  0.1874E+00  0.1874E+00
0    LIST OF ZS-SERIES
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```



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      0.1060E-13 -0.9628E-14  0.1074E-13 -0.9772E-14  0.1087E-13 -0.9915E-14  0.
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      0.1062E-13 -0.9721E-14  0.1075E-13 -0.9854E-14  0.1087E-13 -0.9986E-14  0.
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      0.1017E-13 -0.1097E-13  0.1027E-13 -0.1107E-13  0.1037E-13 -0.1117E-13  0.
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      0.1132E-13 -0.1176E-13  0.1054E-13 -0.1098E-13  0.1142E-13 -0.1186E-13  0.
1065E-13 -0.1109E-13  0.1153E-13 -0.1197E-13
      0.1076E-13 -0.9562E-14  0.1164E-13 -0.1207E-13  0.1087E-13 -0.9676E-14  0.
1174E-13 -0.1055E-13  0.1098E-13 -0.9790E-14
      0.1185E-13 -0.1066E-13  0.1109E-13 -0.9902E-14  0.1195E-13 -0.1077E-13  0.
1120E-13 -0.1001E-13  0.1205E-13 -0.1087E-13
      0.1130E-13 -0.1012E-13  0.1216E-13 -0.1098E-13  0.1141E-13 -0.1023E-13  0.
1226E-13 -0.1109E-13  0.1151E-13 -0.1034E-13
      0.1236E-13 -0.1119E-13  0.1003E-13 -0.1045E-13  0.1246E-13 -0.1130E-13  0.
1014E-13 -0.1056E-13  0.1256E-13 -0.1140E-13
      0.1024E-13 -0.1066E-13  0.1108E-13 -0.1150E-13  0.1035E-13 -0.1077E-13  0.
1119E-13 -0.1160E-13  0.1046E-13 -0.1087E-13
      0.1129E-13 -0.1170E-13  0.1056E-13 -0.1098E-13  0.1139E-13 -0.1180E-13  0.
```

```
1067E-13 -0.9532E-14  0.1149E-13 -0.1190E-13
1    DISTRIBUTION OF CHEMICAL IN PPM AT  0.0000E+00 HRS
0                    Z =        1.00
                                                                X
   Y          0.          10.          20.          30.          40.          50.
     60.          70.          80.          90.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   80.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   90.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  100.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  110.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  120.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  130.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  140.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  150.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  160.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  170.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  180.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  190.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  200.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  210.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  220.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  230.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
```



```
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0
                                                CONTINUE
                                                                X
   Y          100.         110.         120.         130.         140.         150.
     160.         170.         180.         190.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   80.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   90.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  100.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  110.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  120.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  130.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  140.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  150.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  160.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  170.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  180.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  190.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  200.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  210.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  220.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  230.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
```

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  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                CONTINUE
                                                                    X
   Y          200.        210.        220.        230.        240.        250.
    260.        270.        280.        288.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   80.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   90.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  100.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  110.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  120.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  130.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  140.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  150.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  160.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  170.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  180.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  190.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  200.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  210.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  220.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  230.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
```



```
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
1    DISTRIBUTION OF CHEMICAL IN PPM AT  0.0000E+00 HRS
0                        Z =       1.00
                                                                    X
   Y           0.          10.         20.         30.         40.         50.
    60.         70.         80.         90.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   80.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   90.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  100.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  110.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  120.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  130.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  140.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  150.   0.375E+06   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  160.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  170.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  180.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  190.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  200.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  210.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  220.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  230.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
```

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0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                CONTINUE
                                                          X
   Y        100.        110.        120.        130.        140.        150.
    160.        170.        180.        190.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   80.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   90.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  100.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  110.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  120.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  130.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  140.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  150.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  160.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  170.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  180.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  190.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  200.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  210.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  220.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  230.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
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  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                CONTINUE
                                                          X
   Y        200.        210.        220.        230.        240.        250.
    260.        270.        280.        288.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   80.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   90.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  100.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  110.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  120.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  130.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  140.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  150.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  160.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  170.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  180.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  190.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  200.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  210.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  220.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  230.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
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0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
1    DISTRIBUTION OF CHEMICAL IN PPM AT  0.2400E+02 HRS
0                    Z =       1.00
                                                                    X
   Y          0.          10.          20.          30.          40.          50.
     60.          70.          80.          90.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.382E-11   0.406E-11   0.354E-11   0.253E-11   0.148E-11   0.710E-12
0.279E-12   0.898E-13   0.237E-13   0.512E-14
   80.   0.626E-08   0.667E-08   0.581E-08   0.415E-08   0.243E-08   0.117E-08
0.458E-09   0.147E-09   0.389E-10   0.840E-11
   90.   0.406E-05   0.432E-05   0.377E-05   0.269E-05   0.157E-05   0.755E-06
0.297E-06   0.955E-07   0.252E-07   0.544E-08
  100.   0.972E-03   0.103E-02   0.902E-03   0.644E-03   0.377E-03   0.181E-03
0.710E-04   0.229E-04   0.603E-05   0.130E-05
  110.   0.860E-01   0.915E-01   0.798E-01   0.570E-01   0.334E-01   0.160E-01
0.628E-02   0.202E-02   0.533E-03   0.115E-03
  120.   0.281E+01   0.299E+01   0.261E+01   0.186E+01   0.109E+01   0.523E+00
0.205E+00   0.661E-01   0.174E-01   0.377E-02
  130.   0.339E+02   0.361E+02   0.315E+02   0.225E+02   0.132E+02   0.631E+01
0.248E+01   0.798E+00   0.211E+00   0.455E-01
  140.   0.151E+03   0.161E+03   0.140E+03   0.100E+03   0.587E+02   0.281E+02
0.111E+02   0.356E+01   0.938E+00   0.203E+00
  150.   0.249E+03   0.265E+03   0.231E+03   0.165E+03   0.966E+02   0.463E+02
0.182E+02   0.586E+01   0.154E+01   0.334E+00
  160.   0.151E+03   0.161E+03   0.140E+03   0.100E+03   0.587E+02   0.281E+02
0.111E+02   0.356E+01   0.938E+00   0.203E+00
  170.   0.339E+02   0.361E+02   0.315E+02   0.225E+02   0.132E+02   0.631E+01
0.248E+01   0.798E+00   0.211E+00   0.455E-01
  180.   0.281E+01   0.299E+01   0.261E+01   0.186E+01   0.109E+01   0.523E+00
0.205E+00   0.661E-01   0.174E-01   0.377E-02
  190.   0.860E-01   0.915E-01   0.798E-01   0.570E-01   0.334E-01   0.160E-01
0.628E-02   0.202E-02   0.533E-03   0.115E-03
  200.   0.972E-03   0.103E-02   0.902E-03   0.644E-03   0.377E-03   0.181E-03
0.710E-04   0.229E-04   0.603E-05   0.130E-05
  210.   0.406E-05   0.432E-05   0.377E-05   0.269E-05   0.157E-05   0.755E-06
0.297E-06   0.955E-07   0.252E-07   0.544E-08
  220.   0.626E-08   0.667E-08   0.581E-08   0.415E-08   0.243E-08   0.117E-08
0.458E-09   0.147E-09   0.389E-10   0.840E-11
  230.   0.382E-11   0.406E-11   0.354E-11   0.253E-11   0.148E-11   0.710E-12
0.279E-12   0.898E-13   0.237E-13   0.512E-14
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
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0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                    CONTINUE
                                                                    X
   Y        100.        110.        120.        130.        140.        150.
     160.        170.        180.        190.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.906E-15   0.131E-15   0.156E-16   0.152E-17   0.122E-18   0.796E-20
0.427E-21   0.187E-22   0.673E-24   0.127E-25
   80.   0.149E-11   0.216E-12   0.257E-13   0.250E-14   0.200E-15   0.131E-16
0.700E-18   0.308E-19   0.111E-20   0.209E-22
   90.   0.964E-09   0.140E-09   0.166E-10   0.162E-11   0.129E-12   0.846E-14
0.454E-15   0.199E-16   0.716E-18   0.135E-19
  100.   0.231E-06   0.335E-07   0.398E-08   0.388E-09   0.310E-10   0.203E-11
0.109E-12   0.477E-14   0.171E-15   0.323E-17
  110.   0.204E-04   0.296E-05   0.352E-06   0.343E-07   0.274E-08   0.179E-09
0.961E-11   0.422E-12   0.152E-13   0.286E-15
  120.   0.667E-03   0.968E-04   0.115E-04   0.112E-05   0.896E-07   0.586E-08
0.314E-09   0.138E-10   0.496E-12   0.936E-14
  130.   0.806E-02   0.117E-02   0.139E-03   0.135E-04   0.108E-05   0.708E-07
0.379E-08   0.167E-09   0.599E-11   0.113E-12
  140.   0.359E-01   0.521E-02   0.620E-03   0.604E-04   0.482E-05   0.315E-06
0.169E-07   0.743E-09   0.267E-10   0.504E-12
  150.   0.591E-01   0.858E-02   0.102E-02   0.993E-04   0.793E-05   0.519E-06
0.278E-07   0.122E-08   0.439E-10   0.829E-12
  160.   0.359E-01   0.521E-02   0.620E-03   0.604E-04   0.482E-05   0.315E-06
0.169E-07   0.743E-09   0.267E-10   0.504E-12
  170.   0.806E-02   0.117E-02   0.139E-03   0.135E-04   0.108E-05   0.708E-07
0.379E-08   0.167E-09   0.599E-11   0.113E-12
  180.   0.667E-03   0.968E-04   0.115E-04   0.112E-05   0.896E-07   0.586E-08
0.314E-09   0.138E-10   0.496E-12   0.936E-14
  190.   0.204E-04   0.296E-05   0.352E-06   0.343E-07   0.274E-08   0.179E-09
0.961E-11   0.422E-12   0.152E-13   0.286E-15
  200.   0.231E-06   0.335E-07   0.398E-08   0.388E-09   0.310E-10   0.203E-11
0.109E-12   0.477E-14   0.171E-15   0.323E-17
  210.   0.964E-09   0.140E-09   0.166E-10   0.162E-11   0.129E-12   0.846E-14
0.454E-15   0.199E-16   0.716E-18   0.135E-19
  220.   0.149E-11   0.216E-12   0.257E-13   0.250E-14   0.200E-15   0.131E-16
0.700E-18   0.308E-19   0.111E-20   0.209E-22
  230.   0.906E-15   0.131E-15   0.156E-16   0.152E-17   0.122E-18   0.796E-20
0.427E-21   0.187E-22   0.673E-24   0.127E-25
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
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  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                CONTINUE
                                                          X
   Y          200.        210.        220.        230.        240.        250.
    260.        270.        280.        288.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   50.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   60.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   70.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   80.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   90.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  100.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  110.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  120.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  130.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  140.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  150.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  160.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  170.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  180.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  190.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  200.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  210.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  220.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  230.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  240.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
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0.000E+00   0.000E+00   0.000E+00   0.000E+00
  250.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  260.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
1    DISTRIBUTION OF CHEMICAL IN PPM AT  0.4800E+02 HRS
0                    Z =        1.00
                                                          X
   Y            0.          10.         20.         30.         40.         50.
    60.         70.         80.         90.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.633E-11   0.705E-11   0.710E-11   0.647E-11   0.534E-11   0.399E-11
0.270E-11   0.165E-11   0.915E-12   0.459E-12
   50.   0.119E-08   0.132E-08   0.133E-08   0.121E-08   0.100E-08   0.748E-09
0.506E-09   0.309E-09   0.171E-09   0.860E-10
   60.   0.135E-06   0.150E-06   0.151E-06   0.138E-06   0.114E-06   0.849E-07
0.574E-07   0.352E-07   0.195E-07   0.977E-08
   70.   0.930E-05   0.104E-04   0.104E-04   0.951E-05   0.785E-05   0.586E-05
0.397E-05   0.243E-05   0.134E-05   0.674E-06
   80.   0.390E-03   0.434E-03   0.438E-03   0.399E-03   0.329E-03   0.246E-03
0.166E-03   0.102E-03   0.564E-04   0.283E-04
   90.   0.997E-02   0.111E-01   0.112E-01   0.102E-01   0.841E-02   0.628E-02
0.425E-02   0.260E-02   0.144E-02   0.722E-03
  100.   0.157E+00   0.175E+00   0.175E+00   0.159E+00   0.131E+00   0.978E-01
0.660E-01   0.403E-01   0.223E-01   0.112E-01
  110.   0.168E+01   0.186E+01   0.184E+01   0.164E+01   0.132E+01   0.959E+00
0.636E+00   0.385E+00   0.212E+00   0.106E+00
  120.   0.158E+02   0.172E+02   0.163E+02   0.135E+02   0.993E+01   0.664E+01
0.409E+01   0.235E+01   0.125E+01   0.613E+00
  130.   0.119E+03   0.128E+03   0.116E+03   0.895E+02   0.595E+02   0.351E+02
0.189E+02   0.967E+01   0.474E+01   0.222E+01
  140.   0.464E+03   0.497E+03   0.443E+03   0.330E+03   0.208E+03   0.114E+03
0.555E+02   0.254E+02   0.113E+02   0.497E+01
  150.   0.742E+03   0.794E+03   0.704E+03   0.520E+03   0.324E+03   0.173E+03
0.819E+02   0.361E+02   0.154E+02   0.657E+01
  160.   0.464E+03   0.497E+03   0.443E+03   0.330E+03   0.208E+03   0.114E+03
0.555E+02   0.254E+02   0.113E+02   0.497E+01
  170.   0.119E+03   0.128E+03   0.116E+03   0.895E+02   0.595E+02   0.351E+02
0.189E+02   0.967E+01   0.474E+01   0.222E+01
  180.   0.158E+02   0.172E+02   0.163E+02   0.135E+02   0.993E+01   0.664E+01
0.409E+01   0.235E+01   0.125E+01   0.613E+00
  190.   0.168E+01   0.186E+01   0.184E+01   0.164E+01   0.132E+01   0.959E+00
0.636E+00   0.385E+00   0.212E+00   0.106E+00
  200.   0.157E+00   0.175E+00   0.175E+00   0.159E+00   0.131E+00   0.978E-01
0.660E-01   0.403E-01   0.223E-01   0.112E-01
  210.   0.997E-02   0.111E-01   0.112E-01   0.102E-01   0.841E-02   0.628E-02
0.425E-02   0.260E-02   0.144E-02   0.722E-03
  220.   0.390E-03   0.434E-03   0.438E-03   0.399E-03   0.329E-03   0.246E-03
0.166E-03   0.102E-03   0.564E-04   0.283E-04
  230.   0.930E-05   0.104E-04   0.104E-04   0.951E-05   0.785E-05   0.586E-05
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0.397E-05   0.243E-05   0.134E-05   0.674E-06
  240.   0.135E-06   0.150E-06   0.151E-06   0.138E-06   0.114E-06   0.849E-07
0.574E-07   0.352E-07   0.195E-07   0.977E-08
  250.   0.119E-08   0.132E-08   0.133E-08   0.121E-08   0.100E-08   0.748E-09
0.506E-09   0.309E-09   0.171E-09   0.860E-10
  260.   0.633E-11   0.705E-11   0.710E-11   0.647E-11   0.534E-11   0.399E-11
0.270E-11   0.165E-11   0.915E-12   0.459E-12
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                CONTINUE
                                                       X
   Y          100.        110.        120.        130.        140.        150.
    160.        170.        180.        190.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.208E-12   0.856E-13   0.318E-13   0.107E-13   0.327E-14   0.901E-15
0.225E-15   0.508E-16   0.104E-16   0.193E-17
   50.   0.390E-10   0.160E-10   0.596E-11   0.201E-11   0.612E-12   0.169E-12
0.421E-13   0.952E-14   0.195E-14   0.361E-15
   60.   0.443E-08   0.182E-08   0.677E-09   0.228E-09   0.695E-10   0.192E-10
0.479E-11   0.108E-11   0.221E-12   0.410E-13
   70.   0.306E-06   0.126E-06   0.468E-07   0.157E-07   0.480E-08   0.132E-08
0.331E-09   0.747E-10   0.153E-10   0.283E-11
   80.   0.128E-04   0.528E-05   0.196E-05   0.661E-06   0.201E-06   0.555E-07
0.139E-07   0.314E-08   0.641E-09   0.119E-09
   90.   0.328E-03   0.135E-03   0.501E-04   0.169E-04   0.514E-05   0.142E-05
0.354E-06   0.800E-07   0.164E-07   0.303E-08
  100.   0.508E-02   0.209E-02   0.776E-03   0.261E-03   0.796E-04   0.220E-04
0.548E-05   0.124E-05   0.254E-06   0.470E-07
  110.   0.479E-01   0.197E-01   0.731E-02   0.246E-02   0.750E-03   0.207E-03
0.516E-04   0.117E-04   0.239E-05   0.442E-06
  120.   0.275E+00   0.113E+00   0.419E-01   0.141E-01   0.429E-02   0.118E-02
0.296E-03   0.668E-04   0.137E-04   0.253E-05
  130.   0.973E+00   0.394E+00   0.146E+00   0.490E-01   0.149E-01   0.411E-02
0.103E-02   0.232E-03   0.475E-04   0.880E-05
  140.   0.211E+01   0.840E+00   0.309E+00   0.104E+00   0.315E-01   0.869E-02
0.217E-02   0.490E-03   0.100E-03   0.186E-04
  150.   0.274E+01   0.108E+01   0.397E+00   0.133E+00   0.404E-01   0.111E-01
0.278E-02   0.629E-03   0.129E-03   0.238E-04
  160.   0.211E+01   0.840E+00   0.309E+00   0.104E+00   0.315E-01   0.869E-02
0.217E-02   0.490E-03   0.100E-03   0.186E-04
  170.   0.973E+00   0.394E+00   0.146E+00   0.490E-01   0.149E-01   0.411E-02
0.103E-02   0.232E-03   0.475E-04   0.880E-05
  180.   0.275E+00   0.113E+00   0.419E-01   0.141E-01   0.429E-02   0.118E-02
0.296E-03   0.668E-04   0.137E-04   0.253E-05
  190.   0.479E-01   0.197E-01   0.731E-02   0.246E-02   0.750E-03   0.207E-03
0.516E-04   0.117E-04   0.239E-05   0.442E-06
  200.   0.508E-02   0.209E-02   0.776E-03   0.261E-03   0.796E-04   0.220E-04
0.548E-05   0.124E-05   0.254E-06   0.470E-07
  210.   0.328E-03   0.135E-03   0.501E-04   0.169E-04   0.514E-05   0.142E-05
0.354E-06   0.800E-07   0.164E-07   0.303E-08
  220.   0.128E-04   0.528E-05   0.196E-05   0.661E-06   0.201E-06   0.555E-07
0.139E-07   0.314E-08   0.641E-09   0.119E-09
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  230.   0.306E-06   0.126E-06   0.468E-07   0.157E-07   0.480E-08   0.132E-08
0.331E-09   0.747E-10   0.153E-10   0.283E-11
  240.   0.443E-08   0.182E-08   0.677E-09   0.228E-09   0.695E-10   0.192E-10
0.479E-11   0.108E-11   0.221E-12   0.410E-13
  250.   0.390E-10   0.160E-10   0.596E-11   0.201E-11   0.612E-12   0.169E-12
0.421E-13   0.952E-14   0.195E-14   0.361E-15
  260.   0.208E-12   0.856E-13   0.318E-13   0.107E-13   0.327E-14   0.901E-15
0.225E-15   0.508E-16   0.104E-16   0.193E-17
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                CONTINUE
                                                       X
   Y          200.        210.        220.        230.        240.        250.
    260.        270.        280.        288.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   20.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   30.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   40.   0.323E-18   0.490E-19   0.674E-20   0.838E-21   0.944E-22   0.960E-23
0.884E-24   0.632E-25   0.000E+00   0.000E+00
   50.   0.605E-16   0.919E-17   0.126E-17   0.157E-18   0.177E-19   0.180E-20
0.166E-21   0.118E-22   0.000E+00   0.000E+00
   60.   0.688E-14   0.104E-14   0.143E-15   0.178E-16   0.201E-17   0.204E-18
0.188E-19   0.134E-20   0.000E+00   0.000E+00
   70.   0.475E-12   0.721E-13   0.990E-14   0.123E-14   0.139E-15   0.141E-16
0.130E-17   0.928E-19   0.000E+00   0.000E+00
   80.   0.199E-10   0.302E-11   0.416E-12   0.517E-13   0.582E-14   0.592E-15
0.545E-16   0.389E-17   0.000E+00   0.000E+00
   90.   0.508E-09   0.771E-10   0.106E-10   0.132E-11   0.148E-12   0.151E-13
0.139E-14   0.993E-16   0.000E+00   0.000E+00
  100.   0.788E-08   0.120E-08   0.164E-09   0.204E-10   0.230E-11   0.234E-12
0.215E-13   0.154E-14   0.000E+00   0.000E+00
  110.   0.742E-07   0.113E-07   0.155E-08   0.192E-09   0.217E-10   0.220E-11
0.203E-12   0.145E-13   0.000E+00   0.000E+00
  120.   0.425E-06   0.644E-07   0.885E-08   0.110E-08   0.124E-09   0.126E-10
0.116E-11   0.830E-13   0.000E+00   0.000E+00
  130.   0.148E-05   0.224E-06   0.308E-07   0.383E-08   0.431E-09   0.438E-10
0.404E-11   0.288E-12   0.000E+00   0.000E+00
  140.   0.312E-05   0.473E-06   0.650E-07   0.808E-08   0.910E-09   0.926E-10
0.853E-11   0.609E-12   0.000E+00   0.000E+00
  150.   0.400E-05   0.607E-06   0.834E-07   0.104E-07   0.117E-08   0.119E-09
0.109E-10   0.781E-12   0.000E+00   0.000E+00
  160.   0.312E-05   0.473E-06   0.650E-07   0.808E-08   0.910E-09   0.926E-10
0.853E-11   0.609E-12   0.000E+00   0.000E+00
  170.   0.148E-05   0.224E-06   0.308E-07   0.383E-08   0.431E-09   0.438E-10
0.404E-11   0.288E-12   0.000E+00   0.000E+00
  180.   0.425E-06   0.644E-07   0.885E-08   0.110E-08   0.124E-09   0.126E-10
0.116E-11   0.830E-13   0.000E+00   0.000E+00
  190.   0.742E-07   0.113E-07   0.155E-08   0.192E-09   0.217E-10   0.220E-11
0.203E-12   0.145E-13   0.000E+00   0.000E+00
  200.   0.788E-08   0.120E-08   0.164E-09   0.204E-10   0.230E-11   0.234E-12
0.215E-13   0.154E-14   0.000E+00   0.000E+00
  210.   0.508E-09   0.771E-10   0.106E-10   0.132E-11   0.148E-12   0.151E-13
0.139E-14   0.993E-16   0.000E+00   0.000E+00
  220.   0.199E-10   0.302E-11   0.416E-12   0.517E-13   0.582E-14   0.592E-15
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0.545E-16   0.389E-17   0.000E+00   0.000E+00
  230.   0.475E-12   0.721E-13   0.990E-14   0.123E-14   0.139E-15   0.141E-16
0.130E-17   0.928E-19   0.000E+00   0.000E+00
  240.   0.688E-14   0.104E-14   0.143E-15   0.178E-16   0.201E-17   0.204E-18
0.188E-19   0.134E-20   0.000E+00   0.000E+00
  250.   0.605E-16   0.919E-17   0.126E-17   0.157E-18   0.177E-19   0.180E-20
0.166E-21   0.118E-22   0.000E+00   0.000E+00
  260.   0.323E-18   0.490E-19   0.674E-20   0.838E-21   0.944E-22   0.960E-23
0.884E-24   0.632E-25   0.000E+00   0.000E+00
  270.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  280.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  290.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
1    DISTRIBUTION OF CHEMICAL IN PPM AT  0.7200E+02 HRS
0                    Z =        1.00
                                                                    X
   Y            0.          10.          20.          30.          40.          50.
     60.          70.          80.          90.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.357E-12   0.403E-12   0.426E-12   0.422E-12   0.390E-12   0.338E-12
0.274E-12   0.208E-12   0.147E-12   0.979E-13
   20.   0.317E-10   0.358E-10   0.378E-10   0.374E-10   0.346E-10   0.300E-10
0.243E-10   0.184E-10   0.131E-10   0.868E-11
   30.   0.201E-08   0.228E-08   0.241E-08   0.238E-08   0.220E-08   0.191E-08
0.155E-08   0.117E-08   0.832E-09   0.552E-09
   40.   0.919E-07   0.104E-06   0.110E-06   0.109E-06   0.100E-06   0.870E-07
0.705E-07   0.535E-07   0.379E-07   0.252E-07
   50.   0.301E-05   0.340E-05   0.359E-05   0.356E-05   0.329E-05   0.285E-05
0.231E-05   0.175E-05   0.124E-05   0.824E-06
   60.   0.711E-04   0.803E-04   0.849E-04   0.839E-04   0.776E-04   0.672E-04
0.544E-04   0.412E-04   0.292E-04   0.194E-04
   70.   0.123E-02   0.138E-02   0.146E-02   0.144E-02   0.133E-02   0.115E-02
0.928E-03   0.701E-03   0.496E-03   0.329E-03
   80.   0.159E-01   0.180E-01   0.189E-01   0.186E-01   0.170E-01   0.146E-01
0.117E-01   0.876E-02   0.616E-02   0.405E-02
   90.   0.164E+00   0.185E+00   0.193E+00   0.188E+00   0.170E+00   0.143E+00
0.113E+00   0.828E-01   0.572E-01   0.370E-01
  100.   0.139E+01   0.156E+01   0.162E+01   0.155E+01   0.137E+01   0.112E+01
0.857E+00   0.612E+00   0.409E+00   0.257E+00
  110.   0.941E+01   0.105E+02   0.108E+02   0.101E+02   0.874E+01   0.696E+01
0.514E+01   0.353E+01   0.227E+01   0.137E+01
  120.   0.490E+02   0.545E+02   0.548E+02   0.502E+02   0.420E+02   0.323E+02
0.230E+02   0.152E+02   0.940E+01   0.545E+01
  130.   0.198E+03   0.218E+03   0.212E+03   0.186E+03   0.147E+03   0.107E+03
0.729E+02   0.463E+02   0.275E+02   0.154E+02
  140.   0.538E+03   0.587E+03   0.558E+03   0.466E+03   0.350E+03   0.240E+03
0.155E+03   0.940E+02   0.541E+02   0.295E+02
  150.   0.778E+03   0.846E+03   0.795E+03   0.654E+03   0.479E+03   0.321E+03
0.202E+03   0.120E+03   0.682E+02   0.368E+02
  160.   0.538E+03   0.587E+03   0.558E+03   0.466E+03   0.350E+03   0.240E+03
0.155E+03   0.940E+02   0.541E+02   0.295E+02
  170.   0.198E+03   0.218E+03   0.212E+03   0.186E+03   0.147E+03   0.107E+03
0.729E+02   0.463E+02   0.275E+02   0.154E+02
  180.   0.490E+02   0.545E+02   0.548E+02   0.502E+02   0.420E+02   0.323E+02
0.230E+02   0.152E+02   0.940E+01   0.545E+01
  190.   0.941E+01   0.105E+02   0.108E+02   0.101E+02   0.874E+01   0.696E+01
0.514E+01   0.353E+01   0.227E+01   0.137E+01
  200.   0.139E+01   0.156E+01   0.162E+01   0.155E+01   0.137E+01   0.112E+01
0.857E+00   0.612E+00   0.409E+00   0.257E+00
  210.   0.164E+00   0.185E+00   0.193E+00   0.188E+00   0.170E+00   0.143E+00
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0.113E+00   0.828E-01   0.572E-01   0.370E-01
  220.   0.159E-01   0.180E-01   0.189E-01   0.186E-01   0.170E-01   0.146E-01
0.117E-01   0.876E-02   0.616E-02   0.405E-02
  230.   0.123E-02   0.138E-02   0.146E-02   0.144E-02   0.133E-02   0.115E-02
0.928E-03   0.701E-03   0.496E-03   0.329E-03
  240.   0.711E-04   0.803E-04   0.849E-04   0.839E-04   0.776E-04   0.672E-04
0.544E-04   0.412E-04   0.292E-04   0.194E-04
  250.   0.301E-05   0.340E-05   0.359E-05   0.356E-05   0.329E-05   0.285E-05
0.231E-05   0.175E-05   0.124E-05   0.824E-06
  260.   0.919E-07   0.104E-06   0.110E-06   0.109E-06   0.100E-06   0.870E-07
0.705E-07   0.535E-07   0.379E-07   0.252E-07
  270.   0.201E-08   0.228E-08   0.241E-08   0.238E-08   0.220E-08   0.191E-08
0.155E-08   0.117E-08   0.832E-09   0.552E-09
  280.   0.317E-10   0.358E-10   0.378E-10   0.374E-10   0.346E-10   0.300E-10
0.243E-10   0.184E-10   0.131E-10   0.868E-11
  290.   0.357E-12   0.403E-12   0.426E-12   0.422E-12   0.390E-12   0.338E-12
0.274E-12   0.208E-12   0.147E-12   0.979E-13
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                    CONTINUE
                                                                    X
   Y            100.         110.         120.         130.         140.         150.
     160.         170.         180.         190.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.608E-13   0.354E-13   0.192E-13   0.979E-14   0.466E-14   0.208E-14
0.867E-15   0.338E-15   0.124E-15   0.422E-16
   20.   0.539E-11   0.314E-11   0.171E-11   0.868E-12   0.413E-12   0.184E-12
0.769E-13   0.300E-13   0.110E-13   0.374E-14
   30.   0.343E-09   0.200E-09   0.109E-09   0.552E-10   0.263E-10   0.117E-10
0.489E-11   0.191E-11   0.697E-12   0.238E-12
   40.   0.157E-07   0.910E-08   0.495E-08   0.252E-08   0.120E-08   0.535E-09
0.223E-09   0.871E-10   0.318E-10   0.109E-10
   50.   0.512E-06   0.298E-06   0.162E-06   0.824E-07   0.393E-07   0.175E-07
0.730E-08   0.285E-08   0.104E-08   0.355E-09
   60.   0.120E-04   0.699E-05   0.380E-05   0.194E-05   0.922E-06   0.411E-06
0.171E-06   0.669E-07   0.244E-07   0.834E-08
   70.   0.204E-03   0.118E-03   0.642E-04   0.326E-04   0.155E-04   0.692E-05
0.289E-05   0.113E-05   0.411E-06   0.141E-06
   80.   0.250E-02   0.144E-02   0.781E-03   0.396E-03   0.188E-03   0.838E-04
0.349E-04   0.136E-04   0.497E-05   0.170E-05
   90.   0.225E-01   0.129E-01   0.691E-02   0.348E-02   0.165E-02   0.730E-03
0.304E-03   0.118E-03   0.431E-04   0.147E-04
  100.   0.152E+00   0.850E-01   0.448E-01   0.223E-01   0.104E-01   0.459E-02
0.190E-02   0.739E-03   0.269E-03   0.917E-04
  110.   0.780E+00   0.421E+00   0.215E+00   0.105E+00   0.481E-01   0.209E-01
0.859E-02   0.332E-02   0.120E-02   0.410E-03
  120.   0.298E+01   0.154E+01   0.763E+00   0.359E+00   0.162E+00   0.691E-01
0.280E-01   0.107E-01   0.388E-02   0.132E-02
  130.   0.814E+01   0.408E+01   0.195E+01   0.891E+00   0.391E+00   0.164E+00
0.657E-01   0.250E-01   0.897E-02   0.303E-02
  140.   0.152E+02   0.745E+01   0.348E+01   0.156E+01   0.671E+00   0.278E+00
0.110E+00   0.415E-01   0.149E-01   0.501E-02
  150.   0.188E+02   0.913E+01   0.423E+01   0.188E+01   0.806E+00   0.332E+00
0.131E+00   0.492E-01   0.176E-01   0.593E-02
  160.   0.152E+02   0.745E+01   0.348E+01   0.156E+01   0.671E+00   0.278E+00
0.110E+00   0.415E-01   0.149E-01   0.501E-02
  170.   0.814E+01   0.408E+01   0.195E+01   0.891E+00   0.391E+00   0.164E+00
0.657E-01   0.250E-01   0.897E-02   0.303E-02
  180.   0.298E+01   0.154E+01   0.763E+00   0.359E+00   0.162E+00   0.691E-01
0.280E-01   0.107E-01   0.388E-02   0.132E-02
  190.   0.780E+00   0.421E+00   0.215E+00   0.105E+00   0.481E-01   0.209E-01
0.859E-02   0.332E-02   0.120E-02   0.410E-03
  200.   0.152E+00   0.850E-01   0.448E-01   0.223E-01   0.104E-01   0.459E-02
0.190E-02   0.739E-03   0.269E-03   0.917E-04
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  210.   0.225E-01   0.129E-01   0.691E-02   0.348E-02   0.165E-02   0.730E-03
0.304E-03   0.118E-03   0.431E-04   0.147E-04
  220.   0.250E-02   0.144E-02   0.781E-03   0.396E-03   0.188E-03   0.838E-04
0.349E-04   0.136E-04   0.497E-05   0.170E-05
  230.   0.204E-03   0.118E-03   0.642E-04   0.326E-04   0.155E-04   0.692E-05
0.289E-05   0.113E-05   0.411E-06   0.141E-06
  240.   0.120E-04   0.699E-05   0.380E-05   0.194E-05   0.922E-06   0.411E-06
0.171E-06   0.669E-07   0.244E-07   0.834E-08
  250.   0.512E-06   0.298E-06   0.162E-06   0.824E-07   0.393E-07   0.175E-07
0.730E-08   0.285E-08   0.104E-08   0.355E-09
  260.   0.157E-07   0.910E-08   0.495E-08   0.252E-08   0.120E-08   0.535E-09
0.223E-09   0.871E-10   0.318E-10   0.109E-10
  270.   0.343E-09   0.200E-09   0.109E-09   0.552E-10   0.263E-10   0.117E-10
0.489E-11   0.191E-11   0.697E-12   0.238E-12
  280.   0.539E-11   0.314E-11   0.171E-11   0.868E-12   0.413E-12   0.184E-12
0.769E-13   0.300E-13   0.110E-13   0.374E-14
  290.   0.608E-13   0.354E-13   0.192E-13   0.979E-14   0.466E-14   0.208E-14
0.867E-15   0.338E-15   0.124E-15   0.422E-16
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
0                                                CONTINUE
                                                                    X
   Y          200.        210.        220.        230.        240.        250.
    260.        270.        280.        288.

    0.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
   10.   0.135E-16   0.404E-17   0.113E-17   0.297E-18   0.727E-19   0.167E-19
0.358E-20   0.720E-21   0.135E-21   0.339E-22
   20.   0.120E-14   0.358E-15   0.100E-15   0.263E-16   0.645E-17   0.148E-17
0.318E-18   0.638E-19   0.120E-19   0.301E-20
   30.   0.762E-13   0.228E-13   0.638E-14   0.167E-14   0.410E-15   0.942E-16
0.202E-16   0.406E-17   0.764E-18   0.191E-18
   40.   0.347E-11   0.104E-11   0.291E-12   0.763E-13   0.187E-13   0.429E-14
0.922E-15   0.185E-15   0.348E-16   0.872E-17
   50.   0.114E-09   0.340E-10   0.953E-11   0.250E-11   0.612E-12   0.140E-12
0.302E-13   0.606E-14   0.114E-14   0.285E-15
   60.   0.267E-08   0.798E-09   0.224E-09   0.586E-10   0.144E-10   0.330E-11
0.708E-12   0.142E-12   0.268E-13   0.670E-14
   70.   0.449E-07   0.134E-07   0.377E-08   0.987E-09   0.242E-09   0.555E-10
0.119E-10   0.240E-11   0.451E-12   0.113E-12
   80.   0.543E-06   0.163E-06   0.455E-07   0.119E-07   0.292E-08   0.671E-09
0.144E-09   0.290E-10   0.544E-11   0.136E-11
   90.   0.471E-05   0.141E-05   0.395E-06   0.103E-06   0.254E-07   0.582E-08
0.125E-08   0.251E-09   0.472E-10   0.118E-10
  100.   0.293E-04   0.877E-05   0.245E-05   0.643E-06   0.158E-06   0.362E-07
0.777E-08   0.156E-08   0.294E-09   0.735E-10
  110.   0.131E-03   0.391E-04   0.110E-04   0.287E-05   0.703E-06   0.161E-06
0.347E-07   0.696E-08   0.131E-08   0.328E-09
  120.   0.420E-03   0.125E-03   0.351E-04   0.918E-05   0.225E-05   0.517E-06
0.111E-06   0.223E-07   0.419E-08   0.105E-08
  130.   0.965E-03   0.288E-03   0.805E-04   0.211E-04   0.517E-05   0.119E-05
0.255E-06   0.512E-07   0.962E-08   0.241E-08
  140.   0.159E-02   0.474E-03   0.133E-03   0.347E-04   0.851E-05   0.195E-05
0.419E-06   0.842E-07   0.158E-07   0.396E-08
  150.   0.188E-02   0.560E-03   0.157E-03   0.410E-04   0.100E-04   0.230E-05
0.495E-06   0.994E-07   0.187E-07   0.468E-08
  160.   0.159E-02   0.474E-03   0.133E-03   0.347E-04   0.851E-05   0.195E-05
0.419E-06   0.842E-07   0.158E-07   0.396E-08
  170.   0.965E-03   0.288E-03   0.805E-04   0.211E-04   0.517E-05   0.119E-05
0.255E-06   0.512E-07   0.962E-08   0.241E-08
  180.   0.420E-03   0.125E-03   0.351E-04   0.918E-05   0.225E-05   0.517E-06
0.111E-06   0.223E-07   0.419E-08   0.105E-08
  190.   0.131E-03   0.391E-04   0.110E-04   0.287E-05   0.703E-06   0.161E-06
0.347E-07   0.696E-08   0.131E-08   0.328E-09
  200.   0.293E-04   0.877E-05   0.245E-05   0.643E-06   0.158E-06   0.362E-07
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0.777E-08   0.156E-08   0.294E-09   0.735E-10
  210.   0.471E-05   0.141E-05   0.395E-06   0.103E-06   0.254E-07   0.582E-08
0.125E-08   0.251E-09   0.472E-10   0.118E-10
  220.   0.543E-06   0.163E-06   0.455E-07   0.119E-07   0.292E-08   0.671E-09
0.144E-09   0.290E-10   0.544E-11   0.136E-11
  230.   0.449E-07   0.134E-07   0.377E-08   0.987E-09   0.242E-09   0.555E-10
0.119E-10   0.240E-11   0.451E-12   0.113E-12
  240.   0.267E-08   0.798E-09   0.224E-09   0.586E-10   0.144E-10   0.330E-11
0.708E-12   0.142E-12   0.268E-13   0.670E-14
  250.   0.114E-09   0.340E-10   0.953E-11   0.250E-11   0.612E-12   0.140E-12
0.302E-13   0.606E-14   0.114E-14   0.285E-15
  260.   0.347E-11   0.104E-11   0.291E-12   0.763E-13   0.187E-13   0.429E-14
0.922E-15   0.185E-15   0.348E-16   0.872E-17
  270.   0.762E-13   0.228E-13   0.638E-14   0.167E-14   0.410E-15   0.942E-16
0.202E-16   0.406E-17   0.764E-18   0.191E-18
  280.   0.120E-14   0.358E-15   0.100E-15   0.263E-16   0.645E-17   0.148E-17
0.318E-18   0.638E-19   0.120E-19   0.301E-20
  290.   0.135E-16   0.404E-17   0.113E-17   0.297E-18   0.727E-19   0.167E-19
0.358E-20   0.720E-21   0.135E-21   0.339E-22
  300.   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.000E+00   0.000E+00   0.000E+00   0.000E+00
1    DISTRIBUTION OF CHEMICAL IN PPM AT  0.9600E+02 HRS
0                    Z =       1.00
                                                                    X
   Y          0.          10.         20.         30.         40.         50.
    60.         70.         80.         90.

    0.   0.233E-10   0.266E-10   0.288E-10   0.296E-10   0.291E-10   0.271E-10
0.240E-10   0.203E-10   0.163E-10   0.124E-10
   10.   0.866E-09   0.986E-09   0.107E-08   0.110E-08   0.108E-08   0.101E-08
0.892E-09   0.753E-09   0.604E-09   0.462E-09
   20.   0.251E-07   0.286E-07   0.310E-07   0.319E-07   0.312E-07   0.291E-07
0.258E-07   0.218E-07   0.175E-07   0.134E-07
   30.   0.571E-06   0.650E-06   0.703E-06   0.724E-06   0.709E-06   0.661E-06
0.586E-06   0.494E-06   0.396E-06   0.302E-06
   40.   0.102E-04   0.117E-04   0.126E-04   0.130E-04   0.127E-04   0.118E-04
0.105E-04   0.880E-05   0.705E-05   0.537E-05
   50.   0.147E-03   0.167E-03   0.181E-03   0.186E-03   0.181E-03   0.168E-03
0.148E-03   0.125E-03   0.993E-04   0.754E-04
   60.   0.172E-02   0.196E-02   0.212E-02   0.217E-02   0.210E-02   0.194E-02
0.170E-02   0.142E-02   0.112E-02   0.847E-03
   70.   0.168E-01   0.190E-01   0.205E-01   0.209E-01   0.201E-01   0.184E-01
0.160E-01   0.132E-01   0.103E-01   0.770E-02
   80.   0.136E+00   0.154E+00   0.165E+00   0.167E+00   0.160E+00   0.145E+00
0.124E+00   0.101E+00   0.781E-01   0.573E-01
   90.   0.911E+00   0.103E+01   0.110E+01   0.111E+01   0.105E+01   0.940E+00
0.795E+00   0.637E+00   0.483E+00   0.348E+00
  100.   0.496E+01   0.561E+01   0.595E+01   0.594E+01   0.557E+01   0.492E+01
0.410E+01   0.323E+01   0.240E+01   0.170E+01
  110.   0.217E+02   0.245E+02   0.258E+02   0.255E+02   0.236E+02   0.205E+02
0.168E+02   0.129E+02   0.944E+01   0.653E+01
  120.   0.797E+02   0.894E+02   0.924E+02   0.886E+02   0.794E+02   0.669E+02
0.533E+02   0.401E+02   0.286E+02   0.194E+02
  130.   0.271E+03   0.299E+03   0.296E+03   0.266E+03   0.221E+03   0.174E+03
0.131E+03   0.947E+02   0.656E+02   0.434E+02
  140.   0.723E+03   0.789E+03   0.749E+03   0.629E+03   0.481E+03   0.346E+03
0.241E+03   0.165E+03   0.111E+03   0.716E+02
  150.   0.105E+04   0.114E+04   0.107E+04   0.878E+03   0.649E+03   0.450E+03
0.303E+03   0.202E+03   0.133E+03   0.849E+02
  160.   0.723E+03   0.789E+03   0.749E+03   0.629E+03   0.481E+03   0.346E+03
0.241E+03   0.165E+03   0.111E+03   0.716E+02
  170.   0.271E+03   0.299E+03   0.296E+03   0.266E+03   0.221E+03   0.174E+03
0.131E+03   0.947E+02   0.656E+02   0.434E+02
  180.   0.797E+02   0.894E+02   0.924E+02   0.886E+02   0.794E+02   0.669E+02
0.533E+02   0.401E+02   0.286E+02   0.194E+02
  190.   0.217E+02   0.245E+02   0.258E+02   0.255E+02   0.236E+02   0.205E+02
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0.168E+02   0.129E+02   0.944E+01   0.653E+01
  200.   0.496E+01   0.561E+01   0.595E+01   0.594E+01   0.557E+01   0.492E+01
0.410E+01   0.323E+01   0.240E+01   0.170E+01
  210.   0.911E+00   0.103E+01   0.110E+01   0.111E+01   0.105E+01   0.940E+00
0.795E+00   0.637E+00   0.483E+00   0.348E+00
  220.   0.136E+00   0.154E+00   0.165E+00   0.167E+00   0.160E+00   0.145E+00
0.124E+00   0.101E+00   0.781E-01   0.573E-01
  230.   0.168E-01   0.190E-01   0.205E-01   0.209E-01   0.201E-01   0.184E-01
0.160E-01   0.132E-01   0.103E-01   0.770E-02
  240.   0.172E-02   0.196E-02   0.212E-02   0.217E-02   0.210E-02   0.194E-02
0.170E-02   0.142E-02   0.112E-02   0.847E-03
  250.   0.147E-03   0.167E-03   0.181E-03   0.186E-03   0.181E-03   0.168E-03
0.148E-03   0.125E-03   0.993E-04   0.754E-04
  260.   0.102E-04   0.117E-04   0.126E-04   0.130E-04   0.127E-04   0.118E-04
0.105E-04   0.880E-05   0.705E-05   0.537E-05
  270.   0.571E-06   0.650E-06   0.703E-06   0.724E-06   0.709E-06   0.661E-06
0.586E-06   0.494E-06   0.396E-06   0.302E-06
  280.   0.251E-07   0.286E-07   0.310E-07   0.319E-07   0.312E-07   0.291E-07
0.258E-07   0.218E-07   0.175E-07   0.134E-07
  290.   0.866E-09   0.986E-09   0.107E-08   0.110E-08   0.108E-08   0.101E-08
0.892E-09   0.753E-09   0.604E-09   0.462E-09
  300.   0.233E-10   0.266E-10   0.288E-10   0.296E-10   0.291E-10   0.271E-10
0.240E-10   0.203E-10   0.163E-10   0.124E-10
0                                                CONTINUE
                                                                    X
   Y          100.        110.        120.        130.        140.        150.
    160.        170.        180.        190.

    0.   0.905E-11   0.626E-11   0.412E-11   0.258E-11   0.153E-11   0.870E-12
0.469E-12   0.240E-12   0.117E-12   0.544E-13
   10.   0.336E-09   0.232E-09   0.153E-09   0.955E-10   0.569E-10   0.322E-10
0.174E-10   0.891E-11   0.435E-11   0.202E-11
   20.   0.971E-08   0.671E-08   0.441E-08   0.276E-08   0.164E-08   0.931E-09
0.502E-09   0.257E-09   0.126E-09   0.583E-10
   30.   0.219E-06   0.152E-06   0.997E-07   0.623E-07   0.371E-07   0.210E-07
0.113E-07   0.580E-08   0.283E-08   0.131E-08
   40.   0.389E-05   0.268E-05   0.176E-05   0.110E-05   0.654E-06   0.370E-06
0.199E-06   0.102E-06   0.498E-07   0.231E-07
   50.   0.545E-04   0.374E-04   0.245E-04   0.153E-04   0.904E-05   0.511E-05
0.274E-05   0.140E-05   0.683E-06   0.317E-06
   60.   0.607E-03   0.415E-03   0.270E-03   0.167E-03   0.985E-04   0.554E-04
0.296E-04   0.151E-04   0.734E-05   0.340E-05
   70.   0.546E-02   0.369E-02   0.237E-02   0.145E-02   0.851E-03   0.474E-03
0.252E-03   0.128E-03   0.619E-04   0.285E-04
   80.   0.400E-01   0.265E-01   0.168E-01   0.102E-01   0.586E-02   0.323E-02
0.170E-02   0.855E-03   0.411E-03   0.188E-03
   90.   0.238E+00   0.155E+00   0.962E-01   0.571E-01   0.323E-01   0.175E-01
0.910E-02   0.452E-02   0.215E-02   0.975E-03
  100.   0.114E+01   0.726E+00   0.441E+00   0.256E+00   0.142E+00   0.757E-01
0.386E-01   0.189E-01   0.885E-02   0.398E-02
  110.   0.429E+01   0.268E+01   0.160E+01   0.908E+00   0.494E+00   0.258E+00
0.129E+00   0.620E-01   0.287E-01   0.127E-01
  120.   0.125E+02   0.765E+01   0.447E+01   0.250E+01   0.133E+01   0.683E+00
0.336E+00   0.159E+00   0.724E-01   0.317E-01
  130.   0.274E+02   0.165E+02   0.950E+01   0.522E+01   0.275E+01   0.139E+01
0.674E+00   0.315E+00   0.142E+00   0.615E-01
  140.   0.445E+02   0.265E+02   0.150E+02   0.819E+01   0.427E+01   0.214E+01
0.103E+01   0.477E+00   0.213E+00   0.916E-01
  150.   0.524E+02   0.310E+02   0.176E+02   0.953E+01   0.495E+01   0.247E+01
0.119E+01   0.547E+00   0.244E+00   0.105E+00
  160.   0.445E+02   0.265E+02   0.150E+02   0.819E+01   0.427E+01   0.214E+01
0.103E+01   0.477E+00   0.213E+00   0.916E-01
  170.   0.274E+02   0.165E+02   0.950E+01   0.522E+01   0.275E+01   0.139E+01
0.674E+00   0.315E+00   0.142E+00   0.615E-01
  180.   0.125E+02   0.765E+01   0.447E+01   0.250E+01   0.133E+01   0.683E+00
0.336E+00   0.159E+00   0.724E-01   0.317E-01
```



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  190.   0.429E+01   0.268E+01   0.160E+01   0.908E+00   0.494E+00   0.258E+00
0.129E+00   0.620E-01   0.287E-01   0.127E-01
  200.   0.114E+01   0.726E+00   0.441E+00   0.256E+00   0.142E+00   0.757E-01
0.386E-01   0.189E-01   0.885E-02   0.398E-02
  210.   0.238E+00   0.155E+00   0.962E-01   0.571E-01   0.323E-01   0.175E-01
0.910E-02   0.452E-02   0.215E-02   0.975E-03
  220.   0.400E-01   0.265E-01   0.168E-01   0.102E-01   0.586E-02   0.323E-02
0.170E-02   0.855E-03   0.411E-03   0.188E-03
  230.   0.546E-02   0.369E-02   0.237E-02   0.145E-02   0.851E-03   0.474E-03
0.252E-03   0.128E-03   0.619E-04   0.285E-04
  240.   0.607E-03   0.415E-03   0.270E-03   0.167E-03   0.985E-04   0.554E-04
0.296E-04   0.151E-04   0.734E-05   0.340E-05
  250.   0.545E-04   0.374E-04   0.245E-04   0.153E-04   0.904E-05   0.511E-05
0.274E-05   0.140E-05   0.683E-06   0.317E-06
  260.   0.389E-05   0.268E-05   0.176E-05   0.110E-05   0.654E-06   0.370E-06
0.199E-06   0.102E-06   0.498E-07   0.231E-07
  270.   0.219E-06   0.152E-06   0.997E-07   0.623E-07   0.371E-07   0.210E-07
0.113E-07   0.580E-08   0.283E-08   0.131E-08
  280.   0.971E-08   0.671E-08   0.441E-08   0.276E-08   0.164E-08   0.931E-09
0.502E-09   0.257E-09   0.126E-09   0.583E-10
  290.   0.336E-09   0.232E-09   0.153E-09   0.955E-10   0.569E-10   0.322E-10
0.174E-10   0.891E-11   0.435E-11   0.202E-11
  300.   0.905E-11   0.626E-11   0.412E-11   0.258E-11   0.153E-11   0.870E-12
0.469E-12   0.240E-12   0.117E-12   0.544E-13
0                                                CONTINUE
                                                                    X
   Y          200.        210.        220.        230.        240.        250.
    260.        270.        280.        288.

    0.   0.240E-13   0.101E-13   0.404E-14   0.154E-14   0.556E-15   0.191E-15
0.627E-16   0.196E-16   0.580E-17   0.212E-17
   10.   0.891E-12   0.374E-12   0.150E-12   0.569E-13   0.206E-13   0.710E-14
0.232E-14   0.725E-15   0.215E-15   0.784E-16
   20.   0.257E-10   0.108E-10   0.432E-11   0.164E-11   0.595E-12   0.205E-12
0.672E-13   0.209E-13   0.621E-14   0.226E-14
   30.   0.580E-09   0.244E-09   0.974E-10   0.370E-10   0.134E-10   0.462E-11
0.151E-11   0.471E-12   0.140E-12   0.510E-13
   40.   0.102E-07   0.428E-08   0.171E-08   0.651E-09   0.235E-09   0.810E-10
0.265E-10   0.828E-11   0.245E-11   0.895E-12
   50.   0.140E-06   0.587E-07   0.234E-07   0.891E-08   0.322E-08   0.111E-08
0.363E-09   0.113E-09   0.336E-10   0.123E-10
   60.   0.150E-05   0.627E-06   0.250E-06   0.952E-07   0.344E-07   0.118E-07
0.388E-08   0.121E-08   0.358E-09   0.131E-09
   70.   0.125E-04   0.525E-05   0.209E-05   0.794E-06   0.287E-06   0.986E-07
0.323E-07   0.101E-07   0.298E-08   0.109E-08
   80.   0.823E-04   0.343E-04   0.136E-04   0.517E-05   0.186E-05   0.641E-06
0.210E-06   0.653E-07   0.193E-07   0.705E-08
   90.   0.424E-03   0.176E-03   0.696E-04   0.263E-04   0.946E-05   0.325E-05
0.106E-05   0.330E-06   0.978E-07   0.357E-07
  100.   0.171E-02   0.705E-03   0.278E-03   0.104E-03   0.375E-04   0.128E-04
0.419E-05   0.130E-05   0.386E-06   0.141E-06
  110.   0.542E-02   0.221E-02   0.866E-03   0.324E-03   0.116E-03   0.396E-04
0.129E-04   0.401E-05   0.119E-05   0.432E-06
  120.   0.134E-01   0.542E-02   0.211E-02   0.785E-03   0.280E-03   0.953E-04
0.310E-04   0.961E-05   0.284E-05   0.103E-05
  130.   0.257E-01   0.103E-01   0.399E-02   0.148E-02   0.526E-03   0.179E-03
0.580E-04   0.180E-04   0.530E-05   0.193E-05
  140.   0.381E-01   0.152E-01   0.586E-02   0.217E-02   0.768E-03   0.261E-03
0.845E-04   0.261E-04   0.772E-05   0.281E-05
  150.   0.434E-01   0.173E-01   0.666E-02   0.246E-02   0.872E-03   0.296E-03
0.958E-04   0.296E-04   0.874E-05   0.318E-05
  160.   0.381E-01   0.152E-01   0.586E-02   0.217E-02   0.768E-03   0.261E-03
0.845E-04   0.261E-04   0.772E-05   0.281E-05
  170.   0.257E-01   0.103E-01   0.399E-02   0.148E-02   0.526E-03   0.179E-03
0.580E-04   0.180E-04   0.530E-05   0.193E-05
  180.   0.134E-01   0.542E-02   0.211E-02   0.785E-03   0.280E-03   0.953E-04
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0.310E-04   0.961E-05   0.284E-05   0.103E-05
  190.   0.542E-02   0.221E-02   0.866E-03   0.324E-03   0.116E-03   0.396E-04
0.129E-04   0.401E-05   0.119E-05   0.432E-06
  200.   0.171E-02   0.705E-03   0.278E-03   0.104E-03   0.375E-04   0.128E-04
0.419E-05   0.130E-05   0.386E-06   0.141E-06
  210.   0.424E-03   0.176E-03   0.696E-04   0.263E-04   0.946E-05   0.325E-05
0.106E-05   0.330E-06   0.978E-07   0.357E-07
  220.   0.823E-04   0.343E-04   0.136E-04   0.517E-05   0.186E-05   0.641E-06
0.210E-06   0.653E-07   0.193E-07   0.705E-08
  230.   0.125E-04   0.525E-05   0.209E-05   0.794E-06   0.287E-06   0.986E-07
0.323E-07   0.101E-07   0.298E-08   0.109E-08
  240.   0.150E-05   0.627E-06   0.250E-06   0.952E-07   0.344E-07   0.118E-07
0.388E-08   0.121E-08   0.358E-09   0.131E-09
  250.   0.140E-06   0.587E-07   0.234E-07   0.891E-08   0.322E-08   0.111E-08
0.363E-09   0.113E-09   0.336E-10   0.123E-10
  260.   0.102E-07   0.428E-08   0.171E-08   0.651E-09   0.235E-09   0.810E-10
0.265E-10   0.828E-11   0.245E-11   0.895E-12
  270.   0.580E-09   0.244E-09   0.974E-10   0.370E-10   0.134E-10   0.462E-11
0.151E-11   0.471E-12   0.140E-12   0.510E-13
  280.   0.257E-10   0.108E-10   0.432E-11   0.164E-11   0.595E-12   0.205E-12
0.672E-13   0.209E-13   0.621E-14   0.226E-14
  290.   0.891E-12   0.374E-12   0.150E-12   0.569E-13   0.206E-13   0.710E-14
0.232E-14   0.725E-15   0.215E-15   0.784E-16
  300.   0.240E-13   0.101E-13   0.404E-14   0.154E-14   0.556E-15   0.191E-15
0.627E-16   0.196E-16   0.580E-17   0.212E-17
OSTEADY STATE SOLUTION HAS NOT BEEN REACHED BEFORE FINAL SIMULATING TIME


1    DISTRIBUTION OF CHEMICAL IN PPM AT  0.1200E+03 HRS
0                    Z =       1.00
                                                                    X
   Y          0.         10.         20.         30.         40.         50.
     60.         70.         80.         90.

    0.   0.488E-08   0.558E-08   0.613E-08   0.647E-08   0.656E-08   0.639E-08
0.598E-08   0.538E-08   0.464E-08   0.386E-08
   10.   0.896E-07   0.102E-06   0.113E-06   0.119E-06   0.120E-06   0.117E-06
0.109E-06   0.983E-07   0.848E-07   0.703E-07
   20.   0.137E-05   0.157E-05   0.172E-05   0.181E-05   0.183E-05   0.178E-05
0.166E-05   0.149E-05   0.129E-05   0.106E-05
   30.   0.176E-04   0.201E-04   0.221E-04   0.232E-04   0.235E-04   0.228E-04
0.212E-04   0.189E-04   0.163E-04   0.134E-04
   40.   0.192E-03   0.219E-03   0.240E-03   0.252E-03   0.254E-03   0.245E-03
0.228E-03   0.203E-03   0.173E-03   0.142E-03
   50.   0.178E-02   0.203E-02   0.222E-02   0.233E-02   0.234E-02   0.225E-02
0.208E-02   0.184E-02   0.156E-02   0.127E-02
   60.   0.141E-01   0.161E-01   0.176E-01   0.184E-01   0.184E-01   0.176E-01
0.161E-01   0.142E-01   0.119E-01   0.963E-02
   70.   0.950E-01   0.108E+00   0.118E+00   0.123E+00   0.122E+00   0.116E+00
0.106E+00   0.924E-01   0.772E-01   0.617E-01
   80.   0.540E+00   0.616E+00   0.670E+00   0.695E+00   0.688E+00   0.650E+00
0.588E+00   0.508E+00   0.420E+00   0.332E+00
   90.   0.259E+01   0.295E+01   0.319E+01   0.330E+01   0.324E+01   0.304E+01
0.272E+01   0.233E+01   0.190E+01   0.149E+01
  100.   0.105E+02   0.120E+02   0.129E+02   0.132E+02   0.129E+02   0.119E+02
0.105E+02   0.885E+01   0.713E+01   0.550E+01
  110.   0.372E+02   0.422E+02   0.450E+02   0.454E+02   0.434E+02   0.393E+02
0.339E+02   0.280E+02   0.221E+02   0.167E+02
  120.   0.116E+03   0.131E+03   0.138E+03   0.135E+03   0.125E+03   0.110E+03
0.915E+02   0.731E+02   0.560E+02   0.413E+02
  130.   0.325E+03   0.363E+03   0.369E+03   0.347E+03   0.304E+03   0.253E+03
0.201E+03   0.154E+03   0.114E+03   0.816E+02
  140.   0.727E+03   0.802E+03   0.789E+03   0.704E+03   0.581E+03   0.454E+03
0.343E+03   0.252E+03   0.180E+03   0.126E+03
  150.   0.993E+03   0.109E+04   0.106E+04   0.924E+03   0.742E+03   0.565E+03
0.416E+03   0.299E+03   0.211E+03   0.146E+03
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  160.   0.727E+03   0.802E+03   0.789E+03   0.704E+03   0.581E+03   0.454E+03
0.343E+03   0.252E+03   0.180E+03   0.126E+03
  170.   0.325E+03   0.363E+03   0.369E+03   0.347E+03   0.304E+03   0.253E+03
0.201E+03   0.154E+03   0.114E+03   0.816E+02
  180.   0.116E+03   0.131E+03   0.138E+03   0.135E+03   0.125E+03   0.110E+03
0.915E+02   0.731E+02   0.560E+02   0.413E+02
  190.   0.372E+02   0.422E+02   0.450E+02   0.454E+02   0.434E+02   0.393E+02
0.339E+02   0.280E+02   0.221E+02   0.167E+02
  200.   0.105E+02   0.120E+02   0.129E+02   0.132E+02   0.129E+02   0.119E+02
0.105E+02   0.885E+01   0.713E+01   0.550E+01
  210.   0.259E+01   0.295E+01   0.319E+01   0.330E+01   0.324E+01   0.304E+01
0.272E+01   0.233E+01   0.190E+01   0.149E+01
  220.   0.540E+00   0.616E+00   0.670E+00   0.695E+00   0.688E+00   0.650E+00
0.588E+00   0.508E+00   0.420E+00   0.332E+00
  230.   0.950E-01   0.108E+00   0.118E+00   0.123E+00   0.122E+00   0.116E+00
0.106E+00   0.924E-01   0.772E-01   0.617E-01
  240.   0.141E-01   0.161E-01   0.176E-01   0.184E-01   0.184E-01   0.176E-01
0.161E-01   0.142E-01   0.119E-01   0.963E-02
  250.   0.178E-02   0.203E-02   0.222E-02   0.233E-02   0.234E-02   0.225E-02
0.208E-02   0.184E-02   0.156E-02   0.127E-02
  260.   0.192E-03   0.219E-03   0.240E-03   0.252E-03   0.254E-03   0.245E-03
0.228E-03   0.203E-03   0.173E-03   0.142E-03
  270.   0.176E-04   0.201E-04   0.221E-04   0.232E-04   0.235E-04   0.228E-04
0.212E-04   0.189E-04   0.163E-04   0.134E-04
  280.   0.137E-05   0.157E-05   0.172E-05   0.181E-05   0.183E-05   0.178E-05
0.166E-05   0.149E-05   0.129E-05   0.106E-05
  290.   0.896E-07   0.102E-06   0.113E-06   0.119E-06   0.120E-06   0.117E-06
0.109E-06   0.983E-07   0.848E-07   0.703E-07
  300.   0.488E-08   0.558E-08   0.613E-08   0.647E-08   0.656E-08   0.639E-08
0.598E-08   0.538E-08   0.464E-08   0.386E-08
0                                                    CONTINUE
                                                                    X
   Y        100.        110.        120.        130.        140.        150.
    160.        170.        180.        190.

    0.   0.308E-08   0.236E-08   0.174E-08   0.123E-08   0.836E-09   0.547E-09
0.343E-09   0.207E-09   0.120E-09   0.671E-10
   10.   0.560E-07   0.429E-07   0.316E-07   0.223E-07   0.152E-07   0.990E-08
0.622E-08   0.375E-08   0.217E-08   0.121E-08
   20.   0.845E-06   0.646E-06   0.474E-06   0.335E-06   0.227E-06   0.148E-06
0.926E-07   0.558E-07   0.323E-07   0.180E-07
   30.   0.106E-04   0.808E-05   0.591E-05   0.416E-05   0.281E-05   0.183E-05
0.114E-05   0.685E-06   0.395E-06   0.220E-06
   40.   0.112E-03   0.847E-04   0.616E-04   0.431E-04   0.290E-04   0.187E-04
0.116E-04   0.696E-05   0.400E-05   0.221E-05
   50.   0.993E-03   0.746E-03   0.539E-03   0.374E-03   0.249E-03   0.160E-03
0.988E-04   0.587E-04   0.336E-04   0.185E-04
   60.   0.746E-02   0.555E-02   0.397E-02   0.273E-02   0.180E-02   0.115E-02
0.701E-03   0.413E-03   0.234E-03   0.128E-03
   70.   0.473E-01   0.348E-01   0.246E-01   0.167E-01   0.109E-01   0.686E-02
0.415E-02   0.242E-02   0.136E-02   0.735E-03
   80.   0.252E+00   0.183E+00   0.128E+00   0.858E-01   0.553E-01   0.343E-01
0.205E-01   0.118E-01   0.655E-02   0.351E-02
   90.   0.111E+01   0.801E+00   0.552E+00   0.366E+00   0.233E+00   0.143E+00
0.841E-01   0.478E-01   0.262E-01   0.139E-01
  100.   0.407E+01   0.288E+01   0.196E+01   0.128E+01   0.805E+00   0.487E+00
0.284E+00   0.159E+00   0.862E-01   0.450E-01
  110.   0.121E+02   0.846E+01   0.567E+01   0.366E+01   0.227E+01   0.136E+01
0.780E+00   0.433E+00   0.232E+00   0.120E+00
  120.   0.293E+02   0.201E+02   0.132E+02   0.842E+01   0.516E+01   0.305E+01
0.173E+01   0.952E+00   0.505E+00   0.259E+00
  130.   0.566E+02   0.379E+02   0.246E+02   0.155E+02   0.936E+01   0.548E+01
0.309E+01   0.168E+01   0.886E+00   0.451E+00
  140.   0.852E+02   0.562E+02   0.360E+02   0.224E+02   0.135E+02   0.782E+01
0.439E+01   0.238E+01   0.125E+01   0.630E+00
  150.   0.981E+02   0.643E+02   0.410E+02   0.254E+02   0.152E+02   0.881E+01
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0.493E+01   0.267E+01   0.140E+01   0.705E+00
  160.   0.852E+02   0.562E+02   0.360E+02   0.224E+02   0.135E+02   0.782E+01
0.439E+01   0.238E+01   0.125E+01   0.630E+00
  170.   0.566E+02   0.379E+02   0.246E+02   0.155E+02   0.936E+01   0.548E+01
0.309E+01   0.168E+01   0.886E+00   0.451E+00
  180.   0.293E+02   0.201E+02   0.132E+02   0.842E+01   0.516E+01   0.305E+01
0.173E+01   0.952E+00   0.505E+00   0.259E+00
  190.   0.121E+02   0.846E+01   0.567E+01   0.366E+01   0.227E+01   0.136E+01
0.780E+00   0.433E+00   0.232E+00   0.120E+00
  200.   0.407E+01   0.288E+01   0.196E+01   0.128E+01   0.805E+00   0.487E+00
0.284E+00   0.159E+00   0.862E-01   0.450E-01
  210.   0.111E+01   0.801E+00   0.552E+00   0.366E+00   0.233E+00   0.143E+00
0.841E-01   0.478E-01   0.262E-01   0.139E-01
  220.   0.252E+00   0.183E+00   0.128E+00   0.858E-01   0.553E-01   0.343E-01
0.205E-01   0.118E-01   0.655E-02   0.351E-02
  230.   0.473E-01   0.348E-01   0.246E-01   0.167E-01   0.109E-01   0.686E-02
0.415E-02   0.242E-02   0.136E-02   0.735E-03
  240.   0.746E-02   0.555E-02   0.397E-02   0.273E-02   0.180E-02   0.115E-02
0.701E-03   0.413E-03   0.234E-03   0.128E-03
  250.   0.993E-03   0.746E-03   0.539E-03   0.374E-03   0.249E-03   0.160E-03
0.988E-04   0.587E-04   0.336E-04   0.185E-04
  260.   0.112E-03   0.847E-04   0.616E-04   0.431E-04   0.290E-04   0.187E-04
0.116E-04   0.696E-05   0.400E-05   0.221E-05
  270.   0.106E-04   0.808E-05   0.591E-05   0.416E-05   0.281E-05   0.183E-05
0.114E-05   0.685E-06   0.395E-06   0.220E-06
  280.   0.845E-06   0.646E-06   0.474E-06   0.335E-06   0.227E-06   0.148E-06
0.926E-07   0.558E-07   0.323E-07   0.180E-07
  290.   0.560E-07   0.429E-07   0.316E-07   0.223E-07   0.152E-07   0.990E-08
0.622E-08   0.375E-08   0.217E-08   0.121E-08
  300.   0.308E-08   0.236E-08   0.174E-08   0.123E-08   0.836E-09   0.547E-09
0.343E-09   0.207E-09   0.120E-09   0.671E-10
0                                                CONTINUE
                                                              X
   Y          200.        210.        220.        230.        240.        250.
    260.        270.        280.        288.

    0.   0.359E-10   0.185E-10   0.915E-11   0.435E-11   0.199E-11   0.874E-12
0.369E-12   0.150E-12   0.583E-13   0.267E-13
   10.   0.648E-09   0.334E-09   0.165E-09   0.785E-10   0.358E-10   0.157E-10
0.664E-11   0.269E-11   0.105E-11   0.480E-12
   20.   0.961E-08   0.494E-08   0.244E-08   0.116E-08   0.530E-09   0.232E-09
0.980E-10   0.397E-10   0.155E-10   0.708E-11
   30.   0.117E-06   0.602E-07   0.297E-07   0.141E-07   0.642E-08   0.282E-08
0.119E-08   0.481E-09   0.187E-09   0.856E-10
   40.   0.118E-05   0.603E-06   0.297E-06   0.141E-06   0.640E-07   0.280E-07
0.118E-07   0.478E-08   0.186E-08   0.849E-09
   50.   0.978E-05   0.499E-05   0.245E-05   0.115E-05   0.525E-06   0.229E-06
0.963E-07   0.389E-07   0.151E-07   0.691E-08
   60.   0.673E-04   0.341E-04   0.166E-04   0.782E-05   0.354E-05   0.154E-05
0.646E-06   0.261E-06   0.101E-06   0.461E-07
   70.   0.383E-03   0.193E-03   0.935E-04   0.437E-04   0.197E-04   0.853E-05
0.356E-05   0.143E-05   0.555E-06   0.253E-06
   80.   0.181E-02   0.902E-03   0.434E-03   0.201E-03   0.900E-04   0.388E-04
0.162E-04   0.647E-05   0.250E-05   0.114E-05
   90.   0.707E-02   0.349E-02   0.166E-02   0.764E-03   0.339E-03   0.146E-03
0.602E-04   0.240E-04   0.924E-05   0.419E-05
  100.   0.227E-01   0.111E-01   0.523E-02   0.239E-02   0.105E-02   0.448E-03
0.184E-03   0.732E-04   0.280E-04   0.127E-04
  110.   0.598E-01   0.289E-01   0.135E-01   0.611E-02   0.267E-02   0.113E-02
0.462E-03   0.183E-03   0.698E-04   0.315E-04
  120.   0.128E+00   0.613E-01   0.284E-01   0.128E-01   0.555E-02   0.233E-02
0.949E-03   0.373E-03   0.142E-03   0.639E-04
  130.   0.222E+00   0.105E+00   0.486E-01   0.217E-01   0.937E-02   0.392E-02
0.159E-02   0.623E-03   0.236E-03   0.106E-03
  140.   0.309E+00   0.146E+00   0.671E-01   0.298E-01   0.129E-01   0.536E-02
0.217E-02   0.848E-03   0.321E-03   0.144E-03
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  150.   0.345E+00   0.163E+00   0.748E-01   0.332E-01   0.143E-01   0.595E-02
0.240E-02   0.940E-03   0.355E-03   0.159E-03
  160.   0.309E+00   0.146E+00   0.671E-01   0.298E-01   0.129E-01   0.536E-02
0.217E-02   0.848E-03   0.321E-03   0.144E-03
  170.   0.222E+00   0.105E+00   0.486E-01   0.217E-01   0.937E-02   0.392E-02
0.159E-02   0.623E-03   0.236E-03   0.106E-03
  180.   0.128E+00   0.613E-01   0.284E-01   0.128E-01   0.555E-02   0.233E-02
0.949E-03   0.373E-03   0.142E-03   0.639E-04
  190.   0.598E-01   0.289E-01   0.135E-01   0.611E-02   0.267E-02   0.113E-02
0.462E-03   0.183E-03   0.698E-04   0.315E-04
  200.   0.227E-01   0.111E-01   0.523E-02   0.239E-02   0.105E-02   0.448E-03
0.184E-03   0.732E-04   0.280E-04   0.127E-04
  210.   0.707E-02   0.349E-02   0.166E-02   0.764E-03   0.339E-03   0.146E-03
0.602E-04   0.240E-04   0.924E-05   0.419E-05
  220.   0.181E-02   0.902E-03   0.434E-03   0.201E-03   0.900E-04   0.388E-04
0.162E-04   0.647E-05   0.250E-05   0.114E-05
  230.   0.383E-03   0.193E-03   0.935E-04   0.437E-04   0.197E-04   0.853E-05
0.356E-05   0.143E-05   0.555E-06   0.253E-06
  240.   0.673E-04   0.341E-04   0.166E-04   0.782E-05   0.354E-05   0.154E-05
0.646E-06   0.261E-06   0.101E-06   0.461E-07
  250.   0.978E-05   0.499E-05   0.245E-05   0.115E-05   0.525E-06   0.229E-06
0.963E-07   0.389E-07   0.151E-07   0.691E-08
  260.   0.118E-05   0.603E-06   0.297E-06   0.141E-06   0.640E-07   0.280E-07
0.118E-07   0.478E-08   0.186E-08   0.849E-09
  270.   0.117E-06   0.602E-07   0.297E-07   0.141E-07   0.642E-08   0.282E-08
0.119E-08   0.481E-09   0.187E-09   0.856E-10
  280.   0.961E-08   0.494E-08   0.244E-08   0.116E-08   0.530E-09   0.232E-09
0.980E-10   0.397E-10   0.155E-10   0.708E-11
  290.   0.648E-09   0.334E-09   0.165E-09   0.785E-10   0.358E-10   0.157E-10
0.664E-11   0.269E-11   0.105E-11   0.480E-12
  300.   0.359E-10   0.185E-10   0.915E-11   0.435E-11   0.199E-11   0.874E-12
0.369E-12   0.150E-12   0.583E-13   0.267E-13
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APPENDIX B

APPENDIX B

Detailed Summary of Statistical Analyses

File pldbk.WB1

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL "Significant Modification"
Monitoring for determining Applicable Groundwater Quality Standards

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)	MEASURING POINT ELEV TOIC	SAMPLED INTERVAL*
G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS	G109 23-Aug-93	G109 11-Nov-93	G109 22-Feb-94	G109 18-May-94	G109 25-May-95	G109A 23-Aug-93	G109A 12-Nov-93	G109A 23-Feb-94	G109A 18-May-94	G109A 25-May-95
FIELD DATA														
Bottom of Well<MSL>	n/a	Field	ft											
Depth to Water<BLGS>	n/a	Field	ft											
Depth to Water<BLTOIC>	n/a	Field	ft											
Groundwater Elev <MSL>	n/a	Field	ft											
pH(unfiltered)	n/a	Field	units	8.16 T Upper	6.83	6.71	6.63	6.09		7.03	6.67	6.42	6.11	
pH(unfiltered)	n/a	Field	units	5.47 T Lower	6.83	6.71	6.63	6.09		7.03	6.67	6.42	6.11	
Specific Conductance<unfiltered, umhos/cm 25C>	n/a	Field	umhos	2350.22 Log		1250.00	1210.00	1150.00	1012.00		1139.00	1205.00	1150.00	952.00
Water Temp<deg F>	n/a	Field	deg											
LIST 2														
MISCELLANEOUS CONSTITUENTS														
Alkalinity (total)	n/a	E310.2	mg/l	1522.98 Log	676.00	652.00	703.00		612.00	548.00	605.00	638.00	623.00	
Biological Oxygen Demand (BOD)	n/a	E405.1	mg/l	4.00 M	1.00	0.50	2.00	0.50		1.00	3.00	2.00	2.00	
Chemical Oxygen Demand (COD)	n/a	E410.4	mg/l	50.00 M	15.50	50.00	21.00	10.00		10.00	42.00	25.00	22.00	
Oil (Hexane soluble or equiv)	n/a	E413.1	mg/l	2.50 M	2.50	0.50	2.00	0.50		2.50	0.50	0.50	0.50	
Total Dissolved Solids (TDS)	n/a	E160.1	mg/l	1755.87 X-Log	985.00	774.00	760.00	912.00		670.00	672.00	720.00		
Total Organic Carbon (TOC)	n/a	E415.1	mg/l	4301.02 C Log (x1000)	2.24	14.00	1.30	1.10		1.66	12.00	0.50	7.70	
Total Organic Halogens (TOX)	n/a	E402.0	mg/l	0.11 M	0.01	0.02	0.02	0.02		0.01	0.02	0.02	0.02	
LIST 3														
INORGANIC PARAMETERS														
Aluminum	7429-90-5	E200.7	ug/l	66602.59 Log	990.00	200.00	1300.00	560.00		790.00	630.00	600.00	8090.00	
Aluminum (dis)			ug/l	1210.00 M	1110.00	25.00	25.00	25.00		1060.00	60.00	25.00	25.00	
Ammonia	7664-41-7	E350.2	ug/l	900.00 M	500.00	50.00		130.00	130.00	500.00	170.00		110.00	100.00
Antimony	7440-36-0	E200.7	ug/l	500.00 N	250.00	2.50	2.50	2.50		250.00	2.50	2.50	2.50	
Antimony (dis)			ug/l	250.00 M	250.00	2.50	2.50	2.50		250.00	2.50	2.50	2.50	
Arsenic	7440-38-2	E206.2	ug/l	10.00 M	1.00	1.00	1.00	1.00		1.00	1.00	1.00	7.00	
Arsenic (dis)			ug/l	2.00 N	0.50	1.00	1.00	1.00		0.50	1.00	1.00	1.00	
Barium	7440-39-3	E200.7	ug/l	225180.59 C Log	100.00	140.00	170.00	140.00		100.00	140.00	150.00	200.00	
Barium (dis)			ug/l	33143.15 C Log	100.00	140.00	130.00	140.00		100.00	140.00	140.00	140.00	
Beryllium	7440-41-7	E200.7	ug/l	5.00 M	2.50	0.10	0.10	0.10		2.50	0.10	0.10	2.00	
Beryllium (dis)			ug/l	5.00 N	2.50	0.10	0.10	0.10		2.50	0.10	0.10	0.10	
Boron	7440-42-8	E200.7	ug/l	200.00 M	25.00	50.00	50.00	50.00		25.00	50.00	50.00	50.00	
Boron (dis)			ug/l	98.00 M	25.00	50.00	50.00	50.00		25.00	50.00	50.00	50.00	
Cadmium	7440-43-9	E213.2	ug/l	45.00 M	5.00	2.50	45.00	0.40		5.00	2.50	2.50	26.00	
Cadmium (dis)			ug/l	5.00 M	5.00	0.50	2.50	0.30		5.00	0.10	2.50	0.10	
Calcium	7440-70-2	E200.7	ug/l	3093414.48 Log	198000.00	190000.00	222000.00	219000.00		152000.00	162000.00	178000.00	211000.00	
Calcium (dis)			ug/l	428889.30 Log	188000.00	196000.00	201000.00	198000.00		149000.00	168000.00	181000.00	180000.00	
Chloride	6887-00-6	E325.2	ug/l	87511.86 Log	12000.00	34000.00		25000.00	19000.00	36000.00	30000.00		34000.00	47000.00
Chromium	7440-47-3	E200.7	ug/l	5516.15 C Log	10.00	20.00	330.00	90.00		10.00	40.00	60.00	210.00	
Chromium (dis)			ug/l	100.00 M	10.00	0.10	5.00	5.00		10.00	0.10	5.00	5.00	
Cobalt	7440-48-4	E200.7	ug/l	50.00 M	50.00	5.00	5.00	5.00		50.00	5.00	5.00	5.00	
Cobalt (dis)			ug/l	100.00 N	50.00	5.00	5.00	5.00		50.00	5.00	5.00	5.00	
Copper	7440-50-8	E200.7	ug/l	1887.83 C Log	10.00	10.00	80.00	20.00		10.00	5.00	5.00	30.00	
Copper (dis)			ug/l	20.00 N	10.00	5.00	5.00	5.00		10.00	5.00	5.00	5.00	
Cyanide (Total as Cn-)	57-12-5	E335.3	ug/l	34.00 M	2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	
Fluoride (Total as F-)	7782-41-4	E340.2	ug/l	273.35 Log	[illegible]	50.00	50.00	130.00		120.00	50.00	50.00	100.00	

File pldbk.W81

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL "Significant Modification"
Monitoring for determining Applicable Groundwater Quality Standards

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)	MEASURING POINT ELEV. TOIC	SAMPLED INTERVAL*
G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G109					G109A				
						23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	12-Nov-93	23-Feb-94	18-May-94	25-May-95
Iron (Total)	7439-89-6	E200.7	ug/l	**446696.29**	Log	920.00	1230.00	19100.00	4250.00		2900.00	6560.00	8700.00	56000.00	
Iron (dis)			ug/l	**4530.00**	M	25.00	10.00	10.00	10.00		1150.00	3300.00	4530.00	4160.00	
Lead	7439-92-1	E239.2	ug/l	**41230.83**	C Log	2.50	28.00	956.00	119.00		2.50	30.00	54.00	210.00	
Lead (disl)			ug/l	**4.00**	M	2.50	1.50	4.00	1.50		2.50	1.50	3.00	1.50	
Magnesium	7439-95-4	E200.7	ug/l	**1717282.62**	Log	67000.00	58900.00	76600.00	73600.00		51000.00	52100.00	59800.00	71300.00	
Magnesium (dis)	7439-95-4	E200.7	ug/l	**109108.82**	Log	57000.00	58400.00		63300.00	55200.00	49000.00	54300.00		59400.00	50300.00
Manganese	7439-96-5	E200.7	ug/l	**12381.45**	Log	34.00	50.00	180.00	90.00		185.00	230.00	280.00	780.00	
Manganese (dis)			ug/l	**1479.53**	Log	37.00	40.00	60.00	40.00		67.00	230.00	240.00	260.00	
Mercury	7439-97-6	E245.1	ug/l	**0.40**	M	0.10	0.10	0.10	0.10		0.10	0.10	0.10	0.10	
Mercury (dis)			ug/l	**0.20**	N	0.10	0.10	0.10	0.10		0.10	0.10	0.10	0.10	
Nickel	7440-02-0	E200.7	ug/l	**1757.64**	C Log	20.00	10.00	160.00	60.00		20.00	20.00	40.00	120.00	
Nickel (dis)			ug/l	**40.00**	N	20.00	10.00	10.00	10.00		20.00	10.00	10.00	10.00	
Nitrate (as Nitrogen)	7727-37-9	E353.2	ug/l	**11738.90**	Log	2320.00	2840.00	2840.00	3030.00		1030.00	410.00	1950.00	1170.00	
Potassium	7440-09-7	*V	ug/l	**29005.82**	Log	1000.00	750.00	920.00	670.00		1000.00	1120.00	910.00	1310.00	
Potassium(dis)	7440-09-7	*V	ug/l	**28193.91**	Log	1000.00	600.00		620.00	520.00	1000.00	850.00		760.00	800.00
Selenium	7782-49-2	E270.2	ug/l	**4.00**	N	1.00	2.00	1.00	1.00		1.00	1.00	1.00	1.00	
Selenium (dis)			ug/l	**2.00**	N	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	
Silver	7440-22-4	E200.7	ug/l	**20.00**	M	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Silver (dis)			ug/l	**10.00**	N	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Sodium	7440-23-5	E200.7	ug/l	**164789.66**	Log	8000.00	17800.00	17100.00	17800.00		14000.00	17100.00	19600.00	143000.00	
Sodium(dis)	7440-23-5	E200.7	ug/l	**93020.42**	X-Log	10000.00	14300.00		15600.00		16000.00	17100.00		16100.00	
Sulfates	4808-79-8	E375.2	ug/l	**179373.07**	Log	5000.00	11000.00	5000.00	13000.00		9000.00	5000.00	5000.00	5000.00	
Thallium	7440-28-0	E279.2	ug/l	**200.00**	N	100.00	1.00	1.00	1.00		100.00	1.00	1.00	1.00	
Thallium (dis)			ug/l	**200.00**	N	100.00	1.00	1.00	1.00		100.00	1.00	1.00	1.00	
Tin	7440-31-5	200.7	ug/l	**200.00**	N		100.00	100.00	100.00	100.00		100.00	100.00	100.00	100.00
Tin (dis)			ug/l	**200.00**	N		100.00	100.00	100.00	100.00		100.00	100.00	100.00	100.00
Vanadium	7440-62-2	E200.7	ug/l	**100.00**	M	25.00	25.00	25.00	25.00		25.00	25.00	25.00	25.00	
Vanadium (dis)			ug/l	**50.00**	N	25.00	25.00	25.00	25.00		25.00	25.00	25.00	25.00	
Zinc	7440-66-6	E200.7	ug/l	**622283.32**	Log	8800.00	2830.00	53100.00	5960.00		5050.00	5860.00	9270.00	61200.00	
Zinc (dis)			ug/l	**236072.40**	Log	4630.00	2230.00	5830.00	1890.00		3100.00	3440.00	5120.00	4010.00	

* Analytical Methods for Flame Spectrophotometry, Varian, 1979

LIST 4
ORGANIC CONSTITUENTS

2,4-D,2,4-dichlorophenoxy-acetic acid	94-75-7	SW8260	ug/l	**2.00**	N	1.00	0.25		0.25		1.00	0.25		0.13	
Acetone;2-Propane	67-64-1	SW8270	ug/l	**10.00**	N	2.50	5.00	5.00	5.00		2.50	5.00	5.00	5.00	
Acrolein	107-02-8	SW8080	ug/l	**100.00**	N	50.00	12.50	12.50	12.50		50.00	12.50	12.50	12.50	
Acrylonitrile;2-Propenenitrile	107-13-1	SW8150	ug/l	**10.00**	N	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Alachor*	15972-60-8	SW8015	ug/l	**2.00**	N	1.00	0.50	0.50	0.50		1.00	0.50	0.50	0.50	
Aldicarb; Temik	116-06-3	E619	ug/l	**1.00**	N	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	
Aldrin; Aldrex	*309-00-2*		*ug/l*	***0.50***	*N*	*0.03*	*0.03*	*0.03*	*0.05*		*0.03*	*0.03*	*0.03*	*0.03*	
Atrazine	1912-24-9		ug/l	**3.00**	N	1.50	0.25	0.25	0.25		1.50	0.25	0.25	0.25	
Benzene*	71-43-2		ug/l	**2.80**	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Benzoic Acid	65-85-0		ug/l	**500.00**	N	5.00	250.00	26.00	25.00		5.00	25.00	26.00	25.50	
bis (2-Chloroethoxy) methane	111-91-1		ug/l	**100.00**	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
bis (2-Ethylhexyl) phthalate	117-81-7		ug/l	**72.00**	M	24.00	20.00	29.00	2.00		5.00	2.00	72.00	2.00	
bis Chloromethyl ether	542-88-1		ug/l												
Bromobenzene; Phenyl br[illegible]e	108-86-1		ug/l	**5.00**	N	[illegible].50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL "Significant Modification"
Monitoring for determining Applicable Groundwater Quality Standards

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)	MEASURING POINT ELEV TOIC	SAMPLED INTERVAL*
G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G109					G109A				
						23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	12-Nov-93	23-Feb-94	18-May-94	25-May-95
Bromochloromethane, Chlorobromomethane	74-97-5		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Bromodichloromethane, Dibromochloromethane	75-27-4		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Bromoform, Tribromomethane	75-25-2		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Bromomethane; Methyl bromide	74-83-9		ug/l	10.00	N	0.50	5.00	5.00	5.00		0.50	5.00	5.00	5.00	
Butanol 1,n-butyl alcohol	71-36-3		ug/l	320.00	N	2.50	50.00	50.00	50.00		2.50	50.00	50.00	50.00	
Butanol 1,2;sec-butyl alcohol	78-92-2		ug/l	260.00	N	2.50	50.00	50.00	50.00		2.50	50.00	50.00	50.00	
Butanone, 2-; Methyl ethyl ketone; MEK	73-93-3		ug/l	5.00	N	2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	
Butylbenzene, n-; 1-Phenylbutane	104-51-8		ug/l	5.00	N	1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Butylbenzene, sec-; (1-Methylpropyl)benzene	135-98-8		ug/l	5.00	N	1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Butylbenzene, tert-; (1,1-Dimethylethly)benzene	98-06-6		ug/l	5.00	N	1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Butylbenzyl phthalate	85-68-7		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Carbofuran	1563-66-2		ug/l	10.00	N	0.50	0.50	0.50	5.00		0.50	0.50	0.50	0.50	
Carbon disulfide	75-15-0		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Carbon tetrachloride	56-23-5		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chlordane*	57-74-9		ug/l	1.20	N	0.25	0.25	0.26	0.50		0.25	0.25	0.26	0.25	
Chlorobenzene; Monochlorobenzene	108-90-7		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chlorodibromomethane; Dibromochloromethane	124-48-1		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chloroethane, ethyl chloride	75-00-3		ug/l	10.00	N	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Chloroethyl Vinyl Ether, 2-; (2-Chloroethoxy)ethene	110-75-8		ug/l	10.00	N	1.00	5.00	5.00	5.00		1.00	5.00	5.00	5.00	
Chloroform, Trichloromethane	67-66-3		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chloronaphthalene, 2	91-58-7		ug/l	100.00	N	5.00	50.00	50.00	5.00		5.00	5.00	5.00	5.00	
Chlorotoluene, o-	95-49-8		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chlorotoluene, p-	106-43-4		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Cresol, p-; cresol, 4-methylphenol	106-44-5		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Cumene; (1-Methylethyl)benzene; Isopropylbenzene	98-82-8		ug/l	5.00	N	1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Cymene, p-Isopropyltoluene, Dolcymene	25515-15-1		ug/l	5.00	N	1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
DDD, 1,1'-(2,2-dichloroethylidene)bis[4chlorobenzene]	72-54-8		ug/l	0.25	N X		0.05	0.05	0.10			0.05	0.05	0.05	
DDE,1,1'-(dichloroethenylidene)bis[4chlorobenzene]	72-55-9		ug/l	0.25	N X		0.05	0.05	0.10			0.05	0.05	0.05	
DDT, 1,1'-(2,2,2-Trichloroethylidene)bis[4-chlorbenzene	50-29-3		ug/l	0.25	N	0.05	0.05	0.05	0.10		0.05	0.05	0.05	0.05	
Di-n-butyl pthalate; Dibutyl pthalate	84-74-2		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Dibromo-3-chloropropane, 1,2-, (DBCP)	96-12-8		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloro-2-butene, trans-1,4-	110-57-6		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,2, o-Dichlorobenzene	95-50-1		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,3; m-Dichlorobenzene	541-73-1		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,4; p-Dichlorobenzene	106-46-7		ug/l	3.70	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichlorodifluoromethane; Difluorodichloromethane; Freon 12	75-71-8		ug/l	19.00	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloroethane, 1,1-; Ethylidene chloride	75-34-3		ug/l	31.00	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloroethane, 1,2-; ethylene dichloride*	107-06-2		ug/l	2.50	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloroethylene, 1,1-	75-35-4		ug/l	2.50	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloroethylene, 1,2-	540-59-0		ug/l	150.00	M	0.50	2.50	2.50	2.50		3.90	2.50	5.00	2.50	
Dichloroethylene, cis-1,2-	156-59-0		ug/l	150.00	M	0.50	2.50	2.50	2.50		3.90	2.50	5.00	2.50	
Dichloroethylene, trans-1,2-	156-60-5		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropane, 1,2-*	78-87-5		ug/l	6.00	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropane, 1,3-; Trimethylene dichloride	142-28-9		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropane, 2,2-; Isopropylene chlorde	594-20-7		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, 1,1-; 1,1-Dichloropropylene	563-58-6		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, 1,3-; 1,3-Dichloropropylene	542-75-6		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, cis-1,3-	10060-01-2		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, trans-1,3-	10061-02-6		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dieldrin	60-57-1		ug/l	0.25	N	0.05	0.05	0.05	0.10		0.05	0.05	0.05	0.05	

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G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G109					G109A				
						23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	12-Nov-93	23-Feb-94	18-May-94	25-May-95
Diethyl phthalate	84-66-2		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Difluorobenzene, 1,4-, p-Difluorobenzene	540-36-3		ug/l	5.00	N X		2.50	2.50	2.50			2.50	2.50	2.50	
Dimethyl phthalate	131-11-3		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Dimethylphenol,2,4-	1300-71-6		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Endosulfan I	959-98-8		ug/l	0.12	N X		0.03	0.03	0.05			0.03	0.03	0.03	
Endosulfan II	33213-65-9		ug/l	0.25	N X		0.05	0.05	0.10			0.05	0.05	0.05	
Endosulfan Sulfate	1031-07-8		ug/l	0.25	N X		0.05	0.05	0.10			0.05	0.05	0.05	
Endrin	72-20-8		ug/l	0.25	N	0.05	0.05	0.05	0.10		0.05	0.05	0.05	0.05	
Endrin Aldehyde	7421-93-4		ug/l	0.25	N X		0.05	0.05	0.10			0.05	0.05	0.05	
Endrin Ketone			ug/l	0.25	N X		0.05	0.05	0.10			0.05	0.05	0.05	
Ethyl acetate	141-78-6		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Ethyl Alchohol; Ethanol	64-17-5		ug/l	100.00	N	2.50	50.00	50.00	50.00		2.50	50.00	50.00	50.00	
Ethyl Methacrylate	97-63-2		ug/l	5.00	N	2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	
Ethylbenzene	100-41-4		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Ethylene dibromide (EDB); 1,2-Dibromoethane	106-93-4		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
gamma-BHC; 1,2,3,4,5,6-Hexachlorocyclohexane; Lindane	58-89-9		ug/l	0.50	N	0.03	0.03	0.03	0.05		0.03	0.03	0.03	0.25	
Heptachlor*	76-44-8		ug/l	0.50	N	0.03	0.03	0.03	0.05		0.03	0.03	0.03	0.25	
Heptachlor Epoxide*	1024-57-3		ug/l	0.50	N	0.03	0.03	0.03	0.05		0.03	0.03	0.03	0.25	
Hexachlorobutadiene	87-68-3		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Hexanone, 2-; Methyl butyl ketone	591-78-6		ug/l	10.00	N	0.50	5.00	5.00	5.00		0.50	5.00	5.00	5.00	
Iodomethane, Methyl iodide	74-88-4		ug/l	10.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Isophorone	78-59-1		ug/l	100.00	N	5.00	50.00	50.00	5.00		5.00	5.00	5.00	5.00	
Methoxchlor	72-43-5		ug/l	1.20	N	0.25	0.25	0.26	0.50		0.25	0.25	0.26	0.25	
Methyl chloride, chloromethane	74-87-3		*ug/l*	*10.00*	*N*	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Methyl-2-pentanone, 4-, Methyl isobutyl ketone	108-10-1		ug/l	10.00	N	2.50	5.00	5.00	5.00		2.50	5.00	5.00	5.00	
Methylene bromide; Dibromoethane	74-95-3		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Methylene chloride; Dichloromethane	75-09-2		ug/l	8.00	M	2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	
Naphthalene	91-20-3		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Nitrobenzene	98-95-3		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Nitrophenol, 4-; p-Nitrohenol	100-07-7		ug/l	500.00	N	5.00	250.00	26.00	25.00		5.00	25.00	26.00	25.50	
Parathion; 0,0-Diethyl phosphorothioic acid	56-38-2		ug/l	1.00	N	0.50	0.25	0.25	0.25		0.50	0.25	0.25	0.25	
PCBs, Polychlorinated biphenyls*	1336-36-3		ug/l	2.50	N	0.50	0.50	0.50	1.00		0.50	0.50	0.50	0.50	
Pentachlorophenol*	87-86-5		ug/l	500.00	N	5.00	250.00	26.00	25.00		5.00	25.00	26.00	25.50	
Phenanthrene	85-01-8		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Phenol	108-95-2		ug/l	100.00	N	5.00	50.00	5.00	5.00		5.00	5.00	5.00	5.00	
Propanol, 1-; n-Propyl alcohol	71-23-8		ug/l	100.00	N	2.50	50.00	50.00	50.00		2.50	50.00	50.00	50.00	
Propanol, 2-; isopropyl alcohol	67-63-0		ug/l	160.00	M	2.50	50.00	50.00	50.00		2.50	50.00	50.00	50.00	
Propylbenzene, n-; 1-Phenylpropane	103-65-1		ug/l	5.00	N	1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Silvex; 2-(2,4,5-trichlorophenoxy)propionic acid; 2,4,5-TP	93-72-1		ug/l	1.00	N	0.50	0.13		0.13		0.50	0.13		0.13	
Styrene, Ethenylbenzene	100-42-5		ug/l	10.00	N	0.50	5.00	5.00	5.00		0.50	5.00	5.00	5.00	
Tetrachloroethane, 1,1,1,2-	630-20-6		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Tetrachloroethane, 1,1,2,2-	79-34-5		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Tetrachloroethene, 1,1,2,2-; Tetrachloroethylene*	127-18-4		ug/l	26.00	M	0.50	2.50	2.50	2.50		1.80	2.50	2.50	2.50	
Tetrahydrofuran; Tetramethylene oxide	109-99-9		ug/l	42.00	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Toluene; Methylbenzene	108-88-3		ug/l	20.00	N	10.00	2.50	2.50	2.50		10.00	2.50	2.50	2.50	
Toxaphene	8001-35-2		ug/l	2.50	N	0.25	0.50	0.50	1.00		0.25	0.50	0.50	0.50	
Trichlorobenzene, 1,2,3-	87-61-6		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichlorobenzene, 1,2,4-	120-82-1		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichloroethane, 1,1,1-; Methylchloroform	71-55-6		ug/l	12.00	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichloroethane, 1,1,2-	79-00-5		ug/l	5.00	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL "Significant Modification"
Monitoring for determining Applicable Groundwater Quality Standards

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)	MEASURING POINT ELEV TOIC	SAMPLED INTERVAL*
G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS			G109					G109A				
							23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	12-Nov-93	23-Feb-94	18-May-94	25-May-95
Trichloroethylene, Trichloroethene	79-01-6		ug/l	66.00	M		0.50	2.50	2.50	2.50		1.40	2.50	2.50	2.50	
Trichlorofluoromethane, Fluorotrichloromethane, Freon 11	75-69-4		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichlorophenoxyacetic acid, 2,4,5-, 2,4,5-T	93-76-5		ug/l	1.00	N	X	0.50	0.13		0.13		0.50	0.13		0.13	
Trichloropropane, 1,2,3-	96-18-4		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trimethylbenzene, 1,2,4-, Pseudocumene	95-63-6		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trimethylbenzene, 1,3,5-, Mesitylene	108-67-8		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Vinyl acetate, Ethenyl ester acetic acid	108-05-4		ug/l	10.00	N		0.50	5.00	5.00	5.00		0.50	5.00	5.00	5.00	
Vinyl chloride, Chloroethene*	75-01-4		ug/l	17.00	M		0.50	1.00	1.00	1.00		0.50	1.00	1.00	1.00	
Xylene, m-	108-38-3		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Xylene, o-	95-47-6		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Xylene, p-	106-42-3		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Xylenes	1330-20-7		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	

NOTES:

1) "X" next to AGQS indicates that less than 4 quarters of data was collected

2) "N" next to the AGQS indicates all four quarters of analytical results were below the Reporting Limit (PQL). The lowest PQL was used to determine the AGQS.

3) "C" next to AGQS indicates that Cohens adjustment to the mean was used to determine the Prediction Limit. This was done for samples in which >25% and <50% of the samples are nondetect.

4) "M" next to the AGQS indicates that the maximum recorded value was used to determine the AGQS. This was done for samples in which >50% and <100% of the samples are nondetect

5) "T" next to AGQS indicates that a two-tailed test is appropriate for the AGQS

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G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G113 23-Aug-93	G113 12-Nov-93	G113 22-Feb-94	G113 18-May-94	G113 25-May-95	G113A 23-Aug-93	G113A 11-Nov-93	G113A 22-Feb-94	G113A 18-May-94	G113A 25-May-95
FIELD DATA															
Bottom of Well<MSL>	n/a	Field	ft												
Depth to Water<BLGS>	n/a	Field	ft												
Depth to Water<BLTOIC>	n/a	Field	ft												
Groundwater Elev. <MSL>	n/a	Field	ft												
pH(unfiltered)	n/a	Field	units	8.16	T Upper	7.12	6.79	6.91	6.50		7.49	6.75	6.46	6.32	
pH(unfiltered)	n/a	Field	units	5.47	T Lower	7.12	6.79	6.91	6.50		7.49	6.75	6.46	6.32	
Specific Conductance<unfiltered, umhos/cm 25C>	n/a	Field	umhos	2350.22	Log		1216.00	973.00	1120.00	500.00		1356.00	1140.00	1360.00	625.00
Water Temp<deg. F>	n/a	Field	deg												
LIST 2															
MISCELLANEOUS CONSTITUENTS															
Alkalinity (total)	n/a	E310.2	mg/l	1522.98	Log	604.00	625.00	245.00	438.00		680.00	686.00	771.00	815.00	
Biological Oxygen Demand (BOD)	n/a	E405.1	mg/l	4.00	M	1.00	0.50	4.00	0.50		1.00	3.00	2.00	0.50	
Chemical Oxygen Demand (COD)	n/a	E410.4	mg/l	50.00	M	10.00	46.00	10.00	10.00		10.00	46.00	10.00	10.00	
Oil (Hexane soluble or equiv)	n/a	E413.1	mg/l	2.50	M	2.50	0.50	0.50	1.00		2.50	0.50	0.50	0.50	
Total Dissolved Solids (TDS)	n/a	E160.1	mg/l	1755.87	X-Log	720.00	772.00	416.00	720.00		728.00	812.00	850.00	876.00	
Total Organic Carbon (TOC)	n/a	E415.1	mg/l	4301.02	C Log (x1000)	2.75	14.00	2.50	2.60		2.57	7.80	0.50	4.20	
Total Organic Halogens (TOX)	n/a	E402.0	mg/l	0.11	M	0.01	0.02	0.02	0.02		0.06	0.07	0.11	0.09	
LIST 3															
INORGANIC PARAMETERS															
Aluminum	7429-90-5	E200.7	ug/l	66602.59	Log	1000.00	12200.00	44000.00	28800.00		1000.00	1250.00	440.00	420.00	
Aluminum (dis)			ug/l	1210.00	M	1210.00	50.00	25.00	25.00		1140.00	25.00	25.00	25.00	
Ammonia	7664-41-7	E350.2	ug/l	900.00	M	900.00	140.00		50.00	50.00	200.00	50.00		50.00	50.00
Antimony	7440-36-0	E200.7	ug/l	500.00	N	250.00	2.50	2.50	2.50		250.00	2.50	2.50	2.50	
Antimony (dis)			ug/l	250.00	M	250.00	2.50	8.00	17.00		250.00	2.50	2.50	2.50	
Arsenic	7440-38-2	E206.2	ug/l	10.00	M	1.00	5.00	1.00	10.00		1.00	1.00	1.00	1.00	
Arsenic (dis)			ug/l	2.00	N	0.50	1.00	1.00	1.00		0.50	1.00	1.00	1.00	
Barium	7440-39-3	E200.7	ug/l	225180.59	C Log	100.00	220.00	540.00	500.00		100.00	150.00	140.00	160.00	
Barium (dis)			ug/l	33143.15	C Log	100.00	100.00	50.00	100.00		100.00	140.00	140.00	140.00	
Beryllium	7440-41-7	E200.7	ug/l	5.00	M	2.50	1.00	0.10	5.00		2.50	0.10	0.10	0.10	
Beryllium (dis)			ug/l	5.00	N	2.50	0.10	0.10	0.10		2.50	0.10	0.10	0.10	
Boron	7440-42-8	E200.7	ug/l	200.00	M	25.00	50.00	200.00	140.00		52.00	50.00	50.00	50.00	
Boron (dis)			ug/l	98.00	M	98.00	50.00	50.00	50.00		50.50	50.00	50.00	50.00	
Cadmium	7440-43-9	E213.2	ug/l	45.00	M	5.00	2.50	29.00	0.40		5.00	2.50	2.50	1.30	
Cadmium (dis)			ug/l	5.00	M	5.00	0.10	2.50	0.10		5.00	0.60	2.50	0.10	
Calcium	7440-70-2	E200.7	ug/l	3093414.48	Log	394000.00	419000.00	3180000.00	2600000.00		197000.00	176000.00	196000.00	216000.00	
Calcium (dis)			ug/l	428889.30	Log	152000.00	165000.00	83700.00	153000.00		194000.00	181000.00	193000.00	200000.00	
Chloride	6887-00-6	E325.2	ug/l	87511.86	Log	36000.00	38000.00		34000.00	29000.00	28000.00	25000.00		48000.00	43000.00
Chromium	7440-47-3	E200.7	ug/l	5516.15	C Log	10.00	60.00	180.00	110.00		10.50	60.00	300.00	20.00	
Chromium (dis)			ug/l	100.00	M	10.00	0.10	5.00	5.00		10.00	0.10	100.00	5.00	
Cobalt	7440-48-4	E200.7	ug/l	50.00	M	50.00	10.00	40.00	30.00		50.00	5.00	5.00	5.00	
Cobalt (dis)			ug/l	100.00	N	50.00	5.00	5.00	5.00		50.00	5.00	5.00	5.00	
Copper	7440-50-8	E200.7	ug/l	1887.83	C Log	11.50	50.00	220.00	170.00		10.00	20.00	10.00	10.00	
Copper (dis)			ug/l	20.00	N	10.00	5.00	5.00	5.00		10.00	5.00	5.00	5.00	
Cyanide (Total as Cn-)	57-12-5	E335.3	ug/l	34.00	M	2.50	2.50	19.00	34.00		2.50	2.50	2.50	2.50	
Fluoride (Total as F-)	7782-41-4	E340.2	ug/l	273.35	Log	140.00	50.00	50.00	200.00		110.00	50.00	50.00	110.00	

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G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G113					G113A				
						23-Aug-93	12-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95
Iron (Total)	7439-89-6	E200.7	ug/l	**446696.29**	Log	1500.00	16850.00	147000.00	86300.00		150.00	2550.00	3320.00	1500.00	
Iron (dis)			ug/l	**4530.00**	M	25.00	10.00	10.00	10.00		25.00	10.00	90.00	80.00	
Lead	7439-92-1	E239.2	ug/l	**41230.83**	C Log	4.35	49.00	1.50	174.00		2.50	17.00	20.00	1.50	
Lead (disl)			ug/l	**4.00**	M	2.50	1.50	1.50	1.50		2.50	1.50	1.50	1.50	
Magnesium	7439-95-4	E200.7	ug/l	**1717282.62**	Log	188000.00	411000.00	1790000.00	1350000.00		76000.00	75900.00	82400.00	96700.00	
Magnesium (dis)	7439-95-4	E200.7	ug/l	**109108.82**	Log	67000.00	67800.00		66100.00	56500.00	74000.00	76900.00		86600.00	67300.00
Manganese	7439-96-5	E200.7	ug/l	**12381.45**	Log	765.00	1470.00	6720.00	4870.00		280.00	250.00	220.00	240.00	
Manganese (dis)			ug/l	**1479.53**	Log	80.00	70.00	5.00	40.00		281.00	220.00	190.00	180.00	
Mercury	7439-97-6	E245.1	ug/l	**0.40**	M	0.10	0.10	0.40	0.20		0.10	0.10	0.10	0.10	
Mercury (dis)			ug/l	**0.20**	N	0.10	0.10	0.10	0.10		0.10	0.10	0.10	0.10	
Nickel	7440-02-0	E200.7	ug/l	**1757.64**	C Log	20.00	40.00	150.00	80.00		20.00	40.00	160.00	20.00	
Nickel (dis)			ug/l	**40.00**	N	20.00	10.00	10.00	10.00		20.00	10.00	10.00	10.00	
Nitrate (as Nitrogen)	7727-37-9	E353.2	ug/l	**11738.90**	Log	5410.00	3360.00	5640.00	5660.00		3070.00	2580.00	2980.00	2660.00	
Potassium	7440-09-7	*V	ug/l	**29005.82**	Log	8180.00	9290.00	10300.00	10200.00		5000.00	5070.00	4140.00	4310.00	
Potassium(dis)	7440-09-7	*V	ug/l	**28193.91**	Log	8180.00	7160.00		7330.00	7090.00	6000.00	4710.00		4110.00	5460.00
Selenium	7782-49-2	E270.2	ug/l	**4.00**	N	1.00	2.00	1.00	1.00		1.00	2.00	1.00	1.00	
Selenium (dis)			ug/l	**2.00**	N	1.00	1.00	1.00	1.00		1.00	1.00	1.00	1.00	
Silver	7440-22-4	E200.7	ug/l	**20.00**	M	5.00	5.00	20.00	5.00		5.00	5.00	5.00	5.00	
Silver (dis)			ug/l	**10.00**	N	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Sodium	7440-23-5	E200.7	ug/l	**164789.66**	Log	24000.00	29300.00	32100.00	34600.00		31000.00	25800.00	25400.00	26700.00	
Sodium(dis)	7440-23-5	E200.7	ug/l	**93020.42**	X-Log	26000.00	26500.00		29500.00		36000.00	25800.00		27500.00	
Sulfates	4808-79-8	E375.2	ug/l	**179373.07**	Log	56000.00	46000.00	34000.00	49000.00		65000.00	30000.00	28000.00	27000.00	
Thallium	7440-28-0	E279.2	ug/l	**200.00**	N	100.00	1.00	1.00	1.00		100.00	1.00	1.00	1.00	
Thallium (dis)			ug/l	**200.00**	N	100.00	1.00	1.00	1.00		100.00	1.00	1.00	1.00	
Tin	7440-31-5	200.7	ug/l	**200.00**	N		100.00	100.00	100.00	100.00		100.00	100.00	100.00	100.00
Tin (dis)			ug/l	**200.00**	N		100.00	100.00	100.00	100.00		100.00	100.00	100.00	100.00
Vanadium	7440-62-2	E200.7	ug/l	**100.00**	M	25.00	25.00	100.00	70.00		25.00	25.00	25.00	25.00	
Vanadium (dis)			ug/l	**50.00**	N	25.00	25.00	25.00	25.00		25.00	25.00	25.00	25.00	
Zinc	7440-66-6	E200.7	ug/l	**622283.32**	Log	4600.00	1850.00	8030.00	3990.00		862.00	1340.00	1095.00	290.00	
Zinc (dis)			ug/l	**236072.40**	Log	498.00	440.00	380.00	320.00		665.00	860.00	1500.00	150.00	

* Analytical Methods for Flame Spectrophotometry, Varian, 1979

LIST 4
ORGANIC CONSTITUENTS

2,4-D,2,4-dichlorophenoxy-acetic acid	94-75-7	SW8260	ug/l	**2.00**	N	1.00	0.25		0.25		1.00	0.25		0.25	
Acetone;2-Propane	67-64-1	SW8270	ug/l	**10.00**	N	2.50	5.00	5.00	5.00		2.50	5.00	5.00	5.00	
Acrolein	107-02-8	SW8080	ug/l	**100.00**	N	50.00	12.50	12.50	12.50		50.00	12.50	12.50	12.50	
Acrylonitrile;2-Propenenitrile	107-13-1	SW8150	ug/l	**10.00**	N	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Alachor*	15972-60-8	SW8015	ug/l	**2.00**	N	1.00	0.50	0.50	0.50		1.00	0.50	0.50	0.50	
Aldicarb; Temik	116-06-3	E619	ug/l	**1.00**	N	0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	
Aldrin; Aldrex	309-00-2		ug/l	**0.50**	N	0.03	0.03	0.03	0.25		0.03	0.03	0.03	0.06	
Atrazine	1912-24-9		ug/l	**3.00**	N	1.50	0.25	0.25	0.25		1.50	0.25	0.25	0.25	
Benzene*	71-43-2		ug/l	**2.80**	M	0.50	2.50	2.50	2.50		2.80	2.50	2.50	2.50	
Benzoic Acid	65-85-0		ug/l	**500.00**	N	5.00	26.50	25.50	26.00		5.00	25.00	25.00	25.00	
bis (2-Chloroethoxy) methane	111-91-1		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
bis (2-Ethylhexyl) phthalate	117-81-7		ug/l	**72.00**	M	5.00	2.10	31.00	2.00		5.00	2.00	63.00	2.00	
bis Chloromethyl ether	542-88-1		ug/l												
Bromobenzene; Phenyl bromide	108-86-1		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	

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							23-Aug-93	12-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95
Bromochloromethane, Chlorobromomethane	74-97-5		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Bromodichloromethane, Dibromochloromethane	75-27-4		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Bromoform, Tribromomethane	75-25-2		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Bromomethane; Methyl bromide	74-83-9		ug/l	10.00	N		0.50	5.00	5.00	5.00		0.50	5.00	5.00	5.00	
Butanol 1,n-butyl alcohol	71-36-3		ug/l	320.00	N		2.50	50.00	50.00	50.00		2.50	160.00	50.00	50.00	
Butanol 1,2,sec-butyl alcohol	78-92-2		ug/l	260.00	N		2.50	50.00	50.00	50.00		2.50	130.00	50.00	50.00	
Butanone, 2-, Methyl ethyl ketone, MEK	73-93-3		ug/l	5.00	N		2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	
Butylbenzene, n-; 1-Phenylbutane	104-51-8		ug/l	5.00	N		1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Butylbenzene, sec-; (1-Methylpropyl)benzene	135-98-8		ug/l	5.00	N		1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Butylbenzene, tert-; (1,1-Dimethylethly)benzene	98-06-6		ug/l	5.00	N		1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Butylbenzyl phthalate	85-68-7		ug/l	100.00	N		5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Carbofuran	1563-66-2		ug/l	10.00	N		0.50	0.50	0.50	0.50		0.50	0.50	0.50	0.50	
Carbon disulfide	75-15-0		ug/l	5.00	N		0.50	2.50	[illegible]	2.50		0.50	2.50	2.50	2.50	
Carbon tetrachloride	56-23-5		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chlordane*	57-74-9		ug/l	1.20	N		0.25	0.25	0.26	0.25		0.25	0.25	0.25	0.60	
Chlorobenzene; Monochlorobenzene	108-90-7		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chlorodibromomethane; Dibromochloromethane	124-48-1		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chloroethane, ethyl chloride	75-00-3		ug/l	10.00	N		5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Chloroethyl Vinyl Ether, 2-, (2-Chloroethoxy)ethene	110-75-8		ug/l	10.00	N		1.00	5.00	5.00	5.00		1.00	5.00	5.00	5.00	
Chloroform, Trichloromethane	67-66-3		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chloronaphthalene, 2	91-58-7		ug/l	100.00	N		5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Chlorotoluene, o-	95-49-8		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Chlorotoluene, p-	106-43-4		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Cresol, p-; cresol, 4-methylphenol	106-44-5		ug/l	100.00	N		5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Cumene; (1-Methylethyl)benzene; Isopropylbenzene	98-82-8		ug/l	5.00	N		1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Cymene; p-Isopropyltoluene, Dolcymene	25515-15-1		ug/l	5.00	N		1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
DDD, 1,1'-(2,2-dichloroethylidene)bis[4chlorobenzene]	72-54-8		ug/l	0.25	N	X		0.05	0.05	0.05			0.05	0.05	0.13	
DDE;1,1'-(dichloroethenylidene)bis[4chlorobenzene]	72-55-9		ug/l	0.25	N	X		0.05	0.05	0.05			0.05	0.05	0.13	
DDT; 1,1'-(2,2,2-Trichloroethylidene)bis[4-chlorbenzene	50-29-3		ug/l	0.25	N		0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.13	
Di-n-butyl pthalate, Dibutyl pthalate	84-74-2		ug/l	100.00	N		5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloro-2-butene, trans-1,4-	110-57-6		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,2; o-Dichlorobenzene	95-50-1		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,3; m-Dichlorobenzene	541-73-1		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,4; p-Dichlorobenzene	106-46-7		ug/l	3.70	M		0.50	2.50	2.50	2.50		3.70	2.50	2.50	2.50	
Dichlorodifluoromethane; Difluorodichloromethane; Freon 12	75-71-8		ug/l	19.00	M		0.50	2.50	2.50	2.50		10.00	19.00	2.50	2.50	
Dichloroethane, 1,1-; Ethylidene chloride	75-34-3		ug/l	31.00	M		0.50	2.50	2.50	2.50		31.00	29.00	24.00	29.00	
Dichloroethane, 1,2-; ethylene dichloride*	107-06-2		ug/l	2.50	M		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloroethylene, 1,1-	75-35-4		ug/l	2.50	M		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloroethylene, 1,2-	540-59-0		ug/l	150.00	M		0.50	2.50	2.50	2.50		130.00	115.00	110.00	150.00	
Dichloroethylene, cis-1,2-	156-59-0		ug/l	150.00	M		0.50	2.50	2.50	2.50		130.00	115.00	110.00	150.00	
Dichloroethylene, trans-1,2-	156-60-5		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropane, 1,2-*	78-87-5		ug/l	6.00	M		0.50	2.50	2.50	2.50		4.80	6.00	2.50	2.50	
Dichloropropane, 1,3-; Trimethylene dichloride	142-28-9		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropane, 2,2-; Isopropylene chloride	594-20-7		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, 1,1-; 1,1-Dichloropropylene	563-58-6		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, 1,3-; 1,3-Dichloropropylene	542-75-6		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, cis-1,3-	10060-01-2		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dichloropropene, trans-1,3-	10061-02-6		ug/l	5.00	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Dieldrin	60-57-1		ug/l	0.25	N		[illegible]	0.05	0.05	0.05		0.05	0.05	0.05	0.13	

File pldbk WBI

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL "Significant Modification"
Monitoring for determining Applicable Groundwater Quality Standards

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)	MEASURING POINT ELEV. TOIC	SAMPLED INTERVAL*
G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G113					G113A				
						23-Aug-93	12-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95
Diethyl phthalate	84-66-2		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Difluorobenzene, 1,4-, p-Difluorobenzene	540-36-3		ug/l	**5.00**	N X		2.50	2.50	2.50			2.50	2.50	2.50	
Dimethyl phthalate	131-11-3		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Dimethylphenol,2,4-	1300-71-6		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Endosulfan I	959-98-8		ug/l	**0.12**	N X		0.03	0.03	0.03			0.03	0.03	0.06	
Endosulfan II	33213-65-9		ug/l	**0.25**	N X		0.05	0.05	0.05			0.05	0.05	0.13	
Endosulfan Sulfate	1031-07-8		ug/l	**0.25**	N X		0.05	0.05	0.05			0.05	0.05	0.13	
Endrin	72-20-8		ug/l	**0.25**	N	0.05	0.05	0.05	0.05		0.05	0.05	0.05	0.13	
Endrin Aldehyde	7421-93-4		ug/l	**0.25**	N X		0.05	0.05	0.05			0.05	0.05	0.13	
Endrin Ketone			ug/l	**0.25**	N X		0.05	0.05	0.05			0.05	0.05	0.13	
Ethyl acetate	141-78-6		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Ethyl Alchohol, Ethanol	64-17-5		ug/l	**100.00**	N	2.50	50.00	50.00	50.00		2.50	50.00	50.00	50.00	
Ethyl Methacrylate	97-63-2		ug/l	**5.00**	N	2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	
Ethylbenzene	100-41-4		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Ethylene dibromide (EDB); 1,2-Dibromoethane	106-93-4		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
gamma-BHC; 1,2,3,4,5,6-Hexachlorocyclohexane; Lindane	58-89-9		ug/l	**0.50**	N	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.06	
Heptachlor*	76-44-8		ug/l	**0.50**	N	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.06	
Heptachlor Epoxide*	1024-57-3		ug/l	**0.50**	N	0.03	0.03	0.03	0.03		0.03	0.03	0.03	0.06	
Hexachlorobutadiene	87-68-3		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Hexanone, 2-; Methyl butyl ketone	591-78-6		ug/l	**10.00**	N	0.50	5.00	2.50	2.50		0.50	5.00	5.00	5.00	
Iodomethane; Methyl iodide	74-88-4		ug/l	**10.00**	N	0.50	2.50	5.00	5.00		0.50	2.50	2.50	2.50	
Isophorone	78-59-1		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Methoxchlor	72-43-5		ug/l	**1.20**	N	0.25	0.25	0.05	0.05		0.25	0.25	0.25	0.60	
Methyl chloride; chloromethane	74-87-3		ug/l	**10.00**	N	5.00	5.00	5.00	5.00		5.00	5.00	5.00	5.00	
Methyl-2-pentanone, 4-; Methyl isobutyl ketone	108-10-1		ug/l	**10.00**	N	2.50	5.00	5.00	5.00		2.50	5.00	5.00	5.00	
Methylene bromide, Dibromoethane	74-95-3		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Methylene chloride, Dichloromethane	75-09-2		ug/l	**8.00**	M	2.50	2.50	2.50	2.50		2.50	2.50	2.50	2.50	
Naphthalene	91-20-3		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Nitrobenzene	98-95-3		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Nitrophenol, 4-; p-Nitrohenol	100-07-7		ug/l	**500.00**	N	5.00	26.50	25.50	26.00		5.00	25.00	25.00	25.00	
Parathion, 0,0-Diethyl phosphorothoic acid	56-38-2		ug/l	**1.00**	N	0.50	0.25	0.25	0.25		0.50	0.25	0.25	0.25	
PCBs, Polychlorinated biphenyls*	1336-36-3		ug/l	**2.50**	N	0.50	0.50	0.50	0.50		0.50	0.50	0.50	1.25	
Pentachlorophenol*	87-86-5		ug/l	**500.00**	N	5.00	26.50	25.50	26.00		5.00	25.00	25.00	25.00	
Phenanthrene	85-01-8		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Phenol	108-95-2		ug/l	**100.00**	N	5.00	5.50	5.00	5.00		5.00	5.00	5.00	5.00	
Propanol, 1-; n-Propyl alcohol	71-23-8		ug/l	**100.00**	N	2.50	50.00	50.00	50.00		2.50	50.00	50.00	50.00	
Propanol, 2-; isopropyl alcohol	67-63-0		ug/l	**160.00**	M	2.50	50.00	50.00	50.00		2.50	160.00	50.00	50.00	
Propylbenzene, n-; 1-Phenylpropane	103-65-1		ug/l	**5.00**	N	1.00	2.50	2.50	2.50		1.00	2.50	2.50	2.50	
Silvex; 2-(2,4,5-trichlorophenoxy)propionic acid, 2,4,5-TP	93-72-1		ug/l	**1.00**	N	0.50	0.13		0.13		0.50	0.13		0.13	
Styrene; Ethenylbenzene	100-42-5		ug/l	**10.00**	N	0.50	5.00	5.00	5.00		0.50	5.00	5.00	5.00	
Tetrachloroethane, 1,1,1,2-	630-20-6		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Tetrachloroethane, 1,1,2,2-	79-34-5		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Tetrachloroethene, 1,1,2,2-; Tetrachloroethylene*	127-18-4		ug/l	**26.00**	M	0.50	2.50	2.50	2.50		22.00	25.00	20.00	26.00	
Tetrahydrofuran; Tetramethylene oxide	109-99-9		ug/l	**42.00**	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Toluene; Methylbenzene	108-88-3		ug/l	**20.00**	N	10.00	2.50	2.50	2.50		10.00	2.50	2.50	2.50	
Toxaphene	8001-35-2		ug/l	**2.50**	N	0.25	0.50	0.50	0.50		0.25	0.50	0.50	1.25	
Trichlorobenzene, 1,2,3-	87-61-6		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichlorobenzene, 1,2,4-	120-82-1		ug/l	**5.00**	N	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichloroethane, 1,1,1-; Methylchloroform	71-55-6		ug/l	**12.00**	M	0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichloroethane, 1,1,2-	79-00-5		ug/l	**5.00**	N	-	2.50	2.50	2.50		0.50	2.50	2.50	2.50	

File pldbk W81

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
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G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS			G113					G113A				
							23-Aug-93	12-Nov-93	22-Feb-94	18-May-94	25-May-95	23-Aug-93	11-Nov-93	22-Feb-94	18-May-94	25-May-95
Trichloroethylene, Trichloroethene	79-01-6		ug/l	**66.00**	M		0.50	2.50	2.50	2.50		52.00	46.00	49.00	66.00	
Trichlorofluoromethane, Fluorotrichloromethane, Freon 11	75-69-4		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trichlorophenoxyacetic acid, 2,4,5-, 2,4,5-T	93-76-5		ug/l	**1.00**	N	X	0.50	0.13		0.13		0.50	0.13		0.13	
Trichloropropane, 1,2,3-	96-18-4		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trimethylbenzene, 1,2,4-, Pseudocumene	95-63-6		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Trimethylbenzene, 1,3,5-, Mesitylene	108-67-8		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Vinyl acetate, Ethenyl ester acetic acid	108-05-4		ug/l	**10.00**	N		0.50	5.00	5.00	5.00		0.50	5.00	5.00	5.00	
Vinyl chloride, Chloroethene*	75-01-4		ug/l	**17.00**	M		0.50	1.00	1.00	1.00		17.00	9.00	16.00	1.00	
Xylene, m-	108-38-3		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Xylene, o-	95-47-6		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Xylene, p-	106-42-3		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	
Xylenes	1330-20-7		ug/l	**5.00**	N		0.50	2.50	2.50	2.50		0.50	2.50	2.50	2.50	

NOTES:

1) "X" next to AGQS indicates that less than 4 quarters of data was collected

2) "N" next to the AGQS indicates all four quarters of analytical results were below the Reporting Limit (PQL). The lowest PQL was used to determine the AGQS.

3) "C" next to AGQS indicates that Cohens adjustment to the mean was used to determine the Prediction Limit. This was done for samples in which >25% and <50% of the samples are nondetect.

4) "M" next to the AGQS indicates that the maximum recorded value was used to determine the AGQS. This was done for samples in which >50% and <100% of the samples are nondetect

5) "T" next to AGQS indicates that a two-tailed test is appropriate for the AGQS

File pldbk.WB1

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL "Significant Modification"
Monitoring for determining Applicable Groundwater Quality Standards

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G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-693
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G120B 23-Aug-93	11-Nov-93	23-Feb-94	18-May-94	25-May-95
FIELD DATA										
Bottom of Well<MSL>	n/a	Field	ft							
Depth to Water<BLGS>	n/a	Field	ft							
Depth to Water<BLTOIC>	n/a	Field	ft							
Groundwater Elev. <MSL>	n/a	Field	ft							
pH(unfiltered)	n/a	Field	units	8.16 T	Upper	7.44	7.27	7.84	6.92	
pH(unfiltered)	n/a	Field	units	5.47 T	Lower	7.44	7.27	7.84	6.92	
Specific Conductance<unfiltered, umhos/cm 25C>	n/a	Field	umhos	2350.22	Log		571.00	565.00	550.00	523.00
Water Temp<deg. F>	n/a	Field	deg							
LIST 2										
MISCELLANEOUS CONSTITUENTS										
Alkalinity (total)	n/a	E310.2	mg/l	1522.98	Log	270.00	264.00	263.00	253.00	
Biological Oxygen Demand (BOD)	n/a	E405.1	mg/l	4.00 M		1.00	0.50	0.50	0.50	
Chemical Oxygen Demand (COD)	n/a	E410.4	mg/l	50.00 M		10.00	10.00	10.00	10.00	
Oil (Hexane soluble or equiv)	n/a	E413.1	mg/l	2.50 M		2.50	1.00	2.00	1.00	
Total Dissolved Solids (TDS)	n/a	E160.1	mg/l	1755.87	X-Log	305.00	324.00	326.00	328.00	
Total Organic Carbon (TOC)	n/a	E415.1	mg/l	4301.02 C	Log (x1000)	1.00	1.40	0.50	0.50	
Total Organic Halogens (TOX)	n/a	E402.0	mg/l	0.11 M		0.05	0.02	0.02	0.05	
LIST 3										
INORGANIC PARAMETERS										
Aluminum	7429-90-5	E200.7	ug/l	66602.59	Log	410.00	700.00	870.00	150.00	
Aluminum (dis)			ug/l	1210.00 M		380.00	25.00	25.00	25.00	
Ammonia	7664-41-7	E350.2	ug/l	900.00 M		500.00	50.00		50.00	50.00
Antimony	7440-36-0	E200.7	ug/l	500.00 N		250.00	2.50	2.50	2.50	
Antimony (dis)			ug/l	250.00 M		250.00	2.50	2.50	5.00	
Arsenic	7440-38-2	E206.2	ug/l	10.00 M		1.00	1.00	1.00	1.00	
Arsenic (dis)			ug/l	2.00 N		0.50	1.00	1.00	1.00	
Barium	7440-39-3	E200.7	ug/l	225180.59 C	Log	100.00	110.00	100.00	90.00	
Barium (dis)			ug/l	33143.15 C	Log	100.00	80.00	80.00	80.00	
Beryllium	7440-41-7	E200.7	ug/l	5.00 M		2.50	0.10	0.10	0.10	
Beryllium (dis)			ug/l	5.00 N		2.50	0.10	0.10	0.10	
Boron	7440-42-8	E200.7	ug/l	200.00 M		25.00	50.00	50.00	50.00	
Boron (dis)			ug/l	98.00 M		25.00	50.00	50.00	50.00	
Cadmium	7440-43-9	E213.2	ug/l	45.00 M		5.00	2.50	2.50	0.40	
Cadmium (dis)			ug/l	5.00 M		5.00	0.10	2.50	0.10	
Calcium	7440-70-2	E200.7	ug/l	3093414.48	Log	71000.00	76000.00	70000.00	68800.00	
Calcium (dis)			ug/l	428889.30	Log	70000.00	67300.00	67400.00	66300.00	
Chloride	6887-00-6	E325.2	ug/l	87511.86	Log	14000.00	12000.00		13000.00	14000.00
Chromium	7440-47-3	E200.7	ug/l	5516.15 C	Log	10.00	190.00	5.00	5.00	
Chromium (dis)			ug/l	100.00 M		10.00	1.10	5.00	5.00	
Cobalt	7440-48-4	E200.7	ug/l	50.00 M		50.00	5.00	5.00	5.00	
Cobalt (dis)			ug/l	100.00 N		50.00	5.00	5.00	5.00	
Copper	7440-50-8	E200.7	ug/l	1887.83 C	Log	10.00	10.00	5.00	5.00	
Copper (dis)			ug/l	20.00 N		10.00	5.00	5.00	5.00	
Cyanide (Total as Cn-)	57-12-5	E335.3	ug/l	34.00 M		2.50	2.50	2.50	2.50	
Fluoride (Total as F-)	7782-41-4	E340.2	ug/l	273.35	Log	110.00	50.00	50.00	100.00	

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G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	*802387.9*	*2001608.9*	*D*	*758.44*	*608-625*

PARAMETER	CAS Number	Method	UNITS	AGQS		G120B 23-Aug-93	11-Nov-93	23-Feb-94	18-May-94	25-May-95
Iron (Total)	7439-89-6	E200.7	ug/l	**446696.29**	Log	260.00	2560.00	2080.00	470.00	
Iron (dis)			ug/l	**4530.00**	M	45.00	150.00	320.00	90.00	
Lead	7439-92-1	E239.2	ug/l	**41230.83**	C Log	2.50	8.00	4.00	3.00	
Lead (dis)			ug/l	**4.00**	M	3.50	1.50	1.50	1.50	
Magnesium	7439-95-4	E200.7	ug/l	**1717282.62**	Log	38000.00	37800.00	36700.00	37200.00	
Magnesium (dis)	7439-95-4	E200.7	ug/l	**109108.82**	Log	37000.00	36300.00		37800.00	36900.00
Manganese	7439-96-5	E200.7	ug/l	**12381.45**	Log	22.00	70.00	100.00	50.00	
Manganese (dis)			ug/l	**1479.53**	Log	20.00	20.00	30.00	5.00	
Mercury	7439-97-6	E245.1	ug/l	**0.40**	M	0.10	0.10	0.10	0.10	
Mercury (dis)			ug/l	**0.20**	N	0.10	0.10	0.10	0.10	
Nickel	7440-02-0	E200.7	ug/l	**1757.64**	C Log	20.00	90.00	10.00	30.00	
Nickel (dis)			ug/l	**40.00**	N	20.00	10.00	10.00	10.00	
Nitrate (as Nitrogen)	7727-37-9	E353.2	ug/l	**11738.90**	Log	1780.00	2320.00	2590.00	2390.00	
Potassium	*7440-09-7*	**V*	*ug/l*	***29005.82***	*Log*	*2000.00*	*2250.00*	*2050.00*	*4050.00*	
Potassium(dis)	7440-09-7	*V	ug/l	**28193.91**	Log	2000.00	1400.00		3390.00	1700.00
Selenium	7782-49-2	E270.2	ug/l	**4.00**	N	1.00	1.00	1.00	1.00	
Selenium (dis)			ug/l	**2.00**	N	1.00	1.00	1.00	1.00	
Silver	7440-22-4	E200.7	ug/l	**20.00**	M	5.00	5.00	5.00	5.00	
Silver (dis)			ug/l	**10.00**	N	5.00	5.00	5.00	5.00	
Sodium	7440-23-5	E200.7	ug/l	**164789.66**	Log	4000.00	4940.00	4200.00	5380.00	
Sodium(dis)	7440-23-5	E200.7	ug/l	**93020.42**	X-Log	6000.00	4160.00		5690.00	
Sulfates	4808-79-8	E375.2	ug/l	**179373.07**	Log	22000.00	23000.00	24000.00	25000.00	
Thallium	7440-28-0	E279.2	ug/l	**200.00**	N	100.00	1.00	1.00	1.00	
Thallium (dis)			ug/l	**200.00**	N	100.00	1.00	1.00	1.00	
Tin	7440-31-5	200.7	ug/l	**200.00**	N		100.00	100.00	100.00	100.00
Tin (dis)			ug/l	**200.00**	N		100.00	100.00	100.00	100.00
Vanadium	*7440-62-2*	*E200.7*	*ug/l*	***100.00***	*M*	*25.00*	*25.00*	*25.00*	*25.00*	
Vanadium (dis)			ug/l	**50.00**	N	25.00	25.00	25.00	25.00	
Zinc	7440-66-6	E200.7	ug/l	**622283.32**	Log	20.00	310.00	20.00	60.00	
Zinc (dis)			ug/l	**236072.40**	Log	20.00	5.00	5.00	5.00	

* Analytical Methods for Flame Spectrophotometry, Varian, 1979

LIST 4
ORGANIC CONSTITUENTS

2,4-D;2,4-dichlorophenoxy-acetic acid	94-75-7	SW8260	ug/l	**2.00**	N	1.00	0.13		0.25	
Acetone;2-Propane	67-64-1	SW8270	ug/l	**10.00**	N	2.50	5.00	5.00	5.00	
Acrolein	107-02-8	SW8080	ug/l	**100.00**	N	50.00	12.50	12.50	12.50	
Acrylonitrile,2-Propenenitrile	107-13-1	SW8150	ug/l	**10.00**	N	5.00	5.00	5.00	5.00	
Alachor*	15972-60-8	SW8015	ug/l	**2.00**	N	1.00	0.50	0.50	0.50	
Aldicarb; Temik	116-06-3	E619	ug/l	**1.00**	N	0.50	0.50	0.50	0.50	
Aldrin; Aldrex	309-00-2		ug/l	**0.50**	N	0.03	0.03	0.03	0.03	
Atrazine	1912-24-9		ug/l	**3.00**	N	1.50	0.25	0.25	0.25	
Benzene*	71-43-2		ug/l	**2.80**	M	0.50	2.50	2.50	2.50	
Benzoic Acid	65-85-0		ug/l	**500.00**	N	5.00	25.00	26.50	25.00	
bis (2-Chloroethoxy) methane	*111-91-1*		*ug/l*	***100.00***	*N*	*5.00*	*5.00*	*5.50*	*5.00*	
bis (2-Ethylhexyl) phthalate	117-81-7		ug/l	**72.00**	M	5.00	2.00	41.00	2.00	
bis Chloromethyl ether	542-88-1		ug/l							
Bromobenzene; Phenyl bromide	108-86-1		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	

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G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G120B 23-Aug-93	11-Nov-93	23-Feb-94	18-May-94	25-May-95
Bromochloromethane, Chlorobromomethane	74-97-5		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Bromodichloromethane, Dibromochloromethane	75-27-4		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Bromoform, Tribromomethane	75-25-2		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Bromomethane, Methyl bromide	74-83-9		ug/l	**10.00**	N	0.50	5.00	5.00	5.00	
Butanol 1,n-butyl alcohol	71-36-3		ug/l	**320.00**	N	2.50	50.00	50.00	50.00	
Butanol 1,2,sec-butyl alcohol	78-92-2		ug/l	**260.00**	N	2.50	50.00	50.00	50.00	
Butanone, 2-, Methyl ethyl ketone; MEK	73-93-3		ug/l	**5.00**	N	2.50	2.50	2.50	2.50	
Butylbenzene, n-; 1-Phenylbutane	104-51-8		ug/l	**5.00**	N	1.00	2.50	2.50	2.50	
Butylbenzene, sec-; (1-Methylpropyl)benzene	135-98-8		ug/l	**5.00**	N	1.00	2.50	2.50	2.50	
Butylbenzene, tert-; (1,1-Dimethylethly)benzene	98-06-6		ug/l	**5.00**	N	1.00	2.50	2.50	2.50	
Butylbenzyl phthalate	85-68-7		ug/l	**100.00**	N	5.00	5.00	5.00	5.00	
Carbofuran	1563-66-2		ug/l	**10.00**	N	0.50	0.50	0.50	0.50	
Carbon disulfide	75-15-0		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Carbon tetrachloride	56-23-5		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Chlordane*	57-74-9		ug/l	**1.20**	N	0.25	0.25	0.27	0.25	
Chlorobenzene; Monochlorobenzene	108-90-7		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Chlorodibromomethane, Dibromochloromethane	124-48-1		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Chloroethane, ethyl chloride	75-00-3		ug/l	**10.00**	N	5.00	5.00	5.00	5.00	
Chloroethyl Vinyl Ether, 2-; (2-Chloroethoxy)ethene	110-75-8		ug/l	**10.00**	N	1.00	5.00	5.00	5.00	
Chloroform; Trichloromethane	67-66-3		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Chloronaphthalene, 2	91-58-7		ug/l	**100.00**	N	5.00	5.00	5.00	5.00	
Chlorotoluene, o-	95-49-8		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Chlorotoluene, p-	106-43-4		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Cresol, p-; cresol, 4-methylphenol	106-44-5		ug/l	**100.00**	N	5.00	5.00	5.50	5.00	
Cumene; (1-Methylethyl)benzene; Isopropylbenzene	98-82-8		ug/l	**5.00**	N	1.00	2.50	2.50	2.50	
Cymene; p-Isopropyltoluene, Dolcymene	25515-15-1		ug/l	**5.00**	N	1.00	2.50	2.50	2.50	
DDD; 1,1'-(2,2-dichloroethylidene)bis[4chlorobenzene]	72-54-8		ug/l	**0.25**	N X		0.05	0.05	0.05	
DDE,1,1'-(dichloroethenylidene)bis[4chlorobenzene]	72-55-9		ug/l	**0.25**	N X		0.05	0.05	0.05	
DDT, 1,1'-(2,2,2-Trichloroethylidene)bis[4-chlorbenzene	50-29-3		ug/l	**0.25**	N	0.05	0.05	0.05	0.05	
Di-n-butyl pthalate, Dibutyl pthalate	84-74-2		ug/l	**100.00**	N	5.00	5.00	5.50	5.00	
Dibromo-3-chloropropane, 1,2-; (DBCP)	96-12-8		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichloro-2-butene, trans-1,4-	110-57-6		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,2, o-Dichlorobenzene	95-50-1		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,3; m-Dichlorobenzene	541-73-1		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichlorobenzene, 1,4, p-Dichlorobenzene	106-46-7		ug/l	**3.70**	M	0.50	2.50	2.50	2.50	
Dichlorodifluoromethane; Difluorodichloromethane; Freon 12	75-71-8		ug/l	**19.00**	M	0.50	2.50	2.50	2.50	
Dichloroethane, 1,1-; Ethylidene chloride	75-34-3		ug/l	**31.00**	M	11.00	9.00	8.00	7.00	
Dichloroethane, 1,2-; ethylene dichloride*	107-06-2		ug/l	**2.50**	M	1.10	2.50	2.50	2.50	
Dichloroethylene, 1,1-	75-35-4		ug/l	**2.50**	M	2.10	2.50	2.50	2.50	
Dichloroethylene, 1,2-	540-59-0		ug/l	**150.00**	M	68.00	59.00	46.00	43.00	
Dichloroethylene, cis-1,2-	156-59-0		ug/l	**150.00**	M	68.00	59.00	46.00	43.00	
Dichloroethylene, trans-1,2-	156-60-5		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichloropropane, 1,2-*	78-87-5		ug/l	**6.00**	M	0.50	2.50	2.50	2.50	
Dichloropropane, 1,3-; Trimethylene dichloride	142-28-9		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichloropropane, 2,2-; Isopropylene chloride	594-20-7		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichloropropene, 1,1-; 1,1-Dichloropropylene	563-58-6		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichloropropene, 1,3-; 1,3-Dichloropropylene	542-75-6		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichloropropene, cis-1,3-	10060-01-2		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dichloropropene, trans-1,3-	10061-02-6		ug/l	**5.00**	N	0.50	2.50	2.50	2.50	
Dieldrin	60-57-1		ug/l	**0.25**	N	0.05	0.05	0.05	0.05	

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G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS			G120B				
							23-Aug-93	11-Nov-93	23-Feb-94	18-May-94	25-May-95
Diethyl phthalate	84-66-2		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Difluorobenzene, 1,4-, p-Difluorobenzene	540-36-3		ug/l	5.00	N	X		2.50	2.50	2.50	
Dimethyl phthalate	131-11-3		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Dimethylphenol,2,4-	1300-71-6		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Endosulfan I	959-98-8		ug/l	0.12	N	X		0.03	0.03	0.03	
Endosulfan II	33213-65-9		ug/l	0.25	N	X		0.05	0.05	0.05	
Endosulfan Sulfate	1031-07-8		ug/l	0.25	N	X		0.05	0.05	0.05	
Endrin	72-20-8		ug/l	0.25	N		0.05	0.05	0.05	0.05	
Endrin Aldehyde	7421-93-4		ug/l	0.25	N	X		0.05	0.05	0.05	
Endrin Ketone			ug/l	0.25	N	X		0.05	0.05	0.05	
Ethyl acetate	141-78-6		ug/l	5.00	N		0.50	2.50	2.50	2.50	
Ethyl Alchohol, Ethanol	64-17-5		ug/l	100.00	N		2.50	50.00	50.00	50.00	
Ethyl Methacrylate	97-63-2		ug/l	5.00	N		2.50	2.50	2.50	2.50	
Ethylbenzene	100-41-4		ug/l	5.00	N		0.50	2.50	2.50	2.50	
Ethylene dibromide (EDB); 1,2-Dibromoethane	106-93-4		ug/l	5.00	N		0.50	2.50	2.50	2.50	
gamma-BHC; 1,2,3,4,5,6-Hexachlorocyclohexane, Lindane	58-89-9		ug/l	0.50	N		0.03	0.03	0.03	0.03	
Heptachlor*	76-44-8		ug/l	0.50	N		0.03	0.03	0.03	0.03	
Heptachlor Epoxide*	1024-57-3		ug/l	0.50	N		0.03	0.03	0.03	0.03	
Hexachlorobutadiene	87-68-3		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Hexanone, 2-; Methyl butyl ketone	591-78-6		ug/l	10.00	N		0.50	5.00	5.00	5.00	
Iodomethane; Methyl iodide	74-88-4		ug/l	10.00	N		0.50	2.50	2.50	2.50	
Isophorone	78-59-1		ug/l	100.00	N		5.00	5.00	5.00	5.00	
Methoxchlor	72-43-5		ug/l	1.20	N		0.25	0.25	0.27	0.25	
Methyl chloride; chloromethane	74-87-3		ug/l	10.00	N		5.00	5.00	5.00	5.00	
Methyl-2-pentanone, 4-; Methyl isobutyl ketone	108-10-1		ug/l	10.00	N		2.50	5.00	5.00	5.00	
Methylene bromide, Dibromoethane	74-95-3		ug/l	5.00	N		0.50	2.50	2.50	2.50	
Methylene chloride, Dichloromethane	75-09-2		ug/l	8.00	M		2.50	8.00	2.50	2.50	
Naphthalene	91-20-3		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Nitrobenzene	98-95-3		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Nitrophenol, 4-, p-Nitrohenol	100-07-7		ug/l	500.00	N		5.00	25.00	26.50	25.00	
Parathion, 0,0-Diethyl phosphorothoic acid	56-38-2		ug/l	1.00	N		0.50	0.25	0.25	0.25	
PCBs; Polychlorinated biphenyls*	1336-36-3		ug/l	2.50	N		0.50	0.50	0.50	0.50	
Pentachlorophenol*	87-86-5		ug/l	500.00	N		5.00	25.00	26.50	25.00	
Phenanthrene	85-01-8		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Phenol	108-95-2		ug/l	100.00	N		5.00	5.00	5.50	5.00	
Propanol, 1-, n-Propyl alcohol	71-23-8		ug/l	100.00	N		2.50	50.00	50.00	50.00	
Propanol, 2-; isopropyl alcohol	67-63-0		ug/l	160.00	M		2.50	50.00	50.00	50.00	
Propylbenzene, n-; 1-Phenylpropane	103-65-1		ug/l	5.00	N		1.00	2.50	2.50	2.50	
Silvex; 2-(2,4,5-trichlorophenoxy)propionic acid, 2,4,5-TP	93-72-1		ug/l	1.00	N		0.50	0.13		0.13	
Styrene, Ethenylbenzene	100-42-5		ug/l	10.00	N		0.50	5.00	5.00	5.00	
Tetrachloroethane, 1,1,1,2-	630-20-6		ug/l	5.00	N		0.50	2.50	2.50	2.50	
Tetrachloroethane, 1,1,2,2-	79-34-5		ug/l	5.00	N		0.50	2.50	2.50	2.50	
Tetrachloroethene, 1,1,2,2-; Tetrachloroethylene*	127-18-4		ug/l	26.00	M		10.00	8.00	6.00	5.00	
Tetrahydrofuran; Tetramethylene oxide	109-99-9		ug/l	42.00	M		42.00	13.00	2.50	2.50	
Toluene; Methylbenzene	108-88-3		ug/l	20.00	N		10.00	2.50	2.50	2.50	
Toxaphene	8001-35-2		ug/l	2.50	N		0.25	0.50	0.50	0.50	
Trichlorobenzene, 1,2,3-	87-61-6		ug/l	5.00	N		0.50	2.50	2.50	2.50	
Trichlorobenzene, 1,2,4-	120-82-1		ug/l	5.00	N		0.50	2.50	2.50	2.50	
Trichloroethane, 1,1,1-; Methylchloroform	71-55-6		ug/l	12.00	M		12.00	9.00	8.00	2.50	
Trichloroethane, 1,1,2-	79-00-5		ug/l	5.00	N		0.50	2.50	2.50	2.50	

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL "Significant Modification"
Monitoring for determining Applicable Groundwater Quality Standards

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)	MEASURING POINT ELEV TOIC	SAMPLED INTERVAL*
G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	UNITS	AGQS		G120B				
						23-Aug-93	11-Nov-93	23-Feb-94	18-May-94	25-May-95
Trichloroethylene, Trichloroethene	79-01-6		ug/l	66.00	M	16.00	12.00	11.00	10.00	
Trichlorofluoromethane, Fluorotrichloromethane, Freon 11	75-69-4		ug/l	5.00	N	0.50	2.50	2.50	2.50	
Trichlorophenoxyacetic acid, 2,4,5-, 2,4,5-T	93-76-5		ug/l	1.00	N X	0.50	0.13		0.13	
Trichloropropane, 1,2,3-	96-18-4		ug/l	5.00	N	0.50	2.50	2.50	2.50	
Trimethylbenzene, 1,2,4-, Pseudocumene	95-63-6		ug/l	5.00	N	0.50	2.50	2.50	2.50	
Trimethylbenzene, 1,3,5-, Mesitylene	108-67-8		ug/l	5.00	N	0.50	2.50	2.50	2.50	
Vinyl acetate, Ethenyl ester acetic acid	108-05-4		ug/l	10.00	N	0.50	5.00	5.00	5.00	
Vinyl chloride, Chloroethene*	75-01-4		ug/l	17.00	M	0.50	1.00	1.00	1.00	
Xylene, m-	108-38-3		ug/l	5.00	N	0.50	2.50	2.50	2.50	
Xylene, o-	95-47-6		ug/l	5.00	N	0.50	2.50	2.50	2.50	
Xylene, p-	106-42-3		ug/l	5.00	N	0.50	2.50	2.50	2.50	
Xylenes	1330-20-7		ug/l	5.00	N	0.50	2.50	2.50	2.50	

NOTES:

1) "X" next to AGQS indicates that less than 4 quarters of data was collected

2) "N" next to the AGQS indicates all four quarters of analytical results were below the Reporting Limit (PQL). The lowest PQL was used to determine the AGQS.

3) "C" next to AGQS indicates that Cohens adjustment to the mean was used to determine the Prediction Limit. This was done for samples in which >25% and <50% of the samples are nondetect.

4) "M" next to the AGQS indicates that the maximum recorded value was used to determine the AGQS. This was done for samples in which >50% and <100% of the samples are nondetect

5) "T" next to AGQS indicates that a two-tailed test is appropriate for the AGQS

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
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WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)		MEASURING POINT ELEV TOIC	SAMPLI INTERV
G109	801760.5	2001645.2	2.1E-04	D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06	D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04	D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05	D	762.89	685-697
G120B	802387.9	2001608.9		D	758.44	608-625

PARAMETER	CAS Number	Method	PREDICTION LIMIT	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value	Fraction Nondetect	Sample Variance	median	Transformed Mean	Transformed Standard Deviation	Transformed Variance	Transformed Coefficient of Variation	Coefficient of Variation
FIELD DATA																	
Bottom of Well<MSL>	n/a	Field															
Depth to Water<BLGS>	n/a	Field															
Depth to Water<BLTOIC>	n/a	Field															
Groundwater Elev <MSL>	n/a	Field															
pH(unfiltered)	n/a	Field	8.16	6.82	7.84	6.09	0.46	20	2.861	0.00	0.21	6.57					
pH(unfiltered)	n/a	Field	5.47	6.82	7.84	6.09	0.46	20	2.861	0.00	0.21	6.57					
Specific Conductance<unfiltered, umhos/cm 25C>	n/a	Field	2350.22	978.35	1360.00	500.00	302.42	20	2.539	0.00	91455.82	625.00	2.97	0.16	0.02	0.05	0.31
Water Temp<deg. F>	n/a	Field															
LIST 2																	
MISCELLANEOUS CONSTITUENTS																	
Alkalinity (total)	n/a	E310.2	1522.98	548.55	815.00	245.00	187.64	20	2.539	0.00	35207.31	493.00	2.71	0.18	0.03	0.07	0.34
Biological Oxygen Demand (BOD)	n/a	E405.1		1.35	4.00	0.50	1.04	20	2.539	0.70	1.08	0.50					
Chemical Oxygen Demand (COD)	n/a	E410.4		19.38	50.00	10.00	14.47	20	2.539	0.65	209.39	10.00					
Oil (Hexane soluble or equiv)	n/a	E413.1		1.23	2.50	0.50	0.88	20	2.539	0.75	0.78	0.50					
Total Dissolved Solids (TDS)	n/a	E160.1	1755.87	666.84	985.00	305.00	216.74	19	2.552	0.00	46974.70	543.00	2.80	0.17	0.03	0.06	0.33
Total Organic Carbon (TOC)	n/a	E415.1	4301.02	4.04	14.00	0.50	4.52	20	2.539	0.20	20.47	1.20	3.36	0.49	0.16	0.15	1.12
Total Organic Halogens (TOX)	n/a	E402.0		0.03	0.11	0.01	0.03	20	2.539	0.80	0.00	0.07					
LIST 3																	
INORGANIC PARAMETERS																	
Aluminum	7429-90-5	E200.7	66602.59	5220.00	44000.00	150.00	11342.83	20	2.539	0.00	1.29E+08	580.00	3.08	0.67	0.45	0.22	2.17
Aluminum (dis)				266.75	1210.00	25.00	450.43	20	2.539	0.65	202890.20	25.00					
Ammonia	7664-41-7	E350.2		191.50	900.00	50.00	228.66	20	2.539	0.60	52287.11	50.00					
Antimony	7440-36-0	E200.7		64.38	250.00	2.50	109.95	20	2.539	1.00	12090.05	2.50					
Antimony (dis)				65.50	250.00	2.50	109.34	20	2.539	0.90	11955.16	2.50					
Arsenic	7440-38-2	E206.2		1.95	10.00	1.00	2.46	20	2.539	0.60	6.05	1.00					
Arsenic (dis)				0.88	1.00	0.50	0.22	20	2.539	1.00	0.05	1.00					
Barium	7440-39-3	E200.7	225180.59	172.50	540.00	90.00	124.18	20	2.539	0.25	15419.74	100.00	2.17	0.22	0.05	0.10	0.72
Barium (dis)			33143.15	112.00	140.00	50.00	27.64	20	2.539	0.25	764.21	100.00	2.03	0.12	0.02	0.06	0.25
Beryllium	7440-41-7	E200.7		1.09	5.00	0.10	1.41	20	2.539	0.85	1.99	0.10					
Beryllium (dis)				0.70	2.50	0.10	1.07	20	2.539	1.00	1.14	0.10					
Boron	7440-42-8	E200.7		57.10	200.00	25.00	41.10	20	2.539	0.90	1689.25	50.00					
Boron (dis)				48.68	98.00	25.00	14.77	20	2.539	0.95	218.11	50.00					
Cadmium	7440-43-9	E213.2		7.38	45.00	0.40	11.77	20	2.539	0.75	138.49	2.50					
Cadmium (dis)				1.98	5.00	0.10	2.03	20	2.539	0.85	4.14	0.10					
Calcium	7440-70-2	E200.7	3093414.48	459790.00	3180000.00	68800.00	841316.94	20	2.539	0.00	7.08E+11	169000.00	5.35	0.44	0.19	0.08	1.83
Calcium (dis)			428889.30	152685.00	201000.00	66300.00	51018.18	20	2.539	0.00	2.60E+09	150500.00	5.15	0.18	0.03	0.04	0.33
Chloride	6887-00-6	E325.2	87511.86	28550.00	48000.00	12000.00	11582.54	20	2.539	0.00	1.34E+08	19000.00	4.41	0.20	0.04	0.05	0.41
Chromium	7440-47-3	E200.7	5516.15	86.53	330.00	5.00	101.50	20	2.539	0.35	10301.51	10.25	1.59	0.61	0.35	0.38	1.17
Chromium (dis)				9.83	100.00	0.10	21.52	20	2.539	0.90	462.93	5.00					
Cobalt	7440-48-4	E200.7		19.50	50.00	5.00	20.25	20	2.539	0.85	410.26	5.00					
Cobalt (dis)				16.25	50.00	5.00	19.99	20	2.539	1.00	399.67	5.00					
Copper	7440-50-8	E200.7	1887.83	35.08	220.00	5.00	58.19	20	2.539	0.45	3385.64	10.00	1.21	0.49	0.25	0.41	1.66
Copper (dis)				6.25	10.00	5.00	2.22	20	2.539	1.00	4.93	5.00					
Cyanide (Total as Cn-)	57-12-5	E335.3		4.90	34.00	2.50	7.78	20	2.539	0.90	60.49	2.50					
Fluoride (Total as F-)	7782-41-4	E340.2	273.35	87.50	200.00	50.00	43.51	20	2.539	0.50	1893.42	50.00	1.89	0.21	0.04	0.11	0.50

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G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.41	608-625

PARAMETER	CAS Number	Method	PREDICTION LIMIT	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value	Fraction Nondetect	Sample Variance	median	Transformed Mean	Transformed Standard Deviation	Transformed Variance	Transformed Coefficient of Variation	Coefficient of Variation
Iron (Total)	7439-89-6	E200.7	446696.29	18210.00	147000.00	150.00	37268.66	20	2.539	0.05	1.39E+09	1500.00	3.58	0.80	0.63	0.22	2.05
Iron (dis)				703.00	4530.00	10.00	1456.51	20	2.539	0.65	2.12E+06	10.00					
Lead	7439-92-1	E239.2	41230.83	84.47	956.00	1.50	213.69	20	2.539	0.35	45663.43	2.75	1.15	0.82	0.55	0.71	2.53
Lead (dis)				2.00	4.00	1.50	0.78	20	2.539	0.90	0.61	1.50					
Magnesium	7439-95-4	E200.7	1717282.62	236500.00	1790000.00	36700.00	468969.69	20	2.539	0.00	2.20E+11	55500.00	4.98	0.48	0.23	0.10	1.98
Magnesium (dis)	7439-95-4	E200.7	109108.82	57855.00	86600.00	36300.00	13993.06	20	2.539	0.05	1.96E+08	50300.00	4.75	0.11	0.01	0.02	0.24
Manganese	7439-96-5	E200.7	12381.45	844.30	6720.00	22.00	1753.90	20	2.539	0.00	3.08E+06	95.00	2.37	0.66	0.44	0.28	2.08
Manganese (dis)			1479.53	105.75	281.00	5.00	96.68	20	2.539	0.10	9347.78	38.50	1.78	0.53	0.28	0.30	0.91
Mercury	7439-97-6	E245.1		0.12	0.40	0.10	0.07	20	2.539	0.90	0.00	0.10					
Mercury (dis)				0.10	0.10	0.10	0.00	20	2.539	1.00	0.00	0.10					
Nickel	7440-02-0	E200.7	1757.64	56.50	160.00	10.00	51.84	20	2.539	0.35	2687.11	20.00	1.58	0.39	0.11	0.25	0.92
Nickel (dis)				12.50	20.00	10.00	4.44	20	2.539	1.00	19.74	10.00					
Nitrate (as Nitrogen)	7727-37-9	E353.2	11738.90	2801.50	5660.00	410.00	1405.59	20	2.539	0.00	1975687.11	2320.00	3.39	0.26	0.07	0.08	0.50
Potassium	7440-09-7	*V	29005.82	3726.00	10300.00	670.00	3320.03	20	2.539	0.00	1.10E+07	1060.00	3.40	0.41	0.17	0.12	0.89
Potassium(dis)	7440-09-7	*V	28193.91	3234.00	8180.00	520.00	2745.18	20	2.539	0.00	7.54E+06	850.00	3.32	0.43	0.19	0.13	0.85
Selenium	7782-49-2	E270.2		1.15	2.00	1.00	0.37	20	2.539	1.00	0.13	1.00					
Selenium (dis)				1.00	1.00	1.00	0.00	20	2.539	1.00	0.00	1.00					
Silver	7440-22-4	E200.7		5.75	20.00	5.00	3.35	20	2.539	0.95	11.25	5.00					
Silver (dis)				5.00	5.00	5.00	0.00	20	2.539	1.00	0.00	5.00					
Sodium	7440-23-5	E200.7	164789.66	25091.00	143000.00	4000.00	29428.09	20	2.539	0.00	8.66E+08	15550.00	4.24	0.38	0.14	0.09	1.17
Sodium(dis)	7440-23-5	E200.7	93020.42	18416.67	36000.00	4160.00	9709.85	15	2.624	0.00	9.43E+07	4925.00	4.19	0.29	0.08	0.07	0.53
Sulfates	4808-79-8	E375.2	179373.07	24350.00	65000.00	5000.00	18207.21	20	2.539	0.20	3.32E+08	10000.00	4.24	0.39	0.15	0.09	0.75
Thallium	7440-28-0	E279.2		25.75	100.00	1.00	43.98	20	2.539	1.00	1934.41	1.00					
Thallium (dis)				25.75	100.00	1.00	43.98	20	2.539	1.00	1934.41	1.00					
Tin	7440-31-5	200.7		100.00	100.00	100.00	0.00	20	2.539	1.00	0.00	100.00					
Tin (dis)				100.00	100.00	100.00	0.00	20	2.539	1.00	0.00	100.00					
Vanadium	7440-62-2	E200.7		31.00	100.00	25.00	19.10	20	2.539	0.90	364.74	25.00					
Vanadium (dis)				25.00	25.00	25.00	0.00	20	2.539	1.00	0.00	25.00					
Zinc	7440-66-6	E200.7	622283.32	8726.85	61200.00	20.00	16885.91	20	2.539	0.05	2.85E+08	978.50	3.25	0.98	0.96	0.30	1.93
Zinc (dis)			236072.40	1754.90	5830.00	5.00	1922.97	20	2.539	0.15	3697822.31	350.00	2.67	1.04	1.08	0.39	1.10

* Analytical Methods for Flame Spectrophotometry, Varian, 1979

LIST 4

ORGANIC CONSTITUENTS

2,4-D;2,4-dichlorophenoxy-acetic acid	94-75-7	SW8260		0.48	1.00	0.13	0.38	15	2.624	1.00	0.14	0.13
Acetone;2-Propane	67-64-1	SW8270		4.38	5.00	2.50	1.11	20	2.539	1.00	1.23	5.00
Acrolein	107-02-8	SW8080		21.88	50.00	12.50	16.66	20	2.539	1.00	277.55	12.50
Acrylonitrile;2-Propenenitrile	107-13-1	SW8150		5.00	5.00	5.00	0.00	20	2.539	1.00	0.00	5.00
Alachor*	15972-60-8	SW8015		0.63	1.00	0.50	0.22	20	2.539	1.00	0.05	0.50
Aldicarb; Temik	116-06-3	E619		0.50	0.50	0.50	0.00	20	2.539	1.00	0.00	0.50
Aldrin; Aldrex	309-00-2			0.04	0.25	0.03	0.05	20	2.539	1.00	0.00	0.03
Atrazine	1912-24-9			0.56	1.50	0.25	0.56	20	2.539	1.00	0.31	0.25
Benzene*	71-43-2			2.12	2.80	0.50	0.83	20	2.539	0.95	0.69	2.50
Benzoic Acid	65-85-0			31.60	250.00	5.00	52.19	20	2.539	1.00	2724.31	25.00
bis (2-Chloroethoxy) methane	111-91-1			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00
bis (2-Ethylhexyl) phthalate	117-81-7			15.91	72.00	2.00	21.38	20	2.539	0.70	457.32	2.00
bis Chloromethyl ether	542-88-1										ERR	0.00
Bromobenzene; Phenyl bromide	108-86-1			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50

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PAGEL LANDFILL "Significant Modification"
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WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)	MEASURING POINT ELEV TOIC	SAMPLI INTERV
G109	801760.5	2001645.2	2.1E-04 D	760.79	707-723
G109A	801762.2	2001650.4	5.3E-06 D	761.03	679-689
G113	801720.9	2001424.2	1.4E-04 D	762.22	711-725
G113A	801714.8	2001430.9	5.3E-05 D	762.89	685-697
G120B	802387.9	2001608.9	D	758.44	608-625

PARAMETER	CAS Number	Method	PREDICTION LIMIT	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value	Fraction Nondetect	Sample Variance	median	Transformed Mean	Transformed Standard Deviation	Transformed Variance	Transformed Coefficient of Variation	Coefficient of Variation
Bromochloromethane, Chlorobromomethane	74-97-5			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Bromodichloromethane, Dibromochloromethane	75-27-4			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Bromoform, Tribromomethane	75-25-2			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Bromomethane, Methyl bromide	74-83-9			3.88	5.00	0.50	2.00	20	2.539	1.00	4.00	5.00					
Butanol 1,n-butyl alcohol	71-36-3			43.63	160.00	2.50	34.46	20	2.539	1.00	1187.81	50.00					
Butanol 1,2,sec-butyl alcohol	78-92-2			42.13	130.00	2.50	29.42	20	2.539	1.00	865.31	50.00					
Butanone, 2-, Methyl ethyl ketone, MEK	78-93-3			2.50	2.50	2.50	0.00	20	2.539	1.00	0.00	2.50					
Butylbenzene, n-, 1-Phenylbutane	104-51-8			2.13	2.50	1.00	0.67	20	2.539	1.00	0.44	2.50					
Butylbenzene, sec-, (1-Methylpropyl)benzene	135-98-8			2.13	2.50	1.00	0.67	20	2.539	1.00	0.44	2.50					
Butylbenzene, tert-, (1,1-Dimethylethly)benzene	98-06-6			2.13	2.50	1.00	0.67	20	2.539	1.00	0.44	2.50					
Butylbenzyl phthalate	85-68-7			7.28	50.00	5.00	10.06	20	2.539	1.00	101.14	5.00					
Carbofuran	1563-66-2			0.73	5.00	0.50	1.01	20	2.539	1.00	1.01	0.50					
Carbon disulfide	75-15-0			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Carbon tetrachloride	56-23-5			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Chlordane*	57-74-9			0.28	0.60	0.25	0.09	20	2.539	1.00	0.01	0.25					
Chlorobenzene, Monochlorobenzene	108-90-7			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Chlorodibromomethane, Dibromochloromethane	124-48-1			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Chloroethane, ethyl chloride	75-00-3			5.00	5.00	5.00	0.00	20	2.539	1.00	0.00	5.00					
Chloroethyl Vinyl Ether, 2-, (2-Chloroethoxy)ethene	110-75-8			4.00	5.00	1.00	1.78	20	2.539	1.00	3.16	5.00					
Chloroform, Trichloromethane	67-66-3			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Chloronaphthalene, 2	91-58-7			9.53	50.00	5.00	13.84	20	2.539	1.00	191.62	5.00					
Chlorotoluene, o-	95-49-8			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Chlorotoluene, p-	106-43-4			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Cresol, p-, cresol, 4-methylphenol	106-44-5			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Cumene, (1-Methylethyl)benzene, Isopropylbenzene	98-82-8			2.13	2.50	1.00	0.67	20	2.539	1.00	0.44	2.50					
Cymene, p-Isopropyltoluene, Dolcymene	25515-15-1			2.13	2.50	1.00	0.67	20	2.539	1.00	0.44	2.50					
DDD, 1,1'-(2,2-dichloroethylidene)bis[4chlorobenzene]	72-54-8			0.06	0.13	0.05	0.02	15	2.624	1.00	0.00	0.05					
DDE,1,1'-(dichloroethenylidene)bis[4chlorobenzene]	72-55-9			0.06	0.13	0.05	0.02	15	2.624	1.00	0.00	0.05					
DDT, 1,1'-(2,2,2-Trichloroethylidene)bis[4-chlorbenzene	50-29-3			0.06	0.13	0.05	0.02	20	2.539	1.00	0.00	0.05					
Di-n-butyl pthalate, Dibutyl pthalate	84-74-2			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Dibromo-3-chloropropane, 1,2-, (DBCP)	96-12-8			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichloro-2-butene, trans-1,4-	110-57-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichlorobenzene, 1,2, o-Dichlorobenzene	95-50-1			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichlorobenzene, 1,3, m-Dichlorobenzene	541-73-1			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichlorobenzene, 1,4, p-Dichlorobenzene	106-46-7			2.16	3.70	0.50	0.89	20	2.539	0.95	0.80	2.50					
Dichlorodifluoromethane, Difluorodichloromethane, Freon 12	75-71-8			3.30	19.00	0.50	4.18	20	2.539	0.90	17.46	2.50					
Dichloroethane, 1,1-, Ethylidene chloride	75-34-3			8.60	31.00	0.50	10.54	20	2.539	0.60	111.15	2.50					
Dichloroethane, 1,2-, ethylene dichloride*	107-06-2			2.03	2.50	0.50	0.84	20	2.539	0.95	0.71	2.50					
Dichloroethylene, 1,1-	75-35-4			2.08	2.50	0.50	0.82	20	2.539	0.95	0.66	2.50					
Dichloroethylene, 1,2-	540-59-0			37.55	150.00	0.50	50.62	20	2.539	0.55	2562.80	2.50					
Dichloroethylene, cis-1,2-	156-59-0			37.55	150.00	0.50	50.62	20	1.729	0.65	2562.80	2.50					
Dichloroethylene, trans-1,2-	156-60-5			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichloropropane, 1,2-*	78-87-5			2.39	6.00	0.50	1.32	20	2.539	0.95	1.75	2.50					
Dichloropropane, 1,3-, Trimethylene dichloride	142-28-9			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichloropropane, 2,2-, Isopropylene chloride	594-20-7			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichloropropene, 1,1-, 1,1-Dichloropropylene	563-58-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichloropropene, 1,3-, 1,3-Dichloropropylene	542-75-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichloropropene, cis-1,3-	10060-01-2			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dichloropropene, trans-1,3-	10061-02-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Dieldrin	60-57-1			0.06	0.13	0.05	0.02	20	2.539	1.00	0.00	0.05					

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
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G120B	802387.9	2001608.9		D	758.44	608-625

PARAMETER	CAS Number	Method	PREDICTION LIMIT	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value	Fraction Nondetect	Sample Variance	median	Transformed Mean	Transformed Standard Deviation	Transformed Variance	Transformed Coefficient of Variation	Coefficient of Variation
Diethyl phthalate	84-66-2			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Difluorobenzene, 1,4-, p-Difluorobenzene	540-36-3			2.50	2.50	2.50	0.00	15	2.624	1.00	0.00	2.50					
Dimethyl phthalate	131-11-3			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Dimethylphenol,2,4-	1300-71-6			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Endosulfan I	959-98-8			0.03	0.06	0.03	0.01	15	2.624	1.00	0.00	0.03					
Endosulfan II	33213-65-9			0.06	0.13	0.05	0.02	15	2.624	1.00	0.00	0.05					
Endosulfan Sulfate	1031-07-8			0.06	0.13	0.05	0.02	15	2.624	1.00	0.00	0.05					
Endrin	72-20-8			0.06	0.13	0.05	0.02	20	2.539	1.00	0.00	0.05					
Endrin Aldehyde	7421-93-4			0.06	0.13	0.05	0.02	15	2.624	1.00	0.00	0.05					
Endrin Ketone				0.06	0.13	0.05	0.02	15	2.624	1.00	0.00	0.05					
Ethyl acetate	141-78-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Ethyl Alchohol, Ethanol	64-17-5			38.13	50.00	2.50	21.10	20	2.539	1.00	445.31	50.00					
Ethyl Methacrylate	97-63-2			2.50	2.50	2.50	0.00	20	2.539	1.00	0.00	2.50					
Ethylbenzene	100-41-4			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Ethylene dibromide (EDB), 1,2-Dibromoethane	106-93-4			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
gamma-BHC, 1,2,3,4,5,6-Hexachlorocyclohexane; Lindane	58-89-9			0.04	0.25	0.03	0.05	20	2.539	1.00	0.00	0.03					
Heptachlor*	76-44-8			0.04	0.25	0.03	0.05	20	2.539	1.00	0.00	0.03					
Heptachlor Epoxide*	1024-57-3			0.04	0.25	0.03	0.05	20	2.539	1.00	0.00	0.03					
Hexachlorobutadiene	87-68-3			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Hexanone, 2-; Methyl butyl ketone	591-78-6			3.63	5.00	0.50	2.00	20	2.539	1.00	4.00	2.50					
Iodomethane, Methyl iodide	74-88-4			2.25	5.00	0.50	1.28	20	2.539	1.00	1.64	2.50					
Isophorone	78-59-1			9.53	50.00	5.00	13.84	20	2.539	1.00	191.62	5.00					
Methoxchlor	72-43-5			0.26	0.60	0.05	0.12	20	2.539	1.00	0.01	0.25					
Methyl chloride, chloromethane	74-87-3			5.00	5.00	5.00	0.00	20	2.539	1.00	0.00	5.00					
Methyl-2-pentanone, 4-, Methyl isobutyl ketone	108-10-1			4.38	5.00	2.50	1.11	20	2.539	1.00	1.23	5.00					
Methylene bromide, Dibromoethane	74-95-3			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Methylene chloride, Dichloromethane	75-09-2			2.78	8.00	2.50	1.23	20	2.539	0.95	1.51	2.50					
Naphthalene	91-20-3			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Nitrobenzene	98-95-3			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Nitrophenol, 4-, p-Nitrohenol	100-07-7			31.60	250.00	5.00	52.19	20	2.539	1.00	2724.31	25.00					
Parathion, 0,0-Diethyl phosphorothioic acid	56-38-2			0.31	0.50	0.25	0.11	20	2.539	1.00	0.01	0.25					
PCBs; Polychlorinated biphenyls*	1336-36-3			0.56	1.25	0.50	0.20	20	2.539	1.00	0.04	0.50					
Pentachlorophenol*	87-86-5			31.60	250.00	5.00	52.19	20	2.539	1.00	2724.31	25.00					
Phenanthrene	85-01-8			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Phenol	108-95-2			7.30	50.00	5.00	10.05	20	2.539	1.00	101.04	5.00					
Propanol, 1-, n-Propyl alcohol	71-23-8			38.13	50.00	2.50	21.10	20	2.539	1.00	445.31	50.00					
Propanol, 2-; isopropyl alcohol	67-63-0			43.63	160.00	2.50	34.46	20	2.539	0.95	1187.81	50.00					
Propylbenzene, n-; 1-Phenylpropane	103-65-1			2.13	2.50	1.00	0.67	20	2.539	1.00	0.44	2.50					
Silvex; 2-(2,4,5-trichlorophenoxy)propionic acid; 2,4,5-TP	93-72-1			0.25	0.50	0.13	0.18	15	2.624	1.00	0.03	0.13					
Styrene; Ethenylbenzene	100-42-5			3.88	5.00	0.50	2.00	20	2.539	1.00	4.00	5.00					
Tetrachloroethane, 1,1,1,2-	630-20-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Tetrachloroethane, 1,1,2,2-	79-34-5			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Tetrachloroethene, 1,1,2,2-, Tetrachloroethylene*	127-18-4			7.37	26.00	0.50	8.54	20	2.539	0.60	72.90	2.50					
Tetrahydrofuran; Tetramethylene oxide	109-99-9			4.60	42.00	0.50	9.17	20	2.539	0.90	84.12	2.50					
Toluene; Methylbenzene	108-88-3			4.38	10.00	2.50	3.33	20	2.539	1.00	11.10	2.50					
Toxaphene	8001-35-2			0.50	1.25	0.25	0.24	20	2.539	1.00	0.06	0.50					
Trichlorobenzene, 1,2,3-	87-61-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Trichlorobenzene, 1,2,4-	120-82-1			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Trichloroethane, 1,1,1-, Methylchloroform	71-55-6			3.18	12.00	0.50	2.99	20	2.539	0.85	8.93	2.50					
Trichloroethane, 1,1,2-	79-00-5			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					

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Trichloroethylene, Trichloroethene	79-01-6			14.35	66.00	0.50	20.70	20	2.539	0.55	428.48	2.50					
Trichlorofluoromethane, Fluorotrichloromethane, Freon 11	75-69-4			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Trichlorophenoxyacetic acid, 2,4,5-, 2,4,5-T	93-76-5			0.25	0.50	0.13	0.18	15	2.624	1.00	0.03	0.13					
Trichloropropane, 1,2,3-	96-18-4			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Trimethylbenzene, 1,2,4-, Pseudocumene	95-63-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Trimethylbenzene, 1,3,5-, Mesitylene	108-67-8			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Vinyl acetate, Ethenyl ester acetic acid	108-05-4			3.88	5.00	0.50	2.00	20	2.539	1.00	4.00	5.00					
Vinyl chloride, Chloroethene*	75-01-4			2.85	17.00	0.50	5.01	20	2.539	0.85	25.13	1.00					
Xylene, m-	108-38-3			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Xylene, o-	95-47-6			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Xylene, p-	106-42-3			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					
Xylenes	1330-20-7			2.00	2.50	0.50	0.89	20	2.539	1.00	0.79	2.50					

NOTES:

1) "X" next to AGQS indicates that less than 4 quarters of data was collected

2) "N" next to the AGQS indicates all four quarters of analytical results were l Reporting Limit (PQL). The lowest PQL was used to determine the AGQS

3) "C" next to AGQS indicates that Cohens adjustment to the mean was used Prediction Limit. This was done for samples in which >25% and <50% of

4) "M" next to the AGQS indicates that the maximum recorded value was usec This was done for samples in which >50% and <100% of the samples are n

5) "T" next to AGQS indicates that a two-tailed test is appropriate for the AG

EPA/530-SW-89-026

PB89-151047

STATISTICAL ANALYSIS OF GROUND-WATER MONITORING DATA AT RCRA FACILITIES

INTERIM FINAL GUIDANCE

OFFICE OF SOLID WASTE
WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY
401 M STREET, S.W.
WASHINGTON, D.C. 20460

FEBRUARY 1989

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NATIONAL TECHNICAL
INFORMATION SERVICE
U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA 22161

Step 1. Estimate the proportion above detection in the background wells. As shown in Table 8-2, there were 24 samples from background wells analyzed for cadmium, so n= 24. Of these, 16 were below detection and x = 8 were above detection, so $P_u = 8/24 = 0.333$.

Step 2. Estimate the proportion above detection in the compliance wells. There were 64 samples from compliance wells analyzed for cadmium, with 40 below detection and 24 detected values. This gives m = 64, y = 24, so $P_d = 24/64 = 0.375$.

Step 3. Calculate the standard error of the difference in proportions.

$$S_D = \{[(8+24)/(24+64)][1-(8+24)/(24+64)](1/24 + 1/64)\}^{1/2} = 0.115$$

Step 4. Form the statistic Z and compare it to the normal distribution.

$$Z = \frac{0.375 - 0.333}{0.115} = 0.37$$

which is less in absolute value than the value from the normal distribution, 1.96. Consequently, there is no statistically significant evidence that the proportion of samples with cadmium levels above the detection limit differs in the background well and compliance well samples.

INTERPRETATION

Since the proportion of water samples with detected amounts of cadmium in the compliance wells was not significantly different from that in the background wells, the data are interpreted to provide no evidence of contamination. Had the proportion of samples with detectable levels of cadmium in the compliance wells been significantly higher than that in the background wells this would have been evidence of contamination. Had the proportion been significantly higher in the background wells, additional study would have been required. This could indicate that contamination was migrating from an off-site source, or it could mean that the hydraulic gradient had been incorrectly estimated or had changed and that contamination was occurring from the facility, but the ground-water flow was not in the direction originally estimated. Mounding of contaminants in the ground water near the background wells could also be a possible explanation of this observance.

8.1.3 Cohen's Method

If a confidence interval or a tolerance interval based upon the normal distribution is being constructed, a technique presented by Cohen (1959) specifies a method to adjust the sample mean and sample standard deviation to account for data below the detection limit. The only requirements for the use of this technique is that the data are normally distributed and that the detection limit be always the same. This technique is demonstrated below.

PURPOSE

Cohen's method provides estimates of the sample mean and standard deviation when some ($\leq$ 50%) observations are below detection. These estimates can then be used to construct tolerance, confidence, or prediction intervals.

PROCEDURE

Let n be the total number of observations, m represent the number of data points above the detection limit (DL), and X_i represent the value of the ith constituent value above the detection limit.

Step 1. Compute the sample mean $\bar{x}_d$ from the data above the detection limit as follows:

$$\bar{x}_d = \frac{1}{m} \sum_{i=1}^{m} x_i$$

Step 2. Compute the sample variance S_d^2 from the data above the detection limit as follows:

$$S_d^2 = \frac{\sum_{i=1}^{m} (x_i - \bar{x})^2}{m-1} = \frac{\sum_{i=1}^{m} x_i^2 - \frac{1}{m} \left(\sum_{i=1}^{m} x_i\right)^2}{m-1}$$

Step 3. Compute the two parameters, h and γ (lowercase gamma), as follows:

$$h = \frac{(n-m)}{n}$$

and

$$\gamma = \frac{S_d^2}{(\bar{x}-DL)^2}$$

where n is the total number of observations (i.e., above and below the detection limit), and where DL is equal to the detection limit.

These values are then used to determine the value of the parameter $\hat{\lambda}$ from Table 7 in Appendix B.

Step 4. Estimate the corrected sample mean, which accounts for the data below detection limit, as follows:

$$\bar{X} = \bar{x}_d - \hat{\lambda}(\bar{x}_d - DL)$$

Step 5. Estimate the corrected sample standard deviation, which accounts for the data below detection limit, as follows:

$$S = (S_d^2 + \hat{\lambda}(\bar{x}_d - DL)^2)^{1/2}$$

Step 6. Use the corrected values of $\bar{X}$ and S in the procedure for constructing a tolerance interval (Section 5.3) or a confidence interval (Section 6.2.1).

REFERENCE

Cohen, A. C., Jr. 1959. "Simplified Estimators for the Normal Distribution When Samples are Singly Censored or Truncated." *Technometrics*. 1:217-237.

EXAMPLE

Table 8-3 contains data on sulfate concentrations. Three observations of the 24 were below the detection limit of 1,450 mg/L and are denoted by "< 1,450" in the table.

TABLE 8-3. EXAMPLE DATA FOR COHEN'S TEST

Sulfate concentration (mg/L)
1,850
1,760
< 1,450
1,710
1,575
1,475
1,780
1,780
1,780
< 1,450
1,790
1,800
< 1,450
1,800
1,840
1,820
1,860
1,780
1,760
1,800
1,900
1,770
1,790
1,780

DL = 1,450 mg/L

Note: A symbol "<" before a number indicates that the value is not detected. The number following is then the limit of detection.

Step 1. Calculate the mean from the $m = 21$ values above detection

$$\bar{x}_d = 1{,}771.9$$

Step 2. Calculate the sample variance from the 21 quantified values

$$S_d^2 = 8{,}593.69$$

Step 3. Determine

$$h = (24-21)/24 = 0.125$$

and

$$\gamma = 8593.69/(1771.9-1450)^2 = 0.083$$

Enter Table 7 of Appendix B at $h = 0.125$ and $\gamma = 0.083$ to determine the value of λ. Since the table does not contain these entries exactly, double linear interpolation was used to estimate $\lambda = 0.14986$.

REMARK

For the interested reader, the details of the double linear interpolation are provided.

The values from Table 7 between which the user needs to interpolate are:

γ	h = 0.10	h = 0.15
0.05	0.11431	0.17935
0.10	0.11804	0.18479

There are 0.025 units between 0.01 and 0.125 on the h-scale. There are 0.05 units between 0.10 and 0.15. Therefore, the value of interest (0.125) lies (0.025/0.05 * 100) = 50% of the distance along the interval between 0.10 and 0.15. To linearly interpolate between the tabulated values on the h axis, the range between the values must be calculated, the value that is 50% of the distance along the range must be computed and then that value must be added to the lower point on the tabulated values. The result is the interpolated value. The interpolated points on the h-scale for the current example are:

0.17935 - 0.11431 = 0.06504 0.06504 * 0.50 = 0.03252
0.11431 + 0.03252 = <u>0.14683</u>

0.18479 - 0.11804 = 0.06675 0.06675 * 0.50 = 0.033375
0.11804 + 0.033375 = <u>0.151415</u>

On the γ-axis there are 0.033 units between 0.05 and 0.083. There are 0.05 units between 0.05 and 0.10. The value of interest (0.083) lies

(0.0330.05 * 100) = 66% of the distance along the interval between 0.05 and 0.10. The interpolated point on the γ-axis is:

$$0.141415 - 0.14683 = 0.004585 \qquad 0.004585 * 0.66 = 0.0030261$$
$$0.14683 + 0.0030261 = \underline{0.14986}$$

Thus, $\hat{\lambda} = 0.14986$.

Step 5. The corrected sample mean and standard deviation are then estimated as follows:

$$\bar{X} = 1{,}771.9 - 0.14986\ (1{,}771.9 - 1{,}450) = 1{,}723.66$$

$$S = [8{,}593.69 + 0.14986(1{,}771.9 - 1{,}450)^2]^{1/2} = 155.31$$

Step 6. These modified estimates of the mean, $\bar{X}$ = 1723.66, and of the standard deviation, S = 155.31, would be used in the tolerance or confidence interval procedure. For example, if the sulfate concentrations represent background at a facility, the upper 95% tolerance limit becomes

$$1723.7 + (155.3)(2.309) = 2082.3 \text{ mg/L}$$

Observations from compliance wells in excess of 2,082 mg/L would give statistically significant evidence of contamination.

INTERPRETATION

Cohen's method provides maximum likelihood estimates of the mean and variance of a censored normal distribution. That is, of observations that follow a normal distribution except for those below a limit of detection, which are reported as "not detected." The modified estimates reflect the fact that the not detected observations are below the limit of detection, but not necessarily zero. The large sample properties of the modified estimates allow for them to be used with the normal theory procedures as a means of adjusting for not detected values in the data. Use of Cohen's method in more complicated calculations such as those required for analysis of variance procedures, requires special consideration from a professional statistician.

8.2 OUTLIERS

A ground-water constituent concentration value that is much different from most other values in a data set for the same ground-water constituent concentration can be referred to as an "outlier." Possible reasons for outliers can be:

- A catastrophic unnatural occurrence such as a spill;
- Inconsistent sampling or analytical chemistry methodology that may result in laboratory contamination or other anomalies;
- Errors in the transcription of data values or decimal points; and

especially similar hydrogeologic and potential contaminant characteristics. However, because many of the compounds may not be studied in the literature, extrapolations to compounds with similar chemical characteristics and to sites with similar hydrogeologic conditions are also acceptable. Basically, the owner or operator needs to provide some reason or justification for choosing a particular distribution.

4.2.2 Coefficient-of-Variation Test

Many statistical procedures assume that the data are normally distributed. The concentration of a hazardous constituent in ground water is inherently nonnegative, while the normal distribution allows for negative values. However, if the mean of the normal distribution is sufficiently above zero, the distribution places very little probability on negative observations and is still a valid approximation.

One simple check that can rule out use of the normal distribution is to calculate the coefficient of variation of the data. The use of this method was required by the former Part 264 Subpart F regulations pursuant to Section 264.97(h)(1). Because most owners and operators as well as Regional personnel are already familiar with this procedure, it will probably be used frequently. The coefficient of variation, CV, is the standard deviation of the observations, divided by their mean. If the normal distribution is to be a valid model, there should be very little probability of negative values. The number of standard deviations by which the mean exceeds zero determines the probability of negative values. For example, if the mean exceeds zero by one standard deviation, the normal distribution will have less than 0.159 probability of a negative observation.

Consequently, one can calculate the standard deviation of the observations, calculate the mean, and form the ratio of the standard deviation divided by the mean. If this ratio exceeds 1.00, there is evidence that the data are not normal and the normal distribution should not be used for those data. (There are other possibilities for nonnormality, but this is a simple check that can rule out obviously nonnormal data.)

PURPOSE

This test is a simple check for evidence of gross nonnormality in the ground-water monitoring data.

PROCEDURE

To apply the coefficient-of-variation check for normality proceed as follows.

Step 1. Calculate the sample mean, $\bar{X}$, of n observations X_i, i=1, ...,n.

$$\bar{X} = \left(\sum_{i=1}^{n} X_i\right)/n$$

Step 2. Calculate the sample standard deviation, S.

$$S = \left[\sum_{i=1}^{n} (X_i - \overline{X})^2/(n - 1) \right]^{1/2}$$

Step 3. Divide the sample standard deviation by the sample mean. This ratio is the CV.

$$CV = S/\overline{X}.$$

Step 4. Determine if the result of Step 3 exceeds 1.00. If so, this is evidence that the normal distribution does not fit the data adequately.

EXAMPLE

Table 4-1 is an example data set of chlordane concentrations in 24 water samples from a fictitious site. The data are presented in order from least to greatest.

TABLE 4-1. EXAMPLE DATA FOR COEFFICIENT-OF-VARIATION TEST

	Chlordane concentration (ppm)
	0.04
	0.18
	0.18
	0.25
	0.29
	0.38
	0.50
	0.50
	0.60
Dissolved phase	0.93
	0.97
	1.10
	1.16
	1.29
	1.37
	1.38
	1.45
	1.46
----------	2.58
	2.69
	2.80
Immiscible phase	3.33
	4.50
	6.60

Applying the procedure steps to the data of Table 4-1, we have:

Step 1. $\bar{X} = 1.52$

Step 2. $S = 1.56$

Step 3. $CV = 1.56/1.52 = 1.03$

Step 4. Because the result of Step 3 was 1.03, which exceeds 1.00, we conclude that there is evidence that the data do not adequately follow the normal distribution. As will be discussed in other sections one would then either transform the data, use a nonparametric procedure, or seek professional guidance.

NOTE. The owner or operator may choose to use parametric tests since 1.03 is so close to the limit but should use a transformation or a nonparametric test if he or she believes that the parametric test results would be incorrect due to the departure from normality.

4.2.3 Plotting on Probability Paper

APPENDIX C

APPENDIX C

Laboratory Results for Background Wells and Kilbuck Creek

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMATION
4920 Forest Hills
Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124277

SAMPLE DESCRIPTION: G-109, Grab Groundwater
Pagel Pit/Program 2

Date Collected: 08/23/1993
IEPA Cert. No.100220

Date Received: 08/24/1993
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Alkalinity, dissolved	648	mg/L	310.1 (3)	08/30/1993
Alkalinity, Total (CaC03)	676	mg/L	310.1 (3)	08/27/1993
BOD - Five Day	<2	mg/L	405.1 (3)	08/25/1993
Boron, ICP	<0.050	mg/L	200.7 (3)	09/15/1993
Boron, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/15/1993
Chloride	12	mg/L	325.3 (3)	09/01/1993
Chloride, dissolved	8	mg/L	325.3 (3)	09/01/1993
COD	31	mg/L	410.4 (3)	08/26/1993
COD, dissolved	<20	mg/L	410.4 (3)	09/08/1993
Cyanide, Total	<0.005	mg/L	9010 (1)	08/26/1993
Fluoride, ISE	0.13	mg/L	340.2 (3)	09/04/1993
Fluoride, diss., ISE	0.13	mg/L	340.2 (3)	09/04/1993
Fats, Oils & Grease (FOG)	<5	mg/L	413.1 (3)	09/16/1993
Nitrogen, Ammonia	1.0	mg/L	350.2 (3)	09/21/1993
N. Ammonia, dissolved	0.74	mg/L	350.2 (3)	09/16/1993
Nitrogen, Nitrate	2.32	mg/L	4500NO3 (4)	09/11/1993
N. Nitrate, dissolved	2.18	mg/L	4500NO3 (4)	09/11/1993
pH	6.83	units	150.1 (3)	08/23/1993
Solids, Dissolved	985	mg/L	160.1 (3)	08/30/1993
Sulfate	<5	mg/L	375.4 (3)	08/31/1993
Sulfate, dissolved	<5	mg/L	375.4 (3)	08/31/1993
Total Organic Carbon (TOC)	2.24	mg/L	415.1 (3)	09/15/1993
Total Organic Halogens	<0.01	mg/L Cl-	450.1 (3)	09/14/1993
Aluminum, ICP	0.99	mg/L	200.7 (3)	09/14/1993
Aluminum, dissolved, ICP	1.11	mg/L	200.7 (3)	09/14/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Antimony, ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Antimony, diss., ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Arsenic, AA	<0.001	mg/L	3114B (4)	09/16/1993
Arsenic, dissolved, AA	<0.001	mg/L	3114B (4)	09/16/1[illegible]
Barium, AA	<0.20	mg/L	208.1 (3)	09/02/19[illegible]
Barium, dissolved, AA	<0.20	mg/L	208.1 (3)	09/02/1993
Beryllium, ICP	<0.0050	mg/L	200.7 (3)	09/14/1993
Beryllium, diss., ICP	<0.0050	mg/L	200.7 (3)	09/15/1993
Cadmium, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Cadmium, dissolved, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Calcium, AA	198	mg/L	215.1 (3)	09/22/1993
Calcium, dissolved, AA	188	mg/L	215.1 (3)	09/22/199[illegible]
Chromium, Total, AA	<0.020	mg/L	218.1 (3)	09/01/199[illegible]
Chromium, dissolved, AA	<0.020	mg/L	218.1 (3)	09/01/1993
Cobalt, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Cobalt, dissolved, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Copper, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Copper, dissolved, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Iron, AA	0.92	mg/L	236.1 (3)	09/18/1993
Iron, dissolved, AA	<0.05	mg/L	236.1 (3)	09/18/1993
Lead, GFAA	<0.0050	mg/L	239.2 (3)	09/14/1993
Lead, dissolved, GFAA	<0.0050	mg/L	239.2 (3)	09/13/1993
Magnesium, AA	67.0	mg/L	242.1 (3)	09/22/1993
Magnesium, dissolved, AA	57.0	mg/L	242.1 (3)	09/22/1993
Manganese, AA	0.034	mg/L	243.1 (3)	09/18/1993

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Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124277

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Pagel Pit/Program 2

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Manganese, dissolved, AA	0.037	mg/L	243.1 (3)	09/18/1993
Mercury, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Mercury, dissolved, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Nickel, AA	<0.04	mg/L	249.1 (3)	09/01/1993
Nickel, dissolved, AA	<0.04	mg/L	249.1 (3)	09/01/1993
Potassium, AA	<1.00	mg/L	258.1 (3)	09/22/1993
Potassium, dissolved, AA	<1.00	mg/L	258.1 (3)	09/22/1993
Selenium, AA	<0.002	mg/L	3114B (4)	09/15/1993
Selenium, dissolved, AA	<0.002	mg/L	3114B (4)	09/15/1993
Silver, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Silver, dissolved, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Sodium, AA	8	mg/L	273.1 (3)	09/24/1993
odium, dissolved, AA	10	mg/L	273.1 (3)	09/24/1993
Thallium, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Thallium, dissolved, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Vanadium, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Vanadium, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Zinc, AA	8.8	mg/L	289.1 (3)	09/17/1993
Zinc, dissolved, AA	4.63	mg/L	289.1 (3)	09/17/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILES - 8240				
1,1,1,2-Tetrachloroethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,1-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,1,2,2-Tetrachloroethane	<1.0	ug/L	8240 (1)	08/31/19
1,2,3-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/19
1,2,4-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,2-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2,4-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,3,5-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1-Dichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,1-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
1,1-Dichloropropene	<1.0	ug/L	524.2 (5)	08/31/199
1,2,3-Trichloropropane	<1.0	ug/L	524.2 (5)	08/31/19
1,2-Dibromo-3-chloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dibromoethane (EDB)	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2-Dichloropropane	<1.0	ug/L	8240 (1)	08/31/1993
1,3-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
2,2-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
2-Chloroethyl vinyl ether	<2.0	ug/L	8240 (1)	08/31/1993
2-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
2-Hexanone	<1.0	ug/L	8240 (1)	08/31/1993
4-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
Acetone	<5.0	ug/L	8240 (1)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Acrolein	<100	ug/L	8240 (1)	08/31/1993
Acrylonitrile	<10	ug/L	8240 (1)	08/31/1993
Benzene	<1.0	ug/L	8240 (1)	08/31/1993
Bromobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Bromochloromethane	<1.0	ug/L	524.2 (5)	08/31/1993
Bromodichloromethane	<1.0	ug/L	8240 (1)	08/31/1993
Bromoform	<1.0	ug/L	8240 (1)	08/31/1993
Bromomethane	<1.0	ug/L	8240 (1)	08/31/1993
Carbon disulfide	<1.0	ug/L	8240 (1)	08/31/1993
Carbon tetrachloride	<1.0	ug/L	8240 (1)	08/31/1993
Chlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Chlorodibromomethane	<1.0	ug/L	8240 (1)	08/31/1993
Chloroethane	<10	ug/L	8240 (1)	08/31/1993
Chloroform	<1.0	ug/L	8240 (1)	08/31/1993
Chloromethane	<10	ug/L	8240 (1)	08/31/1993
Dibromomethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,3-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,4-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Dichlorodifluoromethane	<1.0	ug/L	8240 (1)	08/31/1993
Ethyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Ethyl methacrylate	<5.0	ug/L	8240 (1)	08/31/1993
Ethylbenzene	<1.0	ug/L	8240 (1)	08/31/1993
Iodomethane	<1.0	ug/L	8240 (1)	08/31/1993
Isopropylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Methylene chloride	<5.0	ug/L	8240 (1)	08/31/1993
Methyl ethyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Methyl isobutyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Styrene	<1.0	ug/L	8240 (1)	08/31/19
Tetrachloroethene	<1.0	ug/L	8240 (1)	08/31/19
Tetrahydrofuran	<20	ug/L	8240 (1)	08/31/1993
Toluene	<1.0	ug/L	8240 (1)	08/31/1993
Trichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
Trichlorofluoromethane	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl chloride	<10	ug/L	8240 (1)	08/31/1993
Xylene (total)	<1.0	ug/L	8240 (1)	08/31/1993
cis-1,2-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/199
cis-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
n-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
n-Propylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
p-Isopropyltoluene	<2.0	ug/L	524.2 (5)	08/31/1993
sec-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
tert-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
trans-1,2-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,4-Dichloro-2-butene	<1.0	ug/L	8240 (1)	08/31/1993

BW

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMATION
4920 Forest Hills
Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124277

SAMPLE DESCRIPTION: G-109, Grab Groundwater
Pagel Pit/Program 2

Date Collected: 08/23/1993
EPA Cert. No.100220

Date Received: 08/24/1993
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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
BASE NEUTRAL COMPOUNDS-8270				
Benzyl butyl phthalate	<10	ug/L	8270 (1)	08/31/1993
Bis(2-chloroethoxy)methane	<10	ug/L	8270 (1)	08/31/1993
Bis(2-ethylhexyl)phthalate	24	ug/L	8270 (1)	08/31/1993
2-Chloronaphthalene	<10	ug/L	8270 (1)	08/31/1993
Di-n-butylphthalate	<10	ug/L	8270 (1)	08/31/1993
Diethyl phthalate	<10	ug/L	8270 (1)	08/31/1993
Dimethyl phthalate	<10	ug/L	8270 (1)	08/31/1993
Hexachloro-1,3-butadiene	<10	ug/L	8270 (1)	08/31/1993
Isophorone	<10	ug/L	8270 (1)	08/31/1993
Naphthalene	<10	ug/L	8270 (1)	08/31/1993
Nitrobenzene	<10	ug/L	8270 (1)	08/31/1993
Phenanthrene	<10	ug/L	8270 (1)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
ACID COMPOUNDS				
p-Cresol	<10	ug/L	8270 (1)	08/31/1993
Benzoic Acid	<10	ug/L	8270 (1)	08/31/1993
2,4-Dimethylphenol	<10	ug/L	8270 (1)	08/31/19
4-Nitrophenol	<10	ug/L	8270 (1)	08/31/19
Pentachlorophenol	<10	ug/L	8270 (1)	08/31/1993
Phenol	<10	ug/L	8270 (1)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES - 8080				
Aldrin	<0.05	ug/L	8080 (1)	09/22/1993
gamma-BHC	<0.05	ug/L	8080 (1)	09/22/1993
Chlordane	<0.5	ug/L	8080 (1)	09/22/1993
4,4'-DDT	<0.1	ug/L	8080 (1)	09/22/1993
Dieldrin	<0.1	ug/L	8080 (1)	09/22/1993
Endrin	<0.1	ug/L	8080 (1)	09/22/1993
Heptachlor	<0.05	ug/L	8080 (1)	09/22/1993
Heptachlor Epoxide	<0.05	ug/L	8080 (1)	09/22/1993
Toxaphene	<0.5	ug/L	8080 (1)	09/22/1993

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PESTICIDES				
Aldicarb	<1.0	ug/L	531.1 (5)	08/27/1993
Carbofuran	<1.0	ug/L	531.1 (5)	08/27/1993

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Methoxychlor	<0.5	ug/L	8080 (1)	09/22/1993
Alachlor	<2.0	ug/L	8080 (1)	09/16/1993
Atrazine	<3.0	ug/L	8080 (1)	09/16/1993
Parathion	<1.0	ug/L	8080 (1)	09/16/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
HERBICIDES				
2,4-D	<2.0	ug/L	8150 (1)	09/01/1993
2,4,5-TP	<2.0	ug/L	8150 (1)	09/01/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
2,4,5-T	*Not Analyzed			

*See Case Narrative

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PCB'S				
PCB-1016	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1221	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1232	<1.0	ug/L	8080 (1)	09/16/19
PCB-1242	<1.0	ug/L	8080 (1)	09/16/19
PCB-1248	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1254	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1260	<1.0	ug/L	8080 (1)	09/16/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Isopropyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
Ethyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
N-Butanol	<5.0	mg/L	8000 (1)	09/09/1993
n-Butyl alcohol	<5.0	mg/L	8000 (1)	09/09/1993
i-Propyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Alkalinity, dissolved	524	mg/L	310.1 (3)	08/30/1993
Alkalinity, Total (CaC03)	548	mg/L	310.1 (3)	08/27/1993
BOD - Five Day	2	mg/L	405.1 (3)	08/25/1993
Boron, ICP	<0.050	mg/L	200.7 (3)	09/15/19
Boron, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/15/19
Chloride	36	mg/L	325.3 (3)	09/01/1993
Chloride, dissolved	34	mg/L	325.3 (3)	09/01/1993
COD	<20	mg/L	410.4 (3)	08/26/1993
COD, dissolved	<20	mg/L	410.4 (3)	09/08/1993
Cyanide, Total	<0.005	mg/L	9010 (1)	08/26/1993
Fluoride, ISE	0.12	mg/L	340.2 (3)	09/04/1993
Fluoride, diss., ISE	0.12	mg/L	340.2 (3)	09/04/199
Fats, Oils & Grease (FOG)	<5	mg/L	413.1 (3)	09/16/199
Nitrogen, Ammonia	<0.1	mg/L	350.2 (3)	09/21/1993
N. Ammonia, dissolved	<0.13	mg/L	350.2 (3)	09/16/1993
Nitrogen, Nitrate	1.03	mg/L	4500NO3 (4)	09/11/1993
N. Nitrate, dissolved	1.09	mg/L	4500NO3 (4)	09/11/1993
pH	7.03	units	150.1 (3)	08/23/1993
Solids, Dissolved	670	mg/L	160.1 (3)	08/30/1993
Sulfate	9	mg/L	375.4 (3)	08/31/1993
Sulfate, dissolved	8	mg/L	375.4 (3)	08/31/1993
Total Organic Carbon (TOC)	1.66	mg/L	415.1 (3)	09/15/1993
Total Organic Halogens	<0.01	mg/L Cl-	450.1 (3)	09/14/1993
Aluminum, ICP	0.79	mg/L	200.7 (3)	09/14/1993
Aluminum, dissolved, ICP	1.06	mg/L	200.7 (3)	09/14/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Antimony, ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Antimony, diss., ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Arsenic, AA	<0.001	mg/L	3114B (4)	09/16/1993
Arsenic, dissolved, AA	<0.001	mg/L	3114B (4)	09/16/1993
Barium, AA	<0.20	mg/L	208.1 (3)	09/02/1993
Barium, dissolved, AA	<0.20	mg/L	208.1 (3)	09/02/1993
Beryllium, ICP	<0.0050	mg/L	200.7 (3)	09/14/1993
Beryllium, diss., ICP	<0.0050	mg/L	200.7 (3)	09/15/1993
Cadmium, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Cadmium, dissolved, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Calcium, AA	152	mg/L	215.1 (3)	09/22/1993
Calcium, dissolved, AA	149	mg/L	215.1 (3)	09/22/1993
Chromium, Total, AA	<0.020	mg/L	218.1 (3)	09/01/1993
Chromium, dissolved, AA	<0.020	mg/L	218.1 (3)	09/01/1993
Cobalt, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Cobalt, dissolved, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Copper, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Copper, dissolved, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Iron, AA	2.9	mg/L	236.1 (3)	09/18/1993
Iron, dissolved, AA	2.3	mg/L	236.1 (3)	09/18/1993
Lead, GFAA	<0.0050	mg/L	239.2 (3)	09/14/1993
Lead, dissolved, GFAA	<0.0050	mg/L	239.2 (3)	09/13/1993
Magnesium, AA	51.0	mg/L	242.1 (3)	09/22/1993
Magnesium, dissolved, AA	49.0	mg/L	242.1 (3)	09/22/1993
Manganese, AA	0.185	mg/L	243.1 (3)	09/18/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Manganese, dissolved, AA	0.067	mg/L	243.1 (3)	09/18/1993
Mercury, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Mercury, dissolved, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Nickel, AA	0.04	mg/L	249.1 (3)	09/01/19
Nickel, dissolved, AA	0.04	mg/L	249.1 (3)	09/01/19
Potassium, AA	<1.00	mg/L	258.1 (3)	09/22/1993
Potassium, dissolved, AA	<1.00	mg/L	258.1 (3)	09/22/1993
Selenium, AA	<0.002	mg/L	3114B (4)	09/15/1993
Selenium, dissolved, AA	<0.002	mg/L	3114B (4)	09/23/1993
Silver, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Silver, dissolved, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Sodium, AA	14	mg/L	273.1 (3)	09/24/199
Sodium, dissolved, AA	16	mg/L	273.1 (3)	09/24/199
Thallium, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Thallium, dissolved, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Vanadium, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Vanadium, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Zinc, AA	5.05	mg/L	289.1 (3)	09/17/1993
Zinc, dissolved, AA	3.1	mg/L	289.1 (3)	09/17/1993

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VOLATILES - 8240				
1,1,1,2-Tetrachloroethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,1-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,1,2,2-Tetrachloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2,3-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,2,4-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,2-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2,4-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,3,5-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1-Dichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,1-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
1,1-Dichloropropene	<1.0	ug/L	524.2 (5)	08/31/1993
1,2,3-Trichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dibromo-3-chloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dibromoethane (EDB)	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2-Dichloropropane	<1.0	ug/L	8240 (1)	08/31/1993
1,3-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
2,2-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
2-Chloroethyl vinyl ether	<2.0	ug/L	8240 (1)	08/31/1993
2-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
2-Hexanone	<1.0	ug/L	8240 (1)	08/31/1993
4-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
Acetone	<5.0	ug/L	8240 (1)	08/31/1993

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Acrolein	<100	ug/L	8240 (1)	08/31/1993
Acrylonitrile	<10	ug/L	8240 (1)	08/31/1993
Benzene	<1.0	ug/L	8240 (1)	08/31/1993
Bromobenzene	<1.0	ug/L	8240 (1)	08/31/19
Bromochloromethane	<1.0	ug/L	524.2 (5)	08/31/19.
Bromodichloromethane	<1.0	ug/L	8240 (1)	08/31/1993
Bromoform	<1.0	ug/L	8240 (1)	08/31/1993
Bromomethane	<1.0	ug/L	8240 (1)	08/31/1993
Carbon disulfide	<1.0	ug/L	8240 (1)	08/31/1993
Carbon tetrachloride	<1.0	ug/L	8240 (1)	08/31/1993
Chlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Chlorodibromomethane	<1.0	ug/L	8240 (1)	08/31/1993
Chloroethane	<10	ug/L	8240 (1)	08/31/199
Chloroform	<1.0	ug/L	8240 (1)	08/31/1993
Chloromethane	<10	ug/L	8240 (1)	08/31/1993
Dibromomethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,3-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,4-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Dichlorodifluoromethane	<1.0	ug/L	8240 (1)	08/31/1993
Ethyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Ethyl methacrylate	<5.0	ug/L	8240 (1)	08/31/1993
Ethylbenzene	<1.0	ug/L	8240 (1)	08/31/1993
Iodomethane	<1.0	ug/L	8240 (1)	08/31/1993
Isopropylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMATION
4920 Forest Hills
Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124278

SAMPLE DESCRIPTION: G-109-A, Grab Groundwater
Pagel Pit/Program 2

Date Collected: 08/23/1993
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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Methylene chloride	<5.0	ug/L	8240 (1)	08/31/1993
Methyl ethyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Methyl isobutyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Styrene	<1.0	ug/L	8240 (1)	08/31/1993
Tetrachloroethene	1.8	ug/L	8240 (1)	08/31/1993
Tetrahydrofuran	<20	ug/L	8240 (1)	08/31/1993
Toluene	<1.0	ug/L	8240 (1)	08/31/1993
Trichloroethene	1.4	ug/L	8240 (1)	08/31/1993
Trichlorofluoromethane	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl chloride	<10	ug/L	8240 (1)	08/31/1993
Xylene (total)	<1.0	ug/L	8240 (1)	08/31/1993
cis-1,2-Dichloroethene	3.9	ug/L	8240 (1)	08/31/1993
cis-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
n-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
n-Propylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
p-Isopropyltoluene	<2.0	ug/L	524.2 (5)	08/31/1993
sec-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
tert-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
trans-1,2-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,4-Dichloro-2-butene	<1.0	ug/L	8240 (1)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
BASE NEUTRAL COMPOUNDS-8270				
Benzyl butyl phthalate	<10	ug/L	8270 (1)	08/31/1993
Bis(2-chloroethoxy)methane	<10	ug/L	8270 (1)	08/31/1993
Bis(2-ethylhexyl)phthalate	<10	ug/L	8270 (1)	08/31/19
2-Chloronaphthalene	<10	ug/L	8270 (1)	08/31/19
Di-n-butylphthalate	<10	ug/L	8270 (1)	08/31/1993
Diethyl phthalate	<10	ug/L	8270 (1)	08/31/1993
Dimethyl phthalate	<10	ug/L	8270 (1)	08/31/1993
Hexachloro-1,3-butadiene	<10	ug/L	8270 (1)	08/31/1993
Isophorone	<10	ug/L	8270 (1)	08/31/1993
Naphthalene	<10	ug/L	8270 (1)	08/31/1993
Nitrobenzene	<10	ug/L	8270 (1)	08/31/1993
Phenanthrene	<10	ug/L	8270 (1)	08/31/199

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
ACID COMPOUNDS				
p-Cresol	<10	ug/L	8270 (1)	08/31/1993
Benzoic Acid	<10	ug/L	8270 (1)	08/31/1993
2,4-Dimethylphenol	<10	ug/L	8270 (1)	08/31/1993
4-Nitrophenol	<10	ug/L	8270 (1)	08/31/1993
Pentachlorophenol	<10	ug/L	8270 (1)	08/31/1993
Phenol	<10	ug/L	8270 (1)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES - 8080				
Aldrin	<0.05	ug/L	8080 (1)	09/22/1993
gamma-BHC	<0.05	ug/L	8080 (1)	09/22/1993
Chlordane	<0.5	ug/L	8080 (1)	09/22/19
4,4'-DDT	<0.1	ug/L	8080 (1)	09/22/19
Dieldrin	<0.1	ug/L	8080 (1)	09/22/1993
Endrin	<0.1	ug/L	8080 (1)	09/22/1993
Heptachlor	<0.05	ug/L	8080 (1)	09/22/1993
Heptachlor Epoxide	<0.05	ug/L	8080 (1)	09/22/1993
Toxaphene	<0.5	ug/L	8080 (1)	09/22/1993

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PESTICIDES				
Aldicarb	<1.0	ug/L	531.1 (5)	08/27/1993
Carbofuran	<1.0	ug/L	531.1 (5)	08/27/1993

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Methoxychlor	<0.5	ug/L	8080 (1)	09/22/1993
Alachlor	<2.0	ug/L	8080 (1)	09/16/1993
Atrazine	<3.0	ug/L	8080 (1)	09/16/1993
Parathion	<1.0	ug/L	8080 (1)	09/16/19

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
HERBICIDES				
2,4-D	<2.0	ug/L	8150 (1)	09/01/1993
2,4,5-TP	<2.0	ug/L	8150 (1)	09/01/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
2,4,5-T	*Not Analyzed			

*See Case Narrative

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PCB'S				
PCB-1016	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1221	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1232	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1242	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1248	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1254	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1260	<1.0	ug/L	8080 (1)	09/16/1993

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Isopropyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
Ethyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
N-Butanol	<5.0	mg/L	8000 (1)	09/09/1993
n-Butyl alcohol	<5.0	mg/L	8000 (1)	09/09/19
n-Propyl Alcohol	<5.0	mg/L	8000 (1)	09/09/19

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Alkalinity, dissolved	560	mg/L	310.1 (3)	08/30/1993
Alkalinity, Total (CaC03)	604	mg/L	310.1 (3)	08/27/1993
BOD - Five Day	<2	mg/L	405.1 (3)	08/25/1993
Boron, ICP	<0.050	mg/L	200.7 (3)	09/15/1993
Boron, dissolved, ICP	0.098	mg/L	200.7 (3)	09/15/1993
Chloride	36	mg/L	325.3 (3)	09/03/1993
Chloride, dissolved	32	mg/L	325.3 (3)	09/03/1993
COD	<20	mg/L	410.4 (3)	08/26/1993
COD, dissolved	<20	mg/L	410.4 (3)	09/08/1993
Cyanide, Total	<0.005	mg/L	9010 (1)	08/26/1993
Fluoride, ISE	0.14	mg/L	340.2 (3)	09/04/1993
Fluoride, diss., ISE	0.14	mg/L	340.2 (3)	09/04/1993
ats, Oils & Grease (FOG)	<5	mg/L	413.1 (3)	09/20/1993
Nitrogen, Ammonia	0.9	mg/L	350.2 (3)	09/21/1993
N. Ammonia, dissolved	0.2	mg/L	350.2 (3)	09/21/1993
Nitrogen, Nitrate	5.41	mg/L	4500NO3 (4)	09/11/1993
N. Nitrate, dissolved	5.00	mg/L	4500NO3 (4)	09/11/1993
pH	7.12	units	150.1 (3)	08/24/1993
Solids, Dissolved	720	mg/L	160.1 (3)	08/31/1993
Sulfate	56	mg/L	375.4 (3)	08/31/1993
Sulfate, dissolved	46	mg/L	375.4 (3)	08/31/1993
Total Organic Carbon (TOC)	2.75	mg/L	415.1 (3)	09/15/1993
Total Organic Halogens	<0.01	mg/L Cl-	450.1 (3)	09/14/1993
Aluminum, ICP	1.00	mg/L	200.7 (3)	09/14/1993
Aluminum, dissolved, ICP	1.21	mg/L	200.7 (3)	09/14/1993

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Antimony, ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Antimony, diss., ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Arsenic, AA	0.001	mg/L	3114B (4)	09/16/1993
Arsenic, dissolved, AA	0.001	mg/L	3114B (4)	09/16/19
Barium, AA	<0.20	mg/L	208.1 (3)	09/02/19
Barium, dissolved, AA	<0.20	mg/L	208.1 (3)	09/02/1993
Beryllium, ICP	<0.0050	mg/L	200.7 (3)	09/14/1993
Beryllium, diss., ICP	<0.0050	mg/L	200.7 (3)	09/15/1993
Cadmium, AA	0.010	mg/L	213.1 (3)	09/01/1993
Cadmium, dissolved, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Calcium, AA	394	mg/L	215.1 (3)	09/22/1993
Calcium, dissolved, AA	152	mg/L	215.1 (3)	09/22/199
Chromium, Total, AA	<0.020	mg/L	218.1 (3)	09/01/19
Chromium, dissolved, AA	<0.020	mg/L	218.1 (3)	09/01/1993
Cobalt, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Cobalt, dissolved, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Copper, AA	0.023	mg/L	220.1 (3)	09/09/1993
Copper, dissolved, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Iron, AA	1.5	mg/L	236.1 (3)	09/18/1993
Iron, dissolved, AA	<0.05	mg/L	236.1 (3)	09/18/1993
Lead, GFAA	0.0087	mg/L	239.2 (3)	09/13/1993
Lead, dissolved, GFAA	<0.0050	mg/L	239.2 (3)	09/13/1993
Magnesium, AA	188	mg/L	242.1 (3)	09/22/1993
Magnesium, dissolved, AA	67.0	mg/L	242.1 (3)	09/22/1993
Manganese, AA	0.765	mg/L	243.1 (3)	09/18/1993

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Manganese, dissolved, AA	0.080	mg/L	243.1 (3)	09/18/1993
Mercury, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Mercury, dissolved, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Nickel, AA	<0.04	mg/L	249.1 (3)	09/01/1993
Nickel, dissolved, AA	<0.04	mg/L	249.1 (3)	09/01/1993
Potassium, AA	8.18	mg/L	258.1 (3)	09/22/1993
Potassium, dissolved, AA	8.18	mg/L	258.1 (3)	09/22/1993
Selenium, AA	<0.002	mg/L	3114B (4)	09/23/1993
Selenium, dissolved, AA	<0.002	mg/L	3114B (4)	09/23/1993
Silver, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Silver, dissolved, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Sodium, AA	24	mg/L	273.1 (3)	09/24/1993
Sodium, dissolved, AA	26	mg/L	273.1 (3)	09/24/1993
Thallium, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Thallium, dissolved, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Vanadium, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Vanadium, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Zinc, AA	4.6	mg/L	289.1 (3)	09/17/1993
Zinc, dissolved, AA	0.498	mg/L	289.1 (3)	09/01/1993

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VOLATILES - 8240				
1,1,1,2-Tetrachloroethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,1-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,1,2,2-Tetrachloroethane	<1.0	ug/L	8240 (1)	08/31/19
1,2,3-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/19
1,2,4-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,2-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2,4-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,3,5-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1-Dichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,1-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
1,1-Dichloropropene	<1.0	ug/L	524.2 (5)	08/31/199
1,2,3-Trichloropropane	<1.0	ug/L	524.2 (5)	08/31/199
1,2-Dibromo-3-chloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dibromoethane (EDB)	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2-Dichloropropane	<1.0	ug/L	8240 (1)	08/31/1993
1,3-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
2,2-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
2-Chloroethyl vinyl ether	<2.0	ug/L	8240 (1)	08/31/1993
2-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
2-Hexanone	<1.0	ug/L	8240 (1)	08/31/1993
4-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
Acetone	<5.0	ug/L	8240 (1)	08/31/1993

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SAMPLE DESCRIPTION: G-113, Grab Groundwater
Pagel Pit/Program 2

Date Collected: 08/24/1993
EPA Cert. No.100220

Date Received: 08/25/1993
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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Acrolein	<100	ug/L	8240 (1)	08/31/1993
Acrylonitrile	<10	ug/L	8240 (1)	08/31/1993
Benzene	<1.0	ug/L	8240 (1)	08/31/1993
Bromobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Bromochloromethane	<1.0	ug/L	524.2 (5)	08/31/1993
Bromodichloromethane	<1.0	ug/L	8240 (1)	08/31/1993
Bromoform	<1.0	ug/L	8240 (1)	08/31/1993
Bromomethane	<1.0	ug/L	8240 (1)	08/31/1993
Carbon disulfide	<1.0	ug/L	8240 (1)	08/31/1993
Carbon tetrachloride	<1.0	ug/L	8240 (1)	08/31/1993
Chlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Chlorodibromomethane	<1.0	ug/L	8240 (1)	08/31/1993
hloroethane	<10	ug/L	8240 (1)	08/31/1993
hloroform	<1.0	ug/L	8240 (1)	08/31/1993
Chloromethane	<10	ug/L	8240 (1)	08/31/1993
Dibromomethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,3-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,4-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Dichlorodifluoromethane	<1.0	ug/L	8240 (1)	08/31/1993
Ethyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Ethyl methacrylate	<5.0	ug/L	8240 (1)	08/31/1993
Ethylbenzene	<1.0	ug/L	8240 (1)	08/31/1993
Iodomethane	<1.0	ug/L	8240 (1)	08/31/1993
Isopropylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMATION
4920 Forest Hills
Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124282

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Methylene chloride	<5.0	ug/L	8240 (1)	08/31/1993
Methyl ethyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Methyl isobutyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Styrene	<1.0	ug/L	8240 (1)	08/31/19
Tetrachloroethene	<1.0	ug/L	8240 (1)	08/31/19
Tetrahydrofuran	<20	ug/L	8240 (1)	08/31/1993
Toluene	<1.0	ug/L	8240 (1)	08/31/1993
Trichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
Trichlorofluoromethane	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl chloride	<10	ug/L	8240 (1)	08/31/1993
Xylene (total)	<1.0	ug/L	8240 (1)	08/31/199
cis-1,2-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/199
cis-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
n-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
n-Propylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
p-Isopropyltoluene	<2.0	ug/L	524.2 (5)	08/31/1993
sec-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
tert-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
trans-1,2-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,4-Dichloro-2-butene	<1.0	ug/L	8240 (1)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
BASE NEUTRAL COMPOUNDS-8270				
Benzyl butyl phthalate	<10	ug/L	8270 (1)	09/01/1993
Bis(2-chloroethoxy)methane	<10	ug/L	8270 (1)	09/01/1993
Bis(2-ethylhexyl)phthalate	<10	ug/L	8270 (1)	09/01/1993
2-Chloronaphthalene	<10	ug/L	8270 (1)	09/01/1993
Di-n-butylphthalate	<10	ug/L	8270 (1)	09/01/1993
Diethyl phthalate	<10	ug/L	8270 (1)	09/01/1993
Dimethyl phthalate	<10	ug/L	8270 (1)	09/01/1993
Hexachloro-1,3-butadiene	<10	ug/L	8270 (1)	09/01/1993
Isophorone	<10	ug/L	8270 (1)	09/01/1993
Naphthalene	<10	ug/L	8270 (1)	09/01/1993
Nitrobenzene	<10	ug/L	8270 (1)	09/01/1993
Phenanthrene	<10	ug/L	8270 (1)	09/01/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
ACID COMPOUNDS				
p-Cresol	<10	ug/L	8270 (1)	09/01/1993
Benzoic Acid	<10	ug/L	8270 (1)	09/01/1993
2,4-Dimethylphenol	<10	ug/L	8270 (1)	09/01/1[illegible]
4-Nitrophenol	<10	ug/L	8270 (1)	09/01/1[illegible]
Pentachlorophenol	<10	ug/L	8270 (1)	09/01/1993
Phenol	<10	ug/L	8270 (1)	09/01/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES - 8080				
Aldrin	<0.05	ug/L	8080 (1)	09/22/1993
gamma-BHC	<0.05	ug/L	8080 (1)	09/22/1993
Chlordane	<0.5	ug/L	8080 (1)	09/22/1993
4,4'-DDT	<0.1	ug/L	8080 (1)	09/22/1993
Dieldrin	<0.1	ug/L	8080 (1)	09/22/1993
Endrin	<0.1	ug/L	8080 (1)	09/22/1993
Heptachlor	<0.05	ug/L	8080 (1)	09/22/1993
Heptachlor Epoxide	<0.05	ug/L	8080 (1)	09/22/1993
Toxaphene	<0.5	ug/L	8080 (1)	09/22/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES				
Aldicarb	<1.0	ug/L	531.1 (5)	08/27/1993
Carbofuran	<1.0	ug/L	531.1 (5)	08/27/1993

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Methoxychlor	<0.5	ug/L	8080 (1)	09/22/1993
Alachlor	<2.0	ug/L	8080 (1)	09/16/1993
Atrazine	<3.0	ug/L	8080 (1)	09/16/1993
Parathion	<1.0	ug/L	8080 (1)	09/16/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
HERBICIDES				
2,4-D	<2.0	ug/L	8150 (1)	09/14/1993
2,4,5-TP	<2.0	ug/L	8150 (1)	09/14/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
2,4,5-T	*Not Analyzed			

*See Case Narrative

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PCB'S				
PCB-1016	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1221	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1232	<1.0	ug/L	8080 (1)	09/16/19[illegible]
PCB-1242	<1.0	ug/L	8080 (1)	09/16/1[illegible]
PCB-1248	<1.0	ug/L	8080 (1)	09/16/19[illegible]
PCB-1254	<1.0	ug/L	8080 (1)	09/16/1993
PCB-1260	<1.0	ug/L	8080 (1)	09/16/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Isopropyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
Ethyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
N-Butanol	<5.0	mg/L	8000 (1)	09/09/1993
n-Butyl alcohol	<5.0	mg/L	8000 (1)	09/09/1993
n-Propyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993

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09/29/1993

Job No: 93.03474
Sample No: 124283

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Alkalinity, dissolved	680	mg/L	310.1 (3)	08/30/1993
Alkalinity, Total (CaC03)	680	mg/L	310.1 (3)	08/30/1993
BOD - Five Day	2	mg/L	405.1 (3)	08/25/1993
Boron, ICP	0.104	mg/L	200.7 (3)	09/15/19[illegible]
Boron, dissolved, ICP	0.101	mg/L	200.7 (3)	09/15/1[illegible]
Chloride	28	mg/L	325.3 (3)	09/03/19[illegible]
Chloride, dissolved	24	mg/L	325.3 (3)	09/03/1993
COD	<20	mg/L	410.4 (3)	08/26/1993
COD, dissolved	<20	mg/L	410.4 (3)	09/08/1993
Cyanide, Total	<0.005	mg/L	9010 (1)	08/31/1993
Fluoride, ISE	0.11	mg/L	340.2 (3)	09/04/1993
Fluoride, diss., ISE	0.11	mg/L	340.2 (3)	09/04/1993
Fats, Oils & Grease (FOG)	<5	mg/L	413.1 (3)	09/20/199[illegible]
Nitrogen, Ammonia	0.2	mg/L	350.2 (3)	09/21/199[illegible]
N. Ammonia, dissolved	0.2	mg/L	350.2 (3)	09/21/1993
Nitrogen, Nitrate	3.07	mg/L	4500NO3 (4)	09/11/1993
N. Nitrate, dissolved	2.88	mg/L	4500NO3 (4)	09/11/1993
pH	7.00	units	150.1 (3)	08/24/1993
Solids, Dissolved	728	mg/L	160.1 (3)	08/31/1993
Sulfate	65	mg/L	375.4 (3)	08/31/1993
Sulfate, dissolved	55	mg/L	375.4 (3)	08/31/1993
Total Organic Carbon (TOC)	2.57	mg/L	415.1 (3)	09/15/1993
Total Organic Halogens	0.12	mg/L Cl-	450.1 (3)	09/14/1993
Aluminum, ICP	1.00	mg/L	200.7 (3)	09/14/1993
Aluminum, dissolved, ICP	1.14	mg/L	200.7 (3)	09/14/1993

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09/29/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Antimony, ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Antimony, diss., ICP	<0.50	mg/L	200.7 (3)	09/14/1993
Arsenic, AA	<0.001	mg/L	3114B (4)	09/16/1993
Arsenic, dissolved, AA	<0.001	mg/L	3114B (4)	09/16/1993
Barium, AA	<0.20	mg/L	208.1 (3)	09/02/1993
Barium, dissolved, AA	<0.20	mg/L	208.1 (3)	09/02/1993
Beryllium, ICP	<0.0050	mg/L	200.7 (3)	09/14/1993
Beryllium, diss., ICP	<0.0050	mg/L	200.7 (3)	09/15/1993
Cadmium, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Cadmium, dissolved, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Calcium, AA	197	mg/L	215.1 (3)	09/24/1993
Calcium, dissolved, AA	194	mg/L	215.1 (3)	09/24/1993
hromium, Total, AA	0.021	mg/L	218.1 (3)	09/01/1993
hromium, dissolved, AA	0.020	mg/L	218.1 (3)	09/01/1993
Cobalt, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Cobalt, dissolved, ICP	<0.10	mg/L	200.7 (3)	09/14/1993
Copper, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Copper, dissolved, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Iron, AA	0.15	mg/L	236.1 (3)	09/18/1993
Iron, dissolved, AA	<0.05	mg/L	236.1 (3)	09/18/1993
Lead, GFAA	<0.0050	mg/L	239.2 (3)	09/14/1993
Lead, dissolved, GFAA	<0.0050	mg/L	239.2 (3)	09/13/1993
Magnesium, AA	76	mg/L	242.1 (3)	09/24/1993
Magnesium, dissolved, AA	74	mg/L	242.1 (3)	09/24/1993
Manganese, AA	0.280	mg/L	243.1 (3)	09/18/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Manganese, dissolved, AA	0.281	mg/L	243.1 (3)	09/18/1993
Mercury, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Mercury, dissolved, AA	<0.0002	mg/L	245.1 (3)	09/17/1993
Nickel, AA	<0.04	mg/L	249.1 (3)	09/01/19[illegible]
Nickel, dissolved, AA	<0.04	mg/L	249.1 (3)	09/01/19[illegible]
Potassium, AA	5	mg/L	258.1 (3)	09/24/1993
Potassium, dissolved, AA	6	mg/L	258.1 (3)	09/24/1993
Selenium, AA	<0.002	mg/L	3114B (4)	09/23/1993
Selenium, dissolved, AA	<0.002	mg/L	3114B (4)	09/23/1993
Silver, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Silver, dissolved, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Sodium, AA	31	mg/L	273.1 (3)	09/24/1993
Sodium, dissolved, AA	36	mg/L	273.1 (3)	09/24/199[illegible]
Thallium, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Thallium, dissolved, ICP	<0.20	mg/L	200.7 (3)	09/14/1993
Vanadium, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Vanadium, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/14/1993
Zinc, AA	0.862	mg/L	289.1 (3)	09/01/1993
Zinc, dissolved, AA	0.665	mg/L	289.1 (3)	09/01/1993

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VOLATILES - 8240				
1,1,1,2-Tetrachloroethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,1-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,1,2,2-Tetrachloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2,3-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,2,4-Trichlorobenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1,2-Trichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2,4-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,3,5-Trimethylbenzene	<1.0	ug/L	524.2 (5)	08/31/1993
1,1-Dichloroethane	31	ug/L	8240 (1)	08/31/1993
1,1-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
1,1-Dichloropropene	<1.0	ug/L	524.2 (5)	08/31/1993
1,2,3-Trichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dibromo-3-chloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dibromoethane (EDB)	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichloroethane	<1.0	ug/L	8240 (1)	08/31/1993
1,2-Dichloropropane	4.8	ug/L	8240 (1)	08/31/1993
1,3-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
2,2-Dichloropropane	<1.0	ug/L	524.2 (5)	08/31/1993
2-Chloroethyl vinyl ether	<2.0	ug/L	8240 (1)	08/31/1993
2-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
2-Hexanone	<1.0	ug/L	8240 (1)	08/31/1993
4-Chlorotoluene	<1.0	ug/L	524.2 (5)	08/31/1993
Acetone	<5.0	ug/L	8240 (1)	08/31/1993

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMATION
4920 Forest Hills
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09/29/1993

Job No: 93.03474
Sample No: 124283

SAMPLE DESCRIPTION: G-113-A, Grab Groundwater
Pagel Pit/Program 2

Date Collected: 08/24/1993
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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Acrolein	<100	ug/L	8240 (1)	08/31/1993
Acrylonitrile	<10	ug/L	8240 (1)	08/31/1993
Benzene	2.8	ug/L	8240 (1)	08/31/1993
Bromobenzene	<1.0	ug/L	8240 (1)	08/31/1[illegible]
Bromochloromethane	<1.0	ug/L	524.2 (5)	08/31/1[illegible]
Bromodichloromethane	<1.0	ug/L	8240 (1)	08/31/1993
Bromoform	<1.0	ug/L	8240 (1)	08/31/1993
Bromomethane	<1.0	ug/L	8240 (1)	08/31/1993
Carbon disulfide	<1.0	ug/L	8240 (1)	08/31/1993
Carbon tetrachloride	<1.0	ug/L	8240 (1)	08/31/1993
Chlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
Chlorodibromomethane	<1.0	ug/L	8240 (1)	08/31/199[illegible]
Chloroethane	<10	ug/L	8240 (1)	08/31/199[illegible]
Chloroform	<1.0	ug/L	8240 (1)	08/31/1993
Chloromethane	<10	ug/L	8240 (1)	08/31/1993
Dibromomethane	<1.0	ug/L	524.2 (5)	08/31/1993
1,2-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,3-Dichlorobenzene	<1.0	ug/L	8240 (1)	08/31/1993
1,4-Dichlorobenzene	3.7	ug/L	8240 (1)	08/31/1993
Dichlorodifluoromethane	10	ug/L	8240 (1)	08/31/1993
Ethyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Ethyl methacrylate	<5.0	ug/L	8240 (1)	08/31/1993
Ethylbenzene	<1.0	ug/L	8240 (1)	08/31/1993
Iodomethane	<1.0	ug/L	8240 (1)	08/31/1993
Isopropylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993

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09/29/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Methylene chloride	<5.0	ug/L	8240 (1)	08/31/1993
Methyl ethyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Methyl isobutyl ketone	<5.0	ug/L	8240 (1)	08/31/1993
Styrene	<1.0	ug/L	8240 (1)	08/31/1993
Tetrachloroethene	22	ug/L	8240 (1)	08/31/1993
Tetrahydrofuran	<20	ug/L	8240 (1)	08/31/1993
Toluene	<1.0	ug/L	8240 (1)	08/31/1993
Trichloroethene	52	ug/L	8240 (1)	08/31/1993
Trichlorofluoromethane	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl acetate	<1.0	ug/L	8240 (1)	08/31/1993
Vinyl chloride	17	ug/L	8240 (1)	08/31/1993
Xylene (total)	<1.0	ug/L	8240 (1)	08/31/1993
cis-1,2-Dichloroethene	130	ug/L	8240 (1)	08/31/1993
cis-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
n-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
n-Propylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
p-Isopropyltoluene	<2.0	ug/L	524.2 (5)	08/31/1993
sec-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
tert-Butylbenzene	<2.0	ug/L	524.2 (5)	08/31/1993
trans-1,2-Dichloroethene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	08/31/1993
trans-1,4-Dichloro-2-butene	<1.0	ug/L	8240 (1)	08/31/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
BASE NEUTRAL COMPOUNDS-8270				
Benzyl butyl phthalate	<10	ug/L	8270 (1)	09/01/1993
Bis(2-chloroethoxy)methane	<10	ug/L	8270 (1)	09/01/1993
Bis(2-ethylhexyl)phthalate	<10	ug/L	8270 (1)	09/01/19
2-Chloronaphthalene	<10	ug/L	8270 (1)	09/01/19
Di-n-butylphthalate	<10	ug/L	8270 (1)	09/01/1993
Diethyl phthalate	<10	ug/L	8270 (1)	09/01/1993
Dimethyl phthalate	<10	ug/L	8270 (1)	09/01/1993
Hexachloro-1,3-butadiene	<10	ug/L	8270 (1)	09/01/1993
Isophorone	<10	ug/L	8270 (1)	09/01/1993
Naphthalene	<10	ug/L	8270 (1)	09/01/1993
Nitrobenzene	<10	ug/L	8270 (1)	09/01/199
Phenanthrene	<10	ug/L	8270 (1)	09/01/199

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
ACID COMPOUNDS				
p-Cresol	<10	ug/L	8270 (1)	09/01/1993
Benzoic Acid	<10	ug/L	8270 (1)	09/01/1993
2,4-Dimethylphenol	<10	ug/L	8270 (1)	09/01/1993
4-Nitrophenol	<10	ug/L	8270 (1)	09/01/1993
Pentachlorophenol	<10	ug/L	8270 (1)	09/01/1993
Phenol	<10	ug/L	8270 (1)	09/01/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES - 8080				
Aldrin	<0.05	ug/L	8080 (1)	09/22/1993
gamma-BHC	<0.05	ug/L	8080 (1)	09/22/1993
Chlordane	<0.5	ug/L	8080 (1)	09/22/19
4,4'-DDT	<0.1	ug/L	8080 (1)	09/22/19
Dieldrin	<0.1	ug/L	8080 (1)	09/22/1993
Endrin	<0.1	ug/L	8080 (1)	09/22/1993
Heptachlor	<0.05	ug/L	8080 (1)	09/22/1993
Heptachlor Epoxide	<0.05	ug/L	8080 (1)	09/22/1993
Toxaphene	<0.5	ug/L	8080 (1)	09/22/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES				
Aldicarb	<1.0	ug/L	531.1 (5)	08/27/1993
Carbofuran	<1.0	ug/L	531.1 (5)	08/27/1993

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Methoxychlor	<0.5	ug/L	8080 (1)	09/22/1993
Alachlor	<2.0	ug/L	8080 (1)	09/16/1993
Atrazine	<3.0	ug/L	8080 (1)	09/16/1993
Parathion	<1.0	ug/L	8080 (1)	09/16/19[illegible]

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
HERBICIDES				
2,4-D	<2.0	ug/L	8150 (1)	09/14/1993
2,4,5-TP	<2.0	ug/L	8150 (1)	09/14/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
2,4,5-T	*Not Analyzed			

*See Case Narrative

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PCB'S				
PCB-1016	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1221	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1232	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1242	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1248	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1254	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1260	<1.0	ug/L	8080 (1)	09/17/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Isopropyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
Ethyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
N-Butanol	<5.0	mg/L	8000 (1)	09/09/1993
n-Butyl alcohol	<5.0	mg/L	8000 (1)	09/09/19
n-Propyl Alcohol	<5.0	mg/L	8000 (1)	09/09/19

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09/29/1993

Job No: 93.03474
Sample No: 124451

SAMPLE DESCRIPTION: G-120-B, Grab Groundwater
Pagel Pit/Program 2

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Date Received: 08/27/1993
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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Alkalinity, dissolved	268	mg/L	310.1 (3)	09/09/1993
Alkalinity, Total (CaC03)	270	mg/L	310.1 (3)	09/09/1993
BOD - Five Day	<2	mg/L	405.1 (3)	08/27/1993
Boron, ICP	<0.050	mg/L	200.7 (3)	09/13/1993
Boron, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/13/1993
Chloride	14	mg/L	325.3 (3)	09/03/1993
Chloride, dissolved	12	mg/L	325.3 (3)	09/03/1993
COD	<20	mg/L	410.4 (3)	09/08/1993
COD, dissolved	<20	mg/L	410.4 (3)	09/08/1993
Cyanide, Total	<0.005	mg/L	9010 (1)	08/31/1993
Fluoride, ISE	0.11	mg/L	340.2 (3)	09/04/1993
Fluoride, diss., ISE	0.11	mg/L	340.2 (3)	09/04/1993
Fats, Oils & Grease (FOG)	<5	mg/L	413.1 (3)	09/21/1993
Nitrogen, Ammonia	<0.1	mg/L	350.2 (3)	09/21/1993
N. Ammonia, dissolved	<0.1	mg/L	350.2 (3)	09/21/1993
Nitrogen, Nitrate	1.78	mg/L	4500NO3 (4)	09/11/1993
N. Nitrate, dissolved	1.83	mg/L	4500NO3 (4)	09/11/1993
pH	7.44	units	150.1 (3)	08/27/1993
Solids, Dissolved	305	mg/L	160.1 (3)	09/01/1993
Sulfate	22	mg/L	375.4 (3)	09/07/1993
Sulfate, dissolved	20	mg/L	375.4 (3)	09/07/1993
Total Organic Carbon (TOC)	<1.00	mg/L	415.1 (3)	09/15/1993
Total Organic Halogens	0.09	mg/L Cl-	450.1 (3)	09/14/1993
Aluminum, ICP	0.41	mg/L	200.7 (3)	09/13/1993
Aluminum, dissolved, ICP	0.38	mg/L	200.7 (3)	09/13/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Antimony, ICP	<0.50	mg/L	200.7 (3)	09/09/1993
Antimony, diss., ICP	<0.50	mg/L	200.7 (3)	09/09/1993
Arsenic, AA	<0.001	mg/L	3114B (4)	09/22/1993
Arsenic, dissolved, AA	<0.001	mg/L	3114B (4)	09/22/19
Barium, AA	<0.20	mg/L	208.1 (3)	09/02/19
Barium, dissolved, AA	<0.20	mg/L	208.1 (3)	09/02/1993
Beryllium, ICP	<0.0050	mg/L	200.7 (3)	09/16/1993
Beryllium, diss., ICP	<0.0050	mg/L	200.7 (3)	09/16/1993
Cadmium, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Cadmium, dissolved, AA	<0.010	mg/L	213.1 (3)	09/01/1993
Calcium, AA	71	mg/L	215.1 (3)	09/24/1993
Calcium, dissolved, AA	70	mg/L	215.1 (3)	09/24/1993
Chromium, Total, AA	<0.020	mg/L	218.1 (3)	09/01/199
Chromium, dissolved, AA	<0.020	mg/L	218.1 (3)	09/01/199
Cobalt, ICP	<0.10	mg/L	200.7 (3)	09/09/1993
Cobalt, dissolved, ICP	<0.10	mg/L	200.7 (3)	09/09/1993
Copper, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Copper, dissolved, AA	<0.020	mg/L	220.1 (3)	09/09/1993
Iron, AA	0.26	mg/L	236.1 (3)	09/18/1993
Iron, dissolved, AA	0.09	mg/L	236.1 (3)	09/18/1993
Lead, GFAA	<0.0050	mg/L	239.2 (3)	09/09/1993
Lead, dissolved, GFAA	0.0071	mg/L	239.2 (3)	09/09/1993
Magnesium, AA	38	mg/L	242.1 (3)	09/24/1993
Magnesium, dissolved, AA	37	mg/L	242.1 (3)	09/24/1993
Manganese, AA	0.022	mg/L	243.1 (3)	09/18/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Manganese, dissolved, AA	<0.020	mg/L	243.1 (3)	09/18/1993
Mercury, AA	<0.0002	mg/L	245.1 (3)	09/20/1993
Mercury, dissolved, AA	<0.0002	mg/L	245.1 (3)	09/20/1993
Nickel, AA	<0.04	mg/L	249.1 (3)	09/01/1993
Nickel, dissolved, AA	<0.04	mg/L	249.1 (3)	09/01/1993
Potassium, AA	2	mg/L	258.1 (3)	09/24/1993
Potassium, dissolved, AA	2	mg/L	258.1 (3)	09/24/1993
Selenium, AA	<0.002	mg/L	3114B (4)	09/23/1993
Selenium, dissolved, AA	<0.002	mg/L	3114B (4)	09/23/1993
Silver, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Silver, dissolved, AA	<0.010	mg/L	272.1 (3)	09/08/1993
Sodium, AA	4	mg/L	273.1 (3)	09/24/1993
Sodium, dissolved, AA	6	mg/L	273.1 (3)	09/24/1993
Thallium, ICP	<0.20	mg/L	200.7 (3)	09/09/1993
Thallium, dissolved, ICP	<0.20	mg/L	200.7 (3)	09/09/1993
Vanadium, ICP	<0.050	mg/L	200.7 (3)	09/13/1993
Vanadium, dissolved, ICP	<0.050	mg/L	200.7 (3)	09/13/1993
Zinc, AA	<0.020	mg/L	289.1 (3)	09/01/1993
Zinc, dissolved, AA	<0.020	mg/L	289.1 (3)	09/01/1993

Brian Wanner, Division Manager
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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMATION
4920 Forest Hills
Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124451

SAMPLE DESCRIPTION: G-120-B, Grab Groundwater
Pagel Pit/Program 2

Date Collected: 08/27/1993
IEPA Cert. No.100220

Date Received: 08/27/1993
WDNR Cert. No.999447240

TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
VOLATILES - 8240				
1,1,1,2-Tetrachloroethane	<1.0	ug/L	524.2 (5)	09/02/1993
1,1,1-Trichloroethane	12	ug/L	8240 (1)	09/02/1993
1,1,2,2-Tetrachloroethane	<1.0	ug/L	8240 (1)	09/02/19[illegible]
1,2,3-Trichlorobenzene	<1.0	ug/L	524.2 (5)	09/02/19
1,2,4-Trichlorobenzene	<1.0	ug/L	524.2 (5)	09/02/1993
1,1,2-Trichloroethane	<1.0	ug/L	8240 (1)	09/02/1993
1,2,4-Trimethylbenzene	<1.0	ug/L	524.2 (5)	09/02/1993
1,3,5-Trimethylbenzene	<1.0	ug/L	524.2 (5)	09/02/1993
1,1-Dichloroethane	10	ug/L	8240 (1)	09/02/1993
1,1-Dichloroethene	2.1	ug/L	8240 (1)	09/02/1993
1,1-Dichloropropene	<1.0	ug/L	524.2 (5)	09/02/1993
1,2,3-Trichloropropane	<1.0	ug/L	524.2 (5)	09/02/199[illegible]
1,2-Dibromo-3-chloropropane	<1.0	ug/L	524.2 (5)	09/02/199[illegible]
1,2-Dibromoethane (EDB)	<1.0	ug/L	524.2 (5)	09/02/1993
1,2-Dichloroethane	1.1	ug/L	8240 (1)	09/02/1993
1,2-Dichloropropane	<1.0	ug/L	8240 (1)	09/02/1993
1,3-Dichloropropane	<1.0	ug/L	524.2 (5)	09/02/1993
1,3-Dichloropropene	<1.0	ug/L	8240 (1)	09/02/1993
2,2-Dichloropropane	<1.0	ug/L	524.2 (5)	09/02/1993
2-Chloroethyl vinyl ether	<2.0	ug/L	8240 (1)	09/02/1993
2-Chlorotoluene	<1.0	ug/L	524.2 (5)	09/02/1993
2-Hexanone	<1.0	ug/L	8240 (1)	09/02/1993
4-Chlorotoluene	<1.0	ug/L	524.2 (5)	09/02/1993
Acetone	<5.0	ug/L	8240 (1)	09/02/1993

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WINNEBAGO RECLAMATION
4920 Forest Hills
Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124451

SAMPLE DESCRIPTION: G-120-B, Grab Groundwater
Pagel Pit/Program 2

Date Collected: 08/27/1993
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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Acrolein	<100	ug/L	8240 (1)	09/02/1993
Acrylonitrile	<10	ug/L	8240 (1)	09/02/1993
Benzene	<1.0	ug/L	8240 (1)	09/02/1993
Bromobenzene	<1.0	ug/L	8240 (1)	09/02/1993
Bromochloromethane	<1.0	ug/L	524.2 (5)	09/02/1993
Bromodichloromethane	<1.0	ug/L	8240 (1)	09/02/1993
Bromoform	<1.0	ug/L	8240 (1)	09/02/1993
Bromomethane	<1.0	ug/L	8240 (1)	09/02/1993
Carbon disulfide	<1.0	ug/L	8240 (1)	09/02/1993
Carbon tetrachloride	<1.0	ug/L	8240 (1)	09/02/1993
Chlorobenzene	<1.0	ug/L	8240 (1)	09/02/1993
Chlorodibromomethane	<1.0	ug/L	8240 (1)	09/02/1993
Chloroethane	<10	ug/L	8240 (1)	09/02/1993
Chloroform	<1.0	ug/L	8240 (1)	09/02/1993
Chloromethane	<10	ug/L	8240 (1)	09/02/1993
Dibromomethane	<1.0	ug/L	524.2 (5)	09/02/1993
1,2-Dichlorobenzene	<1.0	ug/L	8240 (1)	09/02/1993
1,3-Dichlorobenzene	<1.0	ug/L	8240 (1)	09/02/1993
1,4-Dichlorobenzene	<1.0	ug/L	8240 (1)	09/02/1993
Dichlorodifluoromethane	<1.0	ug/L	8240 (1)	09/02/1993
Ethyl acetate	<1.0	ug/L	8240 (1)	09/02/1993
Ethyl methacrylate	<5.0	ug/L	8240 (1)	09/02/1993
Ethylbenzene	<1.0	ug/L	8240 (1)	09/02/1993
Iodomethane	<1.0	ug/L	8240 (1)	09/02/1993
Isopropylbenzene	<2.0	ug/L	524.2 (5)	09/02/1993

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Mr. Tom Hilbert
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4920 Forest Hills
Rockford, IL 61111

09/29/1993

Job No: 93.03474
Sample No: 124451

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Pagel Pit/Program 2

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Methylene chloride	<5.0	ug/L	8240 (1)	09/02/1993
Methyl ethyl ketone	<5.0	ug/L	8240 (1)	09/02/1993
Methyl isobutyl ketone	<5.0	ug/L	8240 (1)	09/02/1993
Styrene	<1.0	ug/L	8240 (1)	09/02/19[illegible]
Tetrachloroethene	10	ug/L	8240 (1)	09/02/19[illegible]
Tetrahydrofuran	42	ug/L	8240 (1)	09/02/199[illegible]
Toluene	<1.0	ug/L	8240 (1)	09/02/1993
Trichloroethene	16	ug/L	8240 (1)	09/02/1993
Trichlorofluoromethane	<1.0	ug/L	8240 (1)	09/02/1993
Vinyl acetate	<1.0	ug/L	8240 (1)	09/02/1993
Vinyl chloride	<10	ug/L	8240 (1)	09/02/1993
Xylene (total)	<1.0	ug/L	8240 (1)	09/02/1993
cis-1,2-Dichloroethene	68	ug/L	8240 (1)	09/02/199[illegible]
cis-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	09/02/199[illegible]
n-Butylbenzene	<2.0	ug/L	524.2 (5)	09/02/1993
n-Propylbenzene	<2.0	ug/L	524.2 (5)	09/02/1993
p-Isopropyltoluene	<2.0	ug/L	524.2 (5)	09/02/1993
sec-Butylbenzene	<2.0	ug/L	524.2 (5)	09/02/1993
tert-Butylbenzene	<2.0	ug/L	524.2 (5)	09/02/1993
trans-1,2-Dichloroethene	<1.0	ug/L	8240 (1)	09/02/1993
trans-1,3-Dichloropropene	<1.0	ug/L	8240 (1)	09/02/1993
trans-1,4-Dichloro-2-butene	<1.0	ug/L	8240 (1)	09/02/1993

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09/29/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
BASE NEUTRAL COMPOUNDS-8270				
Benzyl butyl phthalate	<10	ug/L	8270 (1)	09/09/1993
Bis(2-chloroethoxy)methane	<10	ug/L	8270 (1)	09/09/1993
Bis(2-ethylhexyl)phthalate	<10	ug/L	8270 (1)	09/09/1993
2-Chloronaphthalene	<10	ug/L	8270 (1)	09/09/1993
Di-n-butylphthalate	<10	ug/L	8270 (1)	09/09/1993
Diethyl phthalate	<10	ug/L	8270 (1)	09/09/1993
Dimethyl phthalate	<10	ug/L	8270 (1)	09/09/1993
Hexachloro-1,3-butadiene	<10	ug/L	8270 (1)	09/09/1993
Isophorone	<10	ug/L	8270 (1)	09/09/1993
Naphthalene	<10	ug/L	8270 (1)	09/09/1993
Nitrobenzene	<10	ug/L	8270 (1)	09/09/1993
Phenanthrene	<10	ug/L	8270 (1)	09/09/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
ACID COMPOUNDS				
p-Cresol	<10	ug/L	8270 (1)	09/09/1993
Benzoic Acid	<10	ug/L	8270 (1)	09/09/1993
2,4-Dimethylphenol	<10	ug/L	8270 (1)	09/09/19
4-Nitrophenol	<10	ug/L	8270 (1)	09/09/19
Pentachlorophenol	<10	ug/L	8270 (1)	09/09/1993
Phenol	<10	ug/L	8270 (1)	09/09/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES - 8080				
Aldrin	<0.05	ug/L	8080 (1)	09/23/1993
gamma-BHC	<0.05	ug/L	8080 (1)	09/23/1993
Chlordane	<0.5	ug/L	8080 (1)	09/23/1993
4,4'-DDT	<0.1	ug/L	8080 (1)	09/23/1993
Dieldrin	<0.1	ug/L	8080 (1)	09/23/1993
Endrin	<0.1	ug/L	8080 (1)	09/23/1993
Heptachlor	<0.05	ug/L	8080 (1)	09/23/1993
Heptachlor Epoxide	<0.05	ug/L	8080 (1)	09/23/1993
Toxaphene	<0.5	ug/L	8080 (1)	09/23/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PESTICIDES				
Aldicarb	<1.0	ug/L	531.1 (5)	09/01/1993
Carbofuran	<1.0	ug/L	531.1 (5)	09/01/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Methoxychlor	<0.5	ug/L	8080 (1)	09/23/1993
Alachlor	<2.0	ug/L	8080 (1)	09/23/1993
Atrazine	<3.0	ug/L	8080 (1)	09/23/1993
Parathion	<1.0	ug/L	8080 (1)	09/23/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
HERBICIDES				
2,4-D	<2.0	ug/L	8150 (1)	09/09/1993
2,4,5-TP	<2.0	ug/L	8150 (1)	09/09/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
2,4,5-T	*Not Analyzed			

*See Case Narrative

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
PCB'S				
PCB-1016	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1221	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1232	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1242	<1.0	ug/L	8080 (1)	09/17/1[illegible]
PCB-1248	<1.0	ug/L	8080 (1)	09/17/19[illegible]
PCB-1254	<1.0	ug/L	8080 (1)	09/17/1993
PCB-1260	<1.0	ug/L	8080 (1)	09/17/1993

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TEST NAME	RESULTS	UNITS	METHODS	DATE ANALYZED
Isopropyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
Ethyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993
N-Butanol	<5.0	mg/L	8000 (1)	09/09/1993
n-Butyl alcohol	<5.0	mg/L	8000 (1)	09/09/1993
n-Propyl Alcohol	<5.0	mg/L	8000 (1)	09/09/1993

BW

Brian Wanner, Division Manager
Rockford Division

WARZYN

December 16, 1993

Mr. Thomas Hilbert,
Enviromental Engineer
Winnebago Reclamation
8403 Lindenwood Road
Rockford, Illinois 61109

Re: Winnebago Reclamation
Program 2
Sampled November 1993

Dear Mr. Hilbert:

Enclosed are two copies of the analytical results and chain of custody for the samples collected November 11 and 12, 1993. The data diskette will be issued at a later date. Please feel free to call if you have any questions.

Sincerely,

WARZYN INC.

Sheila M. Tauschek

Sheila M. Tauschek
Project Service Manager

SMT/kaf/GLG
[var-ltrs]
55006602-lab

Enclosures: As Stated

cc: S. Tauschek

IE PERFECT BALANCE
WEEN TECHNOLOGY
AND CREATIVITY

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Tel: 608 231-4747
Fax: 608 231-4777

Date: 5/12/95

To: Tom Hilbert

Fax No.:

Company: Winnebago

Reference:

From: Kari-Ann Killian

Subject: Field Parameters Program 2 for NOV. '93

COMMENTS

If you do not receive all pages, or if there are any problems with this transmission, please call (608) 231-4747. Operator: _____ *No. of pages including cover:* 3

WINNEGABO RECLAMATION PROGRAM 2
SAMPLED NOVEMBER 1993

SAMPLE NUMBER	SAMPLE DESCRIPTION	ANALYTE	RESULT	UNITS	FOOTNOTE
L7723-0001	G107	Water Temperature	50.9	deg F	
L7723-0001	G107	Conductivity no temp. corr.	550	umhos	
L7723-0001	G107	pH	6.94	S.U.	
L7723-0001	G107	Elev of GW SURF	709.56	ft	
L7723-0001	G107	Depth of Water	27.94	ft	
L7723-0001	G107	BTM Well ELEV	699.08	ft	
L7723-0001	G107	Depth to Water FR MEA PT	30.02	ft	
L7723-0002	G113A	Water Temperature	52.7	deg F	
L7723-0002	G113A	Conductivity no temp. corr.	990	umhos	
L7723-0002	G113A	pH	6.75	S.U.	
L7723-0002	G113A	Elev of GW SURF	719.95	ft	
L7723-0002	G113A	Depth of Water	40.05	ft	
L7723-0002	G113A	BTM Well ELEV	684.89	ft	
L7723-0002	G113A	Depth to Water FR MEA PT	42.94	ft	
L7723-0003	G113	Water Temperature	53.6	deg F	
L7723-0003	G113	Conductivity no temp. corr.	900	umhos	
L7723-0003	G113	pH	6.79	S.U.	
L7723-0003	G113	Elev of GW SURF	720.1	ft	
L7723-0003	G113	Depth of Water	39.8	ft	
L7723-0003	G113	BTM Well ELEV	711.22	ft	
L7723-0003	G113	Depth to Water FR MEA PT	42.12	ft	
L7723-0004	G109	Water Temperature	51.8	deg F	
L7723-0004	G109	Conductivity no temp. corr.	900	umhos	
L7723-0004	G109	pH	6.71	S.U.	
L7723-0004	G109	Elev of GW SURF	721.32	ft	
L7723-0004	G109	Depth of Water	37.68	ft	
L7723-0004	G109	BTM Well ELEV	706.99	ft	
L7723-0004	G109	Depth to Water FR MEA PT	39.47	ft	
L7723-0005	G109A	Water Temperature	51.8	deg F	
L7723-0005	G109A	Conductivity no temp. corr.	820	umhos	
L7723-0005	G109A	pH	6.67	S.U.	
L7723-0005	G109A	Elev of GW SURF	721.15	ft	
L7723-0005	G109A	Depth of Water	37.95	ft	
L7723-0005	G109A	BTM Well ELEV	679.33	ft	
L7723-0005	G109A	Depth to Water FR MEA PT	39.88	ft	
L7723-0006	B11	Water Temperature	54.5	deg F	
L7723-0006	B11	Conductivity no temp. corr.	500	umhos	
L7723-0006	B11	pH	7.2	S.U.	
L7723-0006	B11	Elev of GW SURF	721.43	ft	
L7723-0006	B11	Depth of Water	36.37	ft	
L7723-0006	B11	BTM Well ELEV	710.34	ft	
L7723-0006	B11	Depth to Water FR MEA PT	39.31	ft	
L7723-0007	G108	Water Temperature	48.2	deg F	
L7723-0007	G108	Conductivity no temp. corr.	750	umhos	
L7723-0007	G108	pH	6.76	S.U.	
L7723-0007	G108	Elev of GW SURF	716.22	ft	
L7723-0007	G108	Depth of Water	32.88	ft	
L7723-0007	G108	BTM Well ELEV	704.89	ft	
L7723-0007	G108	Depth to Water FR MEA PT	35.07	ft	

Chk'd: App'd:
Date App'd:

WINNEGABO RECLAMATION PROGRAM 2
SAMPLED NOVEMBER 1993

SAMPLE NUMBER	SAMPLE DESCRIPTION	ANALYTE	RESULT	UNITS	FOOTNOTE
L7723-0015	B13	Water Temperature	53.6	deg F	
L7723-0015	B13	Conductivity no temp. corr.	980	umhos	
L7723-0015	B13	pH	6.49	S.U.	
L7723-0015	B13	Elev of GW SURF	714.38	ft	
L7723-0015	B13	Depth of Water	22.22	ft	
L7723-0015	B13	BTM Well ELEV	703.86	ft	
L7723-0015	B13	Depth to Water FR MEA PT	25.08	ft	
L7723-0016	P6	Water Temperature	51.8	deg F	
L7723-0016	P6	Conductivity no temp. corr.	500	umhos	
L7723-0016	P6	pH	7.15	S.U.	
L7723-0016	P6	Elev of GW SURF	713.93	ft	
L7723-0016	P6	Depth of Water	23.27	ft	
L7723-0016	P6	BTM Well ELEV	687.21	ft	
L7723-0016	P6	Depth to Water FR MEA PT	25.78	ft	
L7723-0017	G120B	Water Temperature	50	deg F	
L7723-0017	G120B	Conductivity no temp. corr.	400	umhos	
L7723-0017	G120B	pH	7.27	S.U.	
L7723-0017	G120B	Elev of GW SURF	722.39	ft	
L7723-0017	G120B	Depth of Water	33.11	ft	
L7723-0017	G120B	Depth to Water FR MEA PT	36.05	ft	
L7723-0018	B11A	Water Temperature	51.8	deg F	
L7723-0018	B11A	Conductivity no temp. corr.	530	umhos	
L7723-0018	B11A	pH	7.18	S.U.	
L7723-0018	B11A	Elev of GW SURF	720.37	ft	
L7723-0018	B11A	Depth of Water	36.23	ft	
L7723-0018	B11A.	BTM Well ELEV	681.99	ft	
L7723-0018	B11A	Depth to Water FR MEA PT	38.72	ft	

Chk'd: App'd:
Date App'd:

WARZYN

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A3 Elevated quantitation limit necessary to overcome difficult matrix.

A4 Result should be considered estimated with possible low bias due to unknown interference.

A5 Result should be considered estimated with possible low bias due to difficult matrix.

A6 Result should be considered estimated with possible low bias as indicated by method QC.

A7 Result should be considered estimated with possible high bias due to unknown interference.

A8 Result should be considered estimated with possible high bias due to difficult matrix.

A9 Result should be considered estimated with possible high bias as indicated by method QC.

A10 Result should be considered estimated due to non-homogeneous sample matrix.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated with possible high bias; analyte detected in method blank.

A16 Elevated quantitation limit indicated by batch QC.

M2 Total analysis performed; total concentration indicates that TCLP regulatory level could not be exceeded.

W1 Sample contained <0.5% solids; filtered sample was analyzed as the TCLP extract.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with_____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated with possible high bias due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G14 Measurement upon receipt performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

Definitions of Data Qualifiers and Terminology

There are a number of data qualifiers that are widely used within the environmental testing industry which may be utilized in our data reports. The following definitions of these qualifiers are included as a service to our clientele. The majority of the qualifiers have evolved from the EPA contract laboratory program (CLP) therefore, they may or may not be appropriate for the particular testing that you have requested. If your work did not involve CLP type analyses, only a few of these items may apply to your particular report.

A - This flag is utilized to indicate that a tentatively identified compound (TIC) is a suspected aldol-condensation product formed during sample processing and caution should be applied in interpreting these results.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to use caution when applying the results of this analyte.

BQL - Below quantitation limit indicates the compound was not detected in the sample above the practial quantitation limit.

C - Indicates that a pesticide identification has been confirmed utilizing GC/MS techniques.

D - Indicates the sample extract was diluted by the factor listed due to the sample matrix and/or concentration levels. All method detection limits or practical quantitation limits for the particular sample are therefore increased by this dilution factor.

E - Indicates that the concentration of the specific compound exceeded the calibration range of the instrument for that particular analysis.

J - Indicates an estimated value. It indicates that the compound was analyzed for and determined to be present in the sample. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meet the identification criteria but the result is less than the sample quantitation limit but greater than zero.

MDL - The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

ND - Indicates the compound or analyte was not detected in the sample above the method detection limit or the practical quantitation limit for the particular analysis.

PQL - The practical quantitation limit is the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine operating conditions.

U - Indicates the compound was analyzed for but not detected in the sample above the applicable quantitation limit.

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	405.1	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate+Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total	160.3	160.3
Solids, Total Volatile	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.

Methods for Soil Analysis, 2nd Ed.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	**ICP**	**Flame**	**Furnace**	**CV**	**ICP**	**Flame**	**Furnace**	**CV**
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "*Methods for Organic Chemical Analysis of Water and Wastes*", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

IEA
An Aquarion Company

Case Narrative: CH931372

Bis-Chloromethyl ether was analyzed at 100ug/L in hexane using a direct inject method of sample introduction. A mass spectra and a retention time were generated. When bis-chloromethyl ether, at a concentration of 100 ug/L, was introduced using a purge and trap method in water at a pH of 7 and <2, it could not be detected. Further investigation revealed that when bis-chloromethyl ether is in water, it decomposes to hydrochloric acid and formaldehyde.

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Footnotes

Sample #	Test	Footnote
L7723-0008	Antimony	A4
L7723-0008	Selenium	A4, Elevated quantitation limit necessary due to interference.
L7723-0009	Antimony	A4
L7723-0009	Selenium	A4, Elevated quantitation limit necessary due to interference.
L7723-0010	Antimony	A4
L7723-0010	Selenium	A4, Elevated quantitation limit necessary due to interference.
L7723-0011	Antimony	A4
L7723-0011	Selenium	A4, Elevated quantitation limit necessary due to interference.
L7723-0012	Antimony	A4
L7723-0013	Antimony	A4
L7723-0014	Antimony	A4
L7723-0019	Antimony	A4
L7723-0020	Antimony	A4
L7723-0021	Antimony	A4
L7723-0022	Antimony	A4

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

IEA
An Aquarion Company

Client: Warzyn
IEA Job#: CH931372
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	2	1	2	1	
Method Blank	VW1124	VW1126	VW1124	VW1126	VW1124	
Client ID	P6	P6	G120B	G120B	B11A	PQL
Analyte / Lab ID	31372 009	31372 009D	31372 010	31372 010D	31372 011	
Acetone	U	UD	U	UD	U	10
Acrolein	U	UD	U	UD	U	25
Acrylonitrile	U	UD	U	UD	U	10
Benzene	U	UD	U	UD	U	5
Bromobenzene	U	UD	U	UD	U	5
Bromochloromethane	U	UD	U	UD	U	5
Bromodichloromethane	U	UD	U	UD	U	5
Bromoform	U	UD	U	UD	U	5
Bromomethane	U	UD	U	UD	U	10
2-Butanone	U	UD	U	UD	U	5
1-Butanol	U	UD	U	UD	U	100
2-Butanol	U	UD	U	UD	U	100
n-Butylbenzene	U	UD	U	UD	U	5
sec-Butylbenzene	U	UD	U	UD	U	5
tert-Butylbenzene	U	UD	U	UD	U	5
Carbon disulfide	U	UD	U	UD	U	5
Carbon tetrachloride	U	UD	U	UD	U	5
Chlorobenzene	U	UD	U	UD	U	5
Chlorodibromomethane	U	UD	U	UD	U	5
Chloroethane	U	UD	U	UD	U	10
2-Chloroethyl vinyl ether	U	UD	U	UD	U	10
Chloroform	U	UD	U	UD	U	5
Chloromethane	U	UD	U	UD	U	10
o-Chlorotoluene	U	UD	U	UD	U	5
p-chlorotoluene	U	UD	U	UD	U	5
cumene (Isopropyl benzene)	U	UD	U	UD	U	5
cymene (p-Isopropyl toluene)	U	UD	U	UD	U	5
1,2-dibromo-3-chloropropane	U	UD	U	UD	U	5
trans-1,4,-dichloro-2-butene	U	UD	U	UD	U	5
1,2-Dichlorobenzene	U	UD	U	UD	U	5
1,3-Dichlorobenzene	U	UD	U	UD	U	5
1,4-dichlorobenzene	U	UD	U	UD	U	5
Dichlorodifluoromethane	U	UD	U	UD	U	5
1,1-Dichloroethane	U	UD	9	9J	U	5
1,2-Dichloroethane	U	UD	U	UD	U	5
1,1-Dichloroethene	U	UD	U	UD	U	5
total-1,2-dichloroethene	35	36	58E	59	U	5
cis-1,2-dichloroethene	35	36	58E	59	U	5
trans-1,2-dichloroethene	U	UD	U	UD	U	5
1,2-Dichloropropane	U	UD	U	UD	U	5
1,3-Dichloropropane	U	UD	U	UD	U	5

PQL = Practical Quantitation Limit
To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

IEA
An Aquarion Company

Client: Warzyn
IEA Job#: CH931372
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	2	1	2	1	
Method Blank	VW1124	VW1126	VW1124	VW1126	VW1124	
Client ID	P6	P6	G120B	G120B	B11A	PQL
Analyte Lab ID	31372 009	31372 009D	31372 010	31372 010D	31372 011	
2,2-Dichloropropane	U	UD	U	UD	U	5
1,1-Dichloropropene	U	UD	U	UD	U	5
total-1,3-dichloropropene	U	UD	U	UD	U	5
cis-1,3-dichloropropene	U	UD	U	UD	U	5
trans-1,3-dichloropropene	U	UD	U	UD	U	5
1,4-Difluorobenzene	U	UD	U	UD	U	5
Ethyl acetate	U	UD	U	UD	U	5
Ethanol	U	UD	U	UD	U	100
Ethyl methacrylate	U	UD	U	UD	U	5
Ethyl benzene	U	UD	U	UD	U	5
1,2-dibromoethane	U	UD	U	UD	U	5
2-Hexanone	U	UD	U	UD	U	10
Iodomethane	U	UD	U	UD	U	5
4-Methyl-2-pentanone	U	UD	U	UD	U	10
Methylene bromide	U	UD	U	UD	U	5
Methylene chloride	U	UD	8	UD	U	5
1-Propanol	U	UD	U	UD	U	100
2-Propanol	U	UD	U	UD	U	100
n-Propylbenzene	U	UD	U	UD	U	5
Styrene	U	UD	U	UD	U	10
1,1,1,2-Tetrachloroethane	U	UD	U	UD	U	5
1,1,2,2-Tetrachloroethane	U	UD	U	UD	U	5
Tetrachloroethene	49E	47	8	8	U	5
Tetrahydrofuran	U	UD	13	18	U	5
Toluene	U	UD	U	UD	U	5
1,2,3-Trichlorobenzene	U	UD	U	UD	U	5
1,2,4-Trichlorobenzene	U	UD	U	UD	U	5
1,1,1-Trichloroethane	9	9J	9	9J	U	5
1,1,2-Trichloroethane	U	UD	U	UD	U	5
Trichloroethene	15	17	12	14	U	5
Trichlorofluoromethane	U	UD	U	UD	U	5
1,2,3-Trichloropropane	U	UD	U	UD	U	5
1,2,4-Trimethylbenzene	U	UD	U	UD	U	5
1,3,5-Trimethylbenzene	U	UD	U	UD	U	5
Vinyl acetate	U	UD	U	UD	U	10
Vinyl chloride	U	UD	U	UD	U	2
m-Xylene	U	UD	U	UD	U	5
0-Xylene	U	UD	U	UD	U	5
p-Xylene	U	UD	U	UD	U	5
Xylenes	U	UD	U	UD	U	5
bis chloromethyl ether	U	UD	U	UD	U	*
Date Analyzed	11/24/93	11/26/93	11/24/93	11/26/93	11/24/93	

PQL = Practical Quantitation Limit

To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.
* See Case Narrative

IEA
An Aquarion Company

Client: Warzyn
IEA Job#: CH931372
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	1				
Method Blank	VW1124	VW1126				
Client ID	Method Blank	Method Blank				PQL
Analyte Lab ID	VW1124	VW1126				
Acetone	U	U				10
Acrolein	U	U				25
Acrylonitrile	U	U				10
Benzene	U	U				5
Bromobenzene	U	U				5
Bromochloromethane	U	U				5
Bromodichloromethane	U	U				5
Bromoform	U	U				5
Bromomethane	U	U				10
2-Butanone	U	U				5
1-Butanol	U	U				100
2-Butanol	U	U				100
n-Butylbenzene	U	U				5
sec-Butylbenzene	U	U				5
tert-Butylbenzene	U	U				5
Carbon disulfide	U	U				5
Carbon tetrachloride	U	U				5
Chlorobenzene	U	U				5
Chlorodibromomethane	U	U				5
Chloroethane	U	U				10
2-Chloroethyl vinyl ether	U	U				10
Chloroform	U	U				5
Chloromethane	U	U				10
o-Chlorotoluene	U	U				5
p-chlorotoluene	U	U				5
cumene (Isopropyl benzene)	U	U				5
cymene (p-Isopropyl toluene)	U	U				5
1,2-dibromo-3-chloropropane	U	U				5
trans-1,4,-dichloro-2-butene	U	U				5
1,2-Dichlorobenzene	U	U				5
1,3-Dichlorobenzene	U	U				5
1,4-dichlorobenzene	U	U				5
Dichlorodifluoromethane	U	U				5
1,1-Dichloroethane	U	U				5
1,2-Dichloroethane	U	U				5
1,1-Dichloroethene	U	U				5
total-1,2-dichloroethene	U	U				5
cis-1,2-dichloroethene	U	U				5
trans-1,2-dichloroethene	U	U				5
1,2-Dichloropropane	U	U				5
1,3-Dichloropropane	U	U				5

PQL = Practical Quantitation Limit
To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0001	G107	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 11-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0002	G113A	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 11-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0003	G113	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 11-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0004	G109	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 11-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0005	G109A	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 11-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0006	B11	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 11-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0007	G108	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 11-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0015	B13	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 12-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0016	P6	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 12-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					
L7723-0017	G120B	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	
		Sample Date: 12-NOV-93					
		Extract Date: 17-NOV-93					
		Analysis Date: 19-NOV-93					

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kef App'd: [illegible]
Date App'd: 12/13/93

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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0018	B11A	2,4-D	< .5	.5	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< .25	.25	GroundH2O	ug/L	
		2,4,5-T	< .25	.25	GroundH2O	ug/L	

Sample Date: 12-NOV-93
Extract Date: 17-NOV-93
Analysis Date: 19-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KOF App'd: [illegible]
Date App'd: 12/13/93

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TOTAL ORGANIC HALIDES REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test		Result	RL	Matrix	Units	Footnotes
L7723-0001	G107	Total Organic Halides		.07	.03	GroundH2O	mg/L	
		Sample Date:	11-NOV-93					
		Analysis Date:	20-NOV-93					
L7723-0002	G113A	Total Organic Halides		.07	.03	GroundH2O	mg/L	
		Sample Date:	11-NOV-93					
		Analysis Date:	20-NOV-93					
L7723-0003	G113	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	11-NOV-93					
		Analysis Date:	23-NOV-93					
L7723-0004	G109	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	11-NOV-93					
		Analysis Date:	23-NOV-93					
L7723-0005	G109A	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	11-NOV-93					
		Analysis Date:	23-NOV-93					
L7723-0006	B11	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	11-NOV-93					
		Analysis Date:	23-NOV-93					
L7723-0007	G108	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	11-NOV-93					
		Analysis Date:	23-NOV-93					
L7723-0015	B13	Total Organic Halides		.04	.03	GroundH2O	mg/L	
		Sample Date:	12-NOV-93					
		Analysis Date:	23-NOV-93					

RL = Reporting Limit

Ck'd: App'd:
Date App'd: 12/13/93

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TOTAL ORGANIC HALIDES REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0016	P6	Total Organic Halides	.04	.03	GroundH2O	mg/L	
		Sample Date: 12-NOV-93					
		Analysis Date: 23-NOV-93					
L7723-0017	G120B	Total Organic Halides	< .03	.03	GroundH2O	mg/L	
		Sample Date: 12-NOV-93					
		Analysis Date: 23-NOV-93					
L7723-0018	B11A	Total Organic Halides	< .03	.03	GroundH2O	mg/L	
		Sample Date: 12-NOV-93					
		Analysis Date: 23-NOV-93					

RL = Reporting Limit

Ck'd: App'd:
Date App'd: 12/13/93

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.

4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 107

Date Received: 11/12/93

APPL Sample No: R15755-98813W A-B

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	1.3	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Tallman

Checked By

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 107

Date Received: 11/12/93

APPL Sample No: R15755-98813W A-B

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By _____

Checked By _____

WARZYN

MADISON
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MADISON, WI 53705
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0001	G107	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kof App'd: [illegible]
Date App'd: 12/13/93

WARZYN

MADISON
ONE SCIENCE COURT
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(608) 231-4747
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0001	G107	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50 (n)	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4	4	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 17-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/16/93

WARZYN

MADISON
ONE SCIENCE COURT
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(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0001	G107 (DS)	Alkalinity, Total	364	10	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Barium	.04	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	11-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Cadmium	.0004	.0002	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Calcium	108	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
	TOC	~~Carbon~~, Total Organic	< 1	1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	11-NOV-93	17-NOV-93
		~~Chloride~~	18	2	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Fluoride	.12	.1	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Magnesium	39.4	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	.04	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		~~Nitrogen~~, Ammonia	.11	.1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Nitrogen, Nitrate	4.68	.02	GroundH2O	mg/L	11-NOV-93	19-NOV-93
	FOG	Oil and Grease	< 1	1	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Potassium	2.27	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	8.06	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		~~Solids, Total~~ Dissolved	448	20	GroundH2O	mg/L	11-NOV-93	18-NOV-93
		Sulfate	16	10	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	.64	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0008	G107-UNFILTERED	Aluminum	88.9	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	.006	.002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Barium	.42	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	.0023	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cadmium	.009	.005	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Calcium	423	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Chromium, Total	.2	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Cobalt	.1	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	.33	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Iron	248	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	.263	.003	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Magnesium	332	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	4.87	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	.0003	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	.26	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Potassium	10.9	.1	GroundH2O	mg/L	11-NOV-93	08-DEC-93
		Selenium	< .004	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		~~Sodium~~	14.9	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	08-DEC-93
		Vanadium	.2	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	7.8	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

IEA
An Aquarion Company

Client: Warzyn
IEA Job#: CH931372
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	5	1	1	1	
Method Blank	VW1124	VW1124	VW1124	VW1124	VW1124	
Client ID	G107	G113A	G113A	G113	G109	PQL
Analyte / Lab ID	31372 001	31372 002D	31372 002	31372 003	31372 004	
2,2-Dichloropropane	U	UD	U	U	U	5
1,1-Dichloropropene	U	UD	U	U	U	5
total-1,3-dichloropropene	U	UD	U	U	U	5
cis-1,3-dichloropropene	U	UD	U	U	U	5
trans-1,3-dichloropropene	U	UD	U	U	U	5
1,4-Difluorobenzene	U	UD	U	U	U	5
Ethyl acetate	U	UD	U	U	U	5
Ethanol	U	UD	U	U	U	100
Ethyl methacrylate	U	UD	U	U	U	5
Ethyl benzene	U	UD	U	U	U	5
1,2-dibromoethane	U	UD	U	U	U	5
2-Hexanone	U	UD	U	U	U	10
Iodomethane	U	UD	U	U	U	5
4-Methyl-2-pentanone	U	UD	U	U	U	10
Methylene bromide	U	UD	U	U	U	5
Methylene chloride	U	UD	U	U	U	5
1-Propanol	U	UD	U	U	U	100
2-Propanol	U	UD	160	U	U	100
n-Propylbenzene	U	UD	U	U	U	5
Styrene	U	UD	U	U	U	10
1,1,1,2-Tetrachloroethane	U	UD	U	U	U	5
1,1,2,2-Tetrachloroethane	U	UD	U	U	U	5
Tetrachloroethene	U	UD	25	U	U	5
Tetrahydrofuran	U	UD	U	U	U	5
Toluene	U	UD	U	U	U	5
1,2,3-Trichlorobenzene	U	UD	U	U	U	5
1,2,4-Trichlorobenzene	U	UD	U	U	U	5
1,1,1-Trichloroethane	U	UD	U	U	U	5
1,1,2-Trichloroethane	U	UD	U	U	U	5
Trichloroethene	U	46	49E	U	U	5
Trichlorofluoromethane	U	UD	U	U	U	5
1,2,3-Trichloropropane	U	UD	U	U	U	5
1,2,4-Trimethylbenzene	U	UD	U	U	U	5
1,3,5-Trimethylbenzene	U	UD	U	U	U	5
Vinyl acetate	U	UD	U	U	U	10
Vinyl chloride	U	UD	9	U	U	2
m-Xylene	U	UD	U	U	U	5
0-Xylene	U	UD	U	U	U	5
p-Xylene	U	UD	U	U	U	5
Xylenes	U	UD	U	U	U	5
bis chloromethyl ether	U	UD	U	U	U	*
Date Analyzed	11/24/93	11/24/93	11/24/93	11/24/93	11/24/93	

PQL = Practical Quantitation Limit

To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

* See Case Narrative

IEA
An Aquarion Company

Client: Warzyn
IEA Job#: CH931372
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	5	1	1	1	
Method Blank	VW1124	VW1124	VW1124	VW1124	VW1124	
Client ID	G107	G113A	G113A	G113	G109	PQL
	31372	31372	31372	31372	31372	
Analyte / Lab ID	001	002D	002	003	004	
Acetone	U	UD	U	U	U	10
Acrolein	U	UD	U	U	U	25
Acrylonitrile	U	UD	U	U	U	10
Benzene	U	UD	U	U	U	5
Bromobenzene	U	UD	U	U	U	5
Bromochloromethane	U	UD	U	U	U	5
Bromodichloromethane	U	UD	U	U	U	5
Bromoform	U	UD	U	U	U	5
Bromomethane	U	UD	U	U	U	10
2-Butanone	U	UD	U	U	U	5
1-Butanol	U	UD	160	U	U	100
2-Butanol	U	UD	130	U	U	100
n-Butylbenzene	U	UD	U	U	U	5
sec-Butylbenzene	U	UD	U	U	U	5
tert-Butylbenzene	U	UD	U	U	U	5
Carbon disulfide	U	UD	U	U	U	5
Carbon tetrachloride	U	UD	U	U	U	5
Chlorobenzene	U	UD	U	U	U	5
Chlorodibromomethane	U	UD	U	U	U	5
Chloroethane	U	UD	U	U	U	10
2-Chloroethyl vinyl ether	U	UD	U	U	U	10
Chloroform	U	UD	U	U	U	5
Chloromethane	U	UD	U	U	U	10
o-Chlorotoluene	U	UD	U	U	U	5
p-chlorotoluene	U	UD	U	U	U	5
cumene (Isopropyl benzene)	U	UD	U	U	U	5
cymene (p-Isopropyl toluene)	U	UD	U	U	U	5
1,2-dibromo-3-chloropropane	U	UD	U	U	U	5
trans-1,4,-dichloro-2-butene	U	UD	U	U	U	5
1,2-Dichlorobenzene	U	UD	U	U	U	5
1,3-Dichlorobenzene	U	UD	U	U	U	5
1,4-dichlorobenzene	U	UD	U	U	U	5
Dichlorodifluoromethane	U	UD	19	U	U	5
1,1-Dichloroethane	U	27	29	U	U	5
1,2-Dichloroethane	U	UD	U	U	U	5
1,1-Dichloroethene	U	UD	U	U	U	5
total-1,2-dichloroethene	U	115	119E	U	U	5
cis-1,2-dichloroethene	U	115	119E	U	U	5
trans-1,2-dichloroethene	U	UD	U	U	U	5
1,2-Dichloropropane	U	UD	6	U	U	5
1,3-Dichloropropane	U	UD	U	U	U	5

PQL = Practical Quantitation Limit
To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0006	B11 (0/5)	Alkalinity, Total	300	10	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Barium	.02	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	11-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Cadmium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Calcium	73.9	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Carbon, Total Organic	11	1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Chemical Oxygen Demand	32	20	GroundH2O	mg/L	11-NOV-93	17-NOV-93
		Chloride	8	2	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Magnesium	37.9	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Nitrogen, Ammonia	.11	.1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Nitrogen, Nitrate	2.29	.02	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Oil and Grease	2	1	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Potassium	1.11	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	4.32	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Solids, Total Dissolved	358	20	GroundH2O	mg/L	11-NOV-93	18-NOV-93
		Sulfate	25	10	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	1.13	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0013	B11-UNFILTERED	Aluminum	1.44	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Barium	.05	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Calcium	105	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Chromium, Total	.02	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	.02	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Iron	49.3	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	.082	.003	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Magnesium	59.6	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	.12	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Potassium	1.21	.1	GroundH2O	mg/L	11-NOV-93	08-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	18.7	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	8.01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KCG App'd: [illegible]
Date App'd: 12/13/93

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 B 11

Date Received: 11/12/93

APPL Sample No: R15755-98819W A-B

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By

Checked By

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 B 11

Date Received: 11/12/93

APPL Sample No: R15755-98819W A-B

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Tallman

Checked By

IEA
An Aquarion Company

Client: Warzyn
IEA Job#: CH931372
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Analyte / Lab ID						PQL
Dilution Factor (DF)	1	1	1	1	2	
Method Blank	VW1124	VW1124	VW1124	VW1124	VW1126	
Client ID	G109A	B11	G108	B13	B13	
Lab ID	31372 005	31372 006	31372 007	31372 008	31372 008D	
Acetone	U	U	U	U	UD	10
Acrolein	U	U	U	U	UD	25
Acrylonitrile	U	U	U	U	UD	10
Benzene	U	U	U	U	UD	5
Bromobenzene	U	U	U	U	UD	5
Bromochloromethane	U	U	U	U	UD	5
Bromodichloromethane	U	U	U	U	UD	5
Bromoform	U	U	U	U	UD	5
Bromomethane	U	U	U	U	UD	10
2-Butanone	U	U	U	U	UD	5
1-Butanol	U	U	U	U	UD	100
2-Butanol	U	U	U	U	UD	100
n-Butylbenzene	U	U	U	U	UD	5
sec-Butylbenzene	U	U	U	U	UD	5
tert-Butylbenzene	U	U	U	U	UD	5
Carbon disulfide	U	U	U	U	UD	5
Carbon tetrachloride	U	U	U	U	UD	5
Chlorobenzene	U	U	U	U	UD	5
Chlorodibromomethane	U	U	U	U	UD	5
Chloroethane	U	U	U	U	UD	10
2-Chloroethyl vinyl ether	U	U	U	U	UD	10
Chloroform	U	U	U	U	UD	5
Chloromethane	U	U	U	U	UD	10
o-Chlorotoluene	U	U	U	U	UD	5
p-chlorotoluene	U	U	U	U	UD	5
cumene (Isopropyl benzene)	U	U	U	U	UD	5
cymene (p-Isopropyl toluene)	U	U	U	U	UD	5
1,2-dibromo-3-chloropropane	U	U	U	U	UD	5
trans-1,4,-dichloro-2-butene	U	U	U	U	UD	5
1,2-Dichlorobenzene	U	U	U	U	UD	5
1,3-Dichlorobenzene	U	U	U	11	11	5
1,4-dichlorobenzene	U	U	U	U	UD	5
Dichlorodifluoromethane	U	U	U	U	UD	5
1,1-Dichloroethane	U	U	U	8	UD	5
1,2-Dichloroethane	U	U	U	U	UD	5
1,1-Dichloroethene	U	U	U	U	UD	5
total-1,2-dichloroethene	U	U	7	55E	55	5
cis-1,2-dichloroethene	U	U	7	55E	55	5
trans-1,2-dichloroethene	U	U	U	U	UD	5
1,2-Dichloropropane	U	U	U	U	UD	5
1,3-Dichloropropane	U	U	U	U	UD	5

PQL = Practical Quantitation Limit
To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

IEA
An Aquarion Company

Client: Warzyn
IEA Job#: CH931372
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	1	1	1	2	
Method Blank	VW1124	VW1124	VW1124	VW1124	VW1126	
Client ID	G109A	B11	G108	B13	B13	PQL
Analyte / Lab ID	31372 005	31372 006	31372 007	31372 008	31372 008D	
2,2-Dichloropropane	U	U	U	U	UD	5
1,1-Dichloropropene	U	U	U	U	UD	5
total-1,3-dichloropropene	U	U	U	U	UD	5
cis-1,3-dichloropropene	U	U	U	U	UD	5
trans-1,3-dichloropropene	U	U	U	U	UD	5
1,4-Difluorobenzene	U	U	U	U	UD	5
Ethyl acetate	U	U	U	U	UD	5
Ethanol	U	U	U	U	UD	100
Ethyl methacrylate	U	U	U	U	UD	5
Ethyl benzene	U	U	U	U	UD	5
1,2-dibromoethane	U	U	U	U	UD	5
2-Hexanone	U	U	U	U	UD	10
Iodomethane	U	U	U	U	UD	5
4-Methyl-2-pentanone	U	U	U	U	UD	10
Methylene bromide	U	U	U	U	UD	5
Methylene chloride	U	U	14	U	UD	5
1-Propanol	U	U	U	U	UD	100
2-Propanol	U	U	U	U	UD	100
n-Propylbenzene	U	U	U	U	UD	5
Styrene	U	U	U	U	UD	10
1,1,1,2-Tetrachloroethane	U	U	U	U	UD	5
1,1,2,2-Tetrachloroethane	U	U	U	U	UD	5
Tetrachloroethene	U	U	U	12	11	5
Tetrahydrofuran	U	U	U	4J	12	5
Toluene	U	U	U	U	UD	5
1,2,3-Trichlorobenzene	U	U	U	U	UD	5
1,2,4-Trichlorobenzene	U	U	U	U	UD	5
1,1,1-Trichloroethane	U	U	U	U	UD	5
1,1,2-Trichloroethane	U	U	U	U	UD	5
Trichloroethene	U	U	U	13	14	5
Trichlorofluoromethane	U	U	U	U	UD	5
1,2,3-Trichloropropane	U	U	U	U	UD	5
1,2,4-Trimethylbenzene	U	U	U	U	UD	5
1,3,5-Trimethylbenzene	U	U	U	U	UD	5
Vinyl acetate	U	U	U	U	UD	10
Vinyl chloride	U	U	U	U	UD	2
m-Xylene	U	U	U	U	UD	5
0-Xylene	U	U	U	U	UD	5
p-Xylene	U	U	U	U	UD	5
Xylenes	U	U	U	U	UD	5
bis chloromethyl ether	U	U	U	U	UD	*
Date Analyzed	11/24/93	11/24/93	11/24/93	11/24/93	11/26/93	

PQL = Practical Quantitation Limit

To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.
* See Case Narrative

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0006	B11	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 52	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 52	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 52	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.2	4	GroundH2O	ug/L	A1

Sample Date: 11-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/16/93

WARZYN

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MADISON, WI 53705
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0006	B11	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kaf App'd: [illegible]
Date App'd: 12/13/93

WARZYN

MADISON
ONE SCIENCE COURT
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0018	B11A (DIS)	Alkalinity, Total	385	10	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Barium	.03	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH20	mg/L	12-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	12-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH20	mg/L	12-NOV-93	06-DEC-93
		Cadmium	.0007	.0002	GroundH20	mg/L	12-NOV-93	19-NOV-93
		Calcium	98.9	1	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Carbon, Total Organic	9.9	1	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Chemical Oxygen Demand	39	20	GroundH20	mg/L	12-NOV-93	17-NOV-93
		Chloride	6	2	GroundH20	mg/L	12-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH20	mg/L	12-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Magnesium	48	1	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Manganese	< .01	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH20	mg/L	12-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Nitrogen, Ammonia	< .1	.1	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Nitrogen, Nitrate	2.64	.02	GroundH20	mg/L	12-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH20	mg/L	12-NOV-93	01-DEC-93
		Potassium	.62	.1	GroundH20	mg/L	12-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH20	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Sodium	8.75	2	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Solids, Total Dissolved	436	20	GroundH20	mg/L	12-NOV-93	18-NOV-93
		Sulfate	26	10	GroundH20	mg/L	12-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH20	mg/L	12-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Zinc	3	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kaf App'd: SJ
Date App'd: 12/13/93

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0022	B11A-UNFILTERED	Aluminum	.88	.05	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Barium	.03	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Calcium	110	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Chromium, Total	.02	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Copper	.02	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Iron	8.51	.02	GroundH2O	mg/L	12-NOV-93	08-DEC-93
		Lead	.143	.003	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Magnesium	54.5	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Manganese	.04	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Potassium	.72	.1	GroundH2O	mg/L	12-NOV-93	08-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Sodium	22.1	2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	12-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	12-NOV-93	08-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Zinc	8.8	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KOF App'd: [illegible]
Date App'd: 12/13/93

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0018	B11A	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 12-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KOF App'd: GFM
Date App'd: 12/13/93

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0018	B11A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 52	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 52	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 52	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.1	4	GroundH2O	ug/L	A1

Sample Date: 12-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/16/93

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206
B 11A
APPL Sample No: R15763-98836W

Date Received: 11/15/93

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steve Tallman

Checked By

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206 B 11A

Date Received: 11/15/93

APPL Sample No: R15763-98836W

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By Wayne Stevenson

Checked By

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0015	B13 DIS	Alkalinity, Total	654	10	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Barium	.21	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	7	1	GroundH2O	mg/L	12-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Cadmium	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	19-NOV-93
		Calcium	161	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Carbon, Total Organic	3.3	1	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	12-NOV-93	17-NOV-93
		Chloride	45	2	GroundH2O	mg/L	12-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH2O	mg/L	12-NOV-93	19-NOV-93
		Iron	.26	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Magnesium	75.6	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Manganese	.26	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Nitrogen, Ammonia	.33	.1	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Nitrogen, Nitrate	9.63	.02	GroundH2O	mg/L	12-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Potassium	29	.1	GroundH2O	mg/L	12-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Sodium	18.2	2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Solids, Total Dissolved	800	20	GroundH2O	mg/L	12-NOV-93	18-NOV-93
		Sulfate	41	10	GroundH2O	mg/L	12-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH2O	mg/L	12-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Zinc	.66	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kof App'd: [illegible]
Date App'd: 12/13/93

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0019	B13-UNFILTERED	Aluminum	.23	.05	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Barium	.23	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH20	mg/L	12-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Calcium	162	1	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Chromium, Total	.04	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Copper	.02	.01	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Iron	5.01	.02	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Lead	.06	.003	GroundH20	mg/L	12-NOV-93	01-DEC-93
		Magnesium	73.7	1	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Manganese	.33	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH20	mg/L	12-NOV-93	29-NOV-93
		Nickel	.02	.02	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Potassium	29.5	.1	GroundH20	mg/L	12-NOV-93	08-DEC-93
		Selenium	< .002	.002	GroundH20	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Sodium	19.1	2	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH20	mg/L	12-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Zinc	5.85	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0015	B13	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	64	4	GroundH2O	ug/L	

Sample Date: 12-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KJ App'd: [illegible]
Date App'd: 12/16/93

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0015	B13	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 12-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206
B 13

Date Received: 11/15/93

APPL Sample No: R15763-98835W

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Allman

Checked By

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206
B 13

Date Received: 11/15/93

APPL Sample No: R15763-98835W

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By _____

Checked By _____

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0007	G108	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4	4	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/16/93

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0007	G108	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

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Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif.
55006602 G 108
APPL Sample No: R15755-98814W A-B

Date Received: 11/12/93

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Tallman

Checked By Mike Ray

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 108

Date Received: 11/12/93

APPL Sample No: R15755-98814W A-B

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By _____

Checked By _____

WARZYN

MADISON
ONE SCIENCE COURT
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0007	G108 OIS	Alkalinity, Total	492	10	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Barium	.04	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	11-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH20	mg/L	11-NOV-93	06-DEC-93
		Cadmium	< .0002	.0002	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Calcium	128	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Carbon, Total Organic	15	1	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Chemical Oxygen Demand	50	20	GroundH20	mg/L	11-NOV-93	17-NOV-93
		Chloride	11	2	GroundH20	mg/L	11-NOV-93	16-NOV-93
		Chromium, Total	.0002	.0002	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Magnesium	63.5	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Manganese	.01	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH20	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Nitrogen, Ammonia	< .1	.1	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Nitrogen, Nitrate	13.1	.02	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Potassium	.37	.1	GroundH20	mg/L	11-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH20	mg/L	11-NOV-93	02-DEC-93
		Silver	.01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Sodium	2.68	2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Solids, Total Dissolved	580	20	GroundH20	mg/L	11-NOV-93	18-NOV-93
		Sulfate	< 10	10	GroundH20	mg/L	11-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH20	mg/L	11-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Zinc	.44	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

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ONE SCIENCE COURT
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MADISON, WI 53705
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0014	G108-UNFILTERED	Aluminum	1.95	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	.01	.002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Barium	.05	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Calcium	172	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Chromium, Total	.07	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	.03	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Iron	12.1	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	.052	.003	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Magnesium	89.8	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	.22	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	.04	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Potassium	.8	.1	GroundH2O	mg/L	11-NOV-93	08-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	10.1	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	3.9	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kof App'd: [illegible]
Date App'd: 12/13/93

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0004	G109 D15	Alkalinity, Total	652	10	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Barium	.14	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	11-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH20	mg/L	11-NOV-93	06-DEC-93
		Cadmium	.0005	.0002	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Calcium	196	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Carbon, Total Organic	14	1	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Chemical Oxygen Demand	50	20	GroundH20	mg/L	11-NOV-93	17-NOV-93
		Chloride	34	2	GroundH20	mg/L	11-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Magnesium	58.4	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Manganese	.04	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH20	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Nitrogen, Ammonia	< .1	.1	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Nitrogen, Nitrate	2.84	.02	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Potassium	.6	.1	GroundH20	mg/L	11-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH20	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Sodium	14.3	2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Solids, Total Dissolved	774	20	GroundH20	mg/L	11-NOV-93	18-NOV-93
		Sulfate	11	10	GroundH20	mg/L	11-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH20	mg/L	11-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Zinc	2.23	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kaf App'd: [illegible]
Date App'd: 12/13/93

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0011	G109-UNFILTERED	Aluminum	.2	.05	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Barium	.14	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Calcium	190	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Chromium, Total	.02	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Copper	.01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Iron	1.23	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Lead	.028	.003	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Magnesium	58.9	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Manganese	.05	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH20	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Potassium	.75	.1	GroundH20	mg/L	11-NOV-93	08-DEC-93
		Selenium	< .004	.002	GroundH20	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Sodium	17.8	2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH20	mg/L	11-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Zinc	2.83	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kof App'd: [illegible]
Date App'd: 12/13/93

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0004	G109	Phenol	< 100	10	GroundH2O	ug/L	A3
		3&4-Methylphenol	< 100	10	GroundH2O	ug/L	A3
		Nitrobenzene	< 100	10	GroundH2O	ug/L	A3
		Isophorone	< 100	10	GroundH2O	ug/L	A3
		2,4-Dimethylphenol	< 100	10	GroundH2O	ug/L	A3
		Bis(2-chloroethoxy)methane	< 100	10	GroundH2O	ug/L	A3
		Benzoic Acid	< 500	50	GroundH2O	ug/L	A3
		Naphthalene	< 100	10	GroundH2O	ug/L	A3
		Hexachlorobutadiene	< 100	10	GroundH2O	ug/L	A3
		2-Chloronaphthalene	< 100	10	GroundH2O	ug/L	A3
		Dimethyl phthalate	< 100	10	GroundH2O	ug/L	A3
		4-Nitrophenol	< 500	50	GroundH2O	ug/L	A3
		Diethyl phthalate	< 100	10	GroundH2O	ug/L	A3
		Carbofuran	< 100	10	GroundH2O	ug/L	A3
		Pentachlorophenol	< 500	50	GroundH2O	ug/L	A3
		Phenanthrene	< 100	10	GroundH2O	ug/L	A3
		Di-n-butylphthalate	< 100	10	GroundH2O	ug/L	A3
		Butylbenzylphthalate	< 100	10	GroundH2O	ug/L	A3
		Bis(2-ethylhexyl)phthalate	< 40	4	GroundH2O	ug/L	A3

Sample Date: 11-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/16/93

WARZYN

MADISON
ONE SCIENCE COURT
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0004	G109	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 109

Date Received: 11/12/93

APPL Sample No: R15755-98815W A-B

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By _____

Checked By _____

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0005	G109A	Alkalinity, Total (DIS)	605	10	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Aluminum	.06	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Barium	.14	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	3	1	GroundH2O	mg/L	11-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Cadmium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Calcium	168	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Carbon, Total Organic	12	1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Chemical Oxygen Demand	42	20	GroundH2O	mg/L	11-NOV-93	17-NOV-93
		Chloride	30	2	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Iron	3.3	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Magnesium	54.3	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	.23	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Nitrogen, Ammonia	.17	.1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Nitrogen, Nitrate	.41	.02	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Potassium	.85	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	17.1	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Solids, Total Dissolved	672	20	GroundH2O	mg/L	11-NOV-93	18-NOV-93
		Sulfate	< 10	10	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	3.44	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0012	G109A-	Aluminum	.63	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
	UNFILTERED	Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Barium	.14	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Calcium	162	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Chromium, Total	.04	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Iron	6.56	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	.03	.003	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Magnesium	52.1	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	.23	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	.02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Potassium	1.12	.1	GroundH2O	mg/L	11-NOV-93	08-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	17.1	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	5.86	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

WARZYN

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ONE SCIENCE COURT
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0005	G109A	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KOJ App'd: [illegible]
Date App'd: 12/13/93

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0005	G109A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4	4	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/16/93

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 109A

Date Received: 11/12/93

APPL Sample No: R15755-98816W A-B

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Tallman

Checked By

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 109A

Date Received: 11/12/93

APPL Sample No: R15755-98816W A-B

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By _____

Checked By _____

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0003	G113 (P/S)	Alkalinity, Total	625	10	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Barium	.1	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	11-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cadmium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Calcium	165	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Carbon, Total Organic	14	1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Chemical Oxygen Demand	46	20	GroundH2O	mg/L	11-NOV-93	17-NOV-93
		Chloride	38	2	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Magnesium	67.8	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	.07	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Nitrogen, Ammonia	.14	.1	GroundH2O	mg/L	11-NOV-93	22-NOV-93
		Nitrogen, Nitrate	3.36	.02	GroundH2O	mg/L	11-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Potassium	7.16	.1	GroundH2O	mg/L	11-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	26.5	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Solids, Total Dissolved	772	20	GroundH2O	mg/L	11-NOV-93	18-NOV-93
		Sulfate	46	10	GroundH2O	mg/L	11-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	.44	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0010	G113-UNFILTERED	Aluminum	12.2	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	.005	.002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Barium	.22	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	.001	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Calcium	419	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Chromium, Total	.06	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Cobalt	.01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	.05	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Iron	33.7	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	.049	.003	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Magnesium	411	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	1.47	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	.04	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Potassium	9.29	.1	GroundH2O	mg/L	11-NOV-93	08-DEC-93
		Selenium	< .004	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	29.3	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	1.85	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kef App'd: [illegible]
Date App'd: 12/13/93

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0003	G113	Phenol	< 11	10	GroundH2O	ug/L	A1
		3&4-Methylphenol	< 11	10	GroundH2O	ug/L	A1
		Nitrobenzene	< 11	10	GroundH2O	ug/L	A1
		Isophorone	< 11	10	GroundH2O	ug/L	A1
		2,4-Dimethylphenol	< 11	10	GroundH2O	ug/L	A1
		Bis(2-chloroethoxy)methane	< 11	10	GroundH2O	ug/L	A1
		Benzoic Acid	< 53	50	GroundH2O	ug/L	A1
		Naphthalene	< 11	10	GroundH2O	ug/L	A1
		Hexachlorobutadiene	< 11	10	GroundH2O	ug/L	A1
		2-Chloronaphthalene	< 11	10	GroundH2O	ug/L	A1
		Dimethyl phthalate	< 11	10	GroundH2O	ug/L	A1
		4-Nitrophenol	< 53	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 11	10	GroundH2O	ug/L	A1
		Carbofuran	< 11	10	GroundH2O	ug/L	A1
		Pentachlorophenol	< 53	50	GroundH2O	ug/L	A1
		Phenanthrene	< 11	10	GroundH2O	ug/L	A1
		Di-n-butylphthalate	< 11	10	GroundH2O	ug/L	A1
		Butylbenzylphthalate	< 11	10	GroundH2O	ug/L	A1
		Bis(2-ethylhexyl)phthalate	< 4.2	4	GroundH2O	ug/L	A1

Sample Date: 11-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 17-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/16/93

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0003	G113	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kof App'd: [illegible]
Date App'd: 12/13/93

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 113

Date Received: 11/12/93

APPL Sample No: R15755-98817W A-B

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By

Checked By

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Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 113

Date Received: 11/12/93

APPL Sample No: R15755-98817W A-B

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Tallman

Checked By

WARZYN

MADISON
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0002	G113A	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kaf App'd: [illegible]
Date App'd: 12/13/93

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0002	G113A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4	4	GroundH2O	ug/L	

Sample Date: 11-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 17-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KeP App'd: [illegible]
Date App'd: 12/16/93

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0002	G113A (D15)	Alkalinity, Total	686	10	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Barium	.14	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	3	1	GroundH20	mg/L	11-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Cadmium	.0006	.0002	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Calcium	181	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Carbon, Total Organic	7.8	1	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Chemical Oxygen Demand	46	20	GroundH20	mg/L	11-NOV-93	17-NOV-93
		Chloride	25	2	GroundH20	mg/L	11-NOV-93	16-NOV-93
		Chromium, Total	< .0002	.0002	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH20	mg/L	11-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Magnesium	76.9	1	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Manganese	.22	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH20	mg/L	11-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH20	mg/L	11-NOV-93	03-DEC-93
		Nitrogen, Ammonia	< .1	.1	GroundH20	mg/L	11-NOV-93	22-NOV-93
		Nitrogen, Nitrate	2.58	.02	GroundH20	mg/L	11-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH20	mg/L	11-NOV-93	01-DEC-93
		Potassium	4.71	.1	GroundH20	mg/L	11-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH20	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Sodium	25.8	2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Solids, Total Dissolved	812	20	GroundH20	mg/L	11-NOV-93	18-NOV-93
		Sulfate	30	10	GroundH20	mg/L	11-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH20	mg/L	11-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH20	mg/L	11-NOV-93	04-DEC-93
		Zinc	.86	.01	GroundH20	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: 16f App'd: [illegible]
Date App'd: 12/13/93

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0009	G113A-	Aluminum	1.25	.05	GroundH2O	mg/L	11-NOV-93	03-DEC-93
	UNFILTERED	Antimony	< .005	.005	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	11-NOV-93	24-NOV-93
		Barium	.15	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Calcium	176	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Chromium, Total	.06	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Copper	.02	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Iron	2.55	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Lead	.017	.003	GroundH2O	mg/L	11-NOV-93	01-DEC-93
		Magnesium	75.9	1	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Manganese	.25	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	11-NOV-93	29-NOV-93
		Nickel	.04	.02	GroundH2O	mg/L	11-NOV-93	03-DEC-93
		Potassium	5.07	.1	GroundH2O	mg/L	11-NOV-93	08-DEC-93
		Selenium	< .004	.002	GroundH2O	mg/L	11-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Sodium	25.8	2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	11-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	11-NOV-93	04-DEC-93
		Zinc	1.34	.01	GroundH2O	mg/L	11-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

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Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 113A

Date Received: 11/12/93

APPL Sample No: R15755-98818W A-B

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Tallman

Checked By

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/11/93

Report Date: 12/03/93

Sample I.D. No: Winnebago Lif. 55006602 G 113A

Date Received: 11/12/93

APPL Sample No: R15755-98818W A-B

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By _____

Checked By _____

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0017	G120B	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4	4	GroundH2O	ug/L	

Sample Date: 12-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KaK App'd: [illegible]
Date App'd: 12/16/93

WARZYN

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0017	G120B	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 12-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KOF App'd: [illegible]
Date App'd: 12/13/93

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0017	G120B (DIS)	Alkalinity, Total	264	10	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Barium	.08	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH20	mg/L	12-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	12-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH20	mg/L	12-NOV-93	06-DEC-93
		Cadmium	< .0002	.0002	GroundH20	mg/L	12-NOV-93	19-NOV-93
		Calcium	67.3	1	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Carbon, Total Organic	1.4	1	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	12-NOV-93	17-NOV-93
		Chloride	12	2	GroundH20	mg/L	12-NOV-93	16-NOV-93
		Chromium, Total	.0011	.0002	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH20	mg/L	12-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH20	mg/L	12-NOV-93	19-NOV-93
		Iron	.15	.02	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Magnesium	36.3	1	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Manganese	.02	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH20	mg/L	12-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH20	mg/L	12-NOV-93	03-DEC-93
		Nitrogen, Ammonia	< .1	.1	GroundH20	mg/L	12-NOV-93	22-NOV-93
		Nitrogen, Nitrate	2.32	.02	GroundH20	mg/L	12-NOV-93	19-NOV-93
		Oil and Grease	1	1	GroundH20	mg/L	12-NOV-93	01-DEC-93
		Potassium	1.4	.1	GroundH20	mg/L	12-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH20	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Sodium	4.16	2	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Solids, Total Dissolved	324	20	GroundH20	mg/L	12-NOV-93	18-NOV-93
		Sulfate	23	10	GroundH20	mg/L	12-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH20	mg/L	12-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH20	mg/L	12-NOV-93	04-DEC-93
		Zinc	< .01	.01	GroundH20	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0021	G120B-	Aluminum	.7	.05	GroundH2O	mg/L	12-NOV-93	03-DEC-93
	UNFILTERED	Antimony	< .005	.005	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Barium	.11	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Calcium	76	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Chromium, Total	.19	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Copper	.01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Iron	2.56	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Lead	.008	.003	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Magnesium	37.8	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Manganese	.07	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	29-NOV-93
		Nickel	.09	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Potassium	2.25	.1	GroundH2O	mg/L	12-NOV-93	08-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Sodium	4.94	2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	12-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Zinc	.31	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 12/13/93

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.

4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206
G 120B

Date Received: 11/15/93

APPL Sample No: R15763-98838W

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steven Tallman

Checked By

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206
G 120B

Date Received: 11/15/93

APPL Sample No: R15763-98838W

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By

Checked By

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0016	P6	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 53	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 53	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 53	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.2	4	GroundH2O	ug/L	A1

Sample Date: 12-NOV-93
Extract Date: 13-NOV-93
Analysis Date: 18-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KoF App'd: [illegible]
Date App'd: 12/16/93

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L7723-0016	P6	alpha-BHC	< .05	.05	GroundH20	ug/L	
		beta-BHC	< .05	.05	GroundH20	ug/L	
		delta-BHC	< .05	.05	GroundH20	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH20	ug/L	
		Heptachlor	< .05	.05	GroundH20	ug/L	
		Aldrin	< .05	.05	GroundH20	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH20	ug/L	
		Endosulfan I	< .05	.05	GroundH20	ug/L	
		Dieldrin	< .1	.1	GroundH20	ug/L	
		p,p'-DDE	< .1	.1	GroundH20	ug/L	
		Endrin	< .1	.1	GroundH20	ug/L	
		Endosulfan II	< .1	.1	GroundH20	ug/L	
		p,p'-DDD	< .1	.1	GroundH20	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH20	ug/L	
		p,p'-DDT	< .1	.1	GroundH20	ug/L	
		Endrin ketone	< .1	.1	GroundH20	ug/L	
		Methoxychlor	< .5	.5	GroundH20	ug/L	
		Endrin aldehyde	< .1	.1	GroundH20	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH20	ug/L	
		Toxaphene	< 1	1	GroundH20	ug/L	
		PCB-1016	< .5	.5	GroundH20	ug/L	
		PCB-1221	< 1	1	GroundH20	ug/L	
		PCB-1232	< 1	1	GroundH20	ug/L	
		PCB-1242	< .5	.5	GroundH20	ug/L	
		PCB-1248	< .5	.5	GroundH20	ug/L	
		PCB-1254	< 1	1	GroundH20	ug/L	
		PCB-1260	< 1	1	GroundH20	ug/L	
		Alachlor	< .2	.2	GroundH20	ug/L	

Sample Date: 12-NOV-93
Extract Date: 15-NOV-93
Analysis Date: 15-NOV-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.

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Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206 P 6

Date Received: 11/15/93

APPL Sample No: R15763-98837W

Date Extracted: 11/16/93

Method 619 (Triazine) Results:

Compound	Concentration µg/L	Quantitation limit µg/L
Alachlor	ND*	1.0
Atrazine	ND	0.5
Parathion	ND	0.5

* ND = None Detected

Tested By Steve Tallman

Checked By

Warzyn Incorporated
One Science Court
University Research Park
P.O. Box 5385
Madison, Wisconsin 53705
Attn: Sheila Tauschek

Sample Date: 11/12/93

Report Date: 12/03/93

Sample I.D. No: 55006602/206
P 6

Date Received: 11/15/93

APPL Sample No: R15763-98837W

Date Extracted: 11/16/93

Method 632 Results (Carbamates):

Compound	Concentration µg/L	Quantitation Limit µg/L
Aldicarb	ND*	1
Carbofuran	ND	1

* ND = None Detected

Tested By _____

Checked By _____

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0016	P6 (D/S)	Alkalinity, Total	268	10	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Aluminum	< .05	.05	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Barium	.06	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	12-NOV-93	12-NOV-93
		Boron	< .1	.1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Cadmium	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	19-NOV-93
		Calcium	75.3	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Carbon, Total Organic	8.5	1	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Chemical Oxygen Demand	21	20	GroundH2O	mg/L	12-NOV-93	17-NOV-93
		Chloride	22	2	GroundH2O	mg/L	12-NOV-93	16-NOV-93
		Chromium, Total	.0002	.0002	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Cobalt	< .01	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Copper	< .01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Fluoride	< .1	.1	GroundH2O	mg/L	12-NOV-93	19-NOV-93
		Iron	< .02	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Lead	< .003	.003	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Magnesium	41.4	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Manganese	< .01	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	29-NOV-93
		Nickel	< .02	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Nitrogen, Ammonia	< .1	.1	GroundH2O	mg/L	12-NOV-93	22-NOV-93
		Nitrogen, Nitrate	7.88	.02	GroundH2O	mg/L	12-NOV-93	19-NOV-93
		Oil and Grease	< 1	1	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Potassium	1.17	.1	GroundH2O	mg/L	12-NOV-93	06-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Sodium	5.03	2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Solids, Total Dissolved	376	20	GroundH2O	mg/L	12-NOV-93	18-NOV-93
		Sulfate	32	10	GroundH2O	mg/L	12-NOV-93	16-NOV-93
		Thallium	< .002	.002	GroundH2O	mg/L	12-NOV-93	23-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Zinc	.04	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KOJ App'd: [illegible]
Date App'd: 12/13/93

WARZYN

MADISON
ONE SCIENCE COURT
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L7723-0020	P6-UNFILTERED	Aluminum	1.46	.05	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Antimony	< .005	.005	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Arsenic	< .002	.002	GroundH2O	mg/L	12-NOV-93	24-NOV-93
		Barium	.07	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Beryllium	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Boron	< .1	.1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Cadmium	< .005	.005	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Calcium	75.6	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Chromium, Total	.06	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Cobalt	< .01	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Copper	.01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Iron	5.17	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Lead	.003	.003	GroundH2O	mg/L	12-NOV-93	01-DEC-93
		Magnesium	40.6	1	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Manganese	.1	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Mercury	< .0002	.0002	GroundH2O	mg/L	12-NOV-93	29-NOV-93
		Nickel	.04	.02	GroundH2O	mg/L	12-NOV-93	03-DEC-93
		Potassium	2.2	.1	GroundH2O	mg/L	12-NOV-93	08-DEC-93
		Selenium	< .002	.002	GroundH2O	mg/L	12-NOV-93	02-DEC-93
		Silver	< .01	.01	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Sodium	6.2	2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Thallium	< .002	.002	GroundH2O	mg/L	12-NOV-93	30-NOV-93
		Tin	< .2	.2	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Vanadium	< .05	.05	GroundH2O	mg/L	12-NOV-93	04-DEC-93
		Zinc	.16	.01	GroundH2O	mg/L	12-NOV-93	03-DEC-93

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 12/13/93

WARZYN

CHAIN OF CUSTODY RECORD

№ 007091

Program 2

PROJECT No. 53006602 206

PROJECT NAME Winnebago Landfill

CITY & STATE Rockford, Illinois

SAMPLERS (Signature) [illegible], Steve Walker

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Dup 11/12/93	SVOCs	Pest/PCBs	METALS (Filtered)	CN	BOD	Oil + Grease	Alk, SO4, Cl, TDS, F	COD, TOC, Nitrogen	Metals (unfiltered)	REMARKS
7723-0015	11-12-93	0740		X	B13	12	12	2	3	2	1	1	1	1	1		GW
~~7724-0002~~ 0016		0740		X	P6	12	12										
~~0003~~ 0017		0815		X	G120B	12	12										
~~0004~~ 0018		0935		X	B11A	12	12										
-0019					B13 - unfiltered	1										X	
-0020					P6 - unfiltered	1										X	
-0021					G120B - unfiltered	1										X	
-0022					B11A - unfiltered	1										X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Walker	11-12-93 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[illegible]		11/12/93 2:45 pm	

REMARKS

PROJECT MANAGER: Sheila Tauschek

Labels rec'd on ice head delivered

WARZYN

CHAIN OF CUSTODY RECORD

Program 2

№ 015117

PROJECT No.: 55006602/206

PROJECT NAME: Winnebago L.F.

CITY & STATE: Rockford, IL.

SAMPLERS (Signature): Steve Wiskes, [signature]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	SVOCs	Pest/PCBs + Herbicides method 8150	metals (Filtered) (*)	CN	BOD	Oil + Grease	Alk, SO4, CL, TDS, Fl	TDS, COD, TOC, Nitrogen (*)	Metals (unfiltered) (*)	GW
7723-0001	111193	930		X	G107	12	2	3	2	1	1	1	1	1		
-0002		1130		X	G113A	12										
-0003		1210			G113	12										
-0004		113[illegible]			G109	12										
-0005		1230			G109A	12										
-0006		1415			B11	12										
-0007		1415			G108	12										
-0008					G107 - unfiltered										X	
-0009					G113A -										X	
-0010					G113 -										X	
-0011					G109 -										X	
-0012					G109A -										X	
-0013					B11 -										X	
-0014					G108 -										X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Wiskes					
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[signature]		11/12/93 9:25 AM	

REMARKS (*) - Metals: Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, TL, Sn, V, Zn

N. gen = NH_3; NO_3 [illegible]

PROJECT MANAGER: Sheila Tauschek

hand delivered by John Hurtenbach 11-11-93

[illegible] Yellow — Laboratory File; Pink — Coordinator Field Files

WARZYN

№ 015115

CHAIN OF CUSTODY RECORD

PROJECT No.: 55006602

PROJECT NAME: Winnebago Lif.

CITY & STATE: Rockford, IL

SAMPLERS (Signature): Steve Wisker, David A. Pugh

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Herbicides Program 2						REMARKS
7723-0001	11-11-93	930		X	G107	2	X						
-0002	11-11-93	1130		X	G113A	2	X						
-0003		1210			G113	2	X						
-0004		1130			G109	2	X						
-0005		1230			G109A	2	X						
-0006		1415			B11	2	X						
-0007		1415			G108	2	X						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Wisker	11-11-93 1500	Airborne			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
Airborne		N S Zuivalcaba		11/12/93 10:25	Chilled & intact

REMARKS

PROJECT MANAGER: S. Tauschek

Airbill # 9285033682

C.O.C seal # 92-03763 + 92-03764

Laboratory File Pink Coordinator Field Files

WARZYN

CHAIN OF CUSTODY RECORD

№ 007090

PROJECT No.: 55006602/206

PROJECT NAME: Winnebago LF.

CITY & STATE: Rockford, IL

SAMPLERS (Signature): Steve Wolkes, [illegible]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Herbicides (Program 2)						REMARKS
7723-0015	11-12-93	0740		X	B13	2	X						
-0016	↓	0740		↓	P6	2	X						
-0017	↓	0815		↓	G120B	2	X						
-0018	↓	0935		↓	B11A	2	X						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Wolkes	11-12-93 1600	Airborne			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
Airborne		[illegible]		11/15/93 10:40	

REMARKS: C.O.C seal #s 92-03766 + 92-03767
Airbill # 9285034382

PROJECT MANAGER: S. Tauschek

Distribution: White — Accompanies Shipment; Yellow — Laboratory File; Pink — Coordinator Field Files

WARZYN

CHAIN OF CUSTODY RECORD

Program 2

№ 015116

PROJECT No. 55006602

PROJECT NAME: Winnebago LF.

CITY & STATE: Rockford, IL

SAMPLERS (Signature): Steve Wiskes, David G. [illegible]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	VOCs Program 2						REMARKS
7723-0001	11.11.93	930		X	G107	4	X						
-0002	11-11-93	1130		X	G113A	4	X						
-0003		1210		X	G113	4	X						
-0004		1130		X	G109	4	X						
-0005		1230		X	G109A	4	X						
-0006		1415		X	B11	4	X						
-0007		1415		X	G108	4	X						
-0015	11-12-93	740		X	B13	4	X						
-0016		740		X	P6	4	X						
-0017		0815		X	G120B	4	X						
-0018		0935		X	B11A	4	X						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Wiskes	11-12-93 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[illegible]		11/15/93 9:15	

REMARKS: COC seal #s = 92-03765 + 9203762
Air Bill #s = 9285033785

PROJECT MANAGER: Sheila Tauschek

Distribution: White — Accompanies Shipment; Yellow — Laboratory File; Pink — Coordinator Field Files

VARZYN

CHAIN OF CUSTODY RECORD

№ 015114

OJECT No. 55006602

PROJECT NAME: Winnebago LF.

CITY & STATE: Rockford, Ill

MPLERS (Signature): Steve Wiskes, David A. [illegible]

AB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	TOX (Prosantez)						REMARKS
7723-0001	11-11-93	930		X	G107	1	X						
-0002	11-11-93	1130		X	G113A	1	X						
-0003		1210		X	G113	1	X						
-0004		1130		X	G109	1	X						
-0005		1230		X	G109A	1	X						
-0006		1415		X	B11	1	X						
-0007		1415		X	G108	1	X						
-0015	11-12-93	740		X	B13	1	X						
-0016		740		X	P6	1	X						
-0017		0815		X	G120B	1	X						
-0018		0935		X	B11A	1	X						
		945		X	G105R	1	X						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Steve Wiskes	11-12-93 1600				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		Christine Sardo		11-15-93 10:00	

MARKS

COC seal #i = 92-03769 + 92-03768

AirBill #s = 9285033881

PROJECT MANAGER: Sheila Tauschek

WARZYN

March 31, 1994

Mr. Thomas Hilbert
Enviromental Engineer
Winnebago Reclamation
8403 Lindenwood Road
Rockford, Illinois 61109

Re: Winnebago Reclamation
Program 2
Sampled February 1994

Dear Mr. Hilbert:

Enclosed are two copies of the analytical results, diskette and chain-of-custody for the samples collected February 22 and 23, 1994. Please feel free to call if you have any questions.

Sincerely,

WARZYN INC.

Sheila M. Tauschek
Project Manager

SMT/kaf/GLG
[var-ltrs]
55006602-lab

Enclosures: As Stated

THE PERFECT BALANCE
BETWEEN TECHNOLOGY
AND CREATIVITY

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WARZYN

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FAX (608) 231-4777

STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A3 Elevated quantitation limit necessary to overcome difficult matrix.

A4 Result should be considered estimated with possible low bias due to unknown interference.

A5 Result should be considered estimated with possible low bias due to difficult matrix.

A6 Result should be considered estimated with possible low bias as indicated by method QC.

A7 Result should be considered estimated with possible high bias due to unknown interference.

A8 Result should be considered estimated with possible high bias due to difficult matrix.

A9 Result should be considered estimated with possible high bias as indicated by method QC.

A10 Result should be considered estimated due to non-homogeneous sample matrix.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated with possible high bias; analyte detected in method blank.

A16 Elevated quantitation limit indicated by batch QC.

M2 Total analysis performed.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

W1 Sample contained <0.5% solids; filtered sample was analyzed as the TCLP extract.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with_____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated with possible high bias due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G14 Measurement upon receipt performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

WARZYN

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	405.1	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate+Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total	160.3	160.3
Solids, Total Volatile	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.

Methods for Soil Analysis, 2nd Ed.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	**ICP**	**Flame**	**Furnace**	**CV**	**ICP**	**Flame**	**Furnace**	**CV**
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

WARZYN

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

IEA
An Aquarion Company

Definitions of Data Qualifiers and Terminology

There are a number of data qualifiers that are widely used within the environmental testing industry which may be utilized in our data reports. The following definitions of these qualifiers are included as a service to our clientele. The majority of the qualifiers have evolved from the EPA contract laboratory program (CLP) therefore, they may or may not be appropriate for the particular testing that you have requested. If your work did not involve CLP type analyses, only a few of these items may apply to your particular report.

A - This flag is utilized to indicate that a tentatively identified compound (TIC) is a suspected aldol-condensation product formed during sample processing and caution should be applied in interpreting these results.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to use caution when applying the results of this analyte.

BQL - Below quantitation limit indicates the compound was not detected in the sample above the practial quantitation limit.

C - Indicates that a pesticide identification has been confirmed utilizing GC/MS techniques.

D - Indicates the sample extract was diluted by the factor listed due to the sample matrix and/or concentration levels. All method detection limits or practical quantitation limits for the particular sample are therefore increased by this dilution factor.

E - Indicates that the concentration of the specific compound exceeded the calibration range of the instrument for that particular analysis.

J - Indicates an estimated value. It indicates that the compound was analyzed for and determined to be present in the sample. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meet the identification criteria but the result is less than the sample quantitation limit but greater than zero.

MDL - The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zerc.

ND - Indicates the compound or analyte was not detected in the sample above the method detection limit or the practical quantitation limit for the particular analysis.

PQL - The practical quantitation limit is the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine operating conditions.

U - Indicates the compound was analyzed for but not detected in the sample above the applicable quantitation limit.

IEA
An Aquarion Company

Case Narrative-CH940266

Bis chloromethyl ether was analyzed at 100 ug/L in hexane using a direct inject method of sample introduction. A mass spectra and a retention time were generated. When bis chloromethyl ether, at a concentration of 100 ug/L, was introduced using a purge-and-trap method in water at a pH of 7 and <2, it could not be detected. Further investigation revealed that when bis chloromethyl ether is in water, it decomposes to hydrochloric acid and formaldehyde.

WARZYN

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0007	B11	alpha-BHC	< .053	.05	GroundH2O	ug/L	A1
		beta-BHC	< .053	.05	GroundH2O	ug/L	A1
		delta-BHC	< .053	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .053	.05	GroundH2O	ug/L	A1
		Heptachlor	< .053	.05	GroundH2O	ug/L	A1
		Aldrin	< .053	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .053	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .053	.05	GroundH2O	ug/L	A1
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .53	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .53	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .53	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .53	.5	GroundH2O	ug/L	A1
		PCB-1248	< .53	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .21	.2	GroundH2O	ug/L	A1

Sample Date: 23-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kat App'd: SJ
Date App'd: 3/31/94

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0007	B11	Phenol	< 10	10	GroundH20	ug/L	
		3&4-Methylphenol	< 10	10	GroundH20	ug/L	
		Nitrobenzene	< 10	10	GroundH20	ug/L	
		Isophorone	< 10	10	GroundH20	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH20	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH20	ug/L	
		Benzoic Acid	< 52	50	GroundH20	ug/L	A1
		Naphthalene	< 10	10	GroundH20	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH20	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH20	ug/L	
		Dimethyl phthalate	< 10	10	GroundH20	ug/L	
		4-Nitrophenol	< 52	50	GroundH20	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH20	ug/L	
		Carbofuran	< 10	10	GroundH20	ug/L	
		Pentachlorophenol	< 52	50	GroundH20	ug/L	A1
		Phenanthrene	< 10	10	GroundH20	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH20	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH20	ug/L	
		Bis(2-ethylhexyl)phthalate	80	4	GroundH20	ug/L	A15

Sample Date: 23-FEB-94
Extract Date: 28-FEB-94
Analysis Date: 09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0007	B11	Alkalinity, Total	293	10	GroundH20	mg/L	23-FEB-94	28-FEB-94
		Aluminum	1.21	.05	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Barium	.03	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	23-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Calcium	101	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Chromium, Total	.02	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Copper	.02	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Fluoride	< .1	.1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Iron	10.6	.02	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Lead	.068	.003	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Magnesium	52.7	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Manganese	.11	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	.02	.02	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nitrogen, Nitrate	1.99	.02	GroundH20	mg/L	23-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH20	mg/L	23-FEB-94	06-MAR-94
		Potassium	1.83	.1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Sodium	5.1	1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Solids, Total Dissolved	338	20	GroundH20	mg/L	23-FEB-94	02-MAR-94
		Sulfate	25	10	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Zinc	6.45	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago B11 Reclm Landfill
APPL Sample No: R16484-02640

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/07/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

appl AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago
B11 Reclm Landfill
APPL Sample No: R16484-02640

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/05/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: [signature]

Checked by: [signature]

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0018	B11-FILTERED (DIS)	Aluminum	< .05	.05	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Barium	.02	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Calcium	73.1	1	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Chromium, Total	.01	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Iron	< .02	.02	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Manganese	< .01	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Zinc	1.29	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
L8140-0019	B11A-FILTERED	Aluminum	< .05	.05	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Barium	.03	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Calcium	94.9	1	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Chromium, Total	.01	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Iron	.02	.02	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Manganese	< .01	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Zinc	1.46	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kat App'd: SJM
Date App'd: 3/31/94

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0008	B11A	Alkalinity, Total	386	10	GroundH2O	mg/L	23-FEB-94	28-FEB-94
		Aluminum	.08	.05	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Barium	.03	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	23-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Cadmium	< .005	.005	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Calcium	91.8	1	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Chemical Oxygen Demand	25	20	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Chromium, Total	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Copper	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Fluoride	< .1	.1	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Iron	.19	.02	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Lead	.003	.003	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Magnesium	45.3	1	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Manganese	< .01	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nitrogen, Nitrate	2.5	.02	GroundH2O	mg/L	23-FEB-94	07-MAR-94
		Oil and Grease	1	1	GroundH2O	mg/L	23-FEB-94	06-MAR-94
		Potassium	.55	.1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Sodium	2.7	1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Solids, Total Dissolved	426	20	GroundH2O	mg/L	23-FEB-94	02-MAR-94
		Sulfate	26	10	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Zinc	1.76	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0008	B11A	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 23-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0008	B11A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 51	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 51	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 51	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	24	4	GroundH2O	ug/L	A15

Sample Date: 23-FEB-94
Extract Date: 28-FEB-94
Analysis Date: 09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kat App'd: SF
Date App'd: 3/31/94

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago
B11A Reclm Landfill
APPL Sample No: R16484-02639

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/05/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: [signature]

Checked by: [signature]

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago B11A Reclm Landfill
APPL Sample No: R16484-02639

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

WARZYN

MADISON
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0006	P6	Alkalinity, Total	276	10	GroundH2O	mg/L	23-FEB-94	28-FEB-94
		Aluminum	.52	.05	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Barium	.07	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	23-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Cadmium	.006	.005	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Calcium	81.1	1	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Chromium, Total	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Copper	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	23-FEB-94	07-MAR-94
		Fluoride	< .1	.1	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Iron	2.01	.02	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Lead	< .003	.003	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Magnesium	42.3	1	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Manganese	.06	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nickel	.02	.02	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nitrogen, Nitrate	8.53	.02	GroundH2O	mg/L	23-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	23-FEB-94	06-MAR-94
		Potassium	1.45	.1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Sodium	6.3	1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Solids, Total Dissolved	402	20	GroundH2O	mg/L	23-FEB-94	02-MAR-94
		Sulfate	33	10	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Zinc	.05	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kat App'd: [illegible]
Date App'd: 3/31/94

WARZYN

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MADISON, WI 53705
(608) 231-4747
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0006	P6	Phenol	< 11	10	GroundH2O	ug/L	A1, A13
		3&4-Methylphenol	< 11	10	GroundH2O	ug/L	A1, A13
		Nitrobenzene	< 11	10	GroundH2O	ug/L	A1, A13
		Isophorone	< 11	10	GroundH2O	ug/L	A1, A13
		2,4-Dimethylphenol	< 11	10	GroundH2O	ug/L	A1, A13
		Bis(2-chloroethoxy)methane	< 11	10	GroundH2O	ug/L	A1, A13
		Benzoic Acid	< 55	50	GroundH2O	ug/L	A1, A13
		Naphthalene	< 11	10	GroundH2O	ug/L	A1, A13
		Hexachlorobutadiene	< 11	10	GroundH2O	ug/L	A1, A13
		2-Chloronaphthalene	< 11	10	GroundH2O	ug/L	A1, A13
		Dimethyl phthalate	< 11	10	GroundH2O	ug/L	A1, A13
		4-Nitrophenol	< 55	50	GroundH2O	ug/L	A1, A13
		Diethyl phthalate	< 11	10	GroundH2O	ug/L	A1, A13
		Carbofuran	< 11	10	GroundH2O	ug/L	A1, A13
		Pentachlorophenol	< 55	50	GroundH2O	ug/L	A1, A13
		Phenanthrene	< 11	10	GroundH2O	ug/L	A1, A13
		Di-n-butylphthalate	< 11	10	GroundH2O	ug/L	A1, A13
		Butylbenzylphthalate	< 11	10	GroundH2O	ug/L	A1, A13
		Bis(2-ethylhexyl)phthalate	< 4.4	4	GroundH2O	ug/L	A1, A13

Sample Date: 23-FEB-94
Extract Date: 15-MAR-94
Analysis Date: 16-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0006	P6	alpha-BHC	< .054	.05	GroundH2O	ug/L	A1
		beta-BHC	< .054	.05	GroundH2O	ug/L	A1
		delta-BHC	< .054	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .054	.05	GroundH2O	ug/L	A1
		Heptachlor	< .054	.05	GroundH2O	ug/L	A1
		Aldrin	< .054	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .054	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .054	.05	GroundH2O	ug/L	A1
		Dieldrin	< .11	.1	GroundH2O	ug/L	A1
		p,p'-DDE	< .11	.1	GroundH2O	ug/L	A1
		Endrin	< .11	.1	GroundH2O	ug/L	A1
		Endosulfan II	< .11	.1	GroundH2O	ug/L	A1
		p,p'-DDD	< .11	.1	GroundH2O	ug/L	A1
		Endosulfan sulfate	< .11	.1	GroundH2O	ug/L	A1
		p,p'-DDT	< .11	.1	GroundH2O	ug/L	A1
		Endrin ketone	< .11	.1	GroundH2O	ug/L	A1
		Methoxychlor	< .54	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .11	.1	GroundH2O	ug/L	A1
		Chlordane (Technical)	< .54	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1016	< .54	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1232	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1242	< .54	.5	GroundH2O	ug/L	A1
		PCB-1248	< .54	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1260	< 1.1	1	GroundH2O	ug/L	A1
		Alachlor	< .22	.2	GroundH2O	ug/L	A1

Sample Date: 23-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago P6 Reclm Landfill
APPL Sample No: R16484-02638

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/05/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevens

Checked by: [illegible]

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago P6 Reclm Landfill
APPL Sample No: R16484-02638

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0016	B13-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Barium	.14	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Calcium	130	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Chromium, Total	< .01	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Iron	.07	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Manganese	.1	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Zinc	1.37	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
L8140-0017	P6-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Barium	.07	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Calcium	80.7	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Chromium, Total	.01	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Iron	< .02	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Manganese	< .01	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Zinc	.02	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KK App'd: [illegible]
Date App'd: 3/31/94

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0005	B13	Alkalinity, Total	476	10	GroundH20	mg/L	23-FEB-94	28-FEB-94
		Aluminum	.1	.05	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Barium	.15	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	2	1	GroundH20	mg/L	23-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Calcium	130	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Chemical Oxygen Demand	28	20	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Chromium, Total	. .04	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Copper	.01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH20	mg/L	23-FEB-94	07-MAR-94
		Fluoride	< .1	.1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Iron	1.71	.02	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Lead	.03	.003	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Magnesium	57.1	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Manganese	.11	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	.02	.02	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nitrogen, Nitrate	9.75	.02	GroundH20	mg/L	23-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH20	mg/L	23-FEB-94	06-MAR-94
		Potassium	18.4	.1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Sodium	12.2	1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Solids, Total Dissolved	644	20	GroundH20	mg/L	23-FEB-94	02-MAR-94
		Sulfate	35	10	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Zinc	3.29	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kel App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0005	B13	alpha-BHC	< .054	.05	GroundH2O	ug/L	A1
		beta-BHC	< .054	.05	GroundH2O	ug/L	A1
		delta-BHC	< .054	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .054	.05	GroundH2O	ug/L	A1
		Heptachlor	< .054	.05	GroundH2O	ug/L	A1
		Aldrin	< .054	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .054	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .054	.05	GroundH2O	ug/L	A1
		Dieldrin	< .11	.1	GroundH2O	ug/L	A1
		p,p'-DDE	< .11	.1	GroundH2O	ug/L	A1
		Endrin	< .11	.1	GroundH2O	ug/L	A1
		Endosulfan II	< .11	.1	GroundH2O	ug/L	A1
		p,p'-DDD	< .11	.1	GroundH2O	ug/L	A1
		Endosulfan sulfate	< .11	.1	GroundH2O	ug/L	A1
		p,p'-DDT	< .11	.1	GroundH2O	ug/L	A1
		Endrin ketone	< .11	.1	GroundH2O	ug/L	A1
		Methoxychlor	< .54	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .11	.1	GroundH2O	ug/L	A1
		Chlordane (Technical)	< .54	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1016	< .54	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1232	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1242	< .54	.5	GroundH2O	ug/L	A1
		PCB-1248	< .54	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1.1	1	GroundH2O	ug/L	A1
		PCB-1260	< 1.1	1	GroundH2O	ug/L	A1
		Alachlor	< .22	.2	GroundH2O	ug/L	A1

Sample Date: 23-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0005	B13	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 51	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 51	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 51	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	38	4	GroundH2O	ug/L	A15

Sample Date: 23-FEB-94
Extract Date: 28-FEB-94
Analysis Date: 09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago B13 Reclm Landfill
APPL Sample No: R16484-02641

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/05/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: [signature]

Checked by: [signature]

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago B13 Reclm Landfill
APPL Sample No: R16484-02641

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/07/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0020	G108-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Barium	.03	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Calcium	115	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Chromium, Total	.01	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Iron	< .02	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Manganese	.01	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Zinc	.55	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
L8140-0021	G107-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Barium	.04	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Calcium	108	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Chromium, Total	.01	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Iron	< .02	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Manganese	.02	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	09-MAR-94
		Zinc	.43	.01	GroundH20	mg/L	23-FEB-94	09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0010	G107	Alkalinity, Total	380	10	GroundH2O	mg/L	23-FEB-94	28-FEB-94
		Aluminum	85.9	.05	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Antimony	< .025	.005	GroundH2O	mg/L	23-FEB-94	22-MAR-94
		Arsenic	.017	.002	GroundH2O	mg/L	23-FEB-94	23-MAR-94
		Barium	.49	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Beryllium	.0034	.0002	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	23-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Cadmium	.046	.005	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Calcium	866	1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Carbon, Total Organic	< 1	1	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Chromium, Total	.16	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Cobalt	.14	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Copper	.4	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Fluoride	.11	.1	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Iron	289	.02	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Lead	.28	.003	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Magnesium	442	1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Manganese	5.86	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Mercury	.0003	.0002	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nickel	.24	.02	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nitrogen, Nitrate	4.57	.02	GroundH2O	mg/L	23-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	23-FEB-94	06-MAR-94
		Potassium	12.8	.1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Selenium	< .01	.002	GroundH2O	mg/L	23-FEB-94	23-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Sodium	10.1	1	GroundH2O	mg/L	23-FEB-94	17-MAR-94
		Solids, Total Dissolved	454	20	GroundH2O	mg/L	23-FEB-94	02-MAR-94
		Sulfate	15	10	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Vanadium	.22	.05	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Zinc	7.03	.01	GroundH2O	mg/L	23-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KeK App'd: [illegible]
Date App'd: 3/31/94

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0010	G107	Phenol	< 11	10	GroundH20	ug/L	A1
		3&4-Methylphenol	< 11	10	GroundH20	ug/L	A1
		Nitrobenzene	< 11	10	GroundH20	ug/L	A1
		Isophorone	< 11	10	GroundH20	ug/L	A1
		2,4-Dimethylphenol	< 11	10	GroundH20	ug/L	A1
		Bis(2-chloroethoxy)methane	< 11	10	GroundH20	ug/L	A1
		Benzoic Acid	< 53	50	GroundH20	ug/L	A1
		Naphthalene	< 11	10	GroundH20	ug/L	A1
		Hexachlorobutadiene	< 11	10	GroundH20	ug/L	A1
		2-Chloronaphthalene	< 11	10	GroundH20	ug/L	A1
		Dimethyl phthalate	< 11	10	GroundH20	ug/L	A1
		4-Nitrophenol	< 53	50	GroundH20	ug/L	A1
		Diethyl phthalate	< 11	10	GroundH20	ug/L	A1
		Carbofuran	< 11	10	GroundH20	ug/L	A1
		Pentachlorophenol	< 53	50	GroundH20	ug/L	A1
		Phenanthrene	< 11	10	GroundH20	ug/L	A1
		Di-n-butylphthalate	< 11	10	GroundH20	ug/L	A1
		Butylbenzylphthalate	< 11	10	GroundH20	ug/L	A1
		Bis(2-ethylhexyl)phthalate	25	4	GroundH20	ug/L	A15

Sample Date: 23-FEB-94
Extract Date: 01-MAR-94
Analysis Date: 11-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kf App'd: [illegible]
Date App'd: 3/31/94

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0010	G107	alpha-BHC	< .051	.05	GroundH2O	ug/L	A1
		beta-BHC	< .051	.05	GroundH2O	ug/L	A1
		delta-BHC	< .051	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .051	.05	GroundH2O	ug/L	A1
		Heptachlor	< .051	.05	GroundH2O	ug/L	A1
		Aldrin	< .051	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .051	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .051	.05	GroundH2O	ug/L	A1
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .51	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .51	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .51	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .51	.5	GroundH2O	ug/L	A1
		PCB-1248	< .51	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 23-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 08-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

RECEIVED

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G107 Reclm Landfill
APPL Sample No: R16484-02631

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/04/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevenson

Checked by: Mike Roy

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0001	G113A	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 22-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0001	G113A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	63	4	GroundH2O	ug/L	A15

Sample Date: 22-FEB-94
Extract Date: 28-FEB-94
Analysis Date: 09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0001	G113A	Alkalinity, Total	771	10	GroundH2O	mg/L	22-FEB-94	28-FEB-94
		Aluminum	.44	.05	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Barium	.14	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	2	1	GroundH2O	mg/L	22-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Cadmium	< .005	.005	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Calcium	196	1	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	22-FEB-94	09-MAR-94
		Chromium, Total	.3	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Copper	.01	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	22-FEB-94	07-MAR-94
		Fluoride	< .1	.1	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Iron	3.32	.02	GroundH2O	mg/L	22-FEB-94	21-MAR-94
		Lead	.02	.003	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Magnesium	82.4	1	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Manganese	.22	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Nickel	.16	.02	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Nitrogen, Nitrate	2.98	.02	GroundH2O	mg/L	22-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	22-FEB-94	06-MAR-94
		Potassium	4.14	.1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	22-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Sodium	25.4	1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Solids, Total Dissolved	850	20	GroundH2O	mg/L	22-FEB-94	28-FEB-94
		Sulfate	28	10	GroundH2O	mg/L	22-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	22-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Zinc	2.19	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kit App'd: [illegible]
Date App'd: 3/31/94

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G113 Reclm Landfill
APPL Sample No: R16484-02636

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/05/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevenson

Checked by: [illegible]

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G113 Reclm Landfill
APPL Sample No: R16484-02636

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0002	G113	alpha-BHC	< .052	.05	GroundH2O	ug/L	A1
		beta-BHC	< .052	.05	GroundH2O	ug/L	A1
		delta-BHC	< .052	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .052	.05	GroundH2O	ug/L	A1
		Heptachlor	< .052	.05	GroundH2O	ug/L	A1
		Aldrin	< .052	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .052	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .052	.05	GroundH2O	ug/L	A1
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .52	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .52	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .52	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .52	.5	GroundH2O	ug/L	A1
		PCB-1248	< .52	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .21	.2	GroundH2O	ug/L	A1

Sample Date: 22-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0002	G113	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 51	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 51	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 51	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	31	4	GroundH2O	ug/L	A15

Sample Date: 22-FEB-94
Extract Date: 01-MAR-94
Analysis Date: 11-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

WARZYN

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ONE SCIENCE COURT
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0012	G113A-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Barium	.14	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Calcium	193	1	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Chromium, Total	.01	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Iron	.09	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH20	mg/L	22-FEB-94	10-MAR-94
		Manganese	.19	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	22-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Zinc	1.5	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
L8140-0013	G113-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Antimony	.008	.005	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Barium	.05	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Calcium	83.7	1	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Chromium, Total	< .01	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Iron	< .02	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH20	mg/L	22-FEB-94	10-MAR-94
		Manganese	< .01	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	22-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Zinc	.38	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: KK App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0002	G113	Alkalinity, Total	245	10	GroundH2O	mg/L	22-FEB-94	28-FEB-94
		Aluminum	44	.05	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Barium	.54	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	4	1	GroundH2O	mg/L	22-FEB-94	24-FEB-94
		Boron	.2	.1	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Cadmium	.029	.005	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Calcium	3180	1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Carbon, Total Organic	2.5	1	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	22-FEB-94	09-MAR-94
		Chromium, Total	.18	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Cobalt	.04	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Copper	.22	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Cyanide, Total	.019	.005	GroundH2O	mg/L	22-FEB-94	07-MAR-94
		Fluoride	< .1	.1	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Iron	147	.02	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Lead	< .003	.003	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Magnesium	1790	1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Manganese	6.72	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Mercury	.0004	.0002	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Nickel	.15	.02	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Nitrogen, Nitrate	5.64	.02	GroundH2O	mg/L	22-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	22-FEB-94	06-MAR-94
		Potassium	10.3	.1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	22-FEB-94	16-MAR-94
		Silver	.02	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Sodium	32.1	1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Solids, Total Dissolved	416	20	GroundH2O	mg/L	22-FEB-94	28-FEB-94
		Sulfate	34	10	GroundH2O	mg/L	22-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	22-FEB-94	18-MAR-94
		Vanadium	.1	.05	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Zinc	8.03	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago
G109A Reclm Landfill
APPL Sample No: R16484-02633

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G109A Reclm Landfill
APPL Sample No: R16484-02633

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/04/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevenson

Checked by: [illegible]

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0004	G109A	alpha-BHC	< .052	.05	GroundH2O	ug/L	A1
		beta-BHC	< .052	.05	GroundH2O	ug/L	A1
		delta-BHC	< .052	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .052	.05	GroundH2O	ug/L	A1
		Heptachlor	< .052	.05	GroundH2O	ug/L	A1
		Aldrin	< .052	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .052	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .052	.05	GroundH2O	ug/L	A1
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .52	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .52	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .52	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .52	.5	GroundH2O	ug/L	A1
		PCB-1248	< .52	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .21	.2	GroundH2O	ug/L	A1

Sample Date: 22-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0004	G109A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 52	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 52	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 52	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	72	4	GroundH2O	ug/L	A15

Sample Date: 22-FEB-94
Extract Date: 28-FEB-94
Analysis Date: 09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kef App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
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MADISON, WI 53705
(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0004	G109A	Alkalinity, Total	638	10	GroundH20	mg/L	22-FEB-94	28-FEB-94
		Aluminum	.6	.05	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Barium	.15	.01	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	2	1	GroundH20	mg/L	22-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Calcium	178	1	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Chemical Oxygen Demand	25	20	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Chromium, Total	.06	.01	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH20	mg/L	22-FEB-94	07-MAR-94
		Fluoride	< .1	.1	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Iron	8.7	.02	GroundH20	mg/L	22-FEB-94	17-MAR-94
		Lead	.054	.003	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Magnesium	59.8	1	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Manganese	.28	.01	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Nickel	.04	.02	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Nitrogen, Nitrate	1.95	.02	GroundH20	mg/L	22-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH20	mg/L	22-FEB-94	06-MAR-94
		Potassium	.91	.1	GroundH20	mg/L	22-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	22-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Sodium	19.6	1	GroundH20	mg/L	22-FEB-94	17-MAR-94
		Solids, Total Dissolved	720	20	GroundH20	mg/L	22-FEB-94	28-FEB-94
		Sulfate	< 10	10	GroundH20	mg/L	22-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Zinc	9.27	.01	GroundH20	mg/L	22-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G109 Reclm Landfill
APPL Sample No: R16484-02634

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago
G109 Reclm Landfill
APPL Sample No: R16484-02634

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/04/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevenson

Checked by: [illegible]

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0003	G109	alpha-BHC	< .052	.05	GroundH2O	ug/L	A1
		beta-BHC	< .052	.05	GroundH2O	ug/L	A1
		delta-BHC	< .052	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .052	.05	GroundH2O	ug/L	A1
		Heptachlor	< .052	.05	GroundH2O	ug/L	A1
		Aldrin	< .052	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .052	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .052	.05	GroundH2O	ug/L	A1
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .52	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .52	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .52	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .52	.5	GroundH2O	ug/L	A1
		PCB-1248	< .52	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .21	.2	GroundH2O	ug/L	A1

Sample Date: 22-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0003	G109	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 52	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 52	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 52	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	29	4	GroundH2O	ug/L	A15

Sample Date: 22-FEB-94
Extract Date: 01-MAR-94
Analysis Date: 11-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kif App'd: [illegible]
Date App'd: 3/31/94

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0003	G109	Alkalinity, Total	703	10	GroundH2O	mg/L	22-FEB-94	28-FEB-94
		Aluminum	1.3	.05	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Barium	.17	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	2	1	GroundH2O	mg/L	22-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Cadmium	.045	.005	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Calcium	222	1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Carbon, Total Organic	1.3	1	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Chemical Oxygen Demand	21	20	GroundH2O	mg/L	22-FEB-94	09-MAR-94
		Chromium, Total	.33	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Copper	.08	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH2O	mg/L	22-FEB-94	07-MAR-94
		Fluoride	< .1	.1	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Iron	19.1	.02	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Lead	.956	.003	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Magnesium	76.6	1	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Manganese	.18	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Nickel	.16	.02	GroundH2O	mg/L	22-FEB-94	12-MAR-94
		Nitrogen, Nitrate	2.84	.02	GroundH2O	mg/L	22-FEB-94	07-MAR-94
		Oil and Grease	2	1	GroundH2O	mg/L	22-FEB-94	06-MAR-94
		Potassium	.92	.1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	22-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Sodium	17.1	1	GroundH2O	mg/L	22-FEB-94	17-MAR-94
		Solids, Total Dissolved	760	20	GroundH2O	mg/L	22-FEB-94	28-FEB-94
		Sulfate	< 10	10	GroundH2O	mg/L	22-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	22-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH2O	mg/L	22-FEB-94	14-MAR-94
		Zinc	53.1	.01	GroundH2O	mg/L	22-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kef App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0014	G109-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Barium	.13	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Calcium	201	1	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Chromium, Total	< .01	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Iron	< .02	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Lead	.004	.003	GroundH20	mg/L	22-FEB-94	10-MAR-94
		Manganese	.06	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	22-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Zinc	5.83	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
L8140-0015	G109A-FILTERED	Aluminum	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Barium	.14	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Calcium	181	1	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Chromium, Total	< .01	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	22-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	22-FEB-94	14-MAR-94
		Iron	4.53	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH20	mg/L	22-FEB-94	10-MAR-94
		Manganese	.24	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	22-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	22-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	22-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	22-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	22-FEB-94	09-MAR-94
		Zinc	5.12	.01	GroundH20	mg/L	22-FEB-94	09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago
G108 Reclm Landfill
APPL Sample No: R16484-02632

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G108 Reclm Landfill
APPL Sample No: R16484-02632

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/04/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevenson

Checked by: [illegible]

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0009	G108	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 51	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 51	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 51	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	27	4	GroundH2O	ug/L	A15

Sample Date: 23-FEB-94
Extract Date: 28-FEB-94
Analysis Date: 09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: Kof App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0009	G108	alpha-BHC	< .05	.05	GroundH2O	ug/L	
		beta-BHC	< .05	.05	GroundH2O	ug/L	
		delta-BHC	< .05	.05	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< .05	.05	GroundH2O	ug/L	
		Heptachlor	< .05	.05	GroundH2O	ug/L	
		Aldrin	< .05	.05	GroundH2O	ug/L	
		Heptachlor epoxide	< .05	.05	GroundH2O	ug/L	
		Endosulfan I	< .05	.05	GroundH2O	ug/L	
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .5	.5	GroundH2O	ug/L	
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .5	.5	GroundH2O	ug/L	
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .5	.5	GroundH2O	ug/L	
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .5	.5	GroundH2O	ug/L	
		PCB-1248	< .5	.5	GroundH2O	ug/L	
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .2	.2	GroundH2O	ug/L	

Sample Date: 23-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 04-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0009	G108	Alkalinity, Total	454	10	GroundH20	mg/L	23-FEB-94	28-FEB-94
		Aluminum	1.89	.05	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	.002	.002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Barium	.06	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	23-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Calcium	168	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Chromium, Total	.04	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Copper	.02	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Fluoride	< .1	.1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Iron	9.17	.02	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Lead	.055	.003	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Magnesium	87.2	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Manganese	.26	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	.03	.02	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nitrogen, Nitrate	10.6	.02	GroundH20	mg/L	23-FEB-94	07-MAR-94
		Oil and Grease	< 1	1	GroundH20	mg/L	23-FEB-94	06-MAR-94
		Potassium	.88	.1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Sodium	3	1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Solids, Total Dissolved	520	20	GroundH20	mg/L	23-FEB-94	02-MAR-94
		Sulfate	< 10	10	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Zinc	4.56	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G107 Reclm Landfill
APPL Sample No: R16484-02631

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	0.9	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: NA
Report Date: 03/14/94

Sample I.D. No: **BLANK**
Sampled 02/22-23/94
APPL Sample No: R16484-940301W

Date Received: NA
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Checked by: Lamie Cooper

Warzyn Incorporated
P.O. Box 5385
Madison, Wisconsin 53705
Attn: S. Tauschek

Report Date: 03/14/94

Project ID No: 55006602 Winnebago Reclm Landfill

APPL Spike ID: R16484 02631-02641 940301WA

Concentration Units: µg/L

SPIKES

Method	Analysis	Date	Amt in Sample	Amt Spiked	Results	Percent Recovery	RPD
632	3-Iodo-2-propynyl butylcarbamate	03/01/94	0.00	2.0	1.67	83.5	12

APPL Spike ID: R16484 02631-02641 940301WB

Method	Analysis	Date	Amt in Sample	Amt Spiked	Results	Percent Recovery	RPD
632	3-Iodo-2-propynyl butylcarbamate	03/01/94	0.00	2.0	1.48	74.0	12

Comments:

Checked By Pamela Cooper

Warzyn Incorporated
P.O. Box 5385
Madison, Wisconsin 53705
Attn: S. Tauschek

Report Date: 03/14/94

Project ID No: 55006602 Winnebago Reclm Landfill

APPL Spike ID: R16484 02631-02641 940301WA

Concentration Units: µg/L

SPIKES

Method	Analysis	Date	Amt in Sample	Amt Spiked	Results	Percent Recovery	RPD
632	Fluometuron	03/01/94	0.00	2.0	1.51	75.5	4.8
632	Diuron	03/01/94	0.00	2.0	1.46	73.0	4.9
632	Carbofuran	03/01/94	0.00	1.0	0.785	78.5	14

APPL Spike ID: R16484 02631-02641 940301WB

Method	Analysis	Date	Amt in Sample	Amt Spiked	Results	Percent Recovery	RPD
632	Fluometuron	03/01/94	0.00	2.0	1.44	72.0	4.8
632	Diuron	03/01/94	0.00	2.0	1.39	69.5	4.9
632	Carbofuran	03/01/94	0.00	1.0	0.683	68.3	14

Comments:

Checked By Pamela Cooper

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: NA
Report Date: 03/14/94

Sample I.D. No: **BLANK**
Sampled 02/22-23/94
APPL Sample No: R16484-940301W

Date Received: NA
Date Extracted: 03/01/94
Date Analyzed: 03/04/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Checked by: Pamela Cooper

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

TOTAL ORGANIC HALIDES REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0009	G108	Total Organic Halides	< .03	.03	GroundH20	mg/L	
		Sample Date: 23-FEB-94					
		Analysis Date: 11-MAR-94					
L8140-0010	G107	Total Organic Halides	< .03	.03	GroundH20	mg/L	
		Sample Date: 23-FEB-94					
		Analysis Date: 11-MAR-94					
L8140-0011	G120B	Total Organic Halides	< .03	.03	GroundH20	mg/L	
		Sample Date: 23-FEB-94					
		Analysis Date: 11-MAR-94					

RL = Reporting Limit

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

TOTAL ORGANIC HALIDES REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test		Result	RL	Matrix	Units	Footnotes
L8140-0001	G113A	Total Organic Halides		.11	.03	GroundH2O	mg/L	
		Sample Date:	22-FEB-94					
		Analysis Date:	11-MAR-94					
L8140-0002	G113	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	22-FEB-94					
		Analysis Date:	11-MAR-94					
L8140-0003	G109	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	22-FEB-94					
		Analysis Date:	11-MAR-94					
L8140-0004	G109A	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	22-FEB-94					
		Analysis Date:	11-MAR-94					
L8140-0005	B13	Total Organic Halides		.04	.03	GroundH2O	mg/L	
		Sample Date:	23-FEB-94					
		Analysis Date:	11-MAR-94					
L8140-0006	P6	Total Organic Halides		.05	.03	GroundH2O	mg/L	
		Sample Date:	23-FEB-94					
		Analysis Date:	11-MAR-94					
L8140-0007	B11	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	23-FEB-94					
		Analysis Date:	11-MAR-94					
L8140-0008	B11A	Total Organic Halides		< .03	.03	GroundH2O	mg/L	
		Sample Date:	23-FEB-94					
		Analysis Date:	11-MAR-94					

RL = Reporting Limit

Ck'd: App'd:
Date App'd: 3/31/94

IEA
An Aquarion Company

Client: WARZYN
IEA Job#: CH940266
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	1	1			
Method Blank	VW0302	VW0308	VW0308			
Client ID	METHOD BLANK	METHOD BLANK	G120B			PQL
Analyte Lab ID	VW0302	VW0308	40266 011			
2,2-Dichloropropane	U	U	U			5
1,1-Dichloropropene	U	U	U			5
total-1,3-dichloropropene	U	U	U			5
cis-1,3-dichloropropene	U	U	U			5
trans-1,3-dichloropropene	U	U	U			5
1,4-Difluorobenzene	U	U	U			5
Ethyl acetate	U	U	U			5
Ethanol	U	U	U			100
Ethyl methacrylate	U	U	U			5
Ethyl benzene	U	U	U			5
1,2-dibromoethane	U	U	U			5
2-Hexanone	U	U	U			10
Iodomethane	U	U	U			5
4-Methyl-2-pentanone	U	U	U			10
Methylene bromide	U	U	U			5
Methylene chloride	U	U	U			5
1-Propanol	U	U	U			100
2-Propanol	U	U	U			100
n-Propylbenzene	U	U	U			5
Styrene	U	U	U			10
1,1,1,2-Tetrachloroethane	U	U	U			5
1,1,2,2-Tetrachloroethane	U	U	U			5
Tetrachloroethene	U	U	6			5
Tetrahydrofuran	U	U	U			5
Toluene	U	U	U			5
1,2,3-Trichlorobenzene	U	U	U			5
1,2,4-Trichlorobenzene	U	U	U			5
1,1,1-Trichloroethane	U	U	8			5
1,1,2-Trichloroethane	U	U	U			5
Trichloroethene	U	U	11			5
Trichlorofluoromethane	U	U	U			5
1,2,3-Trichloropropane	U	U	U			5
1,2,4-Trimethylbenzene	U	U	U			5
1,3,5-Trimethylbenzene	U	U	U			5
Vinyl acetate	U	U	U			10
Vinyl chloride	U	U	U			2
m-Xylene	U	U	U			5
0-Xylene	U	U	U			5
p-Xylene	U	U	U			5
Xylenes	U	U	U			5
bis chloromethyl ether	U	U	U			*
Date Analyzed	3/2/94	3/8/94	3/9/94			

PQL = Practical Quantitation Limit

To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.
* See Case Narrative

IEA
An Aquarion Company

Client: WARZYN
IEA Job#: CH940266
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	1	1			
Method Blank	VW0302	VW0308	VW0308			
Client ID	METHOD BLANK	METHOD BLANK	G120B			PQL
Analyte / Lab ID	VW0302	VW0308	40266 011			
Acetone	U	U	U			10
Acrolein	U	U	U			25
Acrylonitrile	U	U	U			10
Benzene	U	U	U			5
Bromobenzene	U	U	U			5
Bromochloromethane	U	U	U			5
Bromodichloromethane	U	U	U			5
Bromoform	U	U	U			5
Bromomethane	U	U	U			10
2-Butanone	U	U	U			5
1-Butanol	U	U	U			100
2-Butanol	U	U	U			100
n-Butylbenzene	U	U	U			5
sec-Butylbenzene	U	U	U			5
tert-Butylbenzene	U	U	U			5
Carbon disulfide	U	U	U			5
Carbon tetrachloride	U	U	U			5
Chlorobenzene	U	U	U			5
Chlorodibromomethane	U	U	U			5
Chloroethane	U	U	U			10
2-Chloroethyl vinyl ether	U	U	U			10
Chloroform	U	U	U			5
Chloromethane	U	U	U			10
o-Chlorotoluene	U	U	U			5
p-chlorotoluene	U	U	U			5
cumene (isopropyl benzene)	U	U	U			5
cymene (p-Isopropyl toluene)	U	U	U			5
1,2-dibromo-3-chloropropane	U	U	U			5
trans-1,4,-dichloro-2-butene	U	U	U			5
1,2-Dichlorobenzene	U	U	U			5
1,3-Dichlorobenzene	U	U	U			5
1,4-dichlorobenzene	U	U	U			5
Dichlorodifluoromethane	U	U	U			5
1,1-Dichloroethane	U	U	8			5
1,2-Dichloroethane	U	U	U			5
1,1-Dichloroethene	U	U	U			5
total-1,2-dichloroethene	U	U	U			5
cis-1,2-dichloroethene	U	U	46			5
trans-1,2-dichloroethene	U	U	U			5
1,2-Dichloropropane	U	U	U			5
1,3-Dichloropropane	U	U	U			5

PQL = Practical Quantitation Limit
To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

IEA
An Aquanon Company

Client: WARZYN
IEA Job#: CH940266
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	1	1	1	1	1	
Method Blank	VW0308	VW0308	VW0308	VW0308	VW0308	
Client ID	P6	B11	B11A	G108	G107	PQL
Analyte / Lab ID	40266 006	40266 007	40266 008	40266 009	40266 010	
2,2-Dichloropropane	U	U	U	U	U	5
1,1-Dichloropropene	U	U	U	U	U	5
total-1,3-dichloropropene	U	U	U	U	U	5
cis-1,3-dichloropropene	U	U	U	U	U	5
trans-1,3-dichloropropene	U	U	U	U	U	5
1,4-Difluorobenzene	U	U	U	U	U	5
Ethyl acetate	U	U	U	U	U	5
Ethanol	U	U	U	U	U	100
Ethyl methacrylate	U	U	U	U	U	5
Ethyl benzene	U	U	U	U	U	5
1,2-dibromoethane	U	U	U	U	U	5
2-Hexanone	U	U	U	U	U	10
Iodomethane	U	U	U	U	U	5
4-Methyl-2-pentanone	U	U	U	U	U	10
Methylene bromide	U	U	U	U	U	5
Methylene chloride	U	U	U	U	U	5
1-Propanol	U	U	U	U	U	100
2-Propanol	U	U	U	U	U	100
n-Propylbenzene	U	U	U	U	U	5
Styrene	U	U	U	U	U	10
1,1,1,2-Tetrachloroethane	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	5
Tetrachloroethene	35	U	U	U	U	5
Tetrahydrofuran	U	U	U	U	U	5
Toluene	U	U	U	U	U	5
1,2,3-Trichlorobenzene	U	U	U	U	U	5
1,2,4-Trichlorobenzene	U	U	U	U	U	5
1,1,1-Trichloroethane	7	U	U	U	U	5
1,1,2-Trichloroethane	U	U	U	U	U	5
Trichloroethene	14	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	U	5
1,2,3-Trichloropropane	U	U	U	U	U	5
1,2,4-Trimethylbenzene	U	U	U	U	U	5
1,3,5-Trimethylbenzene	U	U	U	U	U	5
Vinyl acetate	U	U	U	U	U	10
Vinyl chloride	U	U	U	U	U	2
m-Xylene	U	U	U	U	U	5
0-Xylene	U	U	U	U	U	5
p-Xylene	U	U	U	U	U	5
Xylenes	U	U	U	U	U	5
bis chloromethyl ether	U	U	U	U	U	*
Date Analyzed	3/8/94	3/8/94	3/8/94	3/8/94	3/9/94	

PQL = Practical Quantitation Limit

To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.
* See Case Narrative

IEA
An Aquarion Company

Client: WARZYN
IEA Job#: CH940266
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Analyte	Dilution Factor (DF)	1	1	1	1	1	PQL
	Method Blank	VW0308	VW0308	VW0308	VW0308	VW0308	
	Client ID	P6	B11	B11A	G108	G107	
	Lab ID	40266 006	40266 007	40266 008	40266 009	40266 010	
Acetone		U	U	U	U	U	10
Acrolein		U	U	U	U	U	25
Acrylonitrile		U	U	U	U	U	10
Benzene		U	U	U	U	U	5
Bromobenzene		U	U	U	U	U	5
Bromochloromethane		U	U	U	U	U	5
Bromodichloromethane		U	U	U	U	U	5
Bromoform		U	U	U	U	U	5
Bromomethane		U	U	U	U	U	10
2-Butanone		U	U	U	U	U	5
1-Butanol		U	U	U	U	U	100
2-Butanol		U	U	U	U	U	100
n-Butylbenzene		U	U	U	U	U	5
sec-Butylbenzene		U	U	U	U	U	5
tert-Butylbenzene		U	U	U	U	U	5
Carbon disulfide		U	U	U	U	U	5
Carbon tetrachloride		U	U	U	U	U	5
Chlorobenzene		U	U	U	U	U	5
Chlorodibromomethane		U	U	U	U	U	5
Chloroethane		U	U	U	U	U	10
2-Chloroethyl vinyl ether		U	U	U	U	U	10
Chloroform		U	U	U	U	U	5
Chloromethane		U	U	U	U	U	10
o-Chlorotoluene		U	U	U	U	U	5
p-chlorotoluene		U	U	U	U	U	5
cumene (Isopropyl benzene)		U	U	U	U	U	5
cymene (p-Isopropyl toluene)		U	U	U	U	U	5
1,2-dibromo-3-chloropropane		U	U	U	U	U	5
trans-1,4,-dichloro-2-butene		U	U	U	U	U	5
1,2-Dichlorobenzene		U	U	U	U	U	5
1,3-Dichlorobenzene		U	U	U	U	U	5
1,4-dichlorobenzene		U	U	U	U	U	5
Dichlorodifluoromethane		U	U	U	U	U	5
1,1-Dichloroethane		U	U	U	U	U	5
1,2-Dichloroethane		U	U	U	U	U	5
1,1-Dichloroethene		U	U	U	U	U	5
total-1,2-dichloroethene		U	U	U	U	U	5
cis-1,2-dichloroethene		26	U	U	13	U	5
trans-1,2-dichloroethene		U	U	U	U	U	5
1,2-Dichloropropane		U	U	U	U	U	5
1,3-Dichloropropane		U	U	U	U	U	5

PQL = Practical Quantitation Limit
To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

Client: WARZYN
IEA Job#: CH940266
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	4	1	1	1	1	
Method Blank	VW0308	VW0308	VW0308	VW0308	VW0308	
	G	G	G	G	B	
Client ID	113 A	113	109	109 A	13	PQL
	40266	40266	40266	40266	40266	
Analyte Lab ID	001	002	003	004	005	
2,2-Dichloropropane	UD	U	U	U	U	5
1,1-Dichloropropene	UD	U	U	U	U	5
total-1,3-dichloropropene	UD	U	U	U	U	5
cis-1,3-dichloropropene	UD	U	U	U	U	5
trans-1,3-dichloropropene	UD	U	U	U	U	5
1,4-Difluorobenzene	UD	U	U	U	U	5
Ethyl acetate	UD	U	U	U	U	5
Ethanol	UD	U	U	U	U	100
Ethyl methacrylate	UD	U	U	U	U	5
Ethyl benzene	UD	U	U	U	U	5
1,2-dibromoethane	UD	U	U	U	U	5
2-Hexanone	UD	U	U	U	U	10
Iodomethane	UD	U	U	U	U	5
4-Methyl-2-pentanone	UD	U	U	U	U	10
Methylene bromide	UD	U	U	U	U	5
Methylene chloride	UD	U	U	U	U	5
1-Propanol	UD	U	U	U	U	100
2-Propanol	UD	U	U	U	U	100
n-Propylbenzene	UD	U	U	U	U	5
Styrene	UD	U	U	U	U	10
1,1,1,2-Tetrachloroethane	UD	U	U	U	U	5
1,1,2,2-Tetrachloroethane	UD	U	U	U	U	5
Tetrachloroethene	20	U	U	U	12	5
Tetrahydrofuran	UD	U	U	U	U	5
Toluene	UD	U	U	U	U	5
1,2,3-Trichlorobenzene	UD	U	U	U	U	5
1,2,4-Trichlorobenzene	UD	U	U	U	U	5
1,1,1-Trichloroethane	UD	U	U	U	U	5
1,1,2-Trichloroethane	UD	U	U	U	U	5
Trichloroethene	49	U	U	U	11	5
Trichlorofluoromethane	UD	U	U	U	U	5
1,2,3-Trichloropropane	UD	U	U	U	U	5
1,2,4-Trimethylbenzene	UD	U	U	U	U	5
1,3,5-Trimethylbenzene	UD	U	U	U	U	5
Vinyl acetate	UD	U	U	U	U	10
Vinyl chloride	16	U	U	U	U	2
m-Xylene	UD	U	U	U	U	5
0-Xylene	UD	U	U	U	U	5
p-Xylene	UD	U	U	U	U	5
Xylenes	UD	U	U	U	U	5
bis chloromethyl ether	UD	U	U	U	U	*
Date Analyzed	3-8-94	3-2-94	3-8-94	3-8-94	3-8-94	

PQL = Practical Quantitation Limit

To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.
* See Case Narrative

Client: WARZYN
IEA Job#: CH940266
Project #: 55006602

VOLATILE ORGANIC COMPOUNDS
PROGRAM #1, LIST 3A
ug / L

Matrix: Water
Method: 8260

Dilution Factor (DF)	4	1	1	1	1	
Method Blank	VW0308	VW0308	VW0308	VW0308	VW0308	
Client ID	G 113 A	G 113	G 109	G 109 A	B 13	PQL
Analyte / Lab ID	40266 001	40266 002	40266 003	40266 004	40266 005	
Acetone	UD	U	U	U	U	10
Acrolein	UD	U	U	U	U	25
Acrylonitrile	UD	U	U	U	U	10
Benzene	UD	U	U	U	U	5
Bromobenzene	UD	U	U	U	U	5
Bromochloromethane	UD	U	U	U	U	5
Bromodichloromethane	UD	U	U	U	U	5
Bromoform	UD	U	U	U	U	5
Bromomethane	UD	U	U	U	U	10
2-Butanone	UD	U	U	U	U	5
1-Butanol	UD	U	U	U	U	100
2-Butanol	UD	U	U	U	U	100
n-Butylbenzene	UD	U	U	U	U	5
sec-Butylbenzene	UD	U	U	U	U	5
tert-Butylbenzene	UD	U	U	U	U	5
Carbon disulfide	UD	U	U	U	U	5
Carbon tetrachloride	UD	U	U	U	U	5
Chlorobenzene	UD	U	U	U	U	5
Chlorodibromomethane	UD	U	U	U	U	5
Chloroethane	UD	U	U	U	U	10
2-Chloroethyl vinyl ether	UD	U	U	U	U	10
Chloroform	UD	U	U	U	U	5
Chloromethane	UD	U	U	U	U	10
o-Chlorotoluene	UD	U	U	U	U	5
p-chlorotoluene	UD	U	U	U	U	5
cumene (Isopropyl benzene)	UD	U	U	U	U	5
cymene (p-Isopropyl toluene)	UD	U	U	U	U	5
1,2-dibromo-3-chloropropane	UD	U	U	U	U	5
trans-1,4,-dichloro-2-butene	UD	U	U	U	U	5
1,2-Dichlorobenzene	UD	U	U	U	U	5
1,3-Dichlorobenzene	UD	U	U	U	U	5
1,4-dichlorobenzene	UD	U	U	U	U	5
Dichlorodifluoromethane	UD	U	U	U	U	5
1,1-Dichloroethane	24	U	U	U	6	5
1,2-Dichloroethane	UD	U	U	U	U	5
1,1-Dichloroethene	UD	U	U	U	U	5
total-1,2-dichloroethene	UD	U	U	U	U	5
cis-1,2-dichloroethene	110	U	U	5	37	5
trans-1,2-dichloroethene	UD	U	U	U	U	5
1,2-Dichloropropane	UD	U	U	U	U	5
1,3-Dichloropropane	UD	U	U	U	U	5

PQL = Practical Quantitation Limit
To obtain sample-specific quantitation limit, multiply PQL by the Dilution Factor.

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago
G120B Reclm Landfill
APPL Sample No: R16484-02637

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/23/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago
G120B Reclm Landfill
APPL Sample No: R16484-02637

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/05/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevenson

Checked by: [signature]

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0011	G1208	Phenol	< 11	10	GroundH2O	ug/L	A1
		3&4-Methylphenol	< 11	10	GroundH2O	ug/L	A1
		Nitrobenzene	< 11	10	GroundH2O	ug/L	A1
		Isophorone	< 11	10	GroundH2O	ug/L	A1
		2,4-Dimethylphenol	< 11	10	GroundH2O	ug/L	A1
		Bis(2-chloroethoxy)methane	< 11	10	GroundH2O	ug/L	A1
		Benzoic Acid	< 53	50	GroundH2O	ug/L	A1
		Naphthalene	< 11	10	GroundH2O	ug/L	A1
		Hexachlorobutadiene	< 11	10	GroundH2O	ug/L	A1
		2-Chloronaphthalene	< 11	10	GroundH2O	ug/L	A1
		Dimethyl phthalate	< 11	10	GroundH2O	ug/L	A1
		4-Nitrophenol	< 53	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 11	10	GroundH2O	ug/L	A1
		Carbofuran	< 11	10	GroundH2O	ug/L	A1
		Pentachlorophenol	< 53	50	GroundH2O	ug/L	A1
		Phenanthrene	< 11	10	GroundH2O	ug/L	A1
		Di-n-butylphthalate	< 11	10	GroundH2O	ug/L	A1
		Butylbenzylphthalate	< 11	10	GroundH2O	ug/L	A1
		Bis(2-ethylhexyl)phthalate	41	4	GroundH2O	ug/L	A15

Sample Date: 23-FEB-94
Extract Date: 01-MAR-94
Analysis Date: 15-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Footnotes
L8140-0011	G120B	alpha-BHC	< .053	.05	GroundH2O	ug/L	A1
		beta-BHC	< .053	.05	GroundH2O	ug/L	A1
		delta-BHC	< .053	.05	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< .053	.05	GroundH2O	ug/L	A1
		Heptachlor	< .053	.05	GroundH2O	ug/L	A1
		Aldrin	< .053	.05	GroundH2O	ug/L	A1
		Heptachlor epoxide	< .053	.05	GroundH2O	ug/L	A1
		Endosulfan I	< .053	.05	GroundH2O	ug/L	A1
		Dieldrin	< .1	.1	GroundH2O	ug/L	
		p,p'-DDE	< .1	.1	GroundH2O	ug/L	
		Endrin	< .1	.1	GroundH2O	ug/L	
		Endosulfan II	< .1	.1	GroundH2O	ug/L	
		p,p'-DDD	< .1	.1	GroundH2O	ug/L	
		Endosulfan sulfate	< .1	.1	GroundH2O	ug/L	
		p,p'-DDT	< .1	.1	GroundH2O	ug/L	
		Endrin ketone	< .1	.1	GroundH2O	ug/L	
		Methoxychlor	< .53	.5	GroundH2O	ug/L	A1
		Endrin aldehyde	< .1	.1	GroundH2O	ug/L	
		Chlordane (Technical)	< .53	.5	GroundH2O	ug/L	A1
		Toxaphene	< 1	1	GroundH2O	ug/L	
		PCB-1016	< .53	.5	GroundH2O	ug/L	A1
		PCB-1221	< 1	1	GroundH2O	ug/L	
		PCB-1232	< 1	1	GroundH2O	ug/L	
		PCB-1242	< .53	.5	GroundH2O	ug/L	A1
		PCB-1248	< .53	.5	GroundH2O	ug/L	A1
		PCB-1254	< 1	1	GroundH2O	ug/L	
		PCB-1260	< 1	1	GroundH2O	ug/L	
		Alachlor	< .21	.2	GroundH2O	ug/L	A1

Sample Date: 23-FEB-94
Extract Date: 25-FEB-94
Analysis Date: 08-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

MADISON
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0022	G120B-FILTERED	Aluminum	< .05	.05	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Antimony	< .005	.005	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Barium	.08	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Beryllium	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Boron	< .1	.1	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Cadmium	< .005	.005	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Calcium	67.4	1	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Chromium, Total	< .01	.01	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Cobalt	< .01	.01	GroundH2O	mg/L	23-FEB-94	15-MAR-94
		Copper	< .01	.01	GroundH2O	mg/L	23-FEB-94	14-MAR-94
		Iron	.32	.02	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Lead	< .003	.003	GroundH2O	mg/L	23-FEB-94	10-MAR-94
		Manganese	.03	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Mercury	< .0002	.0002	GroundH2O	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Selenium	< .002	.002	GroundH2O	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Thallium	< .002	.002	GroundH2O	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH2O	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH2O	mg/L	23-FEB-94	09-MAR-94
		Zinc	< .01	.01	GroundH2O	mg/L	23-FEB-94	09-MAR-94

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: App'd:
Date App'd: 3/31/94

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	RL	Matrix	Units	Sample Date	Analysis Date
L8140-0011	G120B	Alkalinity, Total	263	10	GroundH20	mg/L	23-FEB-94	28-FEB-94
		Aluminum	.87	.05	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Antimony	< .005	.005	GroundH20	mg/L	23-FEB-94	15-MAR-94
		Arsenic	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Barium	.1	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Beryllium	< .0002	.0002	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	23-FEB-94	24-FEB-94
		Boron	< .1	.1	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Cadmium	< .005	.005	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Calcium	70	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Carbon, Total Organic	< 1	1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Chromium, Total	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cobalt	< .01	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Copper	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Cyanide, Total	< .005	.005	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Fluoride	< .1	.1	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Iron	2.08	.02	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Lead	.004	.003	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Magnesium	36.7	1	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Manganese	.1	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Mercury	< .0002	.0002	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nickel	< .02	.02	GroundH20	mg/L	23-FEB-94	12-MAR-94
		Nitrogen, Nitrate	2.59	.02	GroundH20	mg/L	23-FEB-94	07-MAR-94
		Oil and Grease	2	1	GroundH20	mg/L	23-FEB-94	06-MAR-94
		Potassium	2.05	.1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Selenium	< .002	.002	GroundH20	mg/L	23-FEB-94	16-MAR-94
		Silver	< .01	.01	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Sodium	4.2	1	GroundH20	mg/L	23-FEB-94	17-MAR-94
		Solids, Total Dissolved	326	20	GroundH20	mg/L	23-FEB-94	02-MAR-94
		Sulfate	24	10	GroundH20	mg/L	23-FEB-94	10-MAR-94
		Thallium	< .002	.002	GroundH20	mg/L	23-FEB-94	11-MAR-94
		Tin	< .2	.2	GroundH20	mg/L	23-FEB-94	18-MAR-94
		Vanadium	< .05	.05	GroundH20	mg/L	23-FEB-94	14-MAR-94
		Zinc	.02	.01	GroundH20	mg/L	23-FEB-94	12-MAR-94

< = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G113A Reclm Landfill
APPL Sample No: R16484-02635

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/06/94

Results of Triazine Water Analysis by EPA Method 619

Compound	Units	Concentration	Quantitation Limit
Alachlor	µg/L	ND	1.0
Atrazine	µg/L	ND	0.5
Parathion	µg/L	ND	0.5

ND = None Detected

Tested by: Steven Tallman

Checked by: [illegible]

AGRICULTURE & PRIORITY POLLUTANTS LABORATORIES, INC.
4203 West Swift ▼ Fresno, California 93722 ▼ Phone 209.275-2175 ▼ Fax 209.275-4422

Warzyn Engineering
P.O. Box 5385
Madison, WI 53705
Attn: S. Tauschek

Sample Date: 02/22/94
Report Date: 03/14/94

Sample I.D. No: 55006602 Winnebago G113A Reclm Landfill
APPL Sample No: R16484-02635

Date Received: 02/24/94
Date Extracted: 03/01/94
Date Analyzed: 03/05/94

Results of Carbamate Pesticides Water Analysis by EPA Method 632

Compound	Units	Concentration	Quantitation Limit
Aminocarb	µg/L	ND	1
Aldicarb	µg/L	ND	1
Barban	µg/L	ND	1
Benomyl (Carbendazim)	µg/L	ND	1
Bromacil	µg/L	ND	1
Carbaryl	µg/L	ND	1
Carbofuran	µg/L	ND	1
Chloropropham	µg/L	ND	5
Chloroxuron	µg/L	ND	1
Diuron	µg/L	ND	1
Fenuron	µg/L	ND	1
Fluometuron	µg/L	ND	1
Linuron	µg/L	ND	1
Methomyl	µg/L	ND	1
Methiocarb	µg/L	ND	1
Mexacarbate	µg/L	ND	5
Monuron	µg/L	ND	1
Neburon	µg/L	ND	1
Oxamyl	µg/L	ND	1
Propachlor	µg/L	ND	5
Propham	µg/L	ND	5
Propoxur	µg/L	ND	1
Siduron	µg/L	ND	1
Tebuthiuron	µg/L	ND	1
		ND	
ADDITIONAL ANALYTE			
3-Iodo-2-propynyl-butylcarbamate	µg/L	ND	1

ND = None Detected

Tested by: Wayne Stevenson

Checked by: [illegible]

Warzyn Incorporated
P.O. Box 5385
Madison, Wisconsin 53705
Attn: S. Tauschek

Report Date: 03/14/94

Project ID No: 55006602 Winnebago Reclm Landfill

APPL Spike ID: R16484 02631-02641 940301WA

Concentration Units: µg/L

SPIKES

Method	Analysis	Date	Amt in Sample	Amt Spiked	Results	Percent Recovery	RPD
619	Alachlor	03/01/94	0.00	20.0	20.2	101	8.8
619	Atrazine	03/01/94	0.00	10.0	10.8	108	6.7
619	Parathion	03/01/94	0.00	10.0	9.66	96.6	8.6

APPL Spike ID: R16484 02631-02641 940301WB

Method	Analysis	Date	Amt in Sample	Amt Spiked	Results	Percent Recovery	RPD
619	Alachlor	03/01/94	0.00	20.0	18.5	92.5	8.8
619	Atrazine	03/01/94	0.00	10.0	10.1	101	6.7
619	Parathion	03/01/94	0.00	10.0	8.79	87.9	8.6

Comments:

Checked By Pamela Cooper

Job Name: Winnebago Reclamation Landfill | Job No. 55006602 | Page 1

Location: Rockford, IL | Sampling Date: 2/22, 23/94 | By: TSP, DP

Date Processed: | Volume Required: | Project Mgr.

Parameters:

____	pH	____	Chloride	____	Nitrite	____	COD
____	Conductivity	____	Total Hardness	____	Sodium	____	Nitrate
____	Total Alkalinity	____	Dissolved Iron	____	Sulfate	____	TDS

Other: Program 2

Name of Sampler	Sample No.	TD	T.O.C. Elev.	Depth to Water	GW Elev.	Odor	Color	Turb.	Time Purged	Volume Purged	Well Capacity	Time Sampled	Comments
DP	G107	41	739.58	29.29	710.29	None	Brown	Very		6.0	1.9	2-23 1140	
TSP	G108	46.3	751.29	35.18	716.11	None	LT Brown	Mod		6.0	1.8	2-23 1130	
DP	G109	53.4 ~~54~~	760.79	41.36	719.43	None	Tan	Slt	1600	6.3	2.1	2-22 1620	
DP	G109A	81.3	761.03	41.75	719.28	None	Clear	None	1600	20.1	6.7	2-22 1645	Tight
TSP	G113	51.0	762.22	39.63	722.59	None	Lt Brown	Mod	2-22 1430	4.0	1.8	2-22 1600	Tight Bailed dry
TSP	G113A	77.3	762.89	43.18	719.71	None	Clear	Slt		16.5	5.5	2-22 1530	
TSP	G120B	150.0	758.44	37.03	721.41	None	Clear	Slt		55	18.1	1510	
DP	B11	50.5	760.74	35.00	721.74	None	Lt Tan	None		6.4	1.9	2-23 1020	

Name of Sampler	Sample No.	TD	T.O.C. Elev.	Depth to Water	GW Elev.	Odor	Color	Turb.	Time Purged	Volume Purged	Well Capacity	Time Sampled	Comments
TSD	B11A	77.1	759.09	9.05	720.04	None	Clear	None		20.	.4	2-23 1030	Keck purge
TSD	B13	35.6 ~~36~~	739.46	24.37	715.09	Spicy	Clear	Slt		6.5	1.9	2-23 0840	
DP	P6	52.1	739.71	25.03	714.68	None	Tan	Slt		13.5	4.5	2-23 0850	

Comments: _____

Sampling Device: _____

Purging Method: _____

Cleaning Method: _____ Form # _____

[jlv/Wiskes/Winne-18]

Page 1
C# 55006602
Date

Field Testing/Sampling Preparation

Lab No.	Sample No.	Time Filtered/ Analyzed	pH	Spec. Cond.	Temp.	Spec. Cond. @ 25 deg.	Analyst	Comments	
	G107	11:59	6.79	500	8.0	760	TAB		2-22-94
	G108	11:50	6.52	600	9.0	880	TAB		2-22-94
	G109	17:09	6.63	800	8.0	1210	TAB		2-22-94
	G109A	17:20	6.42	820	9.0	1205	TAB		2-22-94
	G113	16:40	6.91	480	8.5	720	TAB		2-22-94
	G113A	16:26 TAB	6.46	980	9.0	1140	TAB		2-22-94
	G120B	15:30	7.84	385	9.0	565	TAB		2-23-94
	B11	10:40	6.83	390	9.0	575	TAB		2-23-94

Standards, end of day 2-22-94

Ph 4.0 std read 4.00
7.0 std read 7.06
Cond 1000 std read 720 at 9 °C = 1045

Page 2
C# 55006602
Date 2-23-94

Field Testing/Sampling Preparation

Lab No.	Sample No.	Time Filtered/ Analyzed	pH	Spec. Cond.	Temp.	Spec. Cond. @ 25 deg.	Analyst	Comments	
	B11A	10:45	6.87	455	8.0	690	TAB		2-23-94
	B13	09:40	6.48	700	9.0	1030	TAB		2-23-94
	P6	09:30	6.74	420	8.5	630	TAB		2-23-94

pH Meter: 4.0 std read 4.00 ; 7.0 std read 7.06 Filter:
Conductivity Meter: 1,000 std read 730 at 10°C ; 10,000 std read 6500 at 10°C
Bottle Types/Preservation:
Conductivity of Standard:

[jlv/Wiskes/Winne-2B]

End of day 2-23-94 pH: 4.0 std read 4.00
7.0 std read 7.06
Cond: 1000 std read 700 at 11 °C = 970
10,000 std read 6800 at 11 °C = 9440

WARZYN

Program 2

№ 005410

CHAIN OF CUSTODY RECORD

PROJECT No. 55006602

PROJECT NAME Winnebago Reclamation Landfill

CITY & STATE Rockford, IL

SAMPLERS *(Signature)* J. J. Dushek, David A. Pizzuto, Teresa A. Burke

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Oil & Grease	BOD	~~Metals Filt~~ 2/24/94	Metals - unfilt *	Cyanide	COD, TOC, Nitrate	SO4, Alk, F, TDS	SVOC's	Pest/PCB's	GW
8140-00-01	2/22/94	1530		X	G113A	12	1	1	1	1	1	1	1	2	3	
02		1600			G113											
03		1620			G109											
04		1645			G109A											
05	2/23/94	0840			B13											
06		0850			P6											
07		1020			B11											
08		1030			B11A											
09		1130			G108											
010		1140			G107											
011		1510			G120B											
~~0/22~~ 2-24-94																

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
J. J. Dushek	2/23/94 1810				
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*		Date/Time	
		Randy Meinhof		2-24-94 9:50	

REMARKS

*Metals = Al, Sb, As, Ba, Be, Cd, B, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, Sn, V, Zn

[illegible]

PROJECT MANAGER: S. Tauschek

Distribution: White — Accompanies shipment; Yellow — Laboratory File; Pink — Coordinator Field Files

WARZYN

CHAIN OF CUSTODY RECORD

№ 019104

PROJECT No. 55006602

PROJECT NAME: Winnebago Rec L/F

CITY & STATE: Rockford, Il

SAMPLERS (Signature)

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	metals - filt.						REMARKS
8140-12	2/22/94			X	G113A - Filtered	1	X						
13					G113 -								
14					G109 -								
15					G109A -								
16	2/23/94				B13 -								
17					P6 -								
18					B11 -								
19					B11A -								
20					G108 -								
21					G107 -								
22					G120B -								

GW

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Randy Memhof		Date/Time 2-24-94 7:50	

REMARKS

Metals + Al, Sb, As, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mn, Hg, Ni, Se, Ag, Tl, Sn, V, Zn

[illegible]

PROJECT MANAGER: S. Tuschek

VARZYN

Program 2

№ 005408

CHAIN OF CUSTODY RECORD

OJECT No.	PROJECT NAME
5006602	Winnebago Reclamation Landfill
	CITY & STATE TSD # 2/22/94 Rockford ~~WI~~ IL

MPLERS (Signature) S. J. Ouschek, David G. Pyrt, Muse A Buck

AB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	TOX						REMARKS
	2/22/94	1530		X	G113A	1	✓						
	↓	1600		↓	G113	1	✓						
		1620			G109	1	✓						
		1645			G109A	1	✓						
	2/23/94	0840			B13	1	✓						
	↓	0850			P6	1	✓						
		1020			B11	1	✓						
		1030			B11A	1	✓						
		1130			G108	1	✓						
		1140			G107	1	✓						
		1510		✓	G120B	1	✓						

elinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
S. J. Ouschek	2/23/94 1630				
elinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
elinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Christine Pardo		Date/Time 2/24/94 10:10	

EMARKS

PROJECT MANAGER: S. Tauschek

Shipped to: TMA

Fed Ex # 5186602083

COC Seals 1204620, 9204621

WARZYN

Program 2

№ 005411

CHAIN OF CUSTODY RECORD

PROJECT No.: 55006602

PROJECT NAME: Winnebago Reclamation Landfill

CITY & STATE: Rockford IL

SAMPLERS (Signature): J. J. Dushek, David A. [illegible], Teresa A Burke

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	VOC's - SW8260, SW8015						REMARKS
	2/22/94	1530		X	G113A	4	✓						
	↓	1600		↓	G113	4	✓						
		1620			G109	4	✓						
		1645			G109A	4	✓						
	2/23/94	0840		X	B13	4	✓						
	↓	0850		↓	P6	4	✓						
		1020			B11	4	✓						
		1030			B11A	4	✓						
		1130			G108	4	✓						
		1140			G107	4	✓						
		1510			G120B	4	✓						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
J. J. Dushek	2/23/94 1630				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Vince Vuglar	RECV'd ON ICE	Date/Time 2-24-94 9:30	

REMARKS

PROJECT MANAGER: S. Tauschek

Shipped to: IEA

Fed Ex # 5186602094

COC Seals: 9204618, 9204619

WARZYN

Program 2

№ 005409

CHAIN OF CUSTODY RECORD

PROJECT No.: 55006602

PROJECT NAME: Winnebago Reclamation Landfill

CITY & STATE: Rockford, IL

SAMPLERS (Signature): J. J. Tuschek, David A. Pyrch

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Herb. - E619, E632						REMARKS
	2/22/94	1530		X	G113A	2	✓						One Bottle was Received Broken
	↓	1600		↓	G113	2	✓						
		1620			G109	2	✓						
		1645			G109A	2	✓						
	2/23/94	1130			G108	2	✓						
	↓	1140		↓	G107	2	✓						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
J. J. Tuschek	2/23/94 1630	Fed Express			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
Fed Express		[signature]		2/24/94 10:25	all other Sample Chilled & intact

REMARKS

PROJECT MANAGER: S. Tauschek

Shipped to: Appl

Fed Ex # 5186602105

COC Seal 9204616, 9204617

WARZYN

Program 2

№ 015352

CHAIN OF CUSTODY RECORD

PROJECT No. 55006602

PROJECT NAME Winnebago Reclamation Landfill

CITY & STATE Rockford IL

SAMPLERS *(Signature)* J. J. Ouschek, David G. Pryor

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Herb. - E619, E632						REMARKS
	2/23/94	0840		X	B13	2	✓						
	↓	0850		↓	P6	2	✓						
		1020			B11	2	✓						
		1030			B11A	2	✓						
		1510			G120B	2	✓						

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
J. J. Ouschek	2/23/94 1630	Fed Express			
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*		Date/Time	
Fed Express		[signature]		2/24/94 10:25	Chilled & intact

REMARKS

PROJECT MANAGER: S. Tauschek

Shipped to: Appl
Fed Ex # 5186602105
COC Seals: 9204622, 9204623

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Footnotes

Sample #	Test	Footnote
L8140-0001	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0002	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0003	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0004	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0005	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0006	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0006	Zinc	A15
L8140-0007	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0008	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0009	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0010	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0010	Arsenic	A4
L8140-0010	Antimony	A2, A4
L8140-0010	Selenium	A2
L8140-0011	Aluminum	Result should be considered estimated as indicated by method QC.
L8140-0011	Zinc	A15

RL = Reporting Limit
WI Lab Certification ID#: 113138300

Ck'd: [illegible] App'd: [illegible]
Date App'd: 3/31/94

WARZYN

June 9, 1994

Mr. Thomas Hilbert
Enviromental Engineer
Winnebago Reclamation
8403 Lindenwood Road
Rockford, Illinois 61109

Re: Winnebago Reclamation
Program 2
Sampled May 1994

Dear Mr. Hilbert:

Enclosed are two copies of the analytical results, diskette and chain-of-custody for the samples collected in May 1994. Please feel free to call if you have any questions.

Sincerely,

WARZYN INC.

for Sheila M. Tauschek
Project Manager

Enclosures: As Stated

cc: S. Tauschek

SMT/kaf/GLG
G:\GLAB\DMGMT\LETTERS\55006602.WPD
55006602

'HE PERFECT BALANCE
WEEN TECHNOLOGY
AND CREATIVITY

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WARZYN

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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A3 Elevated quantitation limit necessary to overcome difficult matrix.

A4 Result should be considered estimated with possible low bias due to unknown interference.

A5 Result should be considered estimated with possible low bias due to difficult matrix.

A6 Result should be considered estimated with possible low bias as indicated by method QC.

A7 Result should be considered estimated with possible high bias due to unknown interference.

A8 Result should be considered estimated with possible high bias due to difficult matrix.

A9 Result should be considered estimated with possible high bias as indicated by method QC.

A10 Result should be considered estimated due to non-homogeneous sample matrix.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated with possible high bias; analyte detected in method blank.

A16 Elevated quantitation limit indicated by batch QC.

M2 Total analysis performed.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

W1 Sample contained <0.5% solids; filtered sample was analyzed as the TCLP extract.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated with possible high bias due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G14 Measurement upon receipt performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	405.1	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate+Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.

Methods for Soil Analysis, 2nd Ed.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	**ICP**	**Flame**	**Furnace**	**CV**	**ICP**	**Flame**	**Furnace**	**CV**
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Footnotes

Sample #	Test	Footnote
L8549-0001	Alkalinity, Total	Insufficient sample to perform analysis.
L8549-0001	Fluoride	Analysis performed using HNO3 preserved sample due to insufficient unpreserved sample.
L8549-0001	Potassium	A7
L8549-0002	Aluminum	A10
L8549-0011	Alkalinity, Total	Insufficient sample to perform analysis.
L8549-0011	Arsenic	A4
L8549-0011	Chloride	Insufficient sample to perform analysis.
L8549-0011	Fluoride	Analysis performed using HNO3 preserved sample due to insufficient unpreserved sample.
L8549-0011	Potassium	A7
L8549-0011	Antimony	A4
L8549-0011	Selenium	A4
L8549-0012	Iron	A10
L8549-0021	Antimony	A2
L8549-0022	Antimony	A2
L8549-0023	Antimony	A2
L8549-0024	Antimony	A2

Chk'd: App'd:
Date App'd:

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0001	G109	Aluminum	0.56	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.14	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0004	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Calcium	219	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	25	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.09	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.02	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Fluoride	0.13	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Iron	4.25	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	0.119	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	73.6	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.09	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.06	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Potassium	0.67	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	17.8	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	5.96	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	6.84	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0013	G109-FILTERED (DIS)	Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	0.14	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0003	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	198	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	1.1	1.0	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	25	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	63.3	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.04	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-[illegible]
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Nitrogen, Ammonia	0.13	0.10	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	3.03	0.02	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Potassium	0.62	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Sodium	15.6	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	912	20	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Sulfate	13	10	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	1.89	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94

Chk'd: Kaf App'd:
Date App'd:

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0001	G109	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 23-MAY-94

WARZYN

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0001	G109	alpha-BHC	< 0.10	0.050	GroundH2O	ug/L	A1
		beta-BHC	< 0.10	0.050	GroundH2O	ug/L	A1
		delta-BHC	< 0.10	0.050	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< 0.10	0.050	GroundH2O	ug/L	A1
		Heptachlor	< 0.10	0.050	GroundH2O	ug/L	A1
		Aldrin	< 0.10	0.050	GroundH2O	ug/L	A1
		Heptachlor epoxide	< 0.10	0.050	GroundH2O	ug/L	A1
		Endosulfan I	< 0.10	0.050	GroundH2O	ug/L	A1
		Dieldrin	< 0.20	0.10	GroundH2O	ug/L	A1
		p,p'-DDE	< 0.20	0.10	GroundH2O	ug/L	A1
		Endrin	< 0.20	0.10	GroundH2O	ug/L	A1
		Endosulfan II	< 0.20	0.10	GroundH2O	ug/L	A1
		p,p'-DDD	< 0.20	0.10	GroundH2O	ug/L	A1
		Endosulfan sulfate	< 0.20	0.10	GroundH2O	ug/L	A1
		p,p'-DDT	< 0.20	0.10	GroundH2O	ug/L	A1
		Endrin ketone	< 0.20	0.10	GroundH2O	ug/L	A1
		Methoxychlor	< 1.0	0.50	GroundH2O	ug/L	A1
		Endrin aldehyde	< 0.20	0.10	GroundH2O	ug/L	A1
		Chlordane (Technical)	< 1.0	0.50	GroundH2O	ug/L	A1
		Toxaphene	< 2.0	1.0	GroundH2O	ug/L	A1
		PCB-1016	< 1.0	0.50	GroundH2O	ug/L	A1
		PCB-1221	< 2.0	1.0	GroundH2O	ug/L	A1
		PCB-1232	< 2.0	1.0	GroundH2O	ug/L	A1
		PCB-1242	< 1.0	0.50	GroundH2O	ug/L	A1
		PCB-1248	< 1.0	0.50	GroundH2O	ug/L	A1
		PCB-1254	< 2.0	1.0	GroundH2O	ug/L	A1
		PCB-1260	< 2.0	1.0	GroundH2O	ug/L	A1
		Alachlor	< 0.40	0.20	GroundH2O	ug/L	A1

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: [illegible]

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870001	G109					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870001	G109					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94 METHOD BLANK: VW052794
DATE ANALYZED: 05/27/94

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0002	G109A	Alkalinity, Total	623	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	8.09	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	0.007	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.20	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	0.0020	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	2	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0260	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Calcium	211	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	34	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.21	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.03	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Fluoride	0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	56.0	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	0.210	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	71.3	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.78	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.12	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	1930	1	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Potassium	1.31	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	143	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	61.2	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	6.96	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0014	G109A-FILTERED	Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	0.14	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	180	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	7.7	1.0	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	22	20	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	33	2	GroundH2O	mg/L	18-MAY-94	23-MAY-9
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	4.16	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	59.4	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.26	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-
		Nitrogen, Ammonia	0.11	0.10	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	1.17	0.02	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Potassium	0.76	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Sodium	16.1	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Sulfate	< 10	10	GroundH2O	mg/L	18-MAY-94	25-MAY-9
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	4.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94

TDS.?

Chk'd: Kat App'd:
Date App'd:

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0002	G109A	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0002	G109A	Phenol	< 10	10	GroundH20	ug/L	
		3&4-Methylphenol	< 10	10	GroundH20	ug/L	
		Nitrobenzene	< 10	10	GroundH20	ug/L	
		Isophorone	< 10	10	GroundH20	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH20	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH20	ug/L	
		Benzoic Acid	< 51	50	GroundH20	ug/L	A1
		Naphthalene	< 10	10	GroundH20	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH20	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH20	ug/L	
		Dimethyl phthalate	< 10	10	GroundH20	ug/L	
		4-Nitrophenol	< 51	50	GroundH20	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH20	ug/L	
		Carbofuran	< 10	10	GroundH20	ug/L	
		Pentachlorophenol	< 51	50	GroundH20	ug/L	A1
		Phenanthrene	< 10	10	GroundH20	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH20	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH20	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH20	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 23-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870002	G109A					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870002	G109A					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94 METHOD BLANK: VW052794
DATE ANALYZED: 05/27/94

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0004	G113	Alkalinity, Total	438	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	28.8	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	0.010	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.50	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	0.0050	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	0.14	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0004	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Calcium	2600	1.00	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Chloride	34	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.11	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	0.03	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.17	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	0.034	0.005	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Fluoride	0.20	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	86.3	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	0.174	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	1350	1.00	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Manganese	4.87	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.08	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	1	1	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Potassium	10.2	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	34.6	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	0.07	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	3.99	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	7.14	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0016	G113-FILTERED	Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	0.017	0.005	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	0.10	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	153	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	2.6	1.0	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	29	2	GroundH2O	mg/L	18-MAY-94	23-MAY-9
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	66.1	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.04	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	5.66	0.02	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Potassium	7.33	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Sodium	29.5	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	720	20	GroundH2O	mg/L	18-MAY-94	25-MAY-9
		Sulfate	49	10	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	0.32	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870004	G113					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870004	G113					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94 METHOD BLANK: VW052794
DATE ANALYZED: 05/27/94

WARZYN

MADISON
ONE SCIENCE COURT
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0004	G113	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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(608) 231-4747
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0004	G113	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 52	50	GroundH2O	ug/L	A1
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 52	50	GroundH2O	ug/L	A1
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 52	50	GroundH2O	ug/L	A1
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0003	G113A	Alkalinity, Total	815	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	0.42	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.16	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0013	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Calcium	216	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	48	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.02	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Fluoride	0.11	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	1.50	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	96.7	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.24	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Potassium	4.31	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	26.7	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	0.29	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	6.44	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0015	G113A-FILTERED	Aluminum	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Barium	0.14	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	200	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	4.2	1.0	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Chloride	51	2	GroundH20	mg/L	18-MAY-94	23-MAY-
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	0.08	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	86.6	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.18	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY
		Nickel	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Nitrogen, Ammonia	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	2.66	0.02	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Potassium	4.11	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Sodium	27.5	2.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	876	20	GroundH20	mg/L	18-MAY-94	25-MAY-
		Sulfate	27	10	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	0.15	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquanon Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: [signature]

LAB ID#	CLIENT ID	ANALYTE	RESULT		PQL	UNITS	DILUTION FACTOR
940870003	G113A						
		Acetone	U		10	ug/l	1
		Acrolein	U		25	ug/l	1
		Acrylonitrile	U		10	ug/l	1
		Benzene	U		5	ug/l	1
		Bromobenzene	U		5	ug/l	1
		Bromochloromethane	U		5	ug/l	1
		Bromodichloromethane	U		5	ug/l	1
		Bromoform	U		5	ug/l	1
		Bromomethane	U		10	ug/l	1
		2-Butanone	U		5	ug/l	1
		1-Butanol	U		100	ug/l	1
		2-Butanol	U		100	ug/l	1
		n-Butylbenzene	U		5	ug/l	1
		sec-Butylbenzene	U		5	ug/l	1
		tert-Butylbenzene	U		5	ug/l	1
		Carbon Disulfide	U		5	ug/l	1
		Carbon Tetrachloride	U		5	ug/l	1
		Chlorobenzene	U		5	ug/l	1
		Chlorodibromomethane	U		5	ug/l	1
		Chloroethane	U		10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U		10	ug/l	1
		Chloroform	U		5	ug/l	1
		Chloromethane	U		10	ug/l	1
		o-Chlorotoluene	U		5	ug/l	1
		p-Chlorotoluene	U		5	ug/l	1
		Cumene (Isopropyl Benzene)	U		5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U		5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U		5	ug/l	1
		trans-1,4-dichloro-2-butene	U		5	ug/l	1
		1,2-Dichlorobenzene	U		5	ug/l	1
		1,3-Dichlorobenzene	U		5	ug/l	1
		1,4-Dichlorobenzene	U		5	ug/l	1
		Dichlorodifluoromethane	U		5	ug/l	1
		1,1-Dichloroethane	29		5	ug/l	1
		1,2-Dichloroethane	U		5	ug/l	1
		1,1-Dichloroethene	U		5	ug/l	1
		total-1,2-Dichloroethene	U		5	ug/l	1
		cis-1,2-Dichloroethene	130	E	5	ug/l	1
		trans-1,2-Dichloroethene	U		5	ug/l	1
		1,2-Dichloropropane	7		5	ug/l	1
		1,3-Dichloropropane	U		5	ug/l	1
		2,2-Dichloropropane	U		5	ug/l	1
		1,1-Dichloropropene	U		5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT		PQL	UNITS	DILUTION FACTOR
940870003	G113A						
		total-1,3-Dichloropropene	U		5	ug/l	1
		cis-1,3-Dichloropropene	U		5	ug/l	1
		trans-1,3-Dichloropropene	U		5	ug/l	1
		1,4-Difluorobenzene	U		5	ug/l	1
		Ethyl Acetate	U		5	ug/l	1
		Ethanol	U		100	ug/l	1
		Ethyl Methacrylate	U		5	ug/l	1
		Ethyl Benzene	U		5	ug/l	1
		1,2-Dibromoethane	U		5	ug/l	1
		2-Hexanone	U		10	ug/l	1
		Iodomethane	U		5	ug/l	1
		4-Methyl-2-Pentanone	U		10	ug/l	1
		Methylene Bromide	U		5	ug/l	1
		Methylene Chloride	U		5	ug/l	1
		1-Propanol	U		100	ug/l	1
		2-Propanol	U		100	ug/l	1
		n-Propylbenzene	U		5	ug/l	1
		Styrene	U		10	ug/l	1
		1,1,1,2-Tetrachloroethane	U		5	ug/l	1
		1,1,2,2-Tetrachloroethane	U		5	ug/l	1
		Tetrachloroethene	26		5	ug/l	1
		Tetrahydrofuran	U		5	ug/l	1
		Toluene	U		5	ug/l	1
		1,2,3-Trichlorobenzene	U		5	ug/l	1
		1,2,4-Trichlorobenzene	U		5	ug/l	1
		1,1,1-Trichloroethane	U		5	ug/l	1
		1,1,2-Trichloroethane	U		5	ug/l	1
		Trichloroethene	61	E	5	ug/l	1
		Trichlorofluoromethane	U		5	ug/l	1
		1,2,3-Trichloropropane	U		5	ug/l	1
		1,2,4-Trimethylbenzene	U		5	ug/l	1
		1,3,5-Trimethylbenzene	U		5	ug/l	1
		Vinyl Acetate	U		10	ug/l	1
		Vinyl Chloride	U		2	ug/l	1
		m-Xylene	U		5	ug/l	1
		o-Xylene	U		5	ug/l	1
		p-Xylene	U		5	ug/l	1
		Xylenes	U		5	ug/l	1
		bis Chloromethyl Ether	*		*	ug/l	1

DATE SAMPLED: 05/18/94 METHOD BLANK: VW052794
DATE ANALYZED: 05/27/94

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870003D1	G113A					
		Acetone	UD	10	ug/l	5
		Acrolein	UD	25	ug/l	5
		Acrylonitrile	UD	10	ug/l	5
		Benzene	UD	5	ug/l	5
		Bromobenzene	UD	5	ug/l	5
		Bromochloromethane	UD	5	ug/l	5
		Bromodichloromethane	UD	5	ug/l	5
		Bromoform	UD	5	ug/l	5
		Bromomethane	UD	10	ug/l	5
		2-Butanone	UD	5	ug/l	5
		1-Butanol	UD	100	ug/l	5
		2-Butanol	UD	100	ug/l	5
		n-Butylbenzene	UD	5	ug/l	5
		sec-Butylbenzene	UD	5	ug/l	5
		tert-Butylbenzene	UD	5	ug/l	5
		Carbon Disulfide	UD	5	ug/l	5
		Carbon Tetrachloride	UD	5	ug/l	5
		Chlorobenzene	UD	5	ug/l	5
		Chlorodibromomethane	UD	5	ug/l	5
		Chloroethane	UD	10	ug/l	5
		2-Chloroethyl Vinyl Ethyl	UD	10	ug/l	5
		Chloroform	UD	5	ug/l	5
		Chloromethane	UD	10	ug/l	5
		o-Chlorotoluene	UD	5	ug/l	5
		p-Chlorotoluene	UD	5	ug/l	5
		Cumene (Isopropyl Benzene)	UD	5	ug/l	5
		Cymene (p-Isopropyl Toluene)	UD	5	ug/l	5
		1,2-Dibromo-3-Chloropropane	UD	5	ug/l	5
		trans-1,4-dichloro-2-butene	UD	5	ug/l	5
		1,2-Dichlorobenzene	UD	5	ug/l	5
		1,3-Dichlorobenzene	UD	5	ug/l	5
		1,4-Dichlorobenzene	UD	5	ug/l	5
		Dichlorodifluoromethane	UD	5	ug/l	5
		1,1-Dichloroethane	UD	5	ug/l	5
		1,2-Dichloroethane	UD	5	ug/l	5
		1,1-Dichloroethene	UD	5	ug/l	5
		total-1,2-Dichloroethene	UD	5	ug/l	5
		cis-1,2-Dichloroethene	150	5	ug/l	5
		trans-1,2-Dichloroethene	UD	5	ug/l	5
		1,2-Dichloropropane	UD	5	ug/l	5
		1,3-Dichloropropane	UD	5	ug/l	5
		2,2-Dichloropropane	UD	5	ug/l	5
		1,1-Dichloropropene	UD	5	ug/l	5

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
9408700003D1	G113A					
		total-1,3-Dichloropropene	UD	5	ug/l	5
		cis-1,3-Dichloropropene	UD	5	ug/l	5
		trans-1,3-Dichloropropene	UD	5	ug/l	5
		1,4-Difluorobenzene	UD	5	ug/l	5
		Ethyl Acetate	UD	5	ug/l	5
		Ethanol	UD	100	ug/l	5
		Ethyl Methacrylate	UD	5	ug/l	5
		Ethyl Benzene	UD	5	ug/l	5
		1,2-Dibromoethane	UD	5	ug/l	5
		2-Hexanone	UD	10	ug/l	5
		Iodomethane	UD	5	ug/l	5
		4-Methyl-2-Pentanone	UD	10	ug/l	5
		Methylene Bromide	UD	5	ug/l	5
		Methylene Chloride	UD	5	ug/l	5
		1-Propanol	UD	100	ug/l	5
		2-Propanol	UD	100	ug/l	5
		n-Propylbenzene	UD	5	ug/l	5
		Styrene	UD	10	ug/l	5
		1,1,1,2-Tetrachloroethane	UD	5	ug/l	5
		1,1,2,2-Tetrachloroethane	UD	5	ug/l	5
		Tetrachloroethene	28	5	ug/l	5
		Tetrahydrofuran	UD	5	ug/l	5
		Toluene	UD	5	ug/l	5
		1,2,3-Trichlorobenzene	UD	5	ug/l	5
		1,2,4-Trichlorobenzene	UD	5	ug/l	5
		1,1,1-Trichloroethane	UD	5	ug/l	5
		1,1,2-Trichloroethane	UD	5	ug/l	5
		Trichloroethene	66	5	ug/l	5
		Trichlorofluoromethane	UD	5	ug/l	5
		1,2,3-Trichloropropane	UD	5	ug/l	5
		1,2,4-Trimethylbenzene	UD	5	ug/l	5
		1,3,5-Trimethylbenzene	UD	5	ug/l	5
		Vinyl Acetate	UD	10	ug/l	5
		Vinyl Chloride	UD	2	ug/l	5
		m-Xylene	UD	5	ug/l	5
		o-Xylene	UD	5	ug/l	5
		p-Xylene	UD	5	ug/l	5
		Xylenes	UD	5	ug/l	5
		bis Chloromethyl Ether	*	*	ug/l	5

DATE SAMPLED: 05/18/94 METHOD BLANK: VW060194
DATE ANALYZED: 06/01/94

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0003	G113A	alpha-BHC	< 0.12	0.050	GroundH2O	ug/L	A1
		beta-BHC	< 0.12	0.050	GroundH2O	ug/L	A1
		delta-BHC	< 0.12	0.050	GroundH2O	ug/L	A1
		gamma-BHC (Lindane)	< 0.12	0.050	GroundH2O	ug/L	A1
		Heptachlor	< 0.12	0.050	GroundH2O	ug/L	A1
		Aldrin	< 0.12	0.050	GroundH2O	ug/L	A1
		Heptachlor epoxide	< 0.12	0.050	GroundH2O	ug/L	A1
		Endosulfan I	< 0.12	0.050	GroundH2O	ug/L	A1
		Dieldrin	< 0.25	0.10	GroundH2O	ug/L	A1
		p,p'-DDE	< 0.25	0.10	GroundH2O	ug/L	A1
		Endrin	< 0.25	0.10	GroundH2O	ug/L	A1
		Endosulfan II	< 0.25	0.10	GroundH2O	ug/L	A1
		p,p'-DDD	< 0.25	0.10	GroundH2O	ug/L	A1
		Endosulfan sulfate	< 0.25	0.10	GroundH2O	ug/L	A1
		p,p'-DDT	< 0.25	0.10	GroundH2O	ug/L	A1
		Endrin ketone	< 0.25	0.10	GroundH2O	ug/L	A1
		Methoxychlor	< 1.2	0.50	GroundH2O	ug/L	A1
		Endrin aldehyde	< 0.25	0.10	GroundH2O	ug/L	A1
		Chlordane (Technical)	< 1.2	0.50	GroundH2O	ug/L	A1
		Toxaphene	< 2.5	1.0	GroundH2O	ug/L	A1
		PCB-1016	< 1.2	0.50	GroundH2O	ug/L	A1
		PCB-1221	< 2.5	1.0	GroundH2O	ug/L	A1
		PCB-1232	< 2.5	1.0	GroundH2O	ug/L	A1
		PCB-1242	< 1.2	0.50	GroundH2O	ug/L	A1
		PCB-1248	< 1.2	0.50	GroundH2O	ug/L	A1
		PCB-1254	< 2.5	1.0	GroundH2O	ug/L	A1
		PCB-1260	< 2.5	1.0	GroundH2O	ug/L	A1
		Alachlor	< 0.49	0.20	GroundH2O	ug/L	A1

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0003	G113A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0005	B13	Alkalinity, Total	584	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	0.11	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.18	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	154	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	46	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.02	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Fluoride	0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	3.56	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	0.041	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	71.8	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.21	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Potassium	24.2	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	21.4	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	3.39	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	7.09	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0017	B13-FILTERED	Aluminum	0.06	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Barium	0.19	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	153	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	2.1	1.0	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Chloride	46	2	GroundH20	mg/L	18-MAY-94	23-MAY-[illegible]
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	0.21	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	71.4	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.21	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY[illegible]
		Nickel	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-[illegible]
		Nitrogen, Ammonia	0.36	0.10	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	9.84	0.02	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Potassium	22.4	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Sodium	19.1	2.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	756	20	GroundH20	mg/L	18-MAY-94	25-MAY-[illegible]
		Sulfate	42	10	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	1.11	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0005	B13	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0005	B13	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870005	B13					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	6	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	7	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	46	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: Tom Meeker

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870005	B13					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	13	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	14	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	3	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94
DATE ANALYZED: 05/27/94
METHOD BLANK: VW052794

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0006	P6	Alkalinity, Total	265	10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Aluminum	0.19	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Barium	0.07	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	75.2	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Chloride	25	2	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Fluoride	0.13	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	0.89	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	41.2	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.02	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Nickel	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Potassium	1.28	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Sodium	8.92	2.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		pH	7.54	0.01	GroundH20	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0018	P6-FILTERED	Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	0.07	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	77.1	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	< 1.0	1.0	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	25	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.02	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	43.2	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	8.32	0.02	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Potassium	1.24	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Sodium	8.00	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	380	20	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Sulfate	34	10	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870006	P6					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	28	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870006	P6					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	34	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	7	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	15	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94
DATE ANALYZED: 05/27/94

METHOD BLANK: VW052794

WARZYN

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0006	P6	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0006	P6	Phenol	< 10	10	GroundH20	ug/L	
		3&4-Methylphenol	< 10	10	GroundH20	ug/L	
		Nitrobenzene	< 10	10	GroundH20	ug/L	
		Isophorone	< 10	10	GroundH20	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH20	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH20	ug/L	
		Benzoic Acid	< 50	50	GroundH20	ug/L	
		Naphthalene	< 10	10	GroundH20	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH20	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH20	ug/L	
		Dimethyl phthalate	< 10	10	GroundH20	ug/L	
		4-Nitrophenol	< 50	50	GroundH20	ug/L	
		Diethyl phthalate	< 10	10	GroundH20	ug/L	
		Carbofuran	< 10	10	GroundH20	ug/L	
		Pentachlorophenol	< 50	50	GroundH20	ug/L	
		Phenanthrene	< 10	10	GroundH20	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH20	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH20	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH20	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0007	BAILER BLANK	Alkalinity, Total	< 10	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	< 1.00	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	< 2	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Fluoride	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	< 1.00	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Potassium	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	< 2.00	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	6.55	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0019	BAILER BLANK-FILTERD	Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	0.011	0.005	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	< 1.00	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	< 1.0	1.0	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	< 2	2	GroundH2O	mg/L	18-MAY-94	23-MAY-
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	< 1.00	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Potassium	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Sodium	< 2.00	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	< 20	20	GroundH2O	mg/L	18-MAY-94	25-MAY-
		Sulfate	< 10	10	GroundH2O	mg/L	18-MAY-94	25-MAY-
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0007	BAILER BLANK	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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ONE SCIENCE COURT
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MADISON, WI 53705
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FAX (608) 231-4777

PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0007	BAILER BLANK	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 25-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870007	BAILER BLANK 01					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870007	BAILER BLANK 01					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94 METHOD BLANK: VW052794
DATE ANALYZED: 05/27/94

WARZYN

MADISON
ONE SCIENCE COURT
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0009	B11	Alkalinity, Total	266	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	2.94	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	0.003	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.04	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	0.0003	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0005	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	164	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	7	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.02	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.02	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Fluoride	0.18	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	19.8	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	0.082	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	91.4	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.29	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	2	1	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Potassium	1.29	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	15.4	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	7.54	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	7.54	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
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MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0021	B11-FILTERED	Aluminum	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.010	0.005	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Barium	0.02	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	74.7	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	< 1.0	1.0	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	18-MAY-94	24-MAY-9
		Chloride	7	2	GroundH20	mg/L	18-MAY-94	23-MAY-
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	39.5	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Manganese	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MA
		Nickel	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-
		Nitrogen, Ammonia	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	1.91	0.02	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Potassium	0.97	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Sodium	5.74	2.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	342	20	GroundH20	mg/L	18-MAY-94	25-MAY-
		Sulfate	27	10	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	1.12	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870009	B11					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: [signature]

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870009	B11					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94
DATE ANALYZED: 06/01/94

METHOD BLANK: VW060194

WARZYN

MADISON
ONE SCIENCE COURT
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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0009	B11	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 25-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0009	B11	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0008	B11A	Alkalinity, Total	379	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.03	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0004	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	93.4	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	6	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Fluoride	0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	0.07	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	47.6	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Potassium	0.64	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	5.43	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	1.90	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	7.63	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0020	B11A-FILTERED	Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	0.006	0.005	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	0.03	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0003	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	94.2	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	< 1.0	1.0	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	6	2	GroundH2O	mg/L	18-MAY-94	23-MAY-9
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	48.5	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	2.64	0.02	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Potassium	0.51	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Sodium	3.98	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	420	20	GroundH2O	mg/L	18-MAY-94	25-MAY-9
		Sulfate	28	10	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	1.63	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870008	B11A					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870008	B11A					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94
DATE ANALYZED: 05/27/94

METHOD BLANK: VW052794

WARZYN

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0008	B11A	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 25-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0008	B11A	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0010	G108	Alkalinity, Total	441	10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Aluminum	1.47	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Arsenic	0.003	0.002	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Barium	0.06	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0022	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	190	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	11	2	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	0.03	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.03	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Fluoride	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	7.52	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	0.100	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	101	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.28	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Potassium	0.94	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	10.8	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	5.76	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	7.13	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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ONE SCIENCE COURT
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0022	G108-FILTERED	Aluminum	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.010	0.005	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Barium	0.04	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	121	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	< 1.0	1.0	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	18-MAY-94	24-MAY-9
		Chloride	11	2	GroundH20	mg/L	18-MAY-94	23-MAY-
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	63.1	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY
		Nickel	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY
		Nitrogen, Ammonia	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	9.98	0.02	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Potassium	0.55	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Sodium	2.92	2.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	550	20	GroundH20	mg/L	18-MAY-94	25-MAY-
		Sulfate	12	10	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	0.73	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: [signature]

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870010	G108					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	11	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: [illegible]

AB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
40870010	G108					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94
DATE ANALYZED: 05/27/94

METHOD BLANK: VW052794

WARZYN

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0010	G108	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 25-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0010	G108	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 20-MAY-94
Analysis Date: 24-MAY-94

Chk'd: App'd:
Date App'd:

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0011	G107	Aluminum	46.5	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Arsenic	0.007	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	0.33	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	0.0020	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0041	0.0002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Calcium	560	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chromium, Total	0.09	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	0.07	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	0.21	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Fluoride	0.50	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Iron	113	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	0.193	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	259	1.00	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Manganese	3.62	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	0.0003	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.16	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	< 1	1	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Potassium	9.84	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Sodium	12.8	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Thallium	0.004	0.002	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Vanadium	0.11	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	5.24	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		pH	7.32	0.01	GroundH2O	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
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(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0023	G107-FILTERED	Aluminum	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.010	0.005	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Arsenic	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Barium	0.04	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Calcium	101	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	1.8	1.0	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Chloride	44	2	GroundH2O	mg/L	18-MAY-94	23-MAY-9
		Chromium, Total	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Iron	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH2O	mg/L	18-MAY-94	23-MAY-94
		Magnesium	41.4	1.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.03	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	18-MAY-94	25-MAY-
		Nickel	< 0.02	0.02	GroundH2O	mg/L	18-MAY-94	24-MAY-9
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	18-MAY-94	27-MAY-94
		Nitrogen, Nitrate	4.89	0.02	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Potassium	2.95	0.10	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH2O	mg/L	18-MAY-94	31-MAY-94
		Sodium	9.94	2.00	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	440	20	GroundH2O	mg/L	18-MAY-94	25-MAY-9
		Sulfate	18	10	GroundH2O	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH2O	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH2O	mg/L	18-MAY-94	24-MAY-94
		Zinc	0.34	0.01	GroundH2O	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

AB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
40870011	G107					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST:

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870011	G107					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94
DATE ANALYZED: 05/28/94

METHOD BLANK: VW052794

WARZYN

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PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0011	G107	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 25-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0011	G107	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0012	G120B	Alkalinity, Total	253	10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Aluminum	0.15	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Barium	0.09	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Biochemical Oxygen Demand	< 1	1	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	0.0004	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	68.8	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Chloride	13	2	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cyanide, Total	< 0.005	0.005	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Fluoride	0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	0.47	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	37.2	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Manganese	0.05	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Nickel	0.03	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Oil and Grease	1	1	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Potassium	4.05	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Sodium	5.38	2.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	0.06	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		pH	7.79	0.01	GroundH20	S.U.	18-MAY-94	19-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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MADISON, WI 53705
(608) 231-4747
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INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0024	G120B-FILTERED	Aluminum	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.010	0.005	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Barium	0.08	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	66.3	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	< 1.0	1.0	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Chemical Oxygen Demand	< 20	20	GroundH20	mg/L	18-MAY-94	24-MAY-9[illegible]
		Chloride	13	2	GroundH20	mg/L	18-MAY-94	23-MAY-[illegible]
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	0.09	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	37.8	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Manganese	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY
		Nickel	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Nitrogen, Ammonia	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Nitrogen, Nitrate	2.39	0.02	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Potassium	3.39	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Sodium	5.69	2.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Solids, Total Dissolved	328	20	GroundH20	mg/L	18-MAY-94	25-MAY-
		Sulfate	25	10	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: [illegible]

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870012	G120B					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	7	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	43	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquarion Company

CLIENT:WARZYN
CLIENT PROJECT#:55006604/161
CLIENT P.O.#:-
IEA PROJECT#:CH940870
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

ANALYST: [signature]

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
940870012	G120B					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	5	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	10	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: 05/18/94
DATE ANALYZED: 05/28/94

METHOD BLANK: VW052794

WARZYN

MADISON
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(608) 231-4747
FAX (608) 231-4777

PESTICIDE/PCB REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0012	G120B	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	
		Endrin	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 25-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
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FAX (608) 231-4777

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0012	G120B	Phenol	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		Benzoic Acid	< 50	50	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	
		Carbofuran	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 4.0	4.0	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 25-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound		Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0001	G109	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0002	G109A	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0003	G113A	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0004	G113	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0005	B13	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					

Chk'd: App'd:
Date App'd:

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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound		Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0006	P6	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0007	BAILER BLANK	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0008	B11A	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0009	B11	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					
L8549-0010	G108	2,4-D		< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)		< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T		< 0.25	0.25	GroundH2O	ug/L	
		Sample Date:	18-MAY-94					
		Extract Date:	25-MAY-94					
		Analysis Date:	26-MAY-94					

Chk'd: App'd:
Date App'd:

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MADISON
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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0011	G107	2,4-D	< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T	< 0.25	0.25	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 25-MAY-94					
		Analysis Date: 26-MAY-94					
L8549-0012	G120B	2,4-D	< 0.50	0.50	GroundH2O	ug/L	
		2,4,5-TP(silvex)	< 0.25	0.25	GroundH2O	ug/L	
		2,4,5-T	< 0.25	0.25	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 25-MAY-94					
		Analysis Date: 26-MAY-94					

Chk'd: App'd:
Date App'd:

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TOTAL ORGANIC HALIDES REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test		Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0001	G109	Total Organic Halides		< 0.03	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					
L8549-0002	G109A	Total Organic Halides		< 0.03	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					
L8549-0003	G113A	Total Organic Halides		0.09	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					
L8549-0004	G113	Total Organic Halides		< 0.03	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					
L8549-0005	B13	Total Organic Halides		0.03	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					
L8549-0006	P6	Total Organic Halides		0.04	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					
L8549-0007	BAILER BLANK	Total Organic Halides		< 0.03	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					
L8549-0008	B11A	Total Organic Halides		< 0.03	0.03	GroundH2O	mg/L	
		Sample Date:	18-MAY-94					
		Analysis Date:	24-MAY-94					

Chk'd: App'd:
Date App'd:

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TOTAL ORGANIC HALIDES REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0009	B11	Total Organic Halides	< 0.03	0.03	GroundH2O	mg/L	
		Sample Date: 18-MAY-94					
		Analysis Date: 24-MAY-94					
L8549-0010	G108	Total Organic Halides	< 0.03	0.03	GroundH2O	mg/L	
		Sample Date: 18-MAY-94					
		Analysis Date: 24-MAY-94					
9-0011	G107	Total Organic Halides	< 0.03	0.03	GroundH2O	mg/L	
		Sample Date: 18-MAY-94					
		Analysis Date: 24-MAY-94					
L8549-0012	G120B	Total Organic Halides	0.05	0.03	GroundH2O	mg/L	
		Sample Date: 18-MAY-94					
		Analysis Date: 25-MAY-94					

Chk'd: App'd:
Date App'd:

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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0001	G109	Alachlor	< 1	1	GroundH20	ug/L	
		Atrazine	< 0.5	0.5	GroundH20	ug/L	
		Parathion	< 0.5	0.5	GroundH20	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0002	G109A	Alachlor	< 1	1	GroundH20	ug/L	
		Atrazine	< 0.5	0.5	GroundH20	ug/L	
		Parathion	< 0.5	0.5	GroundH20	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0003	G113A	Alachlor	< 1	1	GroundH20	ug/L	
		Atrazine	< 0.5	0.5	GroundH20	ug/L	
		Parathion	< 0.5	0.5	GroundH20	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0004	G113	Alachlor	< 1	1	GroundH20	ug/L	
		Atrazine	< 0.5	0.5	GroundH20	ug/L	
		Parathion	< 0.5	0.5	GroundH20	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0005	B13	Alachlor	< 1	1	GroundH20	ug/L	
		Atrazine	< 0.5	0.5	GroundH20	ug/L	
		Parathion	< 0.5	0.5	GroundH20	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					

Chk'd: App'd:
Date App'd:

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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0006	P6	Alachlor	< 1	1	GroundH2O	ug/L	
		Atrazine	< 0.5	0.5	GroundH2O	ug/L	
		Parathion	< 0.5	0.5	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0007	BAILER BLANK	Alachlor	< 1	1	GroundH2O	ug/L	
		Atrazine	< 0.5	0.5	GroundH2O	ug/L	
		Parathion	< 0.5	0.5	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0008	B11A	Alachlor	< 1	1	GroundH2O	ug/L	
		Atrazine	< 0.5	0.5	GroundH2O	ug/L	
		Parathion	< 0.5	0.5	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0009	B11	Alachlor	< 1	1	GroundH2O	ug/L	
		Atrazine	< 0.5	0.5	GroundH2O	ug/L	
		Parathion	< 0.5	0.5	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0010	G108	Alachlor	< 1	1	GroundH2O	ug/L	
		Atrazine	< 0.5	0.5	GroundH2O	ug/L	
		Parathion	< 0.5	0.5	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					

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HERBICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0011	G107	Alachlor	< 1	1	GroundH2O	ug/L	
		Atrazine	< 0.5	0.5	GroundH2O	ug/L	
		Parathion	< 0.5	0.5	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					
L8549-0012	G120B	Alachlor	< 1	1	GroundH2O	ug/L	
		Atrazine	< 0.5	0.5	GroundH2O	ug/L	
		Parathion	< 0.5	0.5	GroundH2O	ug/L	
		Sample Date: 18-MAY-94					
		Extract Date: 24-MAY-94					
		Analysis Date: 28-MAY-94					

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0001	G109	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 31-MAY-94

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0002	G109A	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

Sample Date: 18-MAY-94
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Analysis Date: 31-MAY-94

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0003	G113A	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 31-MAY-94

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0004	G113	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0005	B13	Aminocarb	< 1	1	GroundH20	ug/L	
		Aldicarb	< 1	1	GroundH20	ug/L	
		Barban	< 1	1	GroundH20	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH20	ug/L	
		Bromacil	< 1	1	GroundH20	ug/L	
		Carbaryl	< 1	1	GroundH20	ug/L	
		Carbofuran	< 1	1	GroundH20	ug/L	
		Chloropropham	< 5	5	GroundH20	ug/L	
		Chloroxuron	< 1	1	GroundH20	ug/L	
		Diuron	< 1	1	GroundH20	ug/L	
		Fenuron	< 1	1	GroundH20	ug/L	
		Fluometuron	< 1	1	GroundH20	ug/L	
		Linuron	< 1	1	GroundH20	ug/L	
		Methomyl	< 1	1	GroundH20	ug/L	
		Methiocarb	< 1	1	GroundH20	ug/L	
		Mexacarbate	< 5	5	GroundH20	ug/L	
		Monuron	< 1	1	GroundH20	ug/L	
		Neburon	< 1	1	GroundH20	ug/L	
		Oxamyl	< 1	1	GroundH20	ug/L	
		Propachlor	< 5	5	GroundH20	ug/L	
		Propham	< 5	5	GroundH20	ug/L	
		Propoxur	< 1	1	GroundH20	ug/L	
		Siduron	< 1	1	GroundH20	ug/L	
		Tebuthiuron	< 1	1	GroundH20	ug/L	
		IPBC	< 2	2	GroundH20	ug/L	

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0006	P6	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0007	BAILER BLANK	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

Sample Date: 18-MAY-94
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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0008	B11A	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

Sample Date: 18-MAY-94
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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0009	B11	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

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PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0010	G108	Aminocarb	< 1	1	GroundH20	ug/L	
		Aldicarb	< 1	1	GroundH20	ug/L	
		Barban	< 1	1	GroundH20	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH20	ug/L	
		Bromacil	< 1	1	GroundH20	ug/L	
		Carbaryl	< 1	1	GroundH20	ug/L	
		Carbofuran	< 1	1	GroundH20	ug/L	
		Chloropropham	< 5	5	GroundH20	ug/L	
		Chloroxuron	< 1	1	GroundH20	ug/L	
		Diuron	< 1	1	GroundH20	ug/L	
		Fenuron	< 1	1	GroundH20	ug/L	
		Fluometuron	< 1	1	GroundH20	ug/L	
		Linuron	< 1	1	GroundH20	ug/L	
		Methomyl	< 1	1	GroundH20	ug/L	
		Methiocarb	< 1	1	GroundH20	ug/L	
		Mexacarbate	< 5	5	GroundH20	ug/L	
		Monuron	< 1	1	GroundH20	ug/L	
		Neburon	< 1	1	GroundH20	ug/L	
		Oxamyl	< 1	1	GroundH20	ug/L	
		Propachlor	< 5	5	GroundH20	ug/L	
		Propham	< 5	5	GroundH20	ug/L	
		Propoxur	< 1	1	GroundH20	ug/L	
		Siduron	< 1	1	GroundH20	ug/L	
		Tebuthiuron	< 1	1	GroundH20	ug/L	
		IPBC	< 2	2	GroundH20	ug/L	

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(608) 231-4747
FAX (608) 231-4777

PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0011	G107	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 31-MAY-94

Chk'd: App'd:
Date App'd:

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

PESTICIDE REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Footnotes
L8549-0012	G120B	Aminocarb	< 1	1	GroundH2O	ug/L	
		Aldicarb	< 1	1	GroundH2O	ug/L	
		Barban	< 1	1	GroundH2O	ug/L	
		Benomyl (Carbendazim)	< 1	1	GroundH2O	ug/L	
		Bromacil	< 1	1	GroundH2O	ug/L	
		Carbaryl	< 1	1	GroundH2O	ug/L	
		Carbofuran	< 1	1	GroundH2O	ug/L	
		Chloropropham	< 5	5	GroundH2O	ug/L	
		Chloroxuron	< 1	1	GroundH2O	ug/L	
		Diuron	< 1	1	GroundH2O	ug/L	
		Fenuron	< 1	1	GroundH2O	ug/L	
		Fluometuron	< 1	1	GroundH2O	ug/L	
		Linuron	< 1	1	GroundH2O	ug/L	
		Methomyl	< 1	1	GroundH2O	ug/L	
		Methiocarb	< 1	1	GroundH2O	ug/L	
		Mexacarbate	< 5	5	GroundH2O	ug/L	
		Monuron	< 1	1	GroundH2O	ug/L	
		Neburon	< 1	1	GroundH2O	ug/L	
		Oxamyl	< 1	1	GroundH2O	ug/L	
		Propachlor	< 5	5	GroundH2O	ug/L	
		Propham	< 5	5	GroundH2O	ug/L	
		Propoxur	< 1	1	GroundH2O	ug/L	
		Siduron	< 1	1	GroundH2O	ug/L	
		Tebuthiuron	< 1	1	GroundH2O	ug/L	
		IPBC	< 2	2	GroundH2O	ug/L	

Sample Date: 18-MAY-94
Extract Date: 24-MAY-94
Analysis Date: 31-MAY-94

Chk'd: App'd:
Date App'd:

IEA
An Aquarion Company

Definitions of Data Qualifiers and Terminology

There are a number of data qualifiers that are widely used within the environmental testing industry which may be utilized in our data reports. The following definitions of these qualifiers are included as a service to our clientele. The majority of the qualifiers have evolved from the EPA contract laboratory program (CLP) therefore, they may or may not be appropriate for the particular testing that you have requested. If your work did not involve CLP type analyses, only a few of these items may apply to your particular report.

A - This flag is utilized to indicate that a tentatively identified compound (TIC) is a suspected aldol-condensation product formed during sample processing and caution should be applied in interpreting these results.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to use caution when applying the results of this analyte.

BQL - Below quantitation limit indicates the compound was not detected in the sample above the practial quantitation limit.

C - Indicates that a pesticide identification has been confirmed utilizing GC/MS techniques.

D - Indicates the sample extract was diluted by the factor listed due to the sample matrix and/or concentration levels. All method detection limits or practical quantitation limits for the particular sample are therefore increased by this dilution factor.

E - Indicates that the concentration of the specific compound exceeded the calibration range of the instrument for that particular analysis.

J - Indicates an estimated value. It indicates that the compound was analyzed for and determined to be present in the sample. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meet the identification criteria but the result is less than the sample quantitation limit but greater than zero.

MDL - The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

ND - Indicates the compound or analyte was not detected in the sample above the method detection limit or the practical quantitation limit for the particular analysis.

PQL - The practical quantitation limit is the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine operating conditions.

U - Indicates the compound was analyzed for but not detected in the sample above the applicable quantitation limit.

IEA
An Aquarion Company

Case Narrative - CH940870

Volatiles

Bis-Chloromethyl Ether was analyzed at a 100 ug/l in Hexane using a direct inject method of sample introduction. A mass spectra and a retention time were generated. When bis-Chloromethyl Ether, at a concentration of 100 ug/l, was introduced using a purge and trap method in water at a pH of 7 and <2, it could not be detected. Further investigation revealed that when bis-Chloromethyl Ether is in water, it decomposes to hydrochloric acid and formaldehyde.

IEA
An Aquarion Company

CLIENT:-
CLIENT PROJECT#:-
CLIENT P.O.#:-
IEA PROJECT#:-
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
VW052794W	METHOD BLANK					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquanon Company

CLIENT:-
CLIENT PROJECT#:-
CLIENT P.O.#:-
IEA PROJECT#:-
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
VW052794W	METHOD BLANK					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: - METHOD BLANK: -
DATE ANALYZED: 05/27/94

IEA
An Aquarion Company

CLIENT:-
CLIENT PROJECT#:-
CLIENT P.O.#:-
IEA PROJECT#:-
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
VW060194W	METHOD BLANK					
		Acetone	U	10	ug/l	1
		Acrolein	U	25	ug/l	1
		Acrylonitrile	U	10	ug/l	1
		Benzene	U	5	ug/l	1
		Bromobenzene	U	5	ug/l	1
		Bromochloromethane	U	5	ug/l	1
		Bromodichloromethane	U	5	ug/l	1
		Bromoform	U	5	ug/l	1
		Bromomethane	U	10	ug/l	1
		2-Butanone	U	5	ug/l	1
		1-Butanol	U	100	ug/l	1
		2-Butanol	U	100	ug/l	1
		n-Butylbenzene	U	5	ug/l	1
		sec-Butylbenzene	U	5	ug/l	1
		tert-Butylbenzene	U	5	ug/l	1
		Carbon Disulfide	U	5	ug/l	1
		Carbon Tetrachloride	U	5	ug/l	1
		Chlorobenzene	U	5	ug/l	1
		Chlorodibromomethane	U	5	ug/l	1
		Chloroethane	U	10	ug/l	1
		2-Chloroethyl Vinyl Ethyl	U	10	ug/l	1
		Chloroform	U	5	ug/l	1
		Chloromethane	U	10	ug/l	1
		o-Chlorotoluene	U	5	ug/l	1
		p-Chlorotoluene	U	5	ug/l	1
		Cumene (Isopropyl Benzene)	U	5	ug/l	1
		Cymene (p-Isopropyl Toluene)	U	5	ug/l	1
		1,2-Dibromo-3-Chloropropane	U	5	ug/l	1
		trans-1,4-dichloro-2-butene	U	5	ug/l	1
		1,2-Dichlorobenzene	U	5	ug/l	1
		1,3-Dichlorobenzene	U	5	ug/l	1
		1,4-Dichlorobenzene	U	5	ug/l	1
		Dichlorodifluoromethane	U	5	ug/l	1
		1,1-Dichloroethane	U	5	ug/l	1
		1,2-Dichloroethane	U	5	ug/l	1
		1,1-Dichloroethene	U	5	ug/l	1
		total-1,2-Dichloroethene	U	5	ug/l	1
		cis-1,2-Dichloroethene	U	5	ug/l	1
		trans-1,2-Dichloroethene	U	5	ug/l	1
		1,2-Dichloropropane	U	5	ug/l	1
		1,3-Dichloropropane	U	5	ug/l	1
		2,2-Dichloropropane	U	5	ug/l	1
		1,1-Dichloropropene	U	5	ug/l	1

IEA
An Aquanon Company

CLIENT:-
CLIENT PROJECT#:-
CLIENT P.O.#:-
IEA PROJECT#:-
MATRIX:WATER
METHOD:8260

VOLATILE ORGANIC COMPOUNDS
PROGRAM #2

LAB ID#	CLIENT ID	ANALYTE	RESULT	PQL	UNITS	DILUTION FACTOR
VW060194W	METHOD BLANK					
		total-1,3-Dichloropropene	U	5	ug/l	1
		cis-1,3-Dichloropropene	U	5	ug/l	1
		trans-1,3-Dichloropropene	U	5	ug/l	1
		1,4-Difluorobenzene	U	5	ug/l	1
		Ethyl Acetate	U	5	ug/l	1
		Ethanol	U	100	ug/l	1
		Ethyl Methacrylate	U	5	ug/l	1
		Ethyl Benzene	U	5	ug/l	1
		1,2-Dibromoethane	U	5	ug/l	1
		2-Hexanone	U	10	ug/l	1
		Iodomethane	U	5	ug/l	1
		4-Methyl-2-Pentanone	U	10	ug/l	1
		Methylene Bromide	U	5	ug/l	1
		Methylene Chloride	U	5	ug/l	1
		1-Propanol	U	100	ug/l	1
		2-Propanol	U	100	ug/l	1
		n-Propylbenzene	U	5	ug/l	1
		Styrene	U	10	ug/l	1
		1,1,1,2-Tetrachloroethane	U	5	ug/l	1
		1,1,2,2-Tetrachloroethane	U	5	ug/l	1
		Tetrachloroethene	U	5	ug/l	1
		Tetrahydrofuran	U	5	ug/l	1
		Toluene	U	5	ug/l	1
		1,2,3-Trichlorobenzene	U	5	ug/l	1
		1,2,4-Trichlorobenzene	U	5	ug/l	1
		1,1,1-Trichloroethane	U	5	ug/l	1
		1,1,2-Trichloroethane	U	5	ug/l	1
		Trichloroethene	U	5	ug/l	1
		Trichlorofluoromethane	U	5	ug/l	1
		1,2,3-Trichloropropane	U	5	ug/l	1
		1,2,4-Trimethylbenzene	U	5	ug/l	1
		1,3,5-Trimethylbenzene	U	5	ug/l	1
		Vinyl Acetate	U	10	ug/l	1
		Vinyl Chloride	U	2	ug/l	1
		m-Xylene	U	5	ug/l	1
		o-Xylene	U	5	ug/l	1
		p-Xylene	U	5	ug/l	1
		Xylenes	U	5	ug/l	1
		bis Chloromethyl Ether	*	*	ug/l	1

DATE SAMPLED: - METHOD BLANK: -
DATE ANALYZED: 06/01/94

Job Name: Winnebago Reclamation Landfill Job No. 55006602 Page 1

Location: Rockford, IL Sampling Date: 5/18/94 By:

Date Processed: Volume Required: Project Mgr.

Parameters:

____ pH	____ Chloride	____ Nitrite	____ COD
____ Conductivity	____ Total Hardness	____ Sodium	____ Nitrate
____ Total Alkalinity	____ Dissolved Iron	____ Sulfate	____ TDS

Other: Program 2

Name of Sampler	Sample No.	TD	T.O.C. Elev.	Depth to Water	GW Elev.	Odor	Color	Turb.	Time Purged	Volume Purged	Well Capacity	Time Sampled	Comments
MHG	G107	41	739.58	31.00	708.58	None	Brown	Med		5.0	1.6 ~~1.0~~	5-18 1530	
TSD	G108	46	751.29	36.66	714.63	None	Clear	None		5.5	1.5	5-18 1520	
MHG	G109	54	760.79	41.50	719.29	None	Clear	Slt		6.0	2.0	5-18 0900	
TSD	G109A	81.7	761.03	41.82	719.21	None	Lt Brown	Slt	5-18 0850	10.5	6.4	5-18 0910	Tight Bailed dry
MHG	G113	51.0	762.22	44.01	718.21	None	Tan	Very	5-18 0950	2.5	1.2	5-18 1030	* Tight Bailed dry semi tight
TSD	G113A	77.3	762.89	44.79	718.10	None	Clear	None		15.5	5.2	5-18 1020	* Keck purge - pumps dry
TSD	G120B	150.0	758.44	38.05	720.39	None	Clear	None	Start 1445	60	17.9	5-18 1610	Keck purge
MHG	B11	50.5	760.74	42.00	718.74	None	Tan	Slt		6.0	1.7	1420	

Name of Sampler	Sample No.	TD	T.O.C. Elev.	Depth to Water	GW Elev.	Odor	Color	Turb.	Time Purged	Volume Purged	Well Capacity	Time Sampled	Comments
TJD	B11A	77.1	759.09	40.88	718.21	None	Clear	None		18	5.8	5-18 1420	
MKG	B13	36	739.46	26.09	713.37	None	Clear	Slt		5.0	1.6	5-18 1145	*
TJD	P6	52.1	739.71	26.77	712.94	None	Clear	None		15.5	4.05	5-18 1145	* Keck purge
TJD	Bailer Blank					None	Clear	None				5-18 1130	Nanopure DI water

Filter: 1l HNO3
1l Neutral
500 ml H2SO4

Unfiltered: 4 VOCs HCL (IEA)
3 Amber's Neutral
2 Amber Neutral (Appel)
250 Amber Neutral (TMA)
1l HNO3
1l NaOH
1l Neutral
1l Glass H2SO4

Sampling Device: _____

Purging Method: _____

Cleaning Method: _____ Form # _____

[jlv/Wiskes/Winne-1B]

Page 1
C# 55006602
Date 5/18/94

Field Testing/Sampling Preparation

Lab No.	Sample No.	Time Filtered/ Analyzed	pH	Spec. Cond.	Temp.	Spec. Cond. @ 25 deg.	Analyst	Comments
	G107	5/18 15:35	6.49	550	12.5°C	735	MOP	
	G108	5/18 15:50	6.47	700	15°C	875	MOP	
	G109	5/18 9:25	6.09	850	12°C	1150	MOP	(2) FILTERS
	G109A	5/18 9:10	6.11	850	12°C	1150	MOP	
	G113	5/18 10:25	6.50	850	13°C	1120	MOP	(3) FILTERS
	G113A	5/18 10:20	6.32	1050	13.5°C	1360	MOP	
	G120B	5/18 16:15	6.92	425	13.5°C	550	MOP	
	B11	5/18 14:20	6.68	445	13°C	585	MOP	

Page 2
C# 55006602
Date 5/18/94

Field Testing/Sampling Preparation

Lab No.	Sample No.	Time Filtered/ Analyzed	pH	Spec. Cond.	Temp.	Spec. Cond. @ 25 deg.	Analyst	Comments
	B11A	5/18 14:15	6.68	520	13.5°C	675	MOP	
	B13	5/18 11:55	6.37	950	13.5°C	1230	MOP	
	P6	5/18 11:45	6.77	525	13°C	690	MOP	
	BAILER BLANK 01	5/18 11:35	6.31	<10	16.5°C	<10	MOP	

pH Meter: BECKMAN WEI #8
Conductivity Meter: YSI WEI #14
Bottle Types/Preservation:
Conductivity of Standard:

Filter: 1l HNO3
1l Neutral
500 ml H2SO4

Unfiltered: 4 VOCs HCL (IEA)
(3) Amber's Neutral
2 Amber Neutral (Appel)
250 Amber Neutral (TMA)
1l HNO3
1l NaOH
1l Neutral
1l Glass H2SO4

START 5/18/94 [jlv/Wiskes/Winne-2B]
pH -
STD 1 pH 4.00 READS 4.00 @ 11.3°C: 1000 umhos/cm READS 700 @ 10°C = 1000
STD 2 pH 7.00 [illegible] 7.05 @ 11.4°C = 10000 umhos/cm READS 6[illegible] @ 10.5°C = 9580

SPEC. COND. -

END 5/18/94
PH 4.00 READS 4.02 @ 23.0°C
PH 7.00 READS 7.00 @ 22.5°C
[illegible]0 umhos/cm READS 920 @ 22.5°C = 970
10000 umhos/cm READS 9900 @ [illegible]

WARZYN

Program E

5/19/94 smr

№ 010276

CHAIN OF CUSTODY RECORD

PROJECT No.	PROJECT NAME
5006602/161	Winnebago Reclamation Landfill
	CITY & STATE: Rockford, IL

SAMPLERS (Signature): [signature] [signature]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	~~Alk, TDS, Cl, F, SO4~~ TSO 5/18/94	BOD, Cl (total), Alk, F, NO3	COD, TOC, NH3, NO2	Oil	~~Cl~~ TSO 5/19/94	Cyanide	~~Metals (total)~~ not assessed	~~Metals (diss)~~ UF out	Semi-Volatiles 8270	GW	Pest./PCB/PP 8080	Herbs 8150
549 01	5/18/94	0900		X	G109	10 X	1	1	1	1		1	1	1	1		1	1
02		0910			G109A	10 X	1	1	1	1		1	1	1	1		1	1
03		1020			G113A	10 X	1	1	1	1		1	1	1	1		1	1
04		1030			G113	10 X	1	1	1	1		1	1	1	1		1	1
05		1145			B13	10 X	1	1	1	1		1	1	1	1		1	1
06		1145			P6	10 X	1	1	1	1		1	1	1	1		1	1
07		1130			Bailer Blank 01	10 X	1	1	1	1		1	1	1	1		1	1
08		1420			B11A	10 X	1	1	1	1		1	1	1	1		1	1
09		1420			B11	10 X	1	1	1	1		1	1	1	1		1	1
010		1520			G108	10 X	1	1	1	1		1	1	1	1		1	1
011		1530			G107	10 X	1	1	1	1		1	1	1	1		1	1
012		1610			G120B	10 X	1	1	1	1		1	1	1	1		1	1

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/18/94 20:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[signature]		5-19-94 8:25	

REMARKS

Delivered to Warzyn Lab

PROJECT MANAGER: S. Tauschek

Initial, no flow, no, no il hand del. HNO3 PH<2, H2SO4 PH<2, NAOH PH>12

Distribution: White -- Accompanies Shipment; Yellow -- Laboratory File; Pink -- Coordinator Field Files

WARZYN

Program 2

(filtered)

№ 010276

CHAIN OF CUSTODY RECORD

PROJECT No.: 55006602/161

PROJECT NAME: Winnebago Reclamation Landfill

CITY & STATE: Rockford, IL

SAMPLERS (Signature): [signature] J.J. Jaschek [signature]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	~~AN~~ TSP 5/18/94	~~TDS~~ ~~Cl~~ ~~F~~ ~~SO4~~ not crossed out	~~BOD~~ ~~Cl (total)~~ ~~Alk~~ ~~F~~	~~COD~~ ~~TOC~~ ~~NH3~~ ~~NO3~~	~~Oil~~	~~Cl~~ TSO 5/18/94	~~Cyanide~~	~~Metals (total)~~ not crossed out UF	~~Metals (diss.)~~ DC	REMARKS
9549.00 01	5/18/94	0900		X	G109	7	1	1	1	1		1	1	1		
02		0910			G109A	7	1	1	1	1		1	1	1		
03		1020			G113A	7	1	1	1	1		1	1	1		
04		1030			G113	7	1	1	1	1		1	1	1		
05		1145			B13	7	1	1	1	1		1	1	1		
06		1145			P6	7	1	1	1	1		1	1	1		
07		1130			Bailer Blank 01	7	1	1	1	1		1	1	1		
08		1420			B11A	7	1	1	1	1		1	1	1		
09		1420			B11	7	1	1	1	1		1	1	1		
010		1520			G108	7	1	1	1	1		1	1	1		
011		1530			G107	7	1	1	1	1		1	1	1		
012		1610			G120B	7	1	1	1	1		1	1	1		

GW

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/18/94 20:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[signature]		5-19-94 8:25	

REMARKS

Delivered to Warzyn Lab

PROJECT MANAGER: S. Tauschek

[illegible] HN PH 2, 1/2 SO4 PH 2, NAOH PH 12

[illegible] Laboratory File Pink - Coordinator Field Files

WARZYN

010273

CHAIN OF CUSTODY RECORD

PROJECT No.	PROJECT NAME
5[illegible]6602/161	[illegible] Restoration Landfill
	CITY & STATE
	[illegible]

SAMPLERS (Signature) [illegible]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	T. Organic Halogens ✓						REMARKS
8549-0001	7/15/94	0900		✓	G109	1	✓						
-0002		0910			G109A	1	✓						
-0003		1020			G113A	1	✓						
-0004		1030			G113	1	✓						
-0005		1145			B13	1	✓						
-0006		1145			P6	1	✓						
-0007		1150			Bailer Blank 01	1	✓						
-0008		1120			B11A	1	✓						
-0009		1120			B11	1	✓						
-0010		[illegible]			G107	1	✓						
-0011		1530			G107	1	✓						
-0012		1610			G120B	1	✓						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	7/15/94 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	

REMARKS

PROJECT MANAGER:
S. Tomchek

Shipped: TMA
Fed Ex # 8750365724
COC Sub: [illegible]

VARZYN

Program 2

№ 010274

CHAIN OF CUSTODY RECORD

OJECT No.	PROJECT NAME
006602/161	Winnebago Reclamation LandFill
	CITY & STATE: Rockford, IL

IPLERS (Signature): [signature] J. Jaskulski [signature]

AB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Pest/Herb						REMARKS
549-0001	5/18/94	0900		X	G109	2	✓						
-0002	↓	0910		↓	G109A	2	✓						
-0003	↓	1020		↓	G113A	2	✓						
✓ -0004	↓	1030		↓	G113	2	✓						

nquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
J. Jaskulski	5/18/94 1800	Fed Express			
nquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
nquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
Fed Express		[signature]		5/19/94 9:40	Chilled & intact

ARKS

PROJECT MANAGER: S. Tauschek

Ship to: Appel
Fed Ex # 8750365735
OC Seals: 9 4632, 9204633

Distribution: White — Accompanies Shipment; Yellow — Laboratory File; Pink — Coordinator Field Files

Program 2

VARZYN

№ 010279

CHAIN OF CUSTODY RECORD

OJECT No.	PROJECT NAME
5006602/141	Winnebago Reclamation LandFill
	CITY & STATE: Rockford, IL

MPLERS (Signature): J. Iwaniak, Michael [illegible], [illegible]

AB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Pest/Herb						REMARKS
5549-0005	5/18/94	1145		X	B13	2	✓						
-0006		1145			P6	2	✓						
-0007		1130			Bailer Blank 01	2	✓						
-0008		1420			B11A	2	✓						
-0009		1420			B11	2	✓						
-0010		1520			G108	2	✓						
-0011		1530			G107	2	✓						
-0012		1610			G120B	2	✓						

linquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
J. Iwaniak	5/18/94 1800	Fed Express			
linquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
inquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
Fed Express		[illegible]		5-19-94 9:40	Chilled & intact

MARKS

PROJECT MANAGER: S. Tauschek

Ship to: Appel
Fed Ex # 8750365735
COC Seals: 9204630, 9204630

Distribution: White - Laboratory Shipment Yellow - Laboratory File Pink - Coordinator Field Files

ARZYN

Program 2

№ 010275

CHAIN OF CUSTODY RECORD

OJECT No.	PROJECT NAME
5 SR 6-394 5000601/161	Winnebago . Reclamation Landfill
	CITY & STATE: Rockford, IL

PLERS (Signature): J. Tauschek [signature] [signature]

B No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	VOC's						REMARKS
	5/15/94	0900		X	G109	4	✓						
		0910			G109A	4	✓						
		1020			G113A	4	✓						
		1030			G113	4	✓						
		1145			B13	4	✓						
		1145			P6	4	✓						
		1130			Bailer Blank 01	4	✓						
		1420			B11A	4	✓						
		1420			B11	4	✓						
		1520			G108	4	✓						
		1530			G107	4	✓						
		1610			G120B	4	✓						

nquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
J. Tauschek	5/18/94 1800				
nquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
nquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[signature]		5-19-94 10:00	

ARKS

PROJECT MANAGER: S. Tauschek

Ship to: IEA

Fed Ex # 8750365713

JC Seals: 4636, 9204637

WARZYN

August 16, 1994

Mr. Thomas Hilbert
Enviromental Engineer
Winnebago Reclamation
8403 Lindenwood Road
Rockford, Illinois 61109

Re: Winnebago Reclamation
Program 2
Sampled May 1994

Dear Mr. Hilbert:

Enclosed are the reissued analytical results and chain-of-custody for the sample collected in May 1994. Total Dissolved Solids was missing on the report page previously issued on June 9, 1994. The diskette contained the original result of 1024 mg/L. Please feel free to call if you have any questions.

Sincerely,

WARZYN INC.

Sheila M. Tauschek
Project Manager

Enclosures: As Stated

cc: S. Tauschek

SMT/kaf/GLG
G:\DMGMT\LETTERS\55006602.WPD
55006602

THE PERFECT BALANCE
BETWEEN TECHNOLOGY
AND CREATIVITY

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
608/231-4747

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	405.1	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate+Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.

Methods for Soil Analysis, 2nd Ed.

WARZYN

MADISON
ONE SCIENCE COURT
P.O. BOX 5385
MADISON, WI 53705
(608) 231-4747
FAX (608) 231-4777

METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	ICP	Flame	Furnace	CV	ICP	Flame	Furnace	CV
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

WARZYN

MADISON
ONE SCIENCE COUR
P.O. BOX 538
MADISON, WI 5370
(608) 231-474
FAX (608) 231-477

INORGANIC REPORT
WINNEBAGO RECLAMATION
ROCKFORD IL
Project Number: 55006602

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L8549-0014	G109A-FILTERED	Aluminum	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Antimony	< 0.005	0.005	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Arsenic	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Barium	0.14	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Beryllium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	27-MAY-94
		Boron	< 0.10	0.10	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cadmium	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Calcium	180	1.00	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Carbon, Total Organic	7.7	1.0	GroundH20	mg/L	18-MAY-94	26-MA
		Chemical Oxygen Demand	22	20	GroundH20	mg/L	18-MAY-94	24-MAY
		Chloride	33	2	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Chromium, Total	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Cobalt	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Copper	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Iron	4.16	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Lead	< 0.003	0.003	GroundH20	mg/L	18-MAY-94	23-MAY-94
		Magnesium	59.4	1.00	GroundH20	mg/L	18-MAY-94	24-M
		Manganese	0.26	0.01	GroundH20	mg/L	18-MAY-94	24-M
		Mercury	< 0.0002	0.0002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Nickel	< 0.02	0.02	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Nitrogen, Ammonia	0.11	0.10	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Nitrogen, Nitrate	1.17	0.02	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Potassium	0.76	0.10	GroundH20	mg/L	18-MAY-94	31-MAY-94
		Selenium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Silver	< 0.01	0.01	GroundH20	mg/L	18-MAY-94	31-MAY
		Sodium	16.1	2.00	GroundH20	mg/L	18-MAY-94	24-MA
		Solids, Total Dissolved	1020	20	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Sulfate	< 10	10	GroundH20	mg/L	18-MAY-94	25-MAY-94
		Thallium	< 0.002	0.002	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Tin	< 0.20	0.20	GroundH20	mg/L	18-MAY-94	26-MAY-94
		Vanadium	< 0.05	0.05	GroundH20	mg/L	18-MAY-94	24-MAY-94
		Zinc	4.01	0.01	GroundH20	mg/L	18-MAY-94	24-MAY-94

Chk'd: App'd:
Date App'd: 8/16/94

WARZYN

Program

CHAIN OF CUSTODY RECORD

№ 010276

PROJECT No.: 5006602/161

PROJECT NAME: Winnebago Reclamation Landfill

CITY & STATE: Rockford, IL

SAMPLERS (Signature): [signature] J.J. [signature] [signature]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Alk, TDS, Cl, F, SO4 TSO 5/18/94	BOD, Cl (total), Alk, F, pH	COD, TOC, NH3, NO3	Oil, Cr TSO 5/19/94	Cyanide	Metals (total) UF not used	Metals (diss.) DC	Semi-Volatiles 8270 5/19/94	GW	Pest./PCB/PP 8080	Herbs 8150
549 01	5/18/94	0900		X	G109	10	1	1	1	1	1	1	1	1		1	1
02		0910			G109A	10	1	1	1	1	1	1	1	1		1	1
03		1020			G113A	10	1	1	1	1	1	1	1	1		1	1
04		1030			G113	10	1	1	1	1	1	1	1	1		1	1
05		1145			B13	10	1	1	1	1	1	1	1	1		1	1
06		1145			P6	10	1	1	1	1	1	1	1	1		1	1
07		1130			Bailer Blank 01	10	1	1	1	1	1	1	1	1		1	1
08		1420			G11A	10	1	1	1	1	1	1	1	1		1	1
09		1420			B11	10	1	1	1	1	1	1	1	1		1	1
010		1520			G108	10	1	1	1	1	1	1	1	1		1	1
011		1530			G107	10	1	1	1	1	1	1	1	1		1	1
012		1610			G120B	10	1	1	1	1	1	1	1	1		1	1

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/18/94 20:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[signature]		5-19-94 8:25	

REMARKS: Delivered to Warzyn Lab

PROJECT MANAGER: S. Tauschek

Initial, we do not use acid preserved. HNO3 PH<2, H2SO4 PH<2, NaOH PH>12

Distribution: White — Accompanies Shipment; Yellow — Laboratory File; Pink — Coordinator Field Files

WARZYN

Program 2

(filtered)

№ 010276

CHAIN OF CUSTODY RECORD

PROJECT No.	PROJECT NAME
55006602/161	Winnebago Reclamation Landfill
	CITY & STATE: Rockford, IL

SAMPLERS (Signature): Michael [illegible] J.J. Dwahle [illegible]

GW

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	~~Alk, TSS~~ TSS	~~BOD~~	~~COD, TOC~~	~~Oil~~	~~Ct~~ TSO	~~Cyanide~~	~~Metals (total)~~	~~Metals (diss.)~~	REMARKS
8549.01	5/18/94	0900		X	G109	7	1	1	1	1		1	1	1	
02		0910			G109A	7	1	1	1	1		1	1	1	
03		1020			G113A	7	1	1	1	1		1	1	1	
04		1030			G113	7	1	1	1	1		1	1	1	
05		1145			B13	7	1	1	1	1		1	1	1	
06		1145			P6	7	1	1	1	1		1	1	1	
07		1130			Bailer Blank 01	7	1	1	1	1		1	1	1	
08		1420			G11A	7	1	1	1	1		1	1	1	
09		1420			B11	7	1	1	1	1		1	1	1	
010		1520			G108	7	1	1	1	1		1	1	1	
011		1530			G107	7	1	1	1	1		1	1	1	
012		1610			G120B	7	1	1	1	1		1	1	1	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	5/18/94 20:00				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		Randy [illegible]		5-19-94 8:25	

REMARKS: Delivered to Warzyn Lab

PROJECT MANAGER: S. Tauschek

[illegible] HN 2 PH L2, 4 2 SO4 PH L2, NAOH PH 12

[illegible] Yellow - Laboratory File; Pink - Coordinator Field Files

WARZYN

010273

CHAIN OF CUSTODY RECORD

PROJECT No.	PROJECT NAME
5[illegible]6602/161	[illegible] Relocation Landfill
	CITY & STATE
	[illegible]

SAMPLERS (Signature): [illegible] T. [illegible] [illegible]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	T. Organic Halogens ✓						REMARKS
8549-0001	7/15/94	0900		X	G109	1	✓						
-0002		0910			G109A	1	✓						
-0003		1020			G113A	1	✓						
-0004		1030			G113	1	✓						
-0005		1145			B13	1	✓						
-0006		1145			P6	1	✓						
-0007		1150			Bailer Blank 01	1	✓						
-0008		1120			B11A	1	✓						
-0009		1120			B11	1	✓						
-0010		[illegible]			G107	1	✓						
-0011		1530			G107	1	✓						
-0012		1610			G120B	1	✓						

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	7/15/94 1700				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	

REMARKS

PROJECT MANAGER: S. Tomchek

Shipped: TMA

Fed Ex # [illegible]

COC Sale: [illegible]

VARZYN

Program 2

№ 010274

CHAIN OF CUSTODY RECORD

OJECT No.	PROJECT NAME
006602/141	Winnebago Reclamation LandFill
	CITY & STATE: Rockford, IL

MPLERS (Signature): [illegible]

AB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Pest/Herb						REMARKS
549-001	5/18/94	0900		X	G109	2	✓						
-002	↓	0910		↓	G109A	2	✓						
-003	↓	1020		↓	G113A	2	✓						
-004	↓	1030		↓	G113	2	✓						

linquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	5/18/94 1800	Fed Express			
inquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
inquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
Fed Express		[illegible]		5/19/94 9:40	Chilled & intact

MARKS

PROJECT MANAGER: S. Tauschek

Ship to: Appel

Fed Ex # 8750365735

COC Seals: 9204632, 9204633

Distribution: W — Accompanies Shipment; Yellow — Laborato; Pink — Coordi; Field Files

Program 2

VARZYN

№ 010279

CHAIN OF CUSTODY RECORD

OJECT No.	PROJECT NAME
5006602/141	Winnebago Reclamation LandFill
	CITY & STATE: Rockford, IL

MPLERS (Signature): [signature] [signature] [signature]

AB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	Pest/Herb						REMARKS
3544-0005	5/18/94	1145		X	B13	2	✓						
-0006		1145			P6	2	✓						
-0007		1130			Bailer Blank 01	2	✓						
-0008		1420			B11A	2	✓						
-0009		1420			B11	2	✓						
-0010		1520			G108	2	✓						
-0011		1530			G107	2	✓						
-0012		1610			G120B	2	✓						

linquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	5/18/94 1800	Fed Express			
linquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
linquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
Fed Express		[signature]		5-19-94 9:40	Chilled & intact

EMARKS

PROJECT MANAGER: S. Tauschek

Ship to: Appel
Fed Ex # 8750365735
COC Seals: 9204630, 9204630

Distribution: White — Accompanies Shipment; Yellow — Laboratory File; Pink — Coordinator Field Files

Program 2

WARZYN

№ 010275

CHAIN OF CUSTODY RECORD

OJECT No. 500066C4/161 ZTK 6-3-94

PROJECT NAME: Winnebago Reclamation Landfill

CITY & STATE: Rockford, IL

MPLERS (Signature): J. Tauschek [signature] [signature]

AB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	VOC's						REMARKS
	5/18/94	0900		X	G109	4	✓						
		0910			G109A	4	✓						
		1020			G113A	4	✓						
		1030			G113	4	✓						
		1145			B13	4	✓						
		1145			P6	4	✓						
		1130			Bailer Blank 01	4	✓						
		1420			B11A	4	✓						
		1420			B11	4	✓						
		1520			G108	4	✓						
		1530			G107	4	✓						
		1610			G120B	4	✓						

inquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
J. Tauschek	5/18/94 1800				
inquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
inquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	
		[signature]		5-19-94 10:01	

IARKS

PROJECT MANAGER: S. Tauschek

Ship to: IEA

Fed Ex # 8750365713

OC Seals: 9204636, 9204637

Distribution: W — Accompanies Shipment: Yellow — Laborator : Pink — Coordina. Field Files

MONTGOMERY WATSON
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STANDARD REPORT FOOTNOTES

A1 Elevated quantitation limit due to low sample volume.

A2 Elevated quantitation limit necessary to overcome interference.

A4 Result should be considered estimated due to sample-related problems encountered during analysis.

A11 Sample received past recommended hold time.

A12 Analysis requested past recommended hold time.

A13 Initial analysis performed within hold time; confirmation analysis performed past recommended hold time. Results from repeat analysis are reported.

A14 Initial analysis performed within hold time; necessary dilution performed past recommended hold time. Results from repeat analysis are reported.

A15 Result should be considered estimated; analyte detected in method blank. _____@ _____.

A17 Result should be considered estimated as indicated by method QC.

M3 Total analysis performed due to insufficient solid for TCLP extraction.

G1 Result should be considered estimated, concentration exceeds working calibration range.

G2 Elevated quantitation limit due to the concentration of petroleum hydrocarbons in the sample.

G3 Elevated quantitation limit due to the concentration of non-specific hydrocarbons in the sample.

G4 Analyte coelutes with _____; result calculated from calibration standards in a 1:1 ratio of these two compounds.

G5 Sample required extensive cleanup; Endrin Aldehyde is not recovered from these techniques.

G6 Petroleum-type odor detected from this sample.

G7 Elevated quantitation limit due to the concentration of PCBs in the sample.

G8 Result should be considered estimated due to coelution with an additional hydrocarbon product.

G9 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products.

G10 Presence of one or more unidentified peaks eluting earlier than the retention time window.

G11 Presence of one or more unidentified peaks eluting later than the retention time window.

G12 Result is estimated. The method used is a screening procedure for this compound.

G13 Measurement performed using test strips.

G15 n-Nitrosodiphenylamine decomposes in the GC inlet and cannot be separated from Diphenylamine.

G16 Measurement upon receipt performed using test strips. Adjusted to pH <2.

G17 Results are influenced by the presence of extraneous peaks which are not representative of petroleum hydrocarbon products. Final results pending GC/MS confirmation.

G18 An LCS/LCS duplicate was performed in lieu of an MS/MSD due to insufficient sample volume available for the MS/MSD analysis.

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METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	SM5210,4500-0	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.5*	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate + Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Polar)	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

ASTM, Annual Book of American Society for Testing and Materials Standards, 1983, Volume 6.01.

Methods for Soil Analysis, 2nd Ed.

* With Modifications

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	ICP	Flame	Furnace	CV	ICP	Flame	Furnace	CV
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix

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INORGANIC REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10804-001	G120B-UNFILTERED	Alkalinity, Total	263	10	GroundH2O	mg/L	25-MAY-95	05-JUN-95
		Chloride	14	2	GroundH2O	mg/L	25-MAY-95	28-MAY-95
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	25-MAY-95	31-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L10804-002	G109A-UNFILTERED	Alkalinity, Total	511	10	GroundH2O	mg/L	25-MAY-95	05-JUN-95
		Chloride	47	2	GroundH2O	mg/L	25-MAY-95	28-MAY-95
		Nitrogen, Ammonia	0.10	0.10	GroundH2O	mg/L	25-MAY-95	31-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L10804-003	G109-UNFILTERED	Alkalinity, Total	612	10	GroundH2O	mg/L	25-MAY-95	05-JUN-95
		Chloride	19	2	GroundH2O	mg/L	25-MAY-95	28-MAY-95
		Nitrogen, Ammonia	0.13	0.10	GroundH2O	mg/L	25-MAY-95	31-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L10804-004	G113A-UNFILTERED	Alkalinity, Total	691	10	GroundH2O	mg/L	25-MAY-95	05-JUN-95
		Chloride	43	2	GroundH2O	mg/L	25-MAY-95	28-MAY-95
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	25-MAY-95	31-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L10804-005	G113-UNFILTERED	Alkalinity, Total	488	10	GroundH2O	mg/L	25-MAY-95	05-JUN-95
		Chloride	29	2	GroundH2O	mg/L	25-MAY-95	28-MAY-95
		Nitrogen, Ammonia	< 0.10	0.10	GroundH2O	mg/L	25-MAY-95	31-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L 4-006	G120B-FILTERED	Magnesium	36.9	1.00	GroundH2O	mg/L	25-MAY-95	12-JUN-95
		Potassium	1.70	0.10	GroundH2O	mg/L	25-MAY-95	30-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L10804-007	G109A-FILTERED	Magnesium	50.3	1.00	GroundH2O	mg/L	25-MAY-95	12-JUN-95
		Potassium	0.80	0.10	GroundH2O	mg/L	25-MAY-95	30-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L10804-008	G109-FILTERED	Magnesium	55.2	1.00	GroundH2O	mg/L	25-MAY-95	12-JUN-95
		Potassium	0.52	0.10	GroundH2O	mg/L	25-MAY-95	30-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95

Chk'd: Kek App'd: GG
Date App'd: 6/16/95

WI Lab Certification ID#: 113138300

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INORGANIC REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L10804-009	G113A-FILTERED	Magnesium	67.3	1.00	GroundH2O	mg/L	25-MAY-95	12-JUN-95
		Potassium	5.46	0.10	GroundH2O	mg/L	25-MAY-95	30-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95
L10804-010	G113-FILTERED	Magnesium	56.5	1.00	GroundH2O	mg/L	25-MAY-95	12-JUN-95
		Potassium	7.09	0.10	GroundH2O	mg/L	25-MAY-95	30-MAY-95
		Tin	< 0.20	0.20	GroundH2O	mg/L	25-MAY-95	12-JUN-95

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

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HERBICIDE REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10804-001	G120B-UNFILTERED	2,4-D	< 0.50	0.50	GroundH2O	ug/L	G18
		2,4,5-TP(silvex)	< 0.25	0.25	GroundH2O	ug/L	G18
		2,4,5-T	< 0.25	0.25	GroundH2O	ug/L	G18
		Sample Date: 25-MAY-95					
		Extract Date: 01-JUN-95					
		Analysis Date: 09-JUN-95					
L10804-002	G109A-UNFILTERED	2,4-D	< 0.50	0.50	GroundH2O	ug/L	G18
		2,4,5-TP(silvex)	< 0.25	0.25	GroundH2O	ug/L	G18
		2,4,5-T	< 0.25	0.25	GroundH2O	ug/L	G18
		Sample Date: 25-MAY-95					
		Extract Date: 01-JUN-95					
		Analysis Date: 09-JUN-95					
L10804-003	G109-UNFILTERED	2,4-D	< 0.50	0.50	GroundH2O	ug/L	G18
		2,4,5-TP(silvex)	< 0.25	0.25	GroundH2O	ug/L	G18
		2,4,5-T	< 0.25	0.25	GroundH2O	ug/L	G18
		Sample Date: 25-MAY-95					
		Extract Date: 01-JUN-95					
		Analysis Date: 09-JUN-95					
L10804-004	G113A-UNFILTERED	2,4-D	< 0.50	0.50	GroundH2O	ug/L	G18
		2,4,5-TP(silvex)	< 0.25	0.25	GroundH2O	ug/L	G18
		2,4,5-T	< 0.25	0.25	GroundH2O	ug/L	G18
		Sample Date: 25-MAY-95					
		Extract Date: 01-JUN-95					
		Analysis Date: 09-JUN-95					
L10804-005	G113-UNFILTERED	2,4-D	< 0.50	0.50	GroundH2O	ug/L	G18
		2,4,5-TP(silvex)	< 0.25	0.25	GroundH2O	ug/L	G18
		2,4,5-T	< 0.25	0.25	GroundH2O	ug/L	G18
		Sample Date: 25-MAY-95					
		Extract Date: 01-JUN-95					
		Analysis Date: 09-JUN-95					

Chk'd: [illegible] App'd: [illegible]
Date App'd: 6/16/95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

PESTICIDE/PCB REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10804-001	G120B-UNFILTERED	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	A17
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	A17
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	A17
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	A17
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	A17
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	A17
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	A17
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	A17
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	A17

Sample Date: 25-MAY-95
Extract Date: 01-JUN-95
Analysis Date: 02-JUN-95

Chk'd: [illegible] App'd: [illegible]
Date App'd: 6/16/95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

PESTICIDE/PCB REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10804-002	G109A-UNFILTERED	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	A17
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	A17
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	A17
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	A17
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	A17
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	A17
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	A17
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	A17
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	A17

Sample Date: 25-MAY-95
Extract Date: 01-JUN-95
Analysis Date: 02-JUN-95

Chk'd: [illegible] App'd: [illegible]
Date App'd: 6/16/95

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON
Analytical Testing Services

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PESTICIDE/PCB REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10804-003	G109-UNFILTERED	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	A17
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	A17
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	A17
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	A17
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	A17
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	A17
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	A17
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	A17
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	A17

Sample Date: 25-MAY-95
Extract Date: 01-JUN-95
Analysis Date: 02-JUN-95

Chk'd: [illegible] App'd: [illegible]
Date App'd: 6/16/95

WI Lab Certification ID#: 113138300

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PESTICIDE/PCB REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10804-004	G113A-	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
	UNFILTERED	beta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	A17
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	A17
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	A17
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	A17
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	A17
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	A17
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	A17
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	A17
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	A17

Sample Date: 25-MAY-95
Extract Date: 01-JUN-95
Analysis Date: 02-JUN-95

Chk'd: Kak App'd: GG
Date App'd: 6/16/95

WI Lab Certification ID#: 113138300

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Analytical Testing Services

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PESTICIDE/PCB REPORT
WINNEBAGO LANDFILL-PROGRAM 2
ROCKFORD IL
Project Number: 4122.0031

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L10804-005	G113-UNFILTERED	alpha-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		beta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		delta-BHC	< 0.050	0.050	GroundH2O	ug/L	A17
		gamma-BHC (Lindane)	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor	< 0.050	0.050	GroundH2O	ug/L	A17
		Aldrin	< 0.050	0.050	GroundH2O	ug/L	A17
		Heptachlor epoxide	< 0.050	0.050	GroundH2O	ug/L	A17
		Endosulfan I	< 0.050	0.050	GroundH2O	ug/L	A17
		Dieldrin	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDE	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan II	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDD	< 0.10	0.10	GroundH2O	ug/L	A17
		Endosulfan sulfate	< 0.10	0.10	GroundH2O	ug/L	A17
		p,p'-DDT	< 0.10	0.10	GroundH2O	ug/L	A17
		Endrin ketone	< 0.10	0.10	GroundH2O	ug/L	A17
		Methoxychlor	< 0.50	0.50	GroundH2O	ug/L	A17
		Endrin aldehyde	< 0.10	0.10	GroundH2O	ug/L	A17
		Chlordane (Technical)	< 0.50	0.50	GroundH2O	ug/L	A17
		Toxaphene	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1016	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1221	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1232	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1242	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1248	< 0.50	0.50	GroundH2O	ug/L	A17
		PCB-1254	< 1.0	1.0	GroundH2O	ug/L	A17
		PCB-1260	< 1.0	1.0	GroundH2O	ug/L	A17
		Alachlor	< 0.20	0.20	GroundH2O	ug/L	A17

Sample Date: 25-MAY-95
Extract Date: 01-JUN-95
Analysis Date: 02-JUN-95

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

MONTGOMERY WATSON

SURFACE WATER SAMPLE AND FIELD TEST INFORMATION
MONTGOMERY WATSON

Job Name: WINNEBAGO REC. LANDFILL Job No. 4122.0031 By: M. Gilmer

Location: WINNEBAGO CO., ILLINOIS Sampling Date: 5/25/95 Project Mgr. Tauschek

Sampling Method/Equipment: hand pump, stainless steel bailer

Other:

pH Meter: 7: 7.02 4: 4.01 Conductivity Meter: (18°) 1000: 850 10000: 8500 DO Meter: Redox Meter:

Sample Number	Time Sampled	Sampler Name	Temperature deg. C	pH	Conductivity umho/cm	Spec. Cond. @ 25 deg. C umho/cm	Dissolved Oxygen mg/L	Redox mV	Odor	Color	Turbidity	Time Measured	Analyst Name	Comments
G120B	10:30	MHG	18.0	6.93	450	523			N	TAN	SLT			
G109A	12:15	MHG	17°	7.02	800	952			N	TAN	SLT			
G109	13:00	MHG	17°	7.06	850	1012			N	TAN	SLT			
G113A	14:20	MHG	19°	7.05	550	625			N	C	N			
G113	15:00	MHG	20°	7.06	450	500			N	Tan	Heavy			
~~G113-Dup~~	15:00	MHG	19°	7.06	420				N	TAN	Heavy			

F:\Forms\SURWATER.xls

JOB NAME: WINNEBAGO REC. LF C# 4122.0031 PAGE 1 OF 1

LOCATION: WINNEBAGO CO. SAMPLING DATE: 5/21/97 BY: M. Gilmore

DATE PROCESSED: _____ BY: _____ VOLUME REQUIRED: _____ PROJECT MANAGER: Tauschek

PARAMETERS:
- [ ] pH
- [ ] Conductivity
- [ ] Total Alkalinity
- [ ] Chloride
- [ ] Total Hardness
- [ ] Dissolved Iron
- [ ] Nitrite
- [ ] Sodium
- [ ] Sulfate
- [ ] COD
- [ ] Nitrate
- [ ] TDS

OTHER: _____

NAME OF SAMPLER	SAMP. #	TD	T.O.C. ELEV.	DEPTH TO WATER	GW ELEV.	ODOR	COLOR	TURB.	TIME PURGED	VOLUME PURGED	WELL CAPACITY	TIME SAMPLED	COMMENTS
MHG	G120B	150.0	758.44	36.6	721.84	N	TAN	SLT		55.0	18.0	10:30	hand pump.
	G109	53.8	760.79	35.5	725.29	N	TAN	SLT		10.0	2.9	12:15	
	G109A	82.0	761.03 ~~761.00~~	36.1	724.93	N	TAN	SLT		25.0	7.3	13:00	
	G113	51.2	762.22	39.6	722.62	N	C	N		6.0	1.8	14:20	
	G113A	150.0	762.89	40.8	722.09	N	TAN	Heavy		55.0	17.5	15:00	

COMMENTS: _____ Sampling Device: _____

WS YN

Purging Method: _____

MONTGOMERY WATSON

CHAIN OF CUSTODY RECORD

SPECIAL INSTRUCTIONS:
- [ ] PECFA
- [ ] WI LUST
- [ ] ACT 307
- [ ] REPORT DRY WT
- [ ] OTHER:

TURNAROUND
- [x] 2 WEEKS (standard)
- [ ] 1 WEEK
- [ ] 3 DAYS
- [ ] 1 DAY

PROJECT NAME: WINNEBAGO REC.
PROJECT #: 4122.0031
CITY: WINNEBAGO CO.
STATE: ILLINOIS
SAMPLER(S): Michael Gilmer

Groundwater

COLLECTION DATE	COLLECTION TIME	GRAB / COMP	SAMPLE ID	NO. OF CONTAINERS	Alkalinity + Chloride	Ammonia	Mg, K, Sn (dis)	Sn	Pesticides (see attachment) + Herbicides				REMARKS	LAB USE ONLY MATRIX	LAB NO.
5/25/95	Grab	Grab												GW	~~10804-001~~
	10:30		G120B	6	1	1	~~1~~	1	2						10804-001
	12:15		G109A	6	1	1	~~1~~	1	2						-002
	13:00		G109	6	1	1	~~1~~	1	2						-003
	14:20		G113A	6	1	1	~~1~~	1	2						-004
	15:00		G113	6	1	1	1	1	2						-005
			G120B - Filtered				1								-006
			G109A -				1								-007
			G109 -				1								-008
			G113A -				1								-009
			G113 -				1								-010

SPECIAL INSTRUCTIONS:

RECEIVED: [x] INTACT [x] ON ICE TEMP _____ °F

PROJ. MGR.: S. Tauschek

SIGNATURE	PRINT NAME	COMPANY / TITLE	DATE	TIME
RELINQUISHED BY: Michael Gilmer	MICHAEL GILMER	MONTGOMERY WATSON / Ass. Hydrogeologist	5/25/95	18:30
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED BY: [signature]	D. Linley	MWATS	5/26/95	9:30

C-O-C No. 012327

NAME OF COURIER: _____

AIRBILL NUMBER: _____

NATIONAL ENVIRONMENTAL TESTING, INC.

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 307-2877

ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMTAION SERV
8403 Lindenwood Road
Rockford, IL 61109

06/21/1995

NET Job Number: 95.02013

IEPA Cert. No. 100220
WDNR Cert. No. 999447240

Enclosed is the Analytical and Quality Control reports for the following samples submitted to the Rockford Division of NET, Inc. for analysis:

Sample Number	Sample Description	Date Taken	Date Received
154788	S1/Stream, Grab Water	06/05/1995	06/05/1995
154789	S2/Stream, Grab Water	06/05/1995	06/05/1995
154790	S3/Stream, Grab Water	06/05/1995	06/05/1995
154791	S4/Stream, Grab Water	06/05/1995	06/05/1995
154792	SS1/Sediment	06/05/1995	06/05/1995

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Diane Lohr

Diane Lohr, Project Manager
Rockford Division

NATIONAL ENVIRONMENTAL TESTING, INC.

Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622
(800) 807-2877

ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMTAION SERV
8403 Lindenwood Road
Rockford, IL 61109

06/21/1995

NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154788	**SAMPLE DESCRIPTION S1/Stream, Grab Water**								**DATE-TIME TAKEN 06/05/1995 11:00**
Chloride	26		mg/L	<5.0	06/07/1995	tch		287	325.3 (3)
Nitrogen, Ammonia	0.29		mg/L	<0.13	06/12/1995	dmc		234	350.2 (3)
Ni n, Nitrate+Nitrite	17.2		mg/L	<0.50	06/08/1995	jrt		213	4500NO3 (4)
Iro., AA	2.56		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Iron, dissolved, AA	<0.10		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Manganese, ICP	0.058		mg/L	<0.010	06/09/1995	rmm	391	8	200.7 (3)
Manganese, dissolved, ICP	0.013		mg/L	<0.010	06/09/1995	rmm		3	200.7 (3)
Nickel, AA	<0.04		mg/L	<0.04	06/08/1995	tww		450	249.1 (3)
Nickel, dissolved, AA	<0.04		mg/L	<0.04	06/08/1995	tww		450	249.1 (3)
Metals Digest, Aqueous	complete			COMPLETE	06/09/1995	klr	391		
SAMPLE NO. 154789	**SAMPLE DESCRIPTION S2/Stream, Grab Water**								**DATE-TIME TAKEN 06/05/1995 11:30**
Chloride	30		mg/L	<5.0	06/07/1995	tch		287	325.3 (3)
Nitrogen, Ammonia	0.23		mg/L	<0.13	06/12/1995	dmc		234	350.2 (3)
Nitrogen, Nitrate+Nitrite	17.1		mg/L	<0.50	06/08/1995	jrt		213	4500NO3 (4)
Iron, AA	1.08		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Iron, dissolved, AA	<0.10		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Manganese, ICP	0.074		mg/L	<0.010	06/09/1995	rmm	391	8	200.7 (3)
Manganese, dissolved, ICP	0.021		mg/L	<0.010	06/09/1995	rmm		3	200.7 (3)
Nickel, AA	<0.04		mg/L	<0.04	06/08/1995	tww		450	249.1 (3)
Nickel, dissolved, AA	<0.04		mg/L	<0.04	06/08/1995	tww		450	249.1 (3)

NATIONAL ENVIRONMENTAL TESTING, INC.

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMTAION SERV
8403 Lindenwood Road
Rockford, IL 61109

06/21/1995

NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154789	SAMPLE DESCRIPTION S2/Stream, Grab Water								DATE-TIME TAKEN 06/05/1995 11:30
Metals Digest, Aqueous	complete			COMPLETE	06/09/1995	klr	391		
SAMPLE NO. 154790	SAMPLE DESCRIPTION S3/Stream, Grab Water								DATE-TIME TAKEN 06/05/1995 12:00
Chloride	28		mg/L	<5.0	06/07/1995	tch		287	325.3 (3)
Nitrogen, Ammonia	0.52		mg/L	<0.13	06/12/1995	dmc		234	350.2 (3)
Nitrogen, Nitrate+Nitrite	18.1		mg/L	<0.50	06/08/1995	jrt		213	4500NO3 (4)
Iron, AA	4.02		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Iron, dissolved, AA	<0.10		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Manganese, ICP	0.073		mg/L	<0.010	06/09/1995	rmm	391	8	200.7 (3)
Manganese, dissolved, ICP	0.022		mg/L	<0.010	06/09/1995	rmm		3	200.7 (3)
Nickel, AA	<0.04		mg/L	<0.04	06/08/1995	tww		450	249.1 (3)
Nickel, dissolved, AA	<0.04		mg/L	<0.04	06/08/1995	tww		450	249.1 (3)
Metals Digest, Aqueous	complete			COMPLETE	06/09/1995	klr	391		

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8403 Lindenwood Road
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06/21/1995

NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154791	SAMPLE DESCRIPTION S4/Stream, Grab Water								DATE-TIME TAKEN 06/05/1995 12:30
Chloride	28		mg/L	<5.0	06/07/1995	tch		287	325.3 (3)
Nitrogen, Ammonia	0.52		mg/L	<0.13	06/12/1995	dmc		234	350.2 (3)
N en, Nitrate+Nitrite	17.8		mg/L	<0.50	06/08/1995	jrt		213	4500NO3 (4)
I AA	3.54		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Iron, dissolved, AA	<0.10		mg/L	<0.10	06/07/1995	tww		402	236.1 (3)
Manganese, ICP	0.066		mg/L	<0.010	06/09/1995	rmm	391	8	200.7 (3)
Manganese, dissolved, ICP	0.020		mg/L	<0.010	06/09/1995	rmm		3	200.7 (3)
Nickel, AA	<0.04		mg/L	<0.04	06/09/1995	tww		450	249.1 (3)
Nickel, dissolved, AA	<0.04		mg/L	<0.04	06/08/1995	tww		450	249.1 (3)
Metals Digest, Aqueous	complete			COMPLETE	06/09/1995	klr	391		
SAMPLE NO. 154792	SAMPLE DESCRIPTION SS1/Sediment								DATE-TIME TAKEN 06/05/1995
Solids, Total	83.5		%		06/06/1995	mmg		770	160.3 (3)
Iron, AA	7,340	WET	mg/kg	<2.49	06/12/1995	tww		77	7390 (1)
Manganese, AA	82.8	WET	mg/kg	<0.50	06/20/1995	rmm	347	96	7460 (1)
Nickel, AA	7.21	WET	mg/kg	<1.00	06/12/1995	tww		162	7520 (1)
Metals Digest Non-Aqueous	complete			COMPLETE	06/09/1995	klr	347		

WET: Reported on wet weight basis for all parameter(s) for this test.

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ANALYTICAL REPORT

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8403 Lindenwood Road
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06/21/1995

NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154792	SAMPLE DESCRIPTION SS1/Sediment								DATE-TIME TAKEN 06/05/1995
VOLATILE COMPOUNDS - 8240									
Ac[illegible]e	<25		ug/kg	<25	06/13/1995	out		454	8240 (1)
Ac[illegible]n	<500		ug/kg	<500	06/13/1995	out		454	8240 (1)
Acrylonitrile	<50		ug/kg	<50	06/13/1995	out		454	8240 (1)
Benzene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Bromodichloromethane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Bromoform	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Bromomethane	<10		ug/kg	<10	06/13/1995	out		454	8240 (1)
Carbon tetrachloride	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Chlorobenzene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Chloroethane	<10		ug/kg	<10	06/13/1995	out		454	8240 (1)
2-Chloroethyl vinyl ether	<10		ug/kg	<10	06/13/1995	out		454	8240 (1)
Chloroform	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Chloromethane	<10		ug/kg	<10	06/13/1995	out		454	8240 (1)
Dibromochloromethane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,2-Dichlorobenzene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,3-Dichlorobenzene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,4-Dichlorobenzene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,1-Dichloroethane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,2-Dichloroethane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,1-Dichloroethene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
trans-1,2-Dichloroethene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
cis-1,2-Dichloroethene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,2-Dichloropropane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
cis-1,3-Dichloropropene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
trans-1,3-Dichloropropene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMTAION SERV
8403 Lindenwood Road
Rockford, IL 61109

06/21/1995

NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154792	SAMPLE DESCRIPTION SS1/Sediment								DATE-TIME TAKEN 06/05/1995
Ethylbenzene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Methylene chloride	<25		ug/kg	<25	06/13/1995	out		454	8240 (1)
Met[illegible]thyl ketone	<25		ug/kg	<25	06/13/1995	out		454	8240 (1)
Met[illegible]sobutyl ketone	<25		ug/kg	<25	06/13/1995	out		454	8240 (1)
1,1,2,2-Tetrachloroethane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Tetrachloroethene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Toluene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,1,1-Trichloroethane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,1,2-Trichloroethane	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Trichloroethene	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
Vinyl chloride	<10		ug/kg	<10	06/13/1995	out		454	8240 (1)
Xyl[illegible] (total)	<5.0		ug/kg	<5.0	06/13/1995	out		454	8240 (1)
1,2-[illegible]chloroethane-d4 (Surr)	119		%	NA	06/13/1995	out		454	8240 (1)
Toluene-d8 (Surr)	101		%	NA	06/13/1995	out		454	8240 (1)
4-Bromofluorobenzene (Surr)	116		%	NA	06/13/1995	out		454	8240 (1)

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NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154792	SAMPLE DESCRIPTION SS1/Sediment								DATE-TIME TAKEN 06/05/1995
BNA Non-Aqueous Extraction	complete			COMPLETE	06/06/1995	jgr	56		

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154792	SAMPLE DESCRIPTION SS1/Sediment								DATE-TIME TAKEN 06/05/1995
BASE NEUTRAL COMPOUNDS-8270									
Acenaphthene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Ac thylene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
An. cene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Benzidine	<1,600		ug/kg	<1,600	06/09/1995	zlc	56	71	8270 (1)
Benzo(a)anthracene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Benzo(b)fluoranthene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Benzo(k)fluoranthene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Benzo(a)pyrene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Benzo(ghi)perylene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Benzyl butyl phthalate	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Bi chloroethyl)ether	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Bis(2-chloroethoxy)methane	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Bis(2-ethylhexyl)phthalate	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Bis(2chloroisopropyl)ether	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
4-Bromophenyl phenyl ether	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
2-Chloronaphthalene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
4-Chlorophenylphenyl ether	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Chrysene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Dibenzo(a,h)anthracene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Di-n-butylphthalate	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
1,3-Dichlorobenzene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
1,2-Dichlorobenzene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
1,4-Dichlorobenzene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
3,3-Dichlorobenzidine	<660		ug/kg	<660	06/09/1995	zlc	56	71	8270 (1)
Diethyl phthalate	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)

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NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154792	SAMPLE DESCRIPTION SS1/Sediment								DATE-TIME TAKEN 06/05/1995
1,2-Diphenylhydrazine	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Di vl phthalate	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
2, itrotoluene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
2,6-Dinitrotoluene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Di-n-octylphthalate	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Fluoranthene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Fluorene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Hexachlorobenzene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Hexachloro-1,3-butadiene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Hexachlorocyclopentadiene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Hexachloroethane	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Indeno(1,2,3-cd)pyrene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Isophorone	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Naphthalene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Nitrobenzene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
N-Nitrosodimethylamine	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
N-Nitrosodiphenylamine	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
N-Nitrosodi-n-propylamine	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Phenanthrene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Pyrene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
1,2,4-Trichlorobenzene	<330		ug/kg	<330	06/09/1995	zlc	56	71	8270 (1)
Nitrobenzene-d5 (Surr).	67		%	NA	06/09/1995	zlc	56	71	8270 (1)
2-Fluorobiphenyl (Surr)	34		%	NA	06/09/1995	zlc	56	71	8270 (1)
Terphenyl-d14 (Surr)	59		%	NA	06/09/1995	zlc	56	71	8270 (1)

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ANALYTICAL REPORT

Mr. Tom Hilbert
WINNEBAGO RECLAMTAION SERV
8403 Lindenwood Road
Rockford, IL 61109

06/21/1995

NET Job Number: 95.02013

Client Project ID:

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154792	SAMPLE DESCRIPTION SS1/Sediment								DATE-TIME TAKEN 06/05/1995
ACID COMPOUNDS - 8270									
4- ro-3-methylphenol	<330		ug/kg	<330	06/09/1995	zlc	56	124	8270 (1)
2- rophenol	<330		ug/kg	<330	06/09/1995	zlc	56	124	8270 (1)
2,4-Dichlorophenol	<330		ug/kg	<330	06/09/1995	zlc	56	124	8270 (1)
2,4-Dimethylphenol	<330		ug/kg	<330	06/09/1995	zlc	56	124	8270 (1)
2,4-Dinitrophenol	<1,600		ug/kg	<1,600	06/09/1995	zlc	56	124	8270 (1)
2-Methyl-4,6-dinitrophenol	<1,600		ug/kg	<1,600	06/09/1995	zlc	56	124	8270 (1)
2-Nitrophenol	<1,600		ug/kg	<1,600	06/09/1995	zlc	56	124	8270 (1)
4-Nitrophenol	<1,600		ug/kg	<1,600	06/09/1995	zlc	56	124	8270 (1)
Pentachlorophenol	<1,600		ug/kg	<1,600	06/09/1995	zlc	56	124	8270 (1)
Ph	<330		ug/kg	<330	06/09/1995	zlc	56	124	8270 (1)
2,4,6-Trichlorophenol	<330		ug/kg	<330	06/09/1995	zlc	56	124	8270 (1)
Phenol-d6 (Surr)	80		%	NA	06/09/1995	zlc	56	124	8270 (1)
2-Fluorophenol (Surr)	70		%	NA	06/09/1995	zlc	56	124	8270 (1)
Tribromophenol (Surr)	71		%	NA	06/09/1995	zlc	56	124	8270 (1)

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METHOD REFERENCES

The abbreviations and references listed below have been adopted by NET as standard conventions and are used throughout this report:

(1) Method reference from EPA SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods."

(2) Method reference from ASTM, "American Society for Testing Materials."

(3) Method reference from EPA "Methods for Chemical Analysis of Waters and Wastes."

(4) Method reference from "Standard Methods for the Examination of Water and Wastewater."

(5) Method reference from EPA "Methods for the Determination of Organic Compounds in Drinking Water."

(6) EPA 40 CFR, Part 763 Appendix A to Subpart F - PLM

(7) "Orion Guide to Water and Wastewater Analysis." Form WeWWG/5880

(8) Internal Method

(9) SIM = Selective Ion Monitoring

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ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Mark Branthaver
CONSUMERS IL. WATER CO.
Candlewick Lake Division
2026 Candlewick Drive
Poplar Grove, IL 61065

06/21/1995

NET Job Number: 95.02060

IEPA Cert. No. 100220
WDNR Cert. No. 999447240

Enclosed is the Analytical and Quality Control reports for the following samples submitted to the Rockford Division of NET, Inc. for analysis:

Sample Number	Sample Description	Date Taken	Date Received
154890	STP Final Effluent	06/07/1995	06/07/1995
154891	STP Dry Sludge	06/07/1995	06/07/1995

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Diane Lohr, Project Manager
Rockford Division

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ANALYTICAL REPORT

Mr. Mark Branthaver
CONSUMERS IL. WATER CO.
Candlewick Lake Division
2026 Candlewick Drive
Poplar Grove, IL 61065

06/21/1995

NET Job Number: 95.02060

Client Project ID: CW STP

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154890	SAMPLE DESCRIPTION STP Final Effluent							DATE-TIME TAKEN 06/07/1995 13:30	
Coliform, Fecal	1		/100 mL	<0./100	06/07/1995	tch		281	909C (4)
SAMPLE NO. 154891	SAMPLE DESCRIPTION STP Dry Sludge							DATE-TIME TAKEN 06/07/1995 13:35	
Solids, Total Volatile	8.8		%	<0.1	05/14/1995	tch		121	160.4 (3)
Nitrogen, Ammonia	1,310		mg/kg		06/21/1995	dmc		82	350.2 (3)
Nitrogen, Kjeldahl	7,700	WET	mg/kg	<30	06/09/1995	rmm		52	351.3 (3)
Phosphorus, Total	447		mg/kg		06/14/1995	dmc		78	365.3 (3)
Solids, Total	37.3		%		06/09/1995	mmg		773	160.3 (3)
Arsenic, ICP	<4.0	WET	mg/kg	<4.0	06/14/1995	rmm		62	6010 (1)
Cadmium, AA	3.20		mg/kg	<0.667	06/12/1995	tww		225	7130 (1)
Chromium, Total, AA	66.7		mg/kg	<1.00	06/12/1995	tww		207	7190 (1)
Copper, AA	426		mg/kg	<1.33	06/12/1995	tww		183	7210 (1)
Lead, AA	38.6		mg/kg	<13.4	06/12/1995	tww		311	7420 (1)
Manganese, AA	71.0	WET	mg/kg	<0.50	06/14/1995	rmm	347	95	7460 (1)
Mercury, CVAA	1.1		mg/kg	<0.02	06/13/1995	djc		235	7471 (1)
Molybdenum, AA	<33.3		mg/kg	<33.3	06/13/1995	tww		20	7480 (1)
Nickel, AA	14.7		mg/kg	<2.68	06/12/1995	tww		162	7520 (1)
Potassium, AA	220	WET	mg/kg	<50.0	06/14/1995	rmm	347	73	7610 (1)
Selenium, ICP	<7.5	WET	mg/kg	<7.5	06/14/1995	rmm		54	6010 (1)
Zinc, AA	210		mg/kg	<1.24	06/12/1995	tww		157	7950 (1)
Metals Digest Non-Aqueous	complete			COMPLETE	06/09/1995	klr	347		

WET: Reported on wet weight basis for all parameter(s) for this test.

NATIONAL ENVIRONMENTAL TESTING, INC.

Rockford Division
3548 35th Street
Rockford, IL 61109
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(800) 807-2877

ANALYTICAL REPORT

Mr. Mark Branthaver
CONSUMERS IL. WATER CO.
Candlewick Lake Division
2026 Candlewick Drive
Poplar Grove, IL 61065

06/21/1995

NET Job Number: 95.02060

Client Project ID: CW STP

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 154891	SAMPLE DESCRIPTION STP Dry Sludge								DATE-TIME TAKEN 06/07/1995 13:35
Corrosivity (pH)	7.15		units	NA	06/13/1995	dmc		284	9045-40 (1)

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METHOD REFERENCES

The abbreviations and references listed below have been adopted by NET as standard conventions and are used throughout this report:

(1) Method reference from EPA SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods."

(2) Method reference from ASTM, "American Society for Testing Materials."

(3) Method reference from EPA "Methods for Chemical Analysis of Waters and Wastes."

(4) Method reference from "Standard Methods for the Examination of Water and Wastewater."

(5) Method reference from EPA "Methods for the Determination of Organic Compounds in Drinking Water."

(6) EPA 40 CFR, Part 763 Appendix A to Subpart F - PLM

(7) "Orion Guide to Water and Wastewater Analysis." Form WeWWG/5880

(8) Internal Method

(9) SIM = Selective Ion Monitoring

APPENDIX D

APPENDIX D

Standard Operating Procedures (SOPs)
for Collection and Analysis of Groundwater Samples

Section: Groundwater/Leachate Sampling and Testing	Section Number 301	Date of Issue April 1993	Reviewed By S. Wiskes
Subject: Water Level Measurements	Page 1 of 5	Date Revised \	Authorized By

Scope and Application: To obtain an accurate measurement of the depth to water, typically at a groundwater monitoring well.

Reagents and Apparatus:

1. Tape (0.01 foot graduations) and attached sounding device (popper-a metal cylinder with an inverted cone machined into the bottom)
2. Electronic water level indicator (assorted models)
3. Squirt bottle of D.I. water
4. Water level recording form (field observation sheet or field log book)

Notes:

1. Perform water level measurements from least contaminated to most contaminated wells.
2. Rinse off tape between wells with deionized water.
3. Use an electronic water level indicator when water levels intersect the well screen.
4. **Do not use** tapes or electronic water level indicators to measure water level depths in wells with floating oil product. Use the oil interface probe (Refer to Water Oil Interface SOP)
5. Use tapes designated "leachate" to monitor highly contaminated wells or leachate risers.
6. Electronic water level indicators can give false readings if they contact the well casing. Take two readings to verify.

7. Electronic water level indicators are subject to kinking. Inaccurate measurements can result.

8. The electronic water level tapes have sensitivity adjustments so the sensitivity can be reduced when measuring high conductivity liquids (i.e., leachate). This will solve the problem of the meter not turning off when out of the liquid due to high conductivity.

9. Wells with water tight caps (e.g., flush mount wells) should be opened and allowed to equilibrate before obtaining a water level. Air pressure fluctuations might otherwise yield 'non-static' water levels.

Procedure:

Tape and Popper:

1. Inspect the outside of the protective casing for damage. Note appearance or damage in logbook.

2. Remove lock or cover (if any) from protective casing. Inspect monitoring well for damage, i.e.; looseness, cracked PVC, protective cap in place, etc. Note in logbook.

3. Rinse tape and popper with deionized water. Slowly play out tape into monitoring well until a pop or splash is heard from the well. If the water level intersects the screen, it will be very difficult to hear. An electric water level indicator may provide a more accurate measurement.

4. Slowly move the tape up and down to locate the water level. This is indicated by a splashing pop sound as the metal cylinder contacts the water surface.

5. Record the depth to groundwater from the top of the well casing to nearest 0.01 feet on a field observation sheet (Figure 1) and/or a bound field notebook. Play-out the tape until it is slack to record the total depth

of the well. The measurement is typically taken from the highest point on the monitoring well pipe this point may be marked with a sharpee on PVC wells. Groundwater depths **are not** typically measured from the protective casing. Other measuring points may be used but should be specified by the project manager before monitoring begins. Do not measure the water level relative to the ground surface.

6. Remove the tape from the monitoring well and rinse with deionized water between wells. Use additional site specific decontamination procedures if necessary.

7. Replace well cap and lock.

Electronic Water Level Indicator:

1. Inspect casing and remove protective caps as outlined in above procedure.

2. Rinse the end of the electric water level indicator with deionized water.

3. Slowly play out cord from reel into the monitoring well until indicator light or buzzer sounds.

4. Slowly raise and lower the cord to locate the depth where the buzzer sounds. Mark this spot. Lower again to check the mark. Measure from highest point on the monitoring well pipe **not** the well protective casing. Other measuring points may be used but should be specified by the project manger before monitoring begins. **Do not** measure from ground surface.

5. Record the depth to water to the nearest 0.01 foot on a field observation sheet (Figure 1) or a bound field notebook.

6. Remove the cord and rinse with deionized water between wells.

7. Turn instrument off.

8. Replace well cap and lock.

Quality Control:

1. After recording depth to water make a second measurement (if water level is static) and compare to recorded measurement.

2. Some water level tapes do not start at 0.00 ft. Inspect the water level tape to determine an 'offset' value which should be added to or subtracted from the observed depth to water to get the true depth to water. The offset value is usually engraved onto the tape spool.

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Section: Groundwater/Leachate Sampling and Testing	**Section Number** 303	**Date of Issue** April 1993	**Reviewed By** S. Wiskes
Subject: Sample Collection Low Permeability	**Page of** 1 7	**Date Revised** \	**Authorized By**

Scope and Application: This SOP should be used when sampling monitoring wells located in low permeability ("tight") formations. The most straightforward method for purging the stagnant water in any well that is located in a low permeable ("tight") formation is to pump (or bail) the well dry. After purging, allow the well to recover and if the time permits, purge the well a second time. In order to obtain a sample that is representative of in situ groundwater, **collect the sample as soon as there is a sufficient volume of water for the intended analyses** (not necessarily when the well is fully recovered).

Reagents and Apparatus:

1. PVC bailers
2. Stainless steel bailers (used when collecting samples for organic analysis)
3. Teflon surface sampler
4. Stainless steel cable and clamps
5. Nylon rope
6. 5 gallon bucket
7. Water level measuring device
8. Deionized water
10. Plastic sheeting
11. Sample containers, sample labels
12. Field Observation sheet or field notebook
13. Cooler with ice
14. Chain-of-Custody
15. Preservatives

Notes:

1. Sample the least contaminated well first. (Sample in increasing order of contamination.) If the degree of contamination is unknown, sample upgradient wells first.

Figure 1

b Name: River Black L.F. Job No. 1000000 Page 1

cation: DuPage, PA Sampling Date: 4.8.92 By: SGW

ate Processed: Volume Required: Project Mgr.

arameters:

____ pH	____ Chloride	____ Nitrite	____ COD
____ Conductivity	____ Total Hardness	____ Sodium	____ Nitrate
____ Total Alkalinity	____ Dissolved Iron	____ Sulfate	____ TDS

ther:

Name of Sampler	Sample No.	TD	T.O.C. Elev.	Depth to Water	GW Elev.	Odor	Color	Turb.	Time Purged	Volume Purged	Well Capacity	Time Sampled	Comments
SGW	MW1	68.9	8920	60.56	821.34								water level only

P5 of 5

2. Minimize aeration of the sample during purging and sample collection. Changes in partial pressure and aeration may alter the sample's integrity by precipitating metals, volatilization of organics, etc.

3. **Do not** allow bailer to "splash" into well. This will result in aeration of the sample.

4. Follow proper decontamination procedures. Specifics may vary when there is a project sampling plan.

5. **Do not** send a bailer down a well very fast until you have determined the well is not "kinked". Otherwise, you may jam a bailer in the well.

6. Keep all samples on ice after sample collection.

<u>Procedure</u>:

1. Water Level Measurement:

   a. Measure water level and the total depth of the well using appropriate methods discussed in Water Level Measurement SOP.

   b. Subtract the depth to water from the total depth of the monitoring well. This provides the total feet of water in the well.

   c. Calculate the volume in the well by multiplying the feet of water times the volume of water contained in a one foot section of pipe. (See table below)

   d. Record sample I.D., the depth to water, total depth, and well capacity on the field observation sheet and/or in a bound field book if required. See the example of a field observation sheet Figure 2.

VOLUME OF WATER CONTAINED IN ONE FOOT SECTION OF WELL CASING

Inside Diameter Inches	Volume of Water Gallons
1	0.04
1 1/2	0.09
2	0.16
3	0.37
4	0.65

$$V = \left(\pi \bullet \left(\frac{D}{2} \right)^2 \bullet H \right) \bullet 7.48$$

Where: V = Total volume of water in well (gallons)
D = Inside diameter of well (ft)
H = Height of water column in well (ft)
(depth to bottom of well minus depth to water)

2. Purging and Sampling (see sample collection procedures SOP prior to sampling)

   a. Connect bailer to rope or cable using a bowline knot (Figure 1) or clamps.

   b. Rinse bailer and 5 feet of cord with deionized water.

   c. Place plastic on ground around well casing to prevent bailer and/or bailer rope from touching the ground.

   d. Lower the bailer **slowly** and **gently** into contact with the water in the well. **Do not** let the bailer free fall into the well. **Do not** allow the bailer to sink to the bottom of the well and disturb the sediment. Introduce as little air or turbulence into the formation as possible to prevent aeration of the

samples. (This is especially important when collecting samples for organic analysis.)

e. Bail well dry. Use a 5 gallon bucket to measure the volume removed. Record time purged on field observation sheet or in field notebook.

f. Allow the well to recover after purging.

g. Purge the well a second time, if time permits.

h. Collect the water sample as soon as there is sufficient volume of water in the well required for the intended analyses.

i. Collect the sample as outlined below:

- Fill containers for volatile organic analyses (if necessary) from bailer full of water as soon as it is brought to the surface using the stainless steel sampling bailer.
- Slowly poor off the unfiltered sample into the sample container for the in-field parameters.
- Slowly pour off unfiltered sample into sample containers for all other unfiltered analyses (as necessary).
- Fill containers required for field filtering.

j. Rinse the bailer (and stainless steel cable if necessary) with deionized water.

k. Consult Decontamination of Sampling Equipment SOP for cleaning procedures.

1. Record volume purged, color, odor, and turbidity of the sample and time sampled on the field observation sheet (Figure 2) and/or a bound field notebook.

3. Organic Parameter Sampling:

   a. Volatile organics only: Purge well with PVC or stainless steel bailer. Remove last well volume with stainless steel bailer using stainless steel cable. Special sampling instructions can supersede the above and require stainless steel bailers to be used for both purging and bailing.

   b. Organic Parameters: Purge and collect sample using stainless steel or teflon bailers and stainless steel cable or equivalent.

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FIGURE 1

BOWLINE KNOT

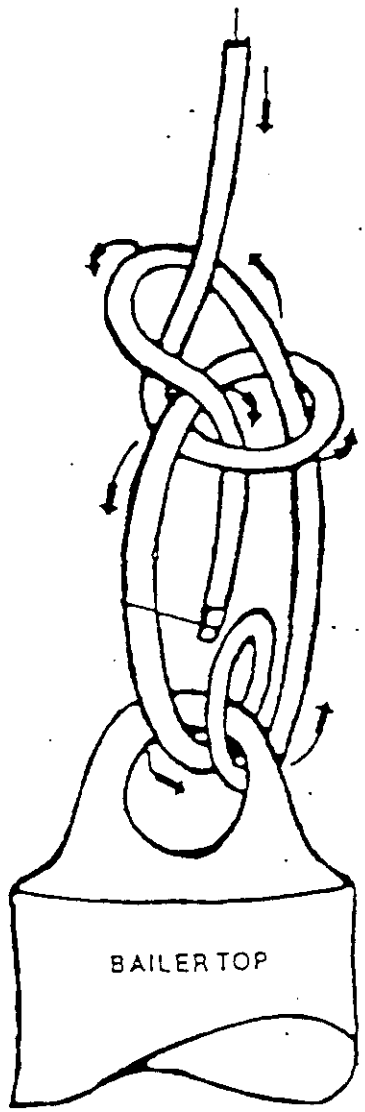

FIGURE 7

ob Name: Black River Road L.F.

Job No. 100000000

Page 1

ocation: Black River, PA

Sampling Date: 4/9/93

By: SGW

ate Processed:

Volume Required:

Project Mgr. JAH

arameters:

X pH
X Conductivity
Total Alkalinity

Chloride
Total Hardness
Dissolved Iron

Nitrite
Sodium
Sulfate

COD
Nitrate
TDS

Other: VOCs

Name of Sampler	Sample No.	TD	T.O.C. Elev.	Depth to Water	GW Elev.	Odor	Color	Turb.	Time Purged	Volume Purged	Well Capacity	Time Sampled	Comments
SGW	MW1	25	891.1	16.95	874.15	None	brown	very	1200	4.0	1.3	12:00	

Section: Groundwater/Leachate Sampling and Testing	**Section Number** 304	**Date of Issue** April 1993	**Reviewed By** S. Wiskes
Subject: Sample Collection High Permeability	**Page of** 1 8	**Date Revised** \	**Authorized By**

Scope and Application:

1. In wells installed in more permeable formations, complete evacuation of a well is not always possible or desirable. The U.S. EPA (1983) recommends collecting a sample when 95% of the purged water is coming from the formation. The USGS (1980) recommends purging until the temperature, pH and conductivity stabilize. This method may lead to excessive and unnecessary volumes being withdrawn and cause disposal problems.

2. Although it is difficult to establish an amount of water that will guarantee compete removal of stagnant water, the Wisconsin DNR recommends four (4) well volumes be removed to produce samples representative of in situ groundwater. In some cases removing a preassumed volume of four well volumes may cause an excessively large volume of water to be removed from a well. Warzyn generally removes three to five well volumes or the wells purged until pH and conductivity readings have stabilized (after three volumes)

3. In addition to the volume of water purged from a well, the position of the pump (or bailer) intake when purging is an important factor to consider during well evacuation. The flow patterns established by the different intake position will ultimately determine the position from which a sample, representative of in situ groundwater, can be collected. As stated by U.S. EPA (1983):

   When water is removed from the top of the water column standing in the well, water flows through the screen and up the well to the point of removal. In this manner the entire column of water in the well is exchanged during evacuation. If enough water is evacuated to account for any mixing between the stagnant water previously standing in the well and fresh formation water bought into the well, samples may subsequently be taken from any position in the well.

   When water is removed from the screened portion of the well a different pattern of flow is established in the well during evacuation. Until the drawdown stabilizes, water flows from the column of water above the screen as well as through the screen from the formation. However, after drawdown stabilizes water located in the well above the screen is no longer removed and

all evacuated water comes from the screened portion of the well. For this reason, samples may subsequently be taken only from the well screened portion of the well. However, in many cases much less water must be evacuated from the well than if water was evacuated from the top of the well. Enough water must be pumped, however, to stabilize the drawdown in the well and to subsequently ensure adequate exchange of water standing in the screened portion of the well with formation water."

4. Warzyn purges wells to meet both recommendations of the U.S. EPA and Wisconsin DNR. Warzyn removes three to five well volumes, or the well is purged until the pH, temperature and conductivity stabilize (after a minimum of three volumes are removed). This should result in a sample that represents the in situ groundwater sample.

Reagents and Apparatus:

1. PVC bailers
2. Stainless steel bailers
3. Teflon bailer
4. Stainless steel cable and clamps
5. Braided nylon rope
6. 5 gallon bucket
7. Water level measuring device
8. Deionized water
10. Plastic sheeting
11. Sample containers, sample labels
12. Field observation sheet or field notebook
13. Cooler with ice
14. Chain-of-Custody

Notes:

1. Sample the least contaminated well first. (Sample in increasing order of contamination.) If the degree of contamination is unknown, sample assumed upgradient wells first.

2. Minimize aeration of the sample during purging and sample collection. Changes in partial pressure and aeration may alter the samples integrity by precipitating metals, volatilization of organics, etc.

3. **Do not** allow bailer to "splash" into well. This will result in aeration of the sample.

4. Follow proper decontamination procedures. Specifics may vary when there is a project sampling plan.

5. **Do not** send a bailer down a well very fast until you have determined the well is not ^kinked". Otherwise, you may jam a bailer in the well.

6. Connect bailers to nylon rope using the bowline knot. Clinch knots have been known to become untied.

7. Keep all samples on ice after sample collection.

Procedure:

1. Water Level Measurement:

   a. Measure water level and the total depth of the well using appropriate methods discussed in Water Level Measurement SOP (WLM).

   b. Subtract the depth to water from the total depth of the monitoring well. This provides the total feet of water in the well.

   c. Calculate the volume in the well by multiplying the feet of water times the volume of water contained in a one foot section of pipe.

VOLUME OF WATER CONTAINED IN ONE FOOT SECTION OF WELL CASING

Inside Diameter Inches	Volume of Water Gallons
1	0.04
1 1/2	0.09
2	0.16
3	0.37
4	0.65

$$V = \left(\pi \bullet \left(\frac{D}{2} \right)^2 \bullet H \right) \bullet 7.48$$

Where: V = Total volume of water in well (gallons)
D = Inside diameter of well (ft)
H = Height of water column in well (ft)
(depth to bottom of well minus depth to water)

d. The well volume obtained will be used to calculate the volume to be purged before sampling.

e. Record the well I.D., depth to water, total depth of the well, and well capacity on the field observation sheet Figure 2 and/or a bound field notebook.

2. Purging and Sampling (see sample collection SOP procedures prior to sampling)

a. Connect bailer to rope or cable using a bowline knot (Figure 1).

b. Rinse bailer and 5 feet of cord with deionized water.

c. Place plastic on ground around well casing to prevent bailer and/or bailer rope from touching the ground.

d. Lower the bailer **slowly** and **gently** into contact with the water in the well. Do not let the bailer free fall into the well. **Do not** allow the bailer to sink to the bottom of the well and disturb the sediment.

e. Retrieve the bailer smoothly (do not allow bailer rope to touch the ground). Bail three to five well volumes (as calculated above). Use a 5 gallon bucket to measure the volume removed.

f. Purge wells by bailing from as near the water surface as possible to ensure no stagnant water remains above the screen. Introduce as little air or turbulence into the formation as possible to prevent aeration of the samples.

g. When the required volume has been removed, collect sample as outlined below.

- Fill containers for volatile organic analyses (if necessary) from bailer full of water as soon as it is brought to the surface using the stainless steel sampling bailer.

- Slowly pour off the unfiltered sample into the sample container for the in-field parameters. A teflon bottom emptying device can be used to fill sample containers.

- Slowly pour off unfiltered sample into sample containers for all other unfiltered analyses (as necessary).

- Fill containers required for field filtering.

j. Rinse the bailer (and stainless steel cable if necessary) with deionized water.

k. Consult Decontamination of Sampling Equipment SOP for cleaning procedures.

l. Record the volume purged, color, odor and turbidity of the sample and the time the sample was collected on the field observation sheet (Figure 2) and/or in a bound filed notebook.

Note other significant observations about the sample (i.e., sheen on surface, bugs in the well, etc.). Also, note if the well has a lot of sediment (type of sediment) and condition of the well (lock?, surface seal condition, protector condition).

3. Organic Parameter Sampling:

a. Volatile organics only: Purge well with PVC or stainless steel bailer. Remove last well volume with stainless steel bailer using stainless steel cable and collect sample. Special sampling instructions can supersede the above and require stainless steel bailers to be used for both purging and bailing.

b. Organic Parameters: Purge and collect sample using stainless steel or teflon bailers and stainless steel cable or equivalent.

FIGURE 1

BOWLINE KNOT

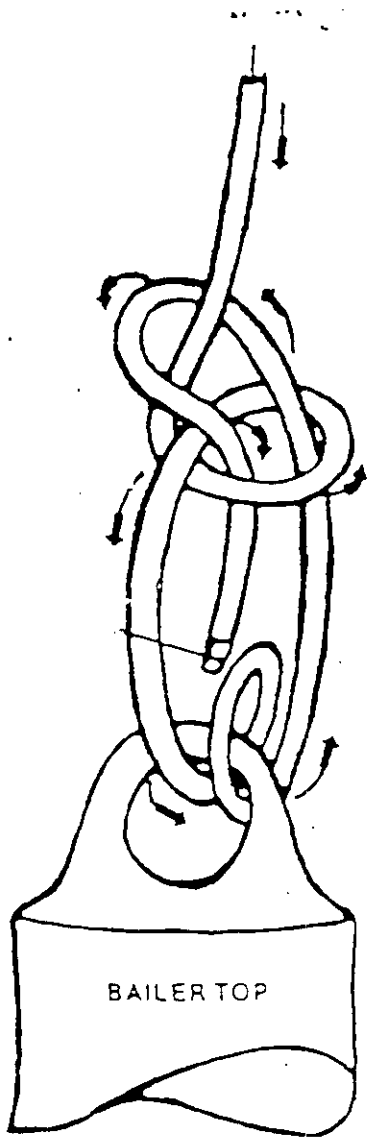

Figure 2 -

Name: Black River Road L.F. Job No. 1000000 Page 1

ation: Black River, PA Sampling Date: 4/9/93 By:

Processed: Volume Required: Project Mgr.

meters:

X pH	Chloride	Nitrite	COD
X Conductivity	Total Hardness	Sodium	Nitrate
Total Alkalinity	Dissolved Iron	Sulfate	TDS

er: VOCs

Name of Sampler	Sample No.	TD	T.O.C. Elev.	Depth to Water	GW Elev.	Odor	Color	Turb.	Time Purged	Volume Purged	Well Capacity	Time Sampled	Comments
SW	MW2	25	891.2	17.00	874.20	None	brown	moderate	10:00	2.0	1.3	1200	well tight

WARZYN INC.

FIELD SAMPLING AND TESTING SOPs AND TGDs

Section: Groundwater/Leachate Sampling and Testing	Section Number 305	Date of Issue April 1993	Reviewed By S. Wiskes
Subject: Collection of Samples from Leachate Risers	Page of 1 2	Date Revised \	Authorized By

Scope and Application: To provide guidelines for the collection of leachate riser samples.

Reagents and Apparatus:

1. Tape w/popper, designated for leachate only
2. PVC or stainless steel bailer, designated for leachate only
3. Nylon rope
4. Miscellaneous hand tools to open manhole or riser. (Consult site specific instructions for more information).
5. Sample containers, sample labels
6. Deionized water squirt bottle
7. Decontamination supplies (trisodium phosphate, water, bucket, etc.)
8. Personnel protection equipment (consult site specific instructions for level of protection required (Air monitoring instruments at a minimum.)
9. Field notebook
10. Chain-of-Custody forms
11. Preservatives
12. Cooler with ice

Procedure:

1. Collect the leachate samples near the end of the sampling period if possible.

2. Consult site-specific instructions for any personnel protective equipment required. Use caution when handling all leachate samples. Approach the sample location from upwind, if possible.

3. Label all sample containers before collecting samples. Consult Sample Collection and Preservative SOP (SCP) for appropriate sample containers and preservation.

4. Take leachate elevation , if necessary, with tape designated for leachate only. Follow Water Level Measurement SOP (WLM).

5. Lower bailer, designated for leachate only, or plastic cup into riser.

6. Collect the sample by filling the appropriate containers. There usually is no prebailing required. Consult site-specific instruction for information. Decontaminate the outside of the sample containers by rinsing with deionized water or washing with soap solution. Do not send contaminated sample containers to the laboratory.

7. Preserve sample according to Sample Collection and Preservation SOP (SCP). Preserve the sample in open air as the sample may release toxic gas by foaming. Cap only when the sample is done foaming.

8. Do not filter leachate samples.

9. Decontaminate equipment after collection of sample.

10. Analyze for in-field parameters if required.

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WARZYN INC.

FIELD SAMPLING AND TESTING SOPs AND TGDs

Section: Groundwater/Leachate Sampling and Testing	Section Number 306	Date of Issue April 1993	Reviewed By S. Wiskes
Subject: Private Well Sampling	Page of 1 2	Date Revised \	Authorized By

Scope and Application: To provide guidelines for the collection of residential and public water supply samples.

Reagents and Apparatus:

1. Assorted tools. i.e. pliers, pipewrench, etc.
2. 50' hose (5/8" and 1/2" adapters)
3. 5 gallon bucket
4. Sample containers, sample labels
5. 'Meet the Public' attitude
6. Property owners name and address
7. Chain-of-Custody forms
8. Cooler with ice

Procedure:

1. Call homeowner 1-2 days before sampling to arrange sampling time. Consult site specific instructions to determine what arrangements need to be made.

2. When on site, obtain permission to sample. **Do not** attempt to answer questions concerning analyses, etc., unless prior instructions were obtained from the project manager. Direct **ALL** inquiries to the project manager. Be cordial, take note of home-owner's questions and concerns, pass this information on to the project manager.

3. Label all sample containers prior to collection.

4. Locate an untreated, cold water source. If possible, the sample should be collected directly off the pressure tank or from a tap between the pump and the pressure tank. Other acceptable locations may be; outside faucet, cold water tap into basement sink, etc. If the sample is taken at a new location, verify that the sample **has not** passed through any type of treatment (water softener, iron filter, hot water heater, etc.). Trace the plumbing if possible. Record the **exact** location the sample was taken.

Section: Groundwater/Leachate Sampling and Testing	Section Number 306	Date of Issue April 1993	Reviewed By S. Wiskes
Subject: Private Well Sampling	Page 2 of 2	Date Revised \	Authorized By

5. The well/pressure tank system should be purged by allowing the water to run for at least 10 minutes or until the pump cycles on and off several times. Connect a hose to the faucet or collect purged water in bucket for disposal. Remove the hose prior to sample collection. In homes where the pressure tank discharge is in an inconvenient location, or where the discharge water is making a mess, turn on other faucets to purge the pressure tank while letting the inconvenient faucet run at a slower rate.

6. Fill appropriate containers for analyses required. Consult Sample Collection and Preservation SOP (SCP).

7. Clean up sampling area if necessary.

8. Take note of any specific problems at the house such as: beware of big dog; home-owner sleeps during day, etc.

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[mad-sop-102]
12350/60000

Section: Groundwater/Leachate Sampling and Testing	Section Number 310	Date of Issue April 1993	Reviewed By S. Wiskes
Subject: Field Filtering Millipore Pressure Filtration Apparatus	Page of 1 3	Date Revised \	Authorized By

Scope and Application: This method is applicable to the filtering of aqueous samples for the determination of dissolved constituents.

Method: Pressure Filtration

Reference: EPA 1983, Section 200

Sample Handling: Filter as soon as possible after sample collection (generally within 20 minutes).

Reagents and Apparatus:

1. Millipore filtration system
2. 0.45 um membrane filters
3. Prefilters
4. Deionized water
5. Surgical gloves
6. Cole Palmer pump
7. 12-volt power supply
8. Preservatives as required
9. pH test strips
10. Sample filtration bottles
11. Sample labels
12. Chain-of-Custody
13. Cooler with ice

Reagent Preparation:

1. **10% acid solution:** Use either 10% HCL or 10% HNO_3 for the acid rinse. Consult site specific sampling requirements to determine the appropriate rinse. Add about 900 mL D.I. water to a 1 L polyethylene bottle. Add 100 mL Instra-Analyzed concentrated HCL or HNO_3 to the D.I.water, cap and invert bottle to mix.

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Notes:

1. Samples with high sediment can be decanted prior to filtration.

2. For difficult-to-filter samples, a glass fiber prefilter can be placed on top of the 0.45 um filter.

3. When specified in a sampling plan, an acid rinse can be incorporated into the procedure. After filtering a sample, rinse apparatus as usual. Then rinse apparatus with the 10% acid solution. The acid rinse would then be followed by a triple rinse of deionized water.

Procedure:

1. Connect compressed air source or Cole Palmer pump to Millipore filtration system.

2. Plug pump into 12-volt power supply or the van cigarette lighter.

3. Label sample bottles before filtering sample into them.

4. Rinse the Millipore filtering apparatus with DI water thoroughly.

5. Set the millipore base upright on its legs. Place the filter screen support in the bottom of the base. Place the filter screen on top of the support.

6. Place a 0.45 um filter on the filter screen. For turbid samples, place a prefilter on top of the .45 um filter. Place the filtration cylinder on top of the filters (the filtration cylinder is placed with the white teflon ring down). Add more than the required amount of sample to the cylinder (need to discard some). Place the cover on the cylinder and clamp securely using knobs provided. (Be sure the cylinder is centered over the filter to avoid leaks.)

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7. Pressurize the system making sure hoses are not kinked. Collect the first 10-20 mL of sample in a waste container and discard. Collect the filtered sample into a pre-labelled bottle.

8. Turn off the electrical source when the pump labors to prevent burning out the pump. The filtration system will hold the pressure. Filter until required volume is obtained.

9. Slowly release the pressure valve on top of cover.

10. Add the appropriate preservatives to the sample containers and check the preserved samples with pH test strips to ensure the samples have been preserved correctly.

11. When all the pressure has been released, the apparatus can be taken apart and rinsed clean.

12. Change filter between samples.

Section: Groundwater/Leachate Sampling and Testing	Section Number 311	Date of Issue April 1993	Reviewed By S. Wiskes
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Scope and Application: To provide guidelines for the proper labeling of sample containers, filling of sample containers and preservation of samples during and after sample collection. The information presented is to be used with the specific requirements for sample collection and preservation listed in Table 1.

Notes:

1. **For organic sample collection:**

   a. Use 200 or 300 series ICHEM bottles or equivalent for sample collection. These bottles have been cleaned to specifications suitable for organic analysis .

   b. Minimize the length of time the cap is off the bottle to reduce possible contamination.

   c. Do not rinse the bottles with sample prior to collection.

   d. Plastic containers or lids may **not** be used for the storage of sample due to the possibility of sample contamination from the phthalate esters, and other hydrocarbons within the plastic. Sample containers should be filled with care so as to prevent any portion of the collected sample coming in contact with the sampler's gloves, thus causing contamination. Samples should not be collected or stored in the presence of exhaust fumes. A bailer or pump blank is generally required to be collected for the same parameters as the samples. After the bailer or pump has been decontaminated, a blank is collected by pouring DI water into the bailer or pump and then collecting the water into the sample bottles.

Procedure:

1. **Sample Procurement:** Samples should be obtained using the guidelines set forth in the site specific sampling plan. If no sampling plan is available, consult the section in the Sampling SOP Manual that contains sampling methods. Select the method appropriate to your sampling program.

2. **Labeling:** Warzyn Inc. employs three methods of sample container labeling that reflect the level of the chain-of-custody required for a specific sampling program. Sample labels and tags are used in conjunction with chain-of-custody documents to ensure sample identification, preservation and custody requirements are maintained. The types of labeling available are listed below along with a description of the type of sampling program where the labeling procedure is appropriate.

   a. Adhesive Labels:

Project # _____ Lab # _____

Sample Description _____

Date Collected _____ By _____

Preservative: HNO_3 H_2SO_4 NaOH None Other ____
Filtered Unfiltered

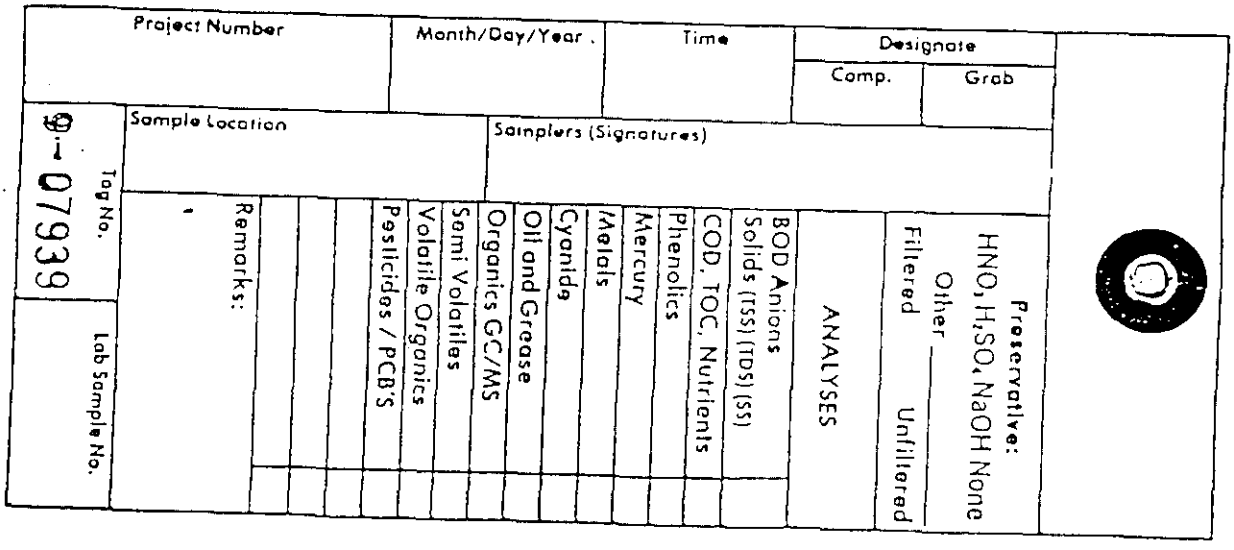
1. Adhesive labels are used to identify all samples collected by Warzyn personnel during field activities with the exception of samples

collected for submittal to laboratories through the U.S EPA Contract Laboratory Program (CLP) (federal lead investigations)).

2. The adhesive label should be affixed to the sample container prior to sample collection. Condensation may form on containers after filling which would make it difficult to adhere labels.

3. Fill in all the information on the label. Circle the type of preservation used and whether the sample is filtered or unfiltered. Other comments should be written on the label as necessary. Clear tape should be placed over the completed label if there is any possibility the label may get wet, exposed to the sample etc. Covering the label with clear tape will help insure the information on the label will not be lost.

b. Warzyn Sample Tag:



1. Sample tags can be used to identify samples collected by Warzyn personnel during field activities with the exception of sample

collected for submittal to laboratories through the U.S EPA CLP. The Warzyn sample tag is used with chain-of-custody documents, and reflects the maximum effort towards chain-of-custody requirements and legally defensible data.

2. Fill in all the information on the sample tags. Affix to the sample container by making a loop with the string and then tightening around the threads by the cap. Record the sample tag number on the chain-of-custody record (see Chain-of-Custody SOP).

c. **U.S EPA Sample Tag**

1. EPA sample tags are used to identify all samples collected under the U.S EPA Contract Laboratory Program. Tags are affixed to the bottles using a loop around the neck of the bottle. The information on the sample tag is filled in completely. Complete instructions are covered in the User's Guide to The Contract Laboratory Program.

3. **Sample Preparation Inorganic Water Samples:**

a. Dissolved constituents - filtering in the field is an essential part of a sample program when the concentration of dissolved inorganic constituents in a sample is required. Suspended materials in an unfiltered sample can react chemically or physically with the sample and change the concentration of some of the dissolved constituents. Samples must be filtered (when required) before adding acid/alkali preservatives so that absorbed ions are not put into solution, yielding artificially high concentrations.

b. The key to obtaining filtered samples that are representative of groundwater is to minimize subjecting the samples to changes in pressure and avoiding agitation of the sample. A loss of pressure will promote carbon dioxide degassing; an increase of pressure will increase the potential of gases dissolving into the sample. Agitation will both tend to

degas the carbon dioxide and dissolve other gases into the sample. Sample handling should minimize agitation.

c. **Filtered/Unfiltered Inorganic Water Samples:** Consult site specific sampling plans to determine what parameters require filtration. Filter the appropriate samples by following the procedures outlined in the Field Filtration of Samples SOP. Consult Table 1 for proper sample volumes and follow the preservation steps outlined below.

1. No preservative - rinse the sample container with a portion of sample. Fill the bottle to the shoulder minimizing aeration. Secure the sample container cap.

2. Acid preservation - rinse the sample container with a small portion of unpreserved sample. Discard the sample rinse. Fill the bottle to the shoulder with sample.

Nutrients:Add 2.0 mL or until pH <2 of 1:1 H_2SO_4 per 1000 mL of sample.
Metals:
Add 3.0 mL or until pH <2 of 1:1 HNO_3 per 1000 mL of sample.

Cap and invert to mix. Check the pH with pH paper to make sure the sample is properly preserved (pH <2). Do not dip the pH paper into the sample container. Tip the container to wet the inside of the lid and touch the pH paper to that. Adjust the pH further if necessary by adding more acid and mixing. Try not to add any more acid than necessary. Discard any sample remaining in the lid before replacing the cap on the container.

d. Alkali Preservation and Special Preservation Techniques:

1. **Cyanide Preservation:** Add 6N NaOH until the pH is ≥ 12.

2. **Sulfide Preservation:** Add 2 mL of 2N zinc acetate per 1000 mL of sample to an empty sample container. Do not add any excess zinc acetate, it will create a precipitate that is extremely difficult to analyze. Fill the sample container being careful to minimize aeration of the sample. Minimize headspace by filling the sample container completely, Add 5N NaOH until the pH ⟩ 9. Check pH as described before. Do not add excess NaOH.

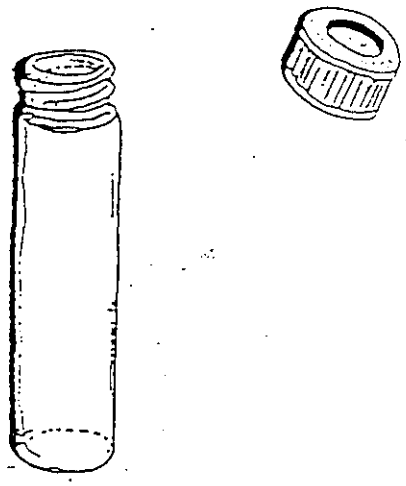
4. **Sample Preparation Organic Water Samples:**

a. Careful sampling techniques must be used to obtain a representative sample for analysis of volatile organic compounds (VOCs). As the name suggests, these compounds will volatilize from the water sample upon exposure to air. Therefore, this exposure time must be minimized.

b. When collecting the samples, liquids should be introduced into the vials gently to reduce agitation which might drive off volatile compounds. Liquid samples should be poured into the vial without introducing any air bubbles within the vial as it is being filled. Should bubbling occur as a result of violent pouring, the sample must be poured out and the vial refilled. Sample contamination may occur if the samples are exposed to a source of VOCs. Do not fill vials near a running motor or any type of exhaust system because discharged fumes and vapors may contaminate the samples. Add four drops of 1+1 HCL for VOC preservation. HCL may be added to the VOC vial either before or after the vial is filled with sample.

c. Collecting organic water samples:

1. Remove plastic cap and teflon coated septum being careful not to contact potential contaminants. If vial and/or cap appears to be defective, discard and use a new vial. The vial should be opened for a minimum amount of time. At least two (2) vials must be collected for each sample. (The number of VOC vials required may vary - consult site specific workplans.)



2. Preservatives (if necessary) can be added before or after filing the vial (consult Table 1).

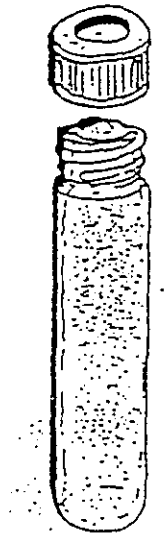
   a. Preserve samples which may contain residual chlorine with 1 crystal of sodium thiosulfate ($Na_2S_2O_3$) per vial.

   b. Samples that contain gasoline residuals **must** be preserved with 4 drops 1:1 hydrochloric acid (HCl).

   c. If either acrolein and acrylonitrile are to be analyzed, the pH should be adjusted to 4-5 with 1.0 hydrochloric acid (HCl).

   d. Leachate samples receiving no pH adjustments (leachate samples for VOCs are not preserved) must be analyzed within 7 days of sampling.

3. Carefully fill vial with aqueous sample until meniscus (mound of water) forms on top. Avoid agitating sample as this may cause a loss volatiles.



4. Carefully replace (teflon side down) the cap on meniscus. This will force a small amount of water off the top. Check the vial for air bubbles by inverting vial and tapping the side of the vial gently. Bubbles will rise to the top if present. If bubbles are present, remove cap and resample. Analysis of samples with air bubbles may not give representative results.

5. The vials from each sampling location should then be sealed in separate plastic bags to prevent cross-contamination between samples, particularly if the sampled waste is suspected of containing high levels of volatile organics. VOC samples may also be contaminated by diffusion of volatile organics through the septum during shipment and storage. To monitor possible contamination, a trip blank prepared from volatile organic free water should be carried throughout the sampling, storage, and shipping process.

5. Collection of Water Samples for Semi-Volatile Compounds:

a. Consult Table 1 for appropriate container(s). The sample containers should be of glass and have screw-top covers with teflon liners.

b. Properly fill out container label before filling with sample. Adhesive labels will not adhere to wet glass. Cover label with clear tape to insure label adhesion.

c. Remove cap from bottle and add appropriate preservative, if necessary. Consult Table 1 for appropriate preservatives.

d. Fill bottle to shoulder only. **Do not** fill to the top.

e. Cap bottle and invert gently to mix preservative if added.

6. **Solid Samples:**

a. Inorganic/Organic Analyses:

- Consult Table 1 for type and size of container for specific analyses.
- Fill sample container at least 3/4 full. Do not overfill or pack material into container. If the material is large aggregates of such a shape that it only occupies a portion of the container, fill additional containers until a volume of sample is collected sufficient for analyses which represents the integrity of the sample.

b. Volatile Organic Compounds:

Consult Table 1 for type and size of container for specific analyses.

1. The four oz. jar must not be opened prior to use. If the jar and/or cap appears to be defective, discard and use a new sample container. The container should be opened for a minimum of time.

2. VOA jars for samples with solid or semi-solid (sludges) matrices should be as completely filled as possible. The jars should be tapped slightly as they are filled to eliminate free air space. Two jars should be filled per sample location.

3. Wipe soil particles off from the jar lip and threads.

4. Securely replace cap, decontaminate the sample bottles, and immediately place container in a cooler with ice.

5. Store samples in a refrigerator or cooler if there is a delay in shipping to the laboratory.

SGW/ndj/GFP
[mad-sop-300]
12350/60000

TABLE 1

Sample Collection and Preservative Requirements

Water Parameter	Container, (size in mLs)		Preservation	Maximum Holding Time
Wet Chemistry				
Acidity	P	50	Cool, 4°C	14 days
Alkalinity	P	50	Cool, 4°C	14 days
BOD_5	P	1000	Cool, 4°C,unfiltered	24 hours
Boron	P	100	Cool, 4°C	28 days
Bromide	P	100	None Required	28 days
Carbon, Total Organic	P	50	Cool, 4°C, H_2SO_4 to pH<2	28 days
Chemical Oxygen Demand	P	50	Cool, 4°C, H_2SO_4 to pH<2	28 days
Chloride	P	25	None Required	28 days
Chlorine, Residual	P	250	None Required	Analyze Immediately
Cyanide, Amenable	P	1000	Cool, 4°C, NaOH to pH>12	14 days
Cyanide, Total	P	1000	Cool, 4°C, NaOH to pH>12	14 days
Fluoride	P	50	None Required	28 days
Hardness	P	25	HNO_3 to pH<2	6 months
Nitrogen, Ammonia	P	250	Cool, 4°C, H_2SO_4 to pH<2	28 days
Nitrogen, Nitrate	P	50	Cool, 4°C, H_2SO_4 to pH<2	28 days
Nitrogen, Nitrite	P	50	Cool, 4°C	48 hours
Nitrogen, Total Kjeldahl	P	500	Cool, 4°C, H_2SO_4 to pH<2	28 days
Nitrogen, Total Organic	P	500	Cool, 4°C, H_2SO_4 to pH<2	28 days
Oil and Grease (1)	G	1000	Cool, 4°C, H_2SO_4 to pH<2	28 days
pH	P	100	None Required	Analyze Immediately
Phenolics, Total	G	1000	Cool, 4°C, H_2SO_4 to pH<2	28 days
Phosphorous, Ortho	P	100	Filter Immediately, Cool 4°C	48 hours
Phosphorous, Total	P	100	Cool, 4°C, H_2SO_4 to pH<2	28 days
Silica, Dissolved	P	50	Cool, 4°C	28 days
Solids, Dissolved	P	100	Cool, 4°C	7 days
Solids, Settleable	P	1000	Cool, 4°C	48 hours
Solids, Suspended	P	250	Cool, 4°C,unfiltered	7 days
Solids, Total	P	100	Cool, 4°C	7 days
Solids, Volatile	P	100	Cool, 4°C	7 days
Specific Conductance	P	250	Cool, 4°C	28 days
Sulfate	P	50	Cool, 4°C	28 days
Sulfide	P	500	Cool, 4°C, add 2 mL 2N Zinc acetate/1000 mL plus NaOH to pH>9	7 days
Surfactant (MBAS)	P	1000	Cool, 4°C	48 hours
Thiocyanate	P	500	Cool, 4°C	
Total Organic Halides (TOX)	Amber Glass	250	Cool, 4°C,collect with no headspace	14 days
Turbidity	P	250	Cool, 4°C	48 hours
Metals				
Hexavalent Chromium	P	250	Cool, 4°C	24 hours
Mercury (2)	P	250	HNO_3 to pH<2	28 days
Additional Metals (see pg 13 for complete list):				
<10 Metals	P	250	HNO_3 to pH<2	6 months
≥10 Metals	P	500	HNO_3 to pH<2	6 months

TABLE 1

Sample Collection and Preservative Requirements

Water Parameter	Container, (size in mLs)		Preservation	Maximum Holding Time
Organics				
Gas Chromatography				
Volatile Organics (3)	VOC vial	(2 ea, 40)	Cool, 4°C	14 days
Phenols	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
Pesticides and PCBs	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
Pesticides	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
PCBs	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
Polynuclear Aromatics	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
Organophosphorus Pesticides	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
Chlorinated Herbicides	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
Total Hydrocarbon Screen	Amber glass*	(2 ea, 1L)	Cool, 4°C	7 days
GC/MS				
Priority Pollutants/HSL				
Volatiles	VOC vial	(2 ea, 40)	Cool, 4°C	
Semi-volatiles	Amber glass*	(2 ea, 1L)	Cool, 4°C	
Pesticides/PCBs	Amber glass*	(2 ea, 1L)	Cool, 4°C	
CLP Protocol				
Volatiles	VOC vial	(2 ea, 40)	Cool, 4°C	(4)
Semi-volatiles	Amber glass*	(2 ea, 1L)	Cool, 4°C	(5)
Pesticides/PCBs	Amber glass*	(2 ea, 1L)	Cool, 4°C	(5)
Radiological Tests				
Alpha, beta	P,G	(250)	HNO_3 to pH<2	6 months
Radium	P,G	(1 gal)	HNO_3 to pH<2	6 months
Bacterial Tests				
Coliform, Fecal and Total	P,G	250**	Cool, 4°C	6 hours
Fecal Streptococci	P,G	250**	Cool, 4°C	6 hours
Solids				
RCRA Classification	P,G	(3 ea,8oz)	Cool, 4°C	--
Volatile Organics	VOC jar	(1 4 oz)	Cool, 4°C	--
Semi-volatile Organics	G	(8 oz)	Cool, 4°C	--
Metals	P,G	(8 oz)	Cool, 4°C	--
Inorganics	P,G	(8 oz)	Cool, 4°C	--

(1) Must be a separate bottle from all other analyses.

(2) Mercury and the additional metals may be collected in the same sample container (just add sample requirement to get appropriate container size).

(3) 4 drops 1:1 HCL may be added as preservative - Contract dependent.

(4) Analyze within 7 days of sampling date.

(5) Extract within 5 days VTSR - waters, 10 days VTSR - soils, analyzed within 40 days following extraction.

* Teflon-lined bottle caps.
** Use sterilized whirl-pak bag.

APPENDIX E

APPENDIX E

Summary of Laboratory Analytical Methods

MONTGOMERY WATSON
Analytical Testing Services

University Research Park
One Science Court
Madison, Wisconsin 53711
Tel: 608 231 4747 • Fax: 608 231 4777

METHOD REFERENCES

Analytes	Aqueous	Non-Aqueous
Acidity	305.2	-
Alkalinity, Total	310.1 / 310.2	-
Alkalinity, Phenolphthalein	SM2320	-
Alkalinity, Bicarbonate	SM2320	-
Alkalinity, Carbonate	SM2320	-
BOD-5 day	SM5210,4500-0	-
Carbon, Percent Organic	-	29-3.5.3
Carbon, Total Organic (TOC)	415.1	-
Chloride	325.2	-
Chlorine, Residual	330.3	-
Chromium, Hexavalent	SM3500D	-
COD	410.4	-
Cyanide, Total	335.3	9012
Cyanide, Amenable	335.1	9012
Cyanide, Reactive	SW7.3	SW7.3
Density	SM2710F	SM2710F
Flashpoint, Closed Cup	SW1010	SW1010
Flashpoint, Open Cup	ASTMD4206	ASTMD4206
Fluoride	340.2	-
Hardness, Total	130.1	-
Nitrogen, Ammonia	350.2	350.2
Nitrogen, Nitrate	353.2	-
Nitrogen, Nitrite	353.2	-
Nitrogen, Nitrate + Nitrite	353.2	-
Nitrogen, Total Kjeldahl (TKN)	351.3	351.3
Nitrogen, Total Organic (TON)	350.2 & 351.3	350.2 & 351.3
Oil & grease	413.1	9071
Oil & grease (Polar)	413.1	9071
Oil & grease (Non-polar)	5520F	-
Paint Filter Test	9095	9095
pH	150.1	9045
Phenol, Total	420.2	9066
Phosphorus, Total	365.1	365.1
Phosphorus, Ortho	365.2	-
Solids, Total	160.3	160.3
Solids, Total Dissolved	160.1	-
Solids, Total Suspended	160.2	-
Solids, Total Volatile	160.4	-
Solids, Total Volatile Suspended	160.4	-
Specific Conductance	120.1	-
Specific Weight	SM2710F	SM2710F
Sulfate	375.2	-
Sulfide, Total	376.1	9030
Sulfide, Reactive	SW7.3	SW7.3
Sulfite	377.1	-
Turbidity	180.1	-
TRPH	418.1 & 9073	418.1 & 9073

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

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METHOD REFERENCES

	Soil/Groundwater				Wastewater			
Analytes	**ICP**	**Flame**	**Furnace**	**CV**	**ICP**	**Flame**	**Furnace**	**CV**
Aluminium	6010	7020	-	-	200.7	202.1	-	-
Antimony	6010	7040	7041	-	200.7	-	204.2	-
Arsenic	6010	-	7060	-	200.7	-	206.2	-
Barium	6010	7080	7081	-	200.7	208.1	208.2	-
Beryllium	6010	7090	7091	-	200.7	210.1	210.2	-
Boron	6010	-	-	-	200.7	-	-	-
Cadmium	6010	7130	7131	-	200.7	213.1	213.2	-
Calcium	6010	7140		-	200.7	215.1	-	-
Chromium, Total	6010	7190	7191	-	200.7	218.1	218.2	-
Cobalt	6010	7200	-	-	200.7	219.1	-	-
Copper	6010	7210	-	-	200.7	220.1	-	-
Iron	6010	7380	-	-	200.7	236.1	-	-
Lead	6010	7420	7421	-	200.7	239.1	239.2	-
Magnesium	6010	7450	-	-	200.7	242.1	-	-
Manganese	6010	7460	-	-	200.7	243.1	-	-
Mercury	-	-	-	7470/7471				245.1
Molybdenum	6010	7480	-	-	200.7	246.1	-	-
Nickel	6010	7520	-	-	200.7	249.1	-	-
Potassium	-	SM3500D	-	-	-	SM3500D	-	-
Selenium	6010	-	7740	-	200.7	-	270.2	-
Silver	6010	7760	7761	-	200.7	272.1	272.2	-
Sodium	6010	SM3500D	-	-	200.7	SM3500D	-	-
Strontium	6010	-	-	-	200.7	-	-	-
Thallium	6010	7840	7841	-	200.7	279.1	279.2	-
Tin	6010	-	-	-	200.7	-	-	-
Titanium	6010	-	-	-	200.7	-	-	-
Vanadium	6010	7910	7911	-	200.7	286.1	286.2	-
Zinc	6010	7950	-	-	200.7	289.1	-	-

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Chemical Analysis of Water and Wastes", March 1984.

Standard Methods for the Examination of Water and Wastewater", 17th Edition, 1989.

MONTGOMERY WATSON
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METHOD REFERENCES

Compounds	Soil/Groundwater	Wastewater
Alcohol	8015*	8015*
BEXT	8020***	602
DRO	Modified DRO	Modified DRO
GRO	Modified GRO***	Modified GRO
Herbicides	8150	8150
Pesticides	8080	608
Pesticide/PCBs	8080	608
PCBs	8080**	608
PCBs	8080****	608
PCP Screen	8040****	8040****
PNA (GC/MS)	8270	8270
PNA (HPLC)	8310	8310
PVOCs	8020***	8020
SVOCs	8270	8270
TPH	D-3328-78*	D-3328-78*
TRPH	418.1 & 9073	418.1 & 9073
VOCs	8021	8021
VOCs	8010/8020***	601/602
Solids, Total	160.3	160.3

SW846, "Test Methods for Evaluating Solid Waste", 3rd Ed., December 1987.

EPA-600, "Methods for Organic Chemical Analysis of Water and Wastes", March, 1984.

ASTM, "Annual Book of ASTM Standards", 1990.

Wisconsin DNR Modified 9073 TRPH, PUBL-SW-140, Wisconsin DNR, April 1992.

Wisconsin DNR Modified DRO, PUBL-SW-141, Wisconsin DNR, July 1993.

Wisconsin DNR Modified GRO, PUBL-SW-140, Wisconsin DNR, July 1993.

* With Modifications
** With Modfications for Oil Matrix
*** With Modfications for Soil Gas Matrix
**** With Modifications for Wipe Matrix