



STATE OF MAINE
 DEPARTMENT OF HUMAN SERVICES
 BUREAU OF HEALTH, DIVISION OF HEALTH ENGINEERING
 161 CAPITOL STREET
 11 STATE HOUSE STATION
 AUGUSTA, MAINE
 04333-0011

JOHN ELIAS BALDACCI
 GOVERNOR

JOHN R. NICHOLAS
 COMMISSIONER

July 14, 2004

Knight Treatment Systems
 Attn: Jay Knight, President
 281 County Route 51A
 Oswego, NY 13126

Subject: Revised Product Registration, Knight Treatment Systems *White Knight*

Dear Mr. Knight:

Product Description

The Knight Treatment Systems *White Knight* consists of a 12 inch diameter plastic tube within which is a four inch diameter plastic tube. The space between the tubes is filled with loose spherical plastic media. A remote air pump feeds air to a proprietary diffuser beneath the cusped plates. A biological film is generated, which adheres to the plastic media and provides treatment of the water-borne contaminants. An outlet filter prevents solids carryover. The Knight Treatment Systems *White Knight* is inserted into conventional septic tanks, and a proprietary inoculant is introduced at regular intervals.

Claim

According to the information in our files, the Knight Treatment Systems *White Knight* significantly reduces nitrate and BOD₅ levels; reduces suspended solids in the effluent; and rejuvenates biologically clogged disposal areas by application of low-nutrient, effluent with relatively high levels of dissolved oxygen. You have submitted additional data demonstrating that ponding in disposal areas is reduced, thereby restoring the absorptive capacity of the disposal area. Ref.: Letter dated 5/20/04 with enclosures. Although the combined BOD₅ and TSS exceed the reduction limits from Table 603.1 of the Subsurface Wastewater Disposal Rules, you have previously supplied data demonstrating that these levels represent aerobic microorganisms rather than untreated waste. On this basis you have requested a 50% design flow reduction for first time and replacement systems utilizing the Knight Treatment Systems *White Knight*.

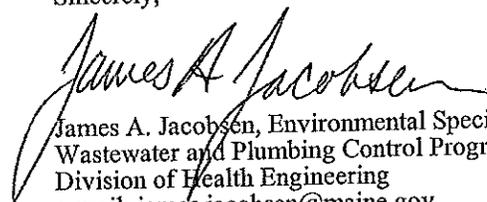
Determination

On the basis of the foregoing, the Division has determined that the Knight Treatment Systems *White Knight* is allowed a design flow reduction adjustment of 50%, provided that it is installed, operated, and maintained in conformance with the manufacturer's directions and Purchase/Installation Agreement.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of Knight Treatment Systems *White Knight*. Further, registration of this product for use in the State of Maine does not represent Division preference or recommendation for this product over similar products.

This letter supersedes the letter dated July 7, 2004. If you have any questions please feel free to contact me at (207) 287-5695.

Sincerely,



James A. Jacobsen, Environmental Specialist IV
 Wastewater and Plumbing Control Program
 Division of Health Engineering
 e-mail: james.jacobsen@maine.gov

/jaj
 xc: Product File
 Septic Preservation Services.



A C O R N

ENGINEERING

September 16, 2002

Mr. James Jacobsen
DHS-DHE
10 State House Station
Augusta, ME 04333-0010

OK Jim



Dear Jim:

Subject: Envirocheck Microbial Generator Performance Data, 3rd Quarter

Please find enclosed the second quarter's data for the units installed to date. You will find the data arranged in two manners. One way is by site. The second is by month with all the sites active at the time listed on one sheet.

Please let me know if there is any additional information I can provide.

Very Truly Yours

Hugh P. Savage

Hugh P. Savage, PE
Acom Engineering

CC: Stephen O'Connor, Envirocheck
Dana Darling, Envirocheck

Data by Site



| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|---|-------------|--------------|-------------------------------|-----------------|--------------------------------------|----------------------------|
| Serial # | | | | | | | |
| Date of Installation | | | | | | | |
| Point of sampling | | | | | | | |
| | | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/10/2001 | 38 | 420 | 18 | 35 | AD30695 |
| 2 | Jan | 1/16/2002 | 13 | 980 | 17 | 35 | AE00334 |
| 3 | Feb | 2/12/2002 | 18 | 8 | 16 | 27 | AE01048 |
| 4 | Mar | 3/13/2002 | 20 | 720 | 12 | 18 | AE01939 |
| 5 | Apr | 4/18/2002 | 25 | 60 | 18 | 11 | AE03471 |
| 6 | May | 5/30/2002 | 110 | 16,000 | <0.5 | 33 | AE05326 |
| 7 | Jun | 6/17/2002 | <2 | 44,000 | 5.1 | 28 | AE06075 Note 4, 10x |
| 8 | Jul | 7/18/2002 | 30 | 310,000 | 14 | 24 | AE07355 Note 4, 10x |
| 9 | Aug | 8/28/2002 | >94 | 3,400 | 22 | 160 | AE08811 Note 4, 25X Note 6 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| Note 6 | Sample stronger than anticipated. BOD could not be brought into analysis range. | | | | | | |

Envirocheck Microbial Generator Performance Data

Serial # ENV01050701
 Date of Installation 7-May-01
 Point of sampling Leach Field

| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
|---------|-------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------------------|
| 1 | Dec | 12/19/2001 | 56 | 30,000 | 4.3 | 48 | AD31033 |
| 2 | Jan | 1/21/2002 | 25 | 9,300 | 1.5 | 38 | AE00426 |
| 3 | Feb | 2/20/2002 | 36 | 6,800 | 0.56 | 58 | AE01260 |
| 4 | Mar | 3/28/2002 | <2 | 43,000 | 0.74 | 34 | AE02513 |
| 5 | Apr | 4/25/2002 | 42 | 4,700 | 6.0 | 20 | AE03735 |
| 6 | May | 5/24/2002 | 35 | 61,000 | 35 | 25 | AE05137 Note 4, 25X |
| 7 | Jun | 6/14/2002 | 32 | 1,300 | 12 | 19 | AE06013 Note 4, 10x |
| 8 | Jul | 7/29/2002 | 100 | 24,000 | <0.5 | 260 | AE07819 |
| 9 | Aug | 8/13/2002 | 380 | 350,000 | 1.2 | 910 | AE08365 Note 5, 5X |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.

Note 5 Reporting limit increased as noted for NO3 to account for dilution factor.

Sample comprised of all nitrite so the nitrate value was as noted.

Envirocheck Microbial Generator Performance Data

| Serial # | ENV01050901 | | | | | | |
|----------------------|-------------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Date of Installation | 9-May-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coil CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/28/2001 | 88 | 4,000 | 6.4 | 130 | AD31217 |
| 2 | Jan | 1/21/2002 | 61 | 29,000 | 1.0 | 110 | AE00423 |
| 3 | Feb | 2/20/2002 | 60 | 2,900 | 1.2 | 89 | AE01258 |
| 4 | Mar | 3/28/2002 | 73 | 5,400 | 2.5 | 110 | AE02516 |
| 5 | Apr | 4/25/2002 | 66 | 6,400 | 4.3 | 24 | AE03736 |
| 6 | May | 5/24/2002 | 56 | 5,600 | 8.1 | 53 | AE05136 |
| 7 | Jun | 6/14/2002 | 36 | 650 | 11 | 47 | AE06012 |
| 8 | Jul | 7/22/2002 | 410 | 160,000 | 15 | 950 | AE07496 |
| 9 | Aug | 8/13/2002 | 540 | 180,000 | ~0 | 1600 | AE08362 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.

Note 5 Reporting limit increased as noted for NO3 to account for dilution factor.

Sample comprised of all nitrite so the nitrate value was essentially zero.

Envirocheck Microbial Generator Performance Data

| | |
|----------------------|-------------|
| Serial # | ENV01051101 |
| Date of Installation | 11-May-01 |
| Point of sampling | Leach Field |

| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
|---------|-------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| 1 | Dec | 12/28/2001 | 460 | 14,000,000 | <0.5 | 210 | AD31218 |
| 2 | Jan | 1/21/2002 | 190 | 110,000 | <0.5 | 160 | AE00427 |
| 3 | Feb | 2/20/2002 | 120 | 250,000 | <0.5 | 190 | AE01263 |
| 4 | Mar | 3/28/2002 | 220 | 73,000 | <0.5 | 220 | AE02511 |
| 5 | Apr | 4/25/2002 | 250 | 300,000 | 2.3 | 230 | AE03731 |
| 6 | May | 5/24/2002 | 65 | 3,000 | 72 | 50 | AE05132 |
| 7 | Jun | 6/14/2002 | 56 | 700,000 | <25 | 24 | AE06014 |
| 8 | Jul | 7/22/2002 | 31 | 35,000 | 7.9 | 44 | AE07499 |
| 9 | Aug | 8/13/2002 | 12 | 280,000 | 59 | 22 | AE08363 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.

Note 5 Reporting limit increased as noted for NO3 to account for dilution factor.

Sample comprised of all nitrite so the nitrate value was essentially zero

Envirocheck Microbial Generator Performance Data

Serial # ENV01051401
 Date of Installation 14-May-01
 Point of sampling Leach Field

| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
|--------|-------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------------------|
| 1 | Jan | 1/25/2002 | 41 | 52,000 | 6.6 | 16 | AE00594 |
| 2 | Feb | 2/27/2002 | 14 | 9,700 | 1.1 | 13 | AE01488 |
| 3 | Mar | 3/27/2002 | 5 | 104,000 | 2.0 | 30 | AE02390 Note 1 |
| 4 | Apr | 4/24/2002 | 14 | 2,000 | 22 | 17 | AE03470 |
| 5 | May | 5/13/2002 | 9.0 | 744 | 21 | 14 | AE04636 Note 4, 10X |
| 6 | Jun | 6/19/2002 | <2 | 480 | 19 | 7.0 | AE06261 |
| 7 | Jul | 7/17/2002 | 10 | 1,800 | 19 | 4.0 | AE07249 Note 4, 25x |
| 8 | Aug | 8/22/2002 | 300 | 3,700 | 12 | 3000 | AE08710 Note 4, 10X |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |

Average

Note 1 Lab reported BOD may be biased due to possible contamination in sample bottles.

Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.

Envirocheck Microbial Generator Performance Data

| Serial # | | ENV01051601 | | | | | |
|----------------------|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Date of Installation | | 16-May-01 | | | | | |
| Point of sampling | | Leach Field | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/28/2001 | 34 | 8,900 | <0.5 | 17 | AD31215 |
| 2 | Jan | 1/24/2002 | 56 | 260,000 | <0.5 | 26 | AE00548 |
| 3 | Feb | 2/12/2002 | 12 | 28,000 | <0.5 | 39 | AE01044 |
| 4 | Mar | 3/14/2002 | 24 | 6,100 | <0.5 | 23 | AE02048 |
| 5 | Apr | 4/23/2002 | 31 | 1,400 | <0.5 | 13 | AE03609 |
| 6 | May | 5/28/2002 | 18 | 4,000 | <12.5 | 20 | AE05226 |
| 7 | Jun | 6/25/2002 | 82 | 250 | <12 | 150 | AE06409 |
| 8 | Jul | 7/22/2002 | 130 | 160,000 | <0.5 | 270 | AE07494 |
| 9 | Aug | 8/14/2002 | 150 | 1,900 | 0.82 | 320 | AE08429 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | | | | | |
| Date of Installation | | | 16-May-01 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/28/2001 | 8 | 11,000 | <0.5 | 5 | AD31216 |
| 2 | Jan | 1/24/2002 | 31 | 9,700 | <0.5 | 6 | AE00549 |
| 3 | Feb | 2/12/2002 | 16 | 4,200 | <0.5 | 11 | AE01047 |
| 4 | Mar | 3/14/2002 | 11 | 128 | <0.5 | 2.0 | AE02044 |
| 5 | Apr | 4/23/2002 | 57 | 260,000 | <0.5 | 2.0 | AE03608 |
| 6 | May | 5/28/2002 | 34 | 1,100 | <0.5 | 12 | AE05224 |
| 7 | Jun | 6/25/2002 | 23 | 900 | <0.5 | 19 | AE06407 |
| 8 | Jul | 7/22/2002 | 64 | 1,100 | <0.5 | 60 | AE07501 |
| 9 | Aug | 8/14/2002 | 32 | 9,300 | <0.5 | 54 | AE08430 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01061101 | | | | | | |
| Date of Installation | 11-Jun-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/26/2001 | 50 | 6,800,000 | 16 | 25 | AD31119 |
| 2 | Jan | 1/24/2002 | 60 | 640,000 | 13 | 36 | AE00552 |
| 3 | Feb | 2/15/2002 | 29 | 1,200,000 | 18 | 27 | AE01189 |
| 4 | Mar | 3/28/2002 | 11 | 750,000 | 14 | 16 | AE02509 |
| 5 | Apr | 4/25/2002 | 20 | 3,400 | 4.5 | 4.0 | AE03733 |
| 6 | May | 5/29/2002 | 10 | 202 | 9.6 | 11 | AE05260 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|---|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01061301 | | | | | | |
| Date of Installation | 13-Jun-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/21/2001 | 29 | 12 | 0.56 | 25 | AD31088 |
| 2 | Jan | 1/22/2002 | 22 | 332 | <0.5 | 15 | AE00467 |
| 3 | Feb | 2/28/2002 | 53 | 77 | <0.5 | 28 | AE01559 |
| 4 | Mar | 3/14/2002 | 29 | 360 | 3.8 | 15 | AE02040 |
| 5 | Apr | 4/22/2002 | 46 | 225 | <0.5 | 19 | AE03565 |
| 6 | May | 5/28/2002 | 52 | 78 | <0.5 | 23 | AE05223 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 2 | Nitrate analysis performed outside of 48 hour holding time. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|-------------|--------------|---------|------------------------|---------|
| Serial # | | | ENV01062501 | | | | |
| Date of Installation | | | 25-Jun-01 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/28/2001 | 120 | 2,100 | <0.5 | 61 | AD31214 |
| 2 | Jan | 1/16/2002 | 170 | 42,000 | <0.5 | 140 | AE00332 |
| 3 | Feb | 2/14/2002 | 63 | 290,000 | <0.5 | 31 | AE01129 |
| 4 | Mar | 3/22/2002 | 88 | 88,000 | <0.5 | 38 | AE02304 |
| 5 | Apr | 4/30/2002 | 130 | 103,000 | <0.5 | 57 | AE03993 |
| 6 | May | 5/30/2002 | 94 | 171,000 | <0.5 | 110 | AE05333 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV01073001 | | | | | | |
| Date of Installation | 30-Jul-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/26/2001 | 370 | 1,700,000 | <0.5 | 170 | AD31117 |
| 2 | Jan | 1/23/2002 | 290 | <2,000,000 | <0.5 | 120 | AE00494 |
| 3 | Feb | 2/27/2002 | 290 | 650,000 | <0.5 | 73 | AE01487 |
| 4 | Mar | 3/27/2002 | 190 | 530,000 | <0.5 | 65 | AE02395 |
| 5 | Apr | 4/24/2002 | 210 | 650,000 | <0.5 | 69 | AE03667 |
| 6 | May | 5/17/2002 | 160 | 1,500,000 | <0.5 | 45 | AE04899 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | | | | | |
| Date of Installation | | | 8-Oct-01 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/21/2001 | 29 | 1,000 | 0.96 | 16 | AD31087 |
| 2 | Jan | 1/15/2002 | 59 | 5,500 | <0.5 | 40 | AE00300 |
| 3 | Feb | 2/12/2002 | 84 | 220,000 | <0.5 | 30 | AE01045 |
| 4 | Mar | 3/13/2002 | 66 | 496 | <0.5 | 16 | AE01936 |
| 5 | Apr | 4/18/2002 | 33 | 4,300 | <0.5 | 11 | AE03468 |
| 6 | May | 5/30/2002 | 64 | 21,000 | <0.5 | 11 | AE05327 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|----------|
| Serial # | ENV01100901 | | | | | | |
| Date of Installation | 9-Oct-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/15/2002 | 180 | 8,300 | <0.5 | 210 | AE00299 |
| 2 | Feb | 2/14/2002 | 76 | 2,900 | 0.92 | 63 | AE 01130 |
| 3 | Mar | 3/14/2002 | 72 | 288 | <0.5 | 42 | AE02042 |
| 4 | Apr | 4/24/2002 | 130 | 9,300 | 0.72 | 31 | AE03674 |
| 5 | May | 30-May | 130 | 6,700 | 0.65 | 68 | AE05325 |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV01101101 | | | | | | |
| Date of Installation | 11-Oct-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/17/2001 | 54 | 6,700 | <0.5 | 130 | AD30945 |
| 2 | Jan | 1/18/2002 | 22 | 23,000 | <0.5 | 37 | AE00411 |
| 3 | Feb | 2/13/2002 | 21 | 28,000 | <0.5 | 26 | AE01077 |
| 4 | Mar | 3/20/2002 | 16 | 86,000 | <0.5 | 24 | AE02211 |
| 5 | Apr | 4/17/2002 | 48 | 31,000 | <0.5 | 88 | AE03361 |
| 6 | May | 5/23/2002 | 49 | 85,000 | 3.2 | 80 | AE05088 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

Note 4, 5X

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV01102401 | | | | | | |
| Date of Installation | 24-Oct-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/19/2001 | 82 | 37,000 | <0.5 | 66 | AD31034 |
| 2 | Jan | 1/21/2002 | 110 | 230,000 | <0.5 | 100 | AE00425 |
| 3 | Feb | 2/20/2002 | 100 | 440,000 | <0.5 | 58 | AE01262 |
| 4 | Mar | 3/20/2002 | 89 | 8,200 | <0.5 | 58 | AE02209 |
| 5 | Apr | 4/30/2002 | 83 | 144,000 | <0.5 | 38 | AE03994 |
| 6 | May | 5/24/2002 | 51 | 310,000 | <0.5 | 24 | AE05131 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|---|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|------------|
| Serial # | ENV01110201 | | | | | | | |
| Date of Installation | 37197 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | Dec | 12/13/2001 | 46 | 530 | <0.5 | 76 | AD30878 | |
| 2 | Jan | 1/25/2002 | 65 | 2,400 | <0.5 | 17 | AE00595 | |
| 3 | Feb | 2/27/2002 | 19 | 2,300 | <0.5 | 22 | AE01490 | |
| 4 | Mar | 3/27/2002 | 5.0 | 47,000 | <0.5 | 52 | AE02392 | Note 1 |
| 5 | Apr | 4/24/2002 | 79 | 410,000 | 0.51 | 38 | AE03677 | |
| 6 | May | 5/28/2002 | 41 | 10,000 | <2.5 | 36 | AE05225 | Note 4, 5X |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV01111301 | | | | | | |
| Date of Installation | 13-Nov-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/10/2001 | 190 | 420,000 | <0.5 | 600 | AD30696 |
| 2 | Jan | 1/15/2002 | 63 | 33,000 | <0.5 | 57 | AE00301 |
| 3 | Feb | 2/12/2002 | 90 | 100,000 | <0.5 | 59 | AE01046 |
| 4 | Mar | 3/13/2002 | 75 | 13,200 | <0.5 | 19 | AE01937 |
| 5 | Apr | 4/18/2002 | 38 | 16,000 | <0.5 | 25 | AE03468 |
| 6 | May | 5/30/2002 | 70 | 3,200 | 5.8 | 23 | AE05330 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|---|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|----------|
| Serial # | ENV01111401 | | | | | | | |
| Date of Installation | 14-Nov-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | Dec | 12/26/2001 | 56 | 24,000 | 0.82 | 44 | AD31116 | |
| 2 | Jan | 1/22/2002 | 42 | 4,200 | 1.3 | 21 | AE00469 | |
| 3 | Feb | 2/28/2002 | 40 | 91,000 | 0.61 | 170 | AE01556 | |
| 4 | Mar | 3/27/2002 | <2 | 16,000 | 1.0 | 55 | AE02394 | Note 1 |
| 5 | Apr | 4/24/2002 | 49 | 137,000 | 2.7 | 82 | AE03671 | |
| 6 | May | 5/21/2002 | 28 | 530,000 | 6.3 | 26 | AE04962 | Note, 5X |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV01111501 | | | | | | |
| Date of Installation | 15-Nov-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/26/2001 | 78 | 1,080 | <0.5 | 34 | AD31115 |
| 2 | Jan | 1/24/2002 | 35 | 12,000 | <0.5 | 32 | AE00551 |
| 3 | Feb | 2/15/2002 | 38 | 110,000 | <0.5 | 20 | AE01188 |
| 4 | Mar | 3/28/2002 | 51 | 6,600 | <0.5 | 4.0 | AE02515 |
| 5 | Apr | 4/25/2002 | 57 | 225 | <0.5 | 12 | AE02732 |
| 6 | May | 5/29/2002 | 41 | 800 | <0.5 | 11 | AE05259 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------------|-------------|--------------|---------|------------------------|---------|
| Serial # | | | | | | | |
| Date of Installation | | | ENV01111901 | | | | |
| Point of sampling | | | 19-Nov-01 | | | | |
| | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/26/2001 | 100 | 6,400 | <0.5 | 38 | AD31118 |
| 2 | Jan | 1/22/2002 | 190 | 310,000 | <0.5 | 27 | AE00468 |
| 3 | Feb | None: Frozen line | | | | | |
| 4 | Mar | 3/27/2002 | 35 | 2,800 | <0.5 | 94 | AE02396 |
| 5 | Apr | 4/24/2002 | >82 | 375 | <0.5 | 74 | AE03732 |
| 6 | May | 5/17/2002 | 140 | 45,000 | <0.5 | 54 | AE04898 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 3 | Error in dilution for BOD analysis. Value was estimated. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------------------|
| Serial # | ENV01112801 | | | | | | |
| Date of Installation | 28-Nov-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/23/2002 | 39 | 520 | <0.5 | 52 | AE00493 |
| 2 | Feb | 2/28/2002 | 11 | 6 | <0.5 | 13 | AE01558 |
| 3 | Mar | 3/14/2002 | 8 | 12 | <0.5 | 10 | AE02046 |
| 4 | Apr | 4/22/2002 | 4 | <20 | 29 | 12 | AE03566 Note 2 |
| 5 | May | 5/28/2002 | 2.0 | <2 | 8.4 | 20 | AE05228 Note 4, 10X |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 2 | Nitrate analysis performed outside of 48 hour holding time. | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|----------------|
| Serial # | ENV01121101 | | | | | | |
| Date of Installation | 11-Dec-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/23/2002 | 66 | 1,600 | <0.5 | 27 | AE00495 |
| 2 | Feb | 2/28/2002 | 57 | 38,000 | <0.5 | 48 | AE01557 |
| 3 | Mar | 3/14/2002 | 49 | 1,260,000 | <0.5 | 17 | AE02041 |
| 4 | Apr | 4/24/2002 | >82 | 550,000 | <0.5 | 47 | AE03666 Note 3 |
| 5 | May | 5/17/2002 | 54 | 460,000 | <0.5 | 30 | AE04897 |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 3 | Error in dilution for BOD analysis. Value was estimated. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01121401 | | | | | | |
| Date of Installation | 14-Dec-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/21/2002 | 80 | 67,000 | <0.5 | 71 | AE00422 |
| 2 | Feb | 2/22/2002 | 120 | 980,000 | <0.5 | 38 | AE01377 |
| 3 | Mar | 3/28/2002 | 67 | 54,000 | <0.5 | 60 | AE02514 |
| 4 | Apr | 4/30/2002 | 170 | 250,000 | <0.5 | 110 | AE03997 |
| 5 | may | 5/24/2002 | 110 | 110,000 | <0.5 | 94 | AE05135 |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV01122001 | | | | | | |
| Date of Installation | 20-Dec-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/21/2002 | 110 | 68,000 | <0.5 | 64 | AE00421 |
| 2 | Feb | 2/13/2002 | 90 | 640,000 | <0.5 | 160 | AE01076 |
| 3 | Mar | 3/28/2002 | 98 | 66,000 | <0.5 | 74 | AE02510 |
| 4 | Apr | 4/23/2002 | 140 | 12,100 | <0.5 | 39 | AE03610 |
| 5 | May | 5/16/2002 | 110 | 150,000 | <0.5 | 54 | AE04854 |
| 6 | | | | | | | |
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| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|---|-------------|------|------------|---------|------------------------|---------|--------|
| Serial # | ENV01122401 | | | | | | | |
| Date of Installation | 12/24/01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID | |
| | | | mg/l | CFU 100mL | mg/l | mg/l | | |
| 1 | Jan | 1/23/2002 | 62 | 1,400 | <0.5 | 27 | AE00496 | |
| 2 | Feb | 2/27/2002 | 38 | 13,000 | <0.5 | 55 | AE01489 | |
| 3 | Mar | 3/27/2002 | 5 | 640 | <0.5 | 24 | AE02393 | Note 1 |
| 4 | Apr | 4/24/2002 | 63 | 1,600 | <0.5 | 18 | AE03673 | |
| 5 | May | 5/21/2002 | 27 | 6,700 | 0.67 | 28 | AE04964 | |
| 6 | | | | | | | | |
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| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|---|-------------|--------------|-------------------------------|-----------------|--------------------------------------|--------------------|
| Serial # | ENV02012501 | | | | | | |
| Date of Installation | 25-Jan-02 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Feb | 2/27/2002 | 44 | 46,000 | <0.5 | 18 | AE01486 |
| 2 | Mar | 3/27/2002 | 14 | 2,400 | <0.5 | 16 | AE02391 Note 1 |
| 3 | Apr | 4/24/2002 | 58 | 5,500 | <0.5 | 12 | AE03676 |
| 4 | May | 5/21/2002 | 23 | 9,500 | 5.0 | 36 | AE04963 Note 4, 5X |
| 5 | | | | | | | |
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| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|-------------|
| Serial # | | | 02031901 | | | | |
| Date of Installation | | | 19-Mar-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Apr | 4/24/2002 | 52 | 3,400 | 1.5 | 22 | AE03669 |
| 2 | May | 5/28/2002 | 32 | 18,000 | <12.5 | 24 | AE05227 |
| 3 | | | | | | | Note 4, 25X |
| 4 | | | | | | | |
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| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|-------------|--------------|---------|------------------------|---------|
| Serial # | | | 02032001 | | | | |
| Date of Installation | | | 20-Mar-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Apr | 4/29/2002 | 35 | 60 | <0.5 | 32 | AE03915 |
| 2 | May | 5/30/2002 | 85 | 1,100,000 | <0.5 | 80 | AE05332 |
| 3 | | | | | | | |
| 4 | | | | | | | |
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| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | | | 02032901 | | | | |
| Date of Installation | | | 29-Mar-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Apr | 4/29/2002 | 290 | 150,000 | <0.5 | 320 | AE03914 |
| 2 | May | 5/23/2002 | 680 | 1,200,000 | <0.5 | 990 | AE05089 |
| 3 | | | | | | | |
| 4 | | | | | | | |
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| 7 | | | | | | | |
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| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|-------------|----------------------------|---------|------------------------|---------|
| Serial # | | | 02040201 | | | | |
| Date of Installation | | | 2-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli CFU 100mL | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | | mg/l | mg/l | |
| 1 | May | 5/22/2002 | 140 | 860,000 | <0.5 | 230 | AE05008 |
| 2 | | | | | | | |
| 3 | | | | | | | |
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| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|--------|
| Serial # | | | 02041001 | | | | |
| Date of Installation | | | 10-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | May | 5/24/2002 | 300 | 100,000 | <0.5 | 440 | |
| 2 | | | | | | | |
| 3 | | | | | | | |
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| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | | | 02041201 | | | | |
| Date of Installation | | | 12-Apr-03 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | may | 5/30/2002 | 380 | 100,000 | <0.5 | 1300 | AE05324 |
| 2 | | | | | | | |
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| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | 02041701 | | | | |
| Date of Installation | | | 17-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | May | 5/22/2002 | 1200 | 56,000 | <0.5 | 4100 | AE05009 |
| 2 | | | | | | | |
| 3 | | | | | | | |
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| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | 02041801 | | | | |
| Date of Installation | | | 18-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | May | 5/30/2002 | 130 | 5,400,000 | <0.5 | 97 | AE05328 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
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| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

Data by Month

March 2002

Envirocheck Microbial Generator Data Summary

| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
|----------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|----------------|
| 01050401 | 3/13/2002 | 20 | 720 | 12 | 18 | AE01939 |
| 01050701 | 3/28/2002 | <2 | 43,000 | 0.74 | 34 | AE02513 |
| 01050901 | 3/28/2002 | 73 | 5,400 | 2.5 | 110 | AE02516 |
| 01051101 | 3/28/2002 | 220 | 73,000 | <0.5 | 220 | AE02511 |
| 01051401 | 3/27/2002 | 5 | 104,000 | 2.0 | 30 | AE02390 Note 1 |
| 01051601 | 3/14/2002 | 24 | 6,100 | <0.5 | 23 | AE02048 |
| 01051602 | 3/14/2002 | 11 | 128 | <0.5 | 2.0 | AE02044 |
| 01060401 | 3/20/2002 | 68 | 265 | 2.5 | 150 | AE02212 |
| 01061101 | 3/28/2002 | 11 | 750,000 | 14 | 16 | AE02509 |
| 01061301 | 3/14/2002 | 29 | 360 | 3.8 | 15 | AE02040 |
| 01062501 | 3/22/2002 | 88 | 88,000 | <0.5 | 38 | AE02304 |
| 01073001 | 3/27/2002 | 190 | 530,000 | <0.5 | 65 | AE02395 |
| 01100801 | 3/13/2002 | 66 | 496 | <0.5 | 16 | AE01936 |
| 01100901 | 3/14/2002 | 72 | 288 | <0.5 | 42 | AE02042 |
| 01101101 | 3/20/2002 | 16 | 86,000 | <0.5 | 24 | AE02211 |
| 01102401 | 3/20/2002 | 89 | 8,200 | <0.5 | 58 | AE02209 |
| 01110201 | 3/27/2002 | 5.0 | 47,000 | <0.5 | 52 | AE02392 Note 1 |
| 01111301 | 3/13/2002 | 75 | 13,200 | <0.5 | 19 | AE01937 |
| 01111401 | 3/27/2002 | <2 | 16,000 | 1.0 | 55 | AE02394 Note 1 |
| 01111501 | 3/28/2002 | 51 | 6,600 | <0.5 | 4.0 | AE02515 |
| 01111901 | 3/27/2002 | 35 | 2,800 | <0.5 | 94 | AE02396 |
| 01112801 | 3/14/2002 | 8 | 12 | <0.5 | 10 | AE02046 |
| 01121101 | 3/14/2002 | 49 | 1,260,000 | <0.5 | 17 | AE02041 |
| 01121401 | 3/28/2002 | 67 | 54,000 | <0.5 | 60 | AE02514 |
| 01122001 | 3/28/2002 | 98 | 66,000 | <0.5 | 74 | AE02510 |
| 01122401 | 3/27/2002 | 5 | 640 | <0.5 | 24 | AE02393 Note 1 |
| 02012501 | 3/27/2002 | 14 | 2,400 | <0.5 | 16 | AE02391 Note 1 |

Note 1 Lab reported BOD may be biased due to possible contamination in sample bottles.

April 2002

Envirocheck Microbial Generator Data Summary

| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
|----------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|----------------|
| 01050401 | 4/18/2002 | 25 | 60 | 18 | 11 | AE03471 |
| 01050701 | 4/25/2002 | 42 | 4,700 | 6.0 | 20 | AE03735 |
| 01050901 | 4/25/2002 | 66 | 6,400 | 4.3 | 24 | AE03736 |
| 01051101 | 4/25/2002 | 250 | 300,000 | 2.3 | 230 | AE03731 |
| 01051401 | 4/24/2002 | 14 | 2,000 | 22 | 17 | AE03668 |
| 01051601 | 4/23/2002 | 31 | 1,400 | <0.5 | 13 | AE03609 |
| 01051602 | 4/23/2002 | 57 | 260,000 | <0.5 | 2.0 | AE03608 |
| 01060401 | 4/29/2002 | 59 | 140,000 | <0.5 | 26 | AE03913 |
| 01061101 | 4/25/2002 | 20 | 3,400 | 4.5 | 4.0 | AE03733 |
| 01061301 | 4/22/2002 | 46 | 225 | <0.5 | 19 | AE03565 Note 2 |
| 01062501 | 4/30/2002 | 130 | 103,000 | <0.5 | 57 | AE03993 |
| 01073001 | 4/24/2002 | 210 | 650,000 | <0.5 | 69 | AE03667 |
| 01100801 | 4/18/2002 | 33 | 4,300 | <0.5 | 11 | AE03470 |
| 01100901 | 4/24/2002 | 130 | 9,300 | 0.72 | 31 | AE03674 |
| 01101101 | 4/17/2002 | 48 | 31,000 | <0.5 | 88 | AE03361 |
| 01102401 | 4/30/2002 | 83 | 144,000 | <0.5 | 38 | AE03994 |
| 01110201 | 4/24/2002 | 79 | 410,000 | 0.51 | 38 | AE03677 |
| 01111301 | 4/18/2002 | 38 | 16,000 | <0.5 | 25 | AE03468 |
| 01111401 | 4/24/2002 | 49 | 137,000 | 2.7 | 82 | AE03671 |
| 01111501 | 4/25/2002 | 57 | 225 | <0.5 | 12 | AE02732 |
| 01111901 | 4/24/2002 | >82 | 375 | <0.5 | 74 | AE03732 Note 3 |
| 01112801 | 4/22/2002 | 4 | <20 | 29 | 12 | AE03566 Note 2 |
| 01121101 | 4/24/2002 | >82 | 550,000 | <0.5 | 47 | AE03666 Note 3 |
| 01121401 | 4/30/2002 | 170 | 250,000 | <0.5 | 110 | AE03997 |
| 01122001 | 4/23/2002 | 140 | 12,100 | <0.5 | 39 | AE03610 |
| 01122401 | 4/24/2002 | 63 | 1,600 | <0.5 | 18 | AE03673 |
| 02012501 | 4/24/2002 | 58 | 5,500 | <0.5 | 12 | AE03676 |
| 02031901 | 4/24/2002 | 52 | 3,400 | 1.5 | 22 | AE03669 |
| 02032001 | 4/29/2002 | 35 | 60 | <0.5 | 32 | AE03915 |
| 02032901 | 4/29/2002 | 290 | 150,000 | <0.5 | 320 | AE03914 |

Note 2

Nitrate analysis performed outside of 48 hour holding time.

Note 3

Error in dilution for BOD analysis. Value was estimated.

May 2002

Envirocheck Microbial Generator Data Summary

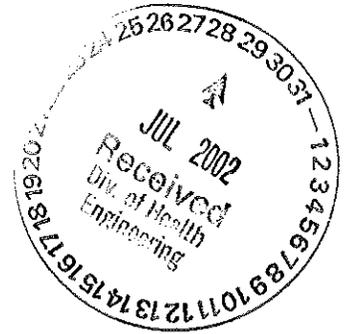
| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
|----------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------------------|
| 01050401 | 5/30/2002 | 110 | 16000 | <0.5 | 33 | AE05326 |
| 01050701 | 5/24/2002 | 35 | 61,000 | 35 | 25 | AE05137 Note 4, 25X |
| 01050901 | 5/24/2002 | 56 | 5,600 | 8.1 | 53 | AE05136 Note 4, 5X |
| 01051101 | 5/24/2002 | 65 | 3,000 | 72 | 50 | AE05132 Note 4, 50X |
| 01051401 | 5/13/2002 | 9.0 | 744 | 21 | 14 | AE04636 Note 4, 10X |
| 01051601 | 5/28/2002 | 18 | 4,000 | <12.5 | 20 | AE05226 Note 4, 25X |
| 01051602 | 5/28/2002 | 34 | 1,100 | <0.5 | 12 | AE05224 |
| 01060401 | 5/30/2002 | 42 | 2,500 | 6.1 | 16 | AE05331 Note 4, 10X |
| 01061101 | 5/29/2002 | 10 | 202 | 9.6 | 11 | AE05260 Note 4, 10X |
| 01061301 | 5/28/2002 | 52 | 78 | <0.5 | 23 | AE05223 |
| 01062501 | 5/30/2002 | 94 | 171,000 | <0.5 | 110 | AE05333 |
| 01073001 | 5/17/2002 | 160 | 1,500,000 | <0.5 | 45 | AE04899 |
| 01100801 | 5/30/2002 | 64 | 21,000 | <0.5 | 11 | AE05327 Note 4, 10X |
| 01100901 | 5/30/2002 | 130 | 6,700 | 0.65 | 68 | AE05325 |
| 01101101 | 5/23/2002 | 49 | 85,000 | 3.2 | 80 | AE05088 Note 4, 5X |
| 01102401 | 5/24/2002 | 51 | 310,000 | <0.5 | 24 | AE05131 |
| 01110201 | 5/28/2002 | 41 | 10,000 | <2.5 | 36 | AE05225 Note 4, 5X |
| 01111301 | 5/30/2002 | 70 | 3,200 | 5.8 | 23 | AE05330 Note 4, 10X |
| 01111401 | 5/21/2002 | 28 | 530,000 | 6.3 | 26 | AE04962 Note 4, 5X |
| 01111501 | 5/29/2002 | 41 | 800 | <0.5 | 11 | AE05259 Note 4, 10X |
| 01111901 | 5/17/2002 | 140 | 45,000 | <0.5 | 54 | AE04898 |
| 01112801 | 5/28/2002 | 2.0 | <2 | 8.4 | 20 | AE05228 Note 4, 10X |
| 01121101 | 5/17/2002 | 54 | 460,000 | <0.5 | 30 | AE04897 |
| 01121401 | 5/24/2002 | 110 | 110,000 | <0.5 | 94 | AE05135 |
| 01122001 | 5/16/2002 | 110 | 150,000 | <0.5 | 54 | AE04854 |
| 01122401 | 5/21/2002 | 27 | 6,700 | 0.67 | 28 | AE04964 |
| 02012501 | 5/21/2002 | 23 | 9,500 | 5.0 | 36 | AE04963 Note 4, 5X |
| 02031901 | 5/28/2002 | 32 | 18,000 | <12.5 | 24 | AE05227 Note 4, 25X |
| 02032001 | 5/30/2002 | 85 | 1,100,000 | <0.5 | 80 | AE05332 |
| 02032901 | 5/23/2002 | 680 | 1,200,000 | <0.5 | 990 | AE05089 |
| 02040201 | 5/22/2002 | 140 | 860,000 | <0.5 | 230 | AE05008 |
| 02041001 | 5/24/2002 | 300 | 100,000 | <0.5 | 440 | AE05134 |
| 02041201 | 5/30/2002 | 380 | 100,000 | <0.5 | 1300 | AE05324 |
| 02041701 | 5/22/2002 | 1200 | 56,000 | <0.5 | 4100 | AE05009 |
| 02041801 | 5/30/2002 | 130 | 5,400,000 | <0.5 | 97 | AE05328 |

Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.



"Guardians of Water Quality"

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1-800-560-2454 / 315-343-2454 / Fax 315-343-6114
website: www.knighttreatmentsystems.com



July 25, 2002

James J. Jacobsen, Environmental Specialist IV
Wastewater and Plumbing Control Program
Division of Health Engineering
State of Maine
10 State House Station
Augusta, Maine 04333-0010

Subject: Phone call of June 27th, 2002

Dear Mr. *JJM* Jacobsen,

First and foremost, I would like to thank you for your prompt attention to the matter of provisional approval for the White Knight™ and your clear and open discussion on the phone. I apologize for not getting this letter out earlier. I was out of the state in early July and have been playing catch up since then.

Just to summarize, there are three issues concerning your letter dated June 12, 2002 that I brought to your attention during our phone conversation:

1. The letter indicates in the section delineating claims that "...the White Knight significantly reduces nitrate and CBOD5 levels..." Neither of these parameters is included in our application packet as claims.
2. In the determination section the letter calls for testing of Total Nitrogen and Coliform Bacteria. Envirocheck is currently testing for Nitrate (not Total Nitrogen) and both of these parameters (in fact all of the parameters) do not have specific target numbers for approval.
3. One paragraph near the end of the letter says:

"Please note that this approval does not authorize use of the product in an onsite sewage disposal system which has experienced a hydraulic malfunction, i.e., a "break-out". Such malfunctions are imminent public health hazards and must be replaced in an expeditious manner under provisions of the rules."

Our concern is that the term "break-out" and failure are often synonymous. To not allow use of our product for failed systems is contrary to the purpose of the product.

On the phone items 1 and 2 were clarified and you indicated that you were making changes in the letter as we spoke. Item number three was clarified, but in talking with Steve O'Connor and Jay Knight we still have a concern with this item, that I will clarify below. The results of the specific items as I remember them are as follows:

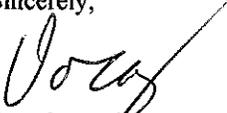
1. The words "significantly reduces nitrate and CBOD5 levels" will be removed from the claims section.
2. The words "Total Nitrogen" will be changed to "Nitrate". It was also clarified that there are no specific levels that will lead to approval or denial and that you understand that the purpose of the White Knight™ is to recover the leach area. Nitrogen and Total Coliform levels are not essential to that purpose, but are among the parameters normally asked for.
3. You clarified what your interpretation of "break-out" was. You indicated that break-out was gross failure that involved the surfacing of all or most of the wastewater, situations where the wastewater effluent had a high likely-hood of pooling and having human contact. The issue was, at its core, that such a failure

needed to be fixed as expeditiously as possible. We discussed the fact that because of the extensive site evaluation and the pumping of the system (not just the tank, but the leach system whenever possible) that takes place the immanent public health threat is minimized and repair generally can take place over a couple of weeks (this time period is not set it is site and threat specific). The field can be reclaimed during this period while the "public health threat" is minimized. We have two additional points that I would like to stress that we only touched upon on the phone:

- a. The time period for recovery of failed leach systems is shortening as we gain experience with the system. I would say that, especially at the busiest time of the year, we might eliminate the public health threat more quickly with the White Knight™ than with more traditional repairs. In cases of Break-out (as defined above) we assure that the surfacing of the effluent is mitigated as soon as possible. Pumping of the field generally ends the surfacing immediately and lasts until the White Knight™ has time to open the clogged leach system. In situations involving an economically disadvantaged home, the repair is generally much quicker with the White Knight™ than with other methods. Spending ~\$3,500 may be within reach of a family as apposed to the cost of doing more traditional repairs. Pumping is also an option if, for some reason, the White Knight™ does not reclaim the leach area. We must remember that if our site appraisal indicates that the failure is caused by something other than biological clogging (especially mechanical failures) we do not accept the job and it is passed on to a contractor to correct the problem.
- b. We are concerned that the wording of the paragraph may hinder our approval in other states. We (you, Envirocheck, Inc., and Knight Treatment Systems, Inc.) understand each other and we have a level of trust that will lead to the system working fine in the State of Maine. We are concerned that others will interpret the paragraph differently than we have discussed. We see two possible solutions to the problem. A. The paragraph could be expanded to be clearer when written; or b. a footnote defining break-out and the timing issues could be delineated. We are also open to any other solution that does not leave the opportunity for someone to pick up the approval letter and not understand that paragraph.

It is always a pleasure to discuss issues with you and I look forward to your response. Please let me know if there is anything from our phone conversation that needs to be corrected or clarified. I also look forward to your solution to the issues identified in the previous paragraph.

Sincerely,



Douglas Nelson, P.E.

Vice President of Technical Support

cc: Steve O'Connor, Envirocheck, Inc.
Mark Noga, Knight Treatment Systems
Jay Knight, Knight Treatment Systems



"Guardians of Water Quality".

281 Co. Rt. 51A, Oswego, NY. 13126
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website: www.knigghttreatmentsystems.com

June 3, 2002

James J. Jacobsen, Environmental Specialist IV
Wastewater and Plumbing Control Program
Division of Health Engineering
State of Maine
10 State House Station
Augusta, Maine 04333-0010

Subject: White Knight™ provisional approval claims

Dear Mr. Jacobsen,

First and foremost, I would like to thank you for Mr. Martin's and your prompt attention to the matter of provisional approval for the White Knight™. The speed, efficiency, and aptitude demonstrated during the process were exemplary and I commend you for that.

I would like to point out and have you correct some inaccuracies in the approval letter dated May 13, 2002. The items that we feel need to be corrected are as follows:

1. The claims listed in our application of May 10th, 2002 do not agree with the claims listed in the approval letter. Specifically, we do not claim that the unit reduces nitrate and BOD-5 in the effluent of the unit to single digit levels. These claims were made by Septech and have never been supported by us. The design of the unit enhances soil treatment and will lower CBOD-5 and nitrate to low levels in the soil profile.
2. The cusped plastic media has been replaced with a loose-fill plastic media, which provides more surface area than the cusped plastic and is more self-cleaning. The data for the new media is included in the application packet.
3. In a phone conversation with Steve O'Connor shortly after the original provisional approval letter was written you indicated to him that it was not necessary to test the influent on each unit and that it was nitrate nitrogen that you wanted tested in the effluent. The current approval letter should reflect this fact.
4. The outer housing has been changed to a six-sided column. This change was made purely for manufacturing reasons and does not effect the operation of the unit. The height and effective diameter of the unit are unchanged. A method to add weight to the base of the unit has also been added.

Please let me know if you need any further information on any of these items. I look forward to your response. I appreciate your dedication and attention to these matters.

Sincerely,

A handwritten signature in black ink, appearing to read "Jay Knight", is written over the word "Sincerely,".

Jay Knight, President

cc: Steve O'Connor, Envirocheck, Inc.
Paul Gauvreau, Assistant Attorney General
Mark Noga, Knight Treatment Systems
Doug Nelson, Knight Treatment Systems



281 Co Rt 51A Oswego, NY 13126
 1-800-560-2454 / 315-343-2454 / Fax 315-343-6114

FAX TRANSMITTAL:

Date: 6/4/02 Company: Division of Health Engineering
 Phone #: 207-287-5089
 Fax #: 207-287-3105
 Please deliver to: James J. Jacobsen

Message: Jim,
Any questions regarding this
letter, please call me.
 Sincerely,
Jay Knight

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STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
DIVISION OF HEALTH ENGINEERING
10 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0010

ANGUS S. KING, JR.
GOVERNOR

KEVIN W. CONCANNON
COMMISSIONER

May 13, 2002

Knight Treatment Systems
Attn.: Jay Knight
281 Country Route 51A
Oswego, NY 13126

Subject: Product Registration, Knight Treatment Systems *White Knight*

Dear Mr. Knight:

Thank you for your information submitted April 5, 2002 regarding the Knight Treatment Systems *White Knight* for registration under provisions of Section 1802 of the Maine State Plumbing Code, Subsurface Wastewater Disposal Rules (Rules).

At a meeting held May 10, 2002 at the Division's office, you provided documentation which demonstrates to the satisfaction of this office that Knight Treatment Systems has appropriate rights to the technology used in the *White Knight*.

Product Description

The Knight Treatment Systems *White Knight* consists of a 12 inch diameter plastic tube within which is a four inch diameter plastic tube. The space between the tubes is filled with plates of cusped plastic sheeting. A remote air pump feeds air to a proprietary diffuser beneath the cusped plates. A biological film is generated, which adheres to the cusped plates and provides treatment of the water-borne contaminants. An outlet filter prevents solids carryover. The Knight Treatment Systems *White Knight* is inserted into conventional septic tanks, and a proprietary inoculant is introduced at regular intervals.

Claim

According to the information in our files, the Knight Treatment Systems *White Knight* reduces nitrate and BOD₅ levels to single digits, measured in Mg/l; reduces suspended solids in the effluent; and rejuvenates biologically clogged disposal areas by application of low-nutrient, high dissolved oxygen effluent.

Determination

On the basis of the foregoing, the Division has determined that the Knight Treatment Systems *White Knight* is acceptable for use in the State of Maine on a Provisional Approval basis, provided that it is installed, operated, and maintained in conformance with the manufacturer's directions and Purchase/Installation Agreement.

No more than 50 installations of the Knight Treatment Systems *White Knight* may be installed under Provisional Approval, including those installed pursuant to the approval letter dated September 25, 2001. Pilot Approval installations shall be limited to sites which do not otherwise require any variance or waiver to the Rules.



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On no less than a monthly basis for a period of not less than 12 months, the applicant shall test the influent and effluent of each installed Knight Treatment Systems White Knight for the following parameters: five day Biochemical Oxygen Demand, Total Suspended Solids, Total Nitrogen, and coliform bacteria. The results of these tests shall be submitted to the Division on no less than a quarterly basis. Historic data from other jurisdictions may be submitted, if available.

Upon successful operation under Provisional Approval, the applicant may apply for General Use Approval, which allows use with no testing or reporting requirements by the Department.

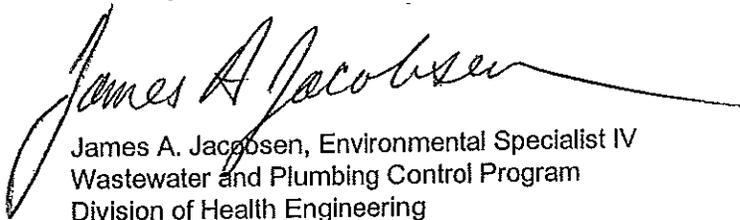
In the event that the product fails to perform as claimed, use of the product in Maine, including all installations approved pursuant to Chapter 18 of the Rules, shall cease. Use of the product shall not resume until the applicant and the Division have reached a mutually acceptable agreement for resolving the failure to perform as claimed.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of Knight Treatment Systems White Knight. Further, registration of this product for use in the State of Maine does not represent Division preference or recommendation for this product over similar products.

This letter supersedes the letters dated September 25, 2001 and April 22, 2002 to EnviroCheck Inc.

You may distribute copies of this letter as appropriate. If you have any questions please feel free to contact me at (207) 287-5695.

Sincerely,



James A. Jacobsen, Environmental Specialist IV
Wastewater and Plumbing Control Program
Division of Health Engineering
e-mail: james.jacobsen@state.me.us

/jaj

xc: Product File
EnviroCheck Inc.
Piranaco
Russell Martin, Program Director, WW & PC



"Guardians of Water Quality".

281 Co. Rt. 51A, Oswego, NY. 13126
1-800-560-2454 / 315-343-2454 / Fax 315-343-6114
knighttreatmentsystems.com

April 30, 2002

James J. Jacobsen, Environmental Specialist IV
Wastewater and Plumbing Control Program
Division of Health Engineering, State of Maine
10 State House Station
Augusta, Maine 04333-0010



Dear Mr. Jacobsen,

This letter is in reference to your letters of April 11, and April 22, 2002 and in regard to the provisional approval rights granted by your agency to Knight Treatment Systems (KTS) for the Microbial Inoculator/Generator Technology that used a powerful bacteria matrix patented as IOS-500. At the time of this approval, the device that was being used as a vehicle for introducing the IOS-500 to the onsite wastewater treatment system was known as the Piranha. KTS was authorized by SepTech to use this name under a licensing agreement.

Knight Treatment Systems, Inc. (KTS) and EnviroCheck, Inc., out of personal and professional courtesy for you and your department did not make you privy to the growing rift between KTS and Piranaco (Mr. Fife and Mr. Wickham formerly D.B.A. SepTech). It was our intention to resolve the civil issues created by these individuals without the involvement of outside parties like yourself, who would be without the benefit of all the facts in hand.

KTS formally requests a meeting with you, your supervisor, and Mr. Paul Gauvreau to present documents that will prove that KTS and EnviroCheck Inc. has not knowingly provided you with inaccurate information nor have we made any false representations at any time. We do not expect nor do we ask the State of Maine to settle this dispute.

Knight Treatment Systems understands why the State of Maine first transferred and then rescinded the approval. KTS has been totally above board and has dealt with the State of Maine in good faith. We formally request that a new provisional approval is granted for the White Knight™ to Knight Treatment Systems Inc. and allowed to be administered through our authorized distributor EnviroCheck, Inc, a legal entity as defined by the laws of the State of Maine. EnviroCheck Inc. has and continues to do due diligence in meeting the conditions described in the State of Maine's Provisional Approval. EnviroCheck Inc. continues to test each device that was installed using the IOS-500 matrix on a monthly basis and is submitting data quarterly as requested.

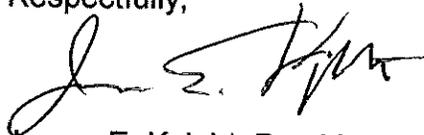
EnviroCheck has expended significant effort and resource to bring this technology to the attention of consumers of Maine. EnviroCheck has been marketing and installing the White Knight™ since late in 2001 under the original provisional approval and had informed your office of the name change.

It is important to note that KTS and EnviroCheck became involved in the sales of the "Piranha" Microbial Inoculator/Generator technology because of the power of the patented IOS-500™ inoculant, which effectively breaks down failure causing clog-mat. It is the power of International Organic Solutions, Inc.'s (IOS) bacterial matrix that is the key to the technology's success. It is an indisputable fact that Knight Treatment Systems Inc. holds the exclusive rights to utilize the patented IOS-500™ component for onsite wastewater treatment technologies.

After Septech (now Piranco) rescinded KTS' licensing agreement, KTS began to manufacture and provide a device, called the White Knight™, under the authority of the primary inventor of the technology Mr. Robert Rawson, to introduce the IOS-500™ mixture into the onsite treatment train. Mr. Rawson's name is listed on the pre-application as an inventor and he is suing for his rights to the invention. Our endeavor is perfectly legal and allowable under law for products that are "Patent Pending" as Mr. Fife, Mr. Wickham and/or Mr. Rawson holds no patent awards for the device at this time.

We will bring documentation to your office for verification on all these facts as presented to you in this correspondence or resolve any questions or concerns that you may have. Thank you in advance for your time and I look forward to your direct and timely response.

Respectfully,



James E. Knight, President
Knight Treatment Systems Inc.

cc: Steve O'Connor, EnviroCheck, Inc.
Paul Gauvreau, Assistant Attorney General
Robert Rawson, IWS
International Organic Solutions, Inc (IOS)



A C O R N
ENGINEERING

June 25, 2002

Mr. James Jacobsen
DHS-DHE
10 State House Station
Augusta, ME 04333-0010



Dear Jim:

Subject: Envirocheck Microbial Generator Performance Data, 2nd Quarter

Please find enclosed the second quarter's data for the units installed to date. You will find the data arranged in two manners. One way is by site. The second is by month with all the sites active at the time listed on one sheet.

Please let me know if there is any additional information I can provide.

Very Truly Yours

Hugh P. Savage, PE
Acorn Engineering

CC: Stephen O'Connor, Envirocheck
Dana Darling, Envirocheck

Data by Site

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01050401 | | | | | | |
| Date of Installation | 4-May-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/10/2001 | 38 | 420 | 18 | 35 | AD30695 |
| 2 | Jan | 1/16/2002 | 13 | 980 | 17 | 35 | AE00334 |
| 3 | Feb | 2/12/2002 | 18 | 8 | 16 | 27 | AE01048 |
| 4 | Mar | 3/13/2002 | 20 | 720 | 12 | 18 | AE01939 |
| 5 | Apr | 4/18/2002 | 25 | 60 | 18 | 11 | AE03471 |
| 6 | May | 5/30/2002 | 110 | 16000 | <0.5 | 33 | AE05326 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01050701 | | | | | | |
| Date of Installation | 7-May-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/19/2001 | 56 | 30,000 | 4.3 | 48 | AD31033 |
| 2 | Jan | 1/21/2002 | 25 | 9,300 | 1.5 | 38 | AE00426 |
| 3 | Feb | 2/20/2002 | 36 | 6,800 | 0.56 | 58 | AE01260 |
| 4 | Mar | 3/28/2002 | <2 | 43,000 | 0.74 | 34 | AE02513 |
| 5 | Apr | 4/25/2002 | 42 | 4,700 | 6.0 | 20 | AE03735 |
| 6 | May | 5/24/2002 | 35 | 61,000 | 35 | 25 | AE05137 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV01050901 | | | | | | |
| Date of Installation | 9-May-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/28/2001 | 88 | 4,000 | 6.4 | 130 | AD31217 |
| 2 | Jan | 1/21/2002 | 61 | 29,000 | 1.0 | 110 | AE00423 |
| 3 | Feb | 2/20/2002 | 60 | 2,900 | 1.2 | 89 | AE01258 |
| 4 | Mar | 3/28/2002 | 73 | 5,400 | 2.5 | 110 | AE02516 |
| 5 | Apr | 4/25/2002 | 66 | 6,400 | 4.3 | 24 | AE03736 |
| 6 | May | 5/24/2002 | 56 | 5,600 | 8.1 | 53 | AE05136 |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01051101 | | | | | | |
| Date of Installation | ##### | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/28/2001 | 460 | 14,000,000 | <0.5 | 210 | AD31218 |
| 2 | Jan | 1/21/2002 | 190 | 110,000 | <0.5 | 160 | AE00427 |
| 3 | Feb | 2/20/2002 | 120 | 250,000 | <0.5 | 190 | AE01263 |
| 4 | Mar | 3/28/2002 | 220 | 73,000 | <0.5 | 220 | AE02511 |
| 5 | Apr | 4/25/2002 | 250 | 300,000 | 2.3 | 230 | AE03731 |
| 6 | May | 5/24/2002 | 65 | 3,000 | 72 | 50 | AE05132 |
| 7 | | | | | | | |
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| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|---|-------------|-------------|------|-----------------------|---------|------------------------------|---------|-------------|
| Serial # | ENV01051401 | | | | | | | |
| Date of Installation | 14-May-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal CFU 100mL | Nitrate | Total Suspended Solids | Lab ID | |
| | | | mg/l | | mg/l | mg/l | | |
| 1 | Jan | 1/25/2002 | 41 | 52,000 | 6.6 | 16 | AE00594 | |
| 2 | Feb | 2/27/2002 | 14 | 9,700 | 1.1 | 13 | AE01488 | |
| 3 | Mar | 3/27/2002 | 5 | 104,000 | 2.0 | 30 | AE02390 | Note 1 |
| 4 | Apr | 4/24/2002 | 14 | 2,000 | 22 | 17 | AE03470 | |
| 5 | May | 5/13/2002 | 9.0 | 744 | 21 | 14 | AE04636 | Note 4, 10X |
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| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| 1 Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | | | |
| Note 4 Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01051601 | | | | | | |
| Date of Installation | 16-May-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/28/2001 | 34 | 8,900 | <0.5 | 17 | AD31215 |
| 2 | Jan | 1/24/2002 | 56 | 260,000 | <0.5 | 26 | AE00548 |
| 3 | Feb | 2/12/2002 | 12 | 28,000 | <0.5 | 39 | AE01044 |
| 4 | Mar | 3/14/2002 | 24 | 6,100 | <0.5 | 23 | AE02048 |
| 5 | Apr | 4/23/2002 | 31 | 1,400 | <0.5 | 13 | AE03609 |
| 6 | May | 5/28/2002 | 18 | 4,000 | <12.5 | 20 | AE05226 |
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| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV01051602 | | | | | | |
| Date of Installation | 16-May-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/28/2001 | 8 | 11,000 | <0.5 | 5 | AD31216 |
| 2 | Jan | 1/24/2002 | 31 | 9,700 | <0.5 | 6 | AE00549 |
| 3 | Feb | 2/12/2002 | 16 | 4,200 | <0.5 | 11 | AE01047 |
| 4 | Mar | 3/14/2002 | 11 | 128 | <0.5 | 2.0 | AE02044 |
| 5 | Apr | 4/23/2002 | 57 | 260,000 | <0.5 | 2.0 | AE03608 |
| 6 | May | 5/28/2002 | 34 | 1,100 | <0.5 | 12 | AE05224 |
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| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV01060401 | | | | | | |
| Date of Installation | 4-Jun-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/17/2001 | 72 | 690,000 | 3.3 | 68 | AD30944 |
| 2 | Jan | 1/18/2002 | 52 | 6,000 | <0.5 | 43 | AE00410 |
| 3 | Feb | 2/19/2002 | 43 | 2,200 | 1.4 | 23 | AE01211 |
| 4 | Mar | 3/20/2002 | 68 | 265 | 2.5 | 150 | AE02212 |
| 5 | Apr | 4/29/2002 | 59 | 140,000 | <0.5 | 26 | AE03913 |
| 6 | May | 5/30/2002 | 42 | 2,500 | 6.1 | 16 | AE05331 |
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| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|---|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|-------------|
| Serial # | | | 02040201 | | | | | |
| Date of Installation | | | 2-Apr-02 | | | | | |
| Point of sampling | | | Leach Field | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | May | 5/22/2002 | 140 | 860,000 | <0.5 | 230 | AE05008 | |
| 2 | Jun | 6/20/2002 | 420 | 3,000,000 | <0.5 | 1200 | AE06308 | |
| 3 | Jul | 7/26/2002 | >850 | 450,000 | <0.5 | 1900 | AE07754 | Note 6 |
| 4 | Aug | 8/23/2002 | 500 | 19,000 | <0.5 | 320 | AE08739 | Note 7, 10X |
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| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 6 | Sample stronger than anticipated. BOD could not be brought into analysis range. | | | | | | | |
| Note 7 | Reporting limit increased as noted for BOD to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|-------------|--------------|---------|------------------------|---------|
| Serial # | | | 02041001 | | | | |
| Date of Installation | | | 10-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | May | 5/24/2002 | 300 | 100,000 | <0.5 | 440 | |
| 2 | Jun | 6/24/2002 | 250 | 110,000 | <0.5 | 430 | AE06379 |
| 3 | Jul | 7/22/2002 | 230 | 1,300,000 | <0.5 | 190 | AE07495 |
| 4 | Aug | 8/14/2002 | 190 | 570,000 | <0.5 | 360 | AE08427 |
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| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | 02041201 | | | | |
| Date of Installation | | | 12-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | May | 5/30/2002 | 380 | 100,000 | <0.5 | 1300 | AE05324 |
| 2 | Jun | 6/17/2002 | 78 | 2,800,000 | <0.5 | 350 | AE06080 |
| 3 | Jul | 7/18/2002 | 380 | 35,000 | <0.5 | 1400 | AE07350 |
| 4 | Aug | 8/26/2002 | 600 | 58,000 | 1.7 | 4300 | AE08808 |
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| 12 | | | | | | | |
| Average | | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. The actual nitrate result is as noted. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------------------|
| Serial # | | | 02041701 | | | | |
| Date of Installation | | | 17-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | May | 5/22/2002 | 1200 | 56,000 | <0.5 | 4100 | AE05009 |
| 2 | Jun | 6/20/2002 | 2200 | 70,000 | 0.93 | 8200 | AE06311 |
| 3 | Jul | 7/15/2002 | 170 | 16,000 | 21 | 260 | AE07130 Note 4, 50X |
| 4 | Aug | 8/19/2002 | 400 | 4,150,000 | 19 | 1200 | AE08540 Note 4, 10X |
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| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | 02041801 | | | | |
| Date of Installation | | | 18-Apr-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | May | 5/30/2002 | 130 | 5,400,000 | <0.5 | 97 | AE05328 |
| 2 | Jun | 6/17/2002 | 87 | 1,500,000 | <0.5 | 150 | AE06079 |
| 3 | Jul | 7/18/2002 | 230 | 1,500,000 | <0.5 | 480 | AE07351 |
| 4 | Aug | 8/26/2002 | 110 | 1,700,000 | <0.5 | 450 | AE08802 |
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| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | 02050101 | | | | |
| Date of Installation | | | 1-May-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jun | 6/20/2002 | 310 | 4,900,000 | 2.5 | 350 | AE06312 |
| 2 | Jul | 7/15/2002 | 59 | 76,000 | 31 | 74 | AE07132 |
| 3 | Aug | 8/23/2002 | 130 | 31,000 | 4.9 | 160 | AE08735 |
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| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | | | 02050201 | | | | |
| Date of Installation | | | 2-May-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jun | 6/6/2002 | 330 | 220,000 | <0.5 | 380 | AE05606 |
| 2 | Jul | 7/22/2002 | 270 | 160,000 | <0.5 | 560 | AE07500 |
| 3 | Aug | 8/14/2002 | 110 | 540,000 | <0.5 | 190 | AE08425 |
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| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | | | 02050901 | | | | |
| Date of Installation | | | 9-May-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jun | 6/21/2002 | 40 | 110,000 | <0.5 | 32 | AE06363 |
| 2 | Jul | 7/26/2002 | 24 | 2,400 | <12.5 | 18 | AE07752 |
| 3 | Aug | 8/23/2002 | 99 | 71,000 | <0.5 | 170 | AE08736 |
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| Average | | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| | Sample comprised of all nitrite so the nitrate value was essentially zero | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV02060301 | | | | | | |
| Date of Installation | 3-Jun-02 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Jul | 7/25/2002 | 320 | 430,000 | <0.5 | 310 | AE07688 |
| 2 | Aug | 8/21/2002 | 420 | 870,000 | <0.5 | 640 | AE08633 |
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| 12 | | | | | | | |
| Average | | | | | | | |
| Note 7 | Reporting limit increased as noted for BOD to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV02060601 | | | | | | |
| Date of Installation | 6-Jun-02 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jul | 7/17/2002 | 210 | 1,100,000 | <0.5 | 220 | AE07248 |
| 2 | Aug | 8/22/2002 | 540 | 2,500,000 | <0.5 | 640 | AE08714 |
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| Average | | | | | | | |
| Note 7 | Reporting limit increased as noted for BOD to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|-------------|--------------|---------|------------------------|---------|
| Serial # | | | ENV02061301 | | | | |
| Date of Installation | | | 13-Jun-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Jul | 7/29/2002 | 830 | 148,000 | <0.5 | 2600 | AE07825 |
| 2 | Aug | 8/13/2002 | 560 | 650,000 | <0.5 | 620 | AE08361 |
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| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|-------------|----------------------------|---------|------------------------|---------|
| Serial # | | | ENV02061801 | | | | |
| Date of Installation | | | 18-Jun-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli CFU 100mL | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | | mg/l | mg/l | |
| 1 | Jul | 7/29/2002 | 720 | 800,000 | <0.5 | 1300 | AE07821 |
| 2 | Aug | 8/13/2002 | 800 | 83,000 | <0.5 | 1500 | AE08366 |
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| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV02062001 | | | | | | |
| Date of Installation | 20-Jun-02 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jul | 7/26/2002 | 71 | 420,000 | 0.72 | 27 | AE07757 |
| 2 | Aug | 8/23/2002 | 87 | 15,000,000 | <0.5 | 21 | AE08738 |
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| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | | | | | | | |
| Date of Installation | | | 25-Jun-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Aug | 8/26/2002 | 240 | 91,000 | <0.5 | 560 | AE08809 |
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| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV02070901 | | | | | | |
| Date of Installation | 9-Jul-02 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Jul | 7/9/2002 | 280 | 3,100,000 | <0.5 | 64 | AE06936 |
| 2 | Aug | 8/26/2002 | 370 | 7,600,000 | <0.5 | 880 | AE08812 |
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| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|---|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|-------------|
| Serial # | | | 02071001 | | | | | |
| Date of Installation | | | 10-Jul-02 | | | | | |
| Point of sampling | | | Leach Field | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | Aug | 8/26/2002 | 78 | 9,300 | 3.1 | 140 | AE08803 | Note 5, 25X |
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| Average | | | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. The actual nitrate result is as noted | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|-------------|
| Serial # | | | 02071101 | | | | | |
| Date of Installation | | | 11-Jul-02 | | | | | |
| Point of sampling | | | Leach Field | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | Aug | 8/22/2002 | 420 | 70,000 | <0.5 | 540 | AE08708 | Note 7, 10X |
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| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 7 | Reporting limit increased as noted for BOD to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | 02072401 | | | | |
| Date of Installation | | | 24-Jul-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Aug | 8/19/2002 | 480 | 200,000 | <0.5 | 110 | AE08542 |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

Data by Month



Jun 2002

Envirocheck Microbial Generator Data Summary

| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate Total mg/l | Suspended Solids mg/l | Lab ID |
|----------|-------------|--------------|----------------------------|--------------------------|-----------------------------|---------------------|
| 01050401 | 6/17/2002 | <2 | 44,000 | 5.1 | 28 | AE06075 Note 4, 10x |
| 01050701 | 6/14/2002 | 32 | 1,300 | 12 | 19 | AE06013 Note 4, 10x |
| 01050901 | 6/14/2002 | 36 | 650 | 11 | 47 | AE06012 Note 4, 10x |
| 01051101 | 6/14/2002 | 56 | 700,000 | <25 | 24 | AE06014 Note 5, 50X |
| 01051401 | 6/19/2002 | <2 | 480 | 19 | 7.0 | AE06261 |
| 01051601 | 6/25/2002 | 82 | 250 | <12 | 150 | AE06409 Note 4, 25X |
| 01051602 | 6/25/2002 | 23 | 900 | <0.5 | 19 | AE06407 |
| 01060401 | 6/21/2002 | 40 | 62,000 | 5.2 | 28 | AE06361 Note 4, 5X |
| 01061101 | 6/18/2002 | 8.0 | 1,100,000 | 15 | 10 | AE06129 Note 4, 10X |
| 01061301 | 6/17/2002 | 4.0 | 2,100 | <0.5 | 22 | AE06070 |
| 01062501 | 6/17/2002 | 33 | 430,000 | <0.5 | 53 | AE06073 |
| 01073001 | 6/18/2002 | 170 | 960,000 | <0.5 | 86 | AE06127 |
| 01100801 | 6/17/2002 | 12 | 30,000 | <0.5 | 19 | AE06076 |
| 01100901 | 6/17/2002 | 450 | 520,000 | 0.65 | 320 | AE06082 |
| 01101101 | 6/20/2002 | 100 | 660,000 | 2.5 | 220 | AE06310 Note 4, 2X |
| 01102401 | 6/24/2002 | 59 | 800,000 | <0.5 | 56 | AE06378 |
| 01110201 | 6/19/2002 | 64 | 83,000 | <0.5 | 55 | AE06259 Note 5, 10X |
| 01111301 | 6/17/2002 | 24 | 9,700 | 1.3 | 15 | AE06072 Note 4, 2X |
| 01111401 | 6/19/2002 | 42 | 1,900,000 | 4.7 | 32 | AE06258 Note 4, 5X |
| 01111501 | 6/18/2002 | 12 | 4,600 | <2.5 | 15 | AE06126 Note 5, 5X |
| 01111901 | 6/19/2002 | 33 | 72,000 | <0.5 | 39 | AE06255 |
| 01112801 | 6/17/2002 | <2 | 0 | 3.6 | 1.0 | AE06071 Note 4, 5X |
| 01121101 | 6/17/2002 | 12 | 1,200 | <12 | 33 | AE06083 Note 5, 25X |
| 01121401 | 6/24/2002 | 78 | 290,000 | <2.5 | 30 | AE06377 Note 4, 5X |
| 01122001 | 6/20/2002 | 100 | 520,000 | <0.5 | 94 | AE06309 |
| 01122401 | 6/19/2002 | 15 | 5,300 | 0.53 | 61 | AE06257 |
| 02012501 | 6/19/2002 | 51 | 21,000 | <0.5 | 40 | AE06256 |
| 02031901 | 6/19/2002 | 9.0 | 4,700 | <2.5 | 12 | AE06260 Note 5, 5X |
| 02032001 | 6/21/2002 | 180 | 1,900,000 | <0.5 | 100 | AE06362 |
| 02032901 | 6/25/2002 | 1200 | 99,000 | 0.72 | 1900 | AE06408 |
| 02040201 | 6/20/2002 | 420 | 3,000,000 | <0.5 | 1200 | AE06308 |
| 02041001 | 6/24/2002 | 250 | 110,000 | <0.5 | 430 | AE06379 |
| 02041201 | 6/17/2002 | 78 | 2,800,000 | <0.5 | 350 | AE06080 |
| 02041701 | 6/20/2002 | 2200 | 70,000 | 0.93 | 8200 | AE06311 |
| 02041801 | 6/17/2002 | 87 | 1,500,000 | <0.5 | 150 | AE06079 |
| 02050101 | 6/20/2002 | 310 | 4,900,000 | 2.5 | 350 | AE06312 Note 4, 5X |
| 02050201 | 6/6/2002 | 330 | 220,000 | <0.5 | 380 | AE05606 |
| 02050901 | 6/12/2002 | 40 | 110,000 | <0.5 | 32 | AE06363 |

Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.

Note 5 Reporting limit increased as noted for NO3 to account for dilution factor.

Sample comprised of all nitrite so the nitrate value was essentially zero

Jul 2002

Envirocheck Microbial Generator Data Summary

| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate Total mg/l | Suspended Solids mg/l | Lab ID |
|----------|-------------|--------------|----------------------------|--------------------------|-----------------------------|---------------------|
| 01050401 | 7/18/2002 | 30 | 310,000 | 14 | 24 | AE07355 Note 4, 10x |
| 01050701 | 7/29/2002 | 100 | 24,000 | <0.5 | 260 | AE07819 |
| 01050901 | 7/22/2002 | 410 | 160,000 | 15 | 950 | AE07496 Note 4, 10x |
| 01051101 | 7/22/2002 | 31 | 35,000 | 7.9 | 44 | AE07499 Note 4, 5x |
| 01051401 | 7/17/2002 | 10 | 1,800 | 19 | 4.0 | AE07249 Note 4, 25x |
| 01051601 | 7/22/2002 | 130 | 160,000 | <0.5 | 270 | AE07494 |
| 01051602 | 7/22/2002 | 64 | 1,100 | <0.5 | 60 | AE07501 |
| 01060401 | 7/25/2002 | 62 | 11,000 | <0.5 | 40 | AE07687 |
| 01061101 | 7/29/2002 | 10 | 88,000 | 20 | 3.0 | AE07823 |
| 01061301 | 7/22/2002 | 31 | 900 | <0.5 | 11 | AE07502 |
| 01062501 | 7/18/2002 | 92 | 24,000 | <0.5 | 53 | AE07352 |
| 01073001 | 7/19/2002 | 290 | 1,600,000 | 1.5 | 330 | AE07416 |
| 01100801 | 7/17/2002 | 130 | 6,300 | <0.5 | 51 | AE07345 |
| 01100901 | 7/26/2002 | 80 | 46,000 | 0.69 | 55 | AE07750 |
| 01101101 | 7/15/2002 | 44 | 160,000 | 0.35 | 70 | AE07131 Note 4, 10x |
| 01102401 | 7/22/2002 | 91 | 100,000 | <0.5 | 89 | AE07503 |
| 01110201 | 7/17/2002 | >93 | 540,000 | <0.5 | 270 | AE07250 Note 6 |
| 01111301 | 7/18/2002 | 51 | 1,600 | <0.5 | 12 | AE07353 |
| 01111401 | 7/19/2002 | 17 | 33,000 | 3.2 | 8.0 | AE07414 Note 4, 2X |
| 01111501 | 7/29/2002 | 15 | 3,900 | <2.5 | 3.0 | AE07824 Note 5, 5X |
| 01111901 | 7/19/2002 | 42 | 97,000 | 0.55 | 42 | AE07415 |
| 01112801 | 7/22/2002 | 4 | 0 | 7.6 | <1 | AE07498 Note 4, 5X |
| 01121101 | 7/19/2002 | 38 | 10,000 | 2.7 | 36 | AE07418 Note 4, 2X |
| 01121401 | 7/29/2002 | 330 | 520,000 | <0.5 | 1400 | AE07820 |
| 01122001 | 7/22/2002 | 96 | 910,000 | <0.5 | 37 | AE07497 |
| 01122401 | 7/19/2002 | 14 | 1,300 | <12 | 37 | AE07417 Note 5, 25X |
| 02012501 | 7/17/2002 | >180 | 650,000 | <0.5 | 26 | AE07246 Note 6 |
| 02031901 | 7/17/2002 | >34 | 760,000 | <0.5 | 49 | AE07247 Note 6 |
| 02032001 | 7/26/2002 | 160 | 630,000 | <0.5 | 120 | AE07755 |
| 02032901 | 7/26/2002 | 930 | 210,000 | <0.5 | 1200 | AE07756 |
| 02040201 | 7/26/2002 | >850 | 450,000 | <0.5 | 1900 | AE07754 Note 6 |
| 02041001 | 7/22/2002 | 230 | 1,300,000 | <0.5 | 190 | AE07495 |
| 02041201 | 7/18/2002 | 380 | 35,000 | <0.5 | 1400 | AE07350 |
| 02041701 | 7/15/2002 | 170 | 16,000 | 21 | 260 | AE07130 Note 4, 50X |
| 02041801 | 7/18/2002 | 230 | 1,500,000 | <0.5 | 480 | AE07351 |
| 02050101 | 7/15/2002 | 59 | 76,000 | 31 | 74 | AE07132 Note 4, 25X |
| 02050201 | 7/22/2002 | 270 | 160,000 | <0.5 | 560 | AE07500 |
| 02050901 | 7/26/2002 | 24 | 2,400 | <12.5 | 18 | AE07752 Note 5, 25X |
| 02060301 | 7/25/2002 | 320 | 430,000 | <0.5 | 310 | AE07688 |
| 02060601 | 7/17/2002 | 210 | 1,100,000 | <0.5 | 220 | AE07248 |
| 02061301 | 7/29/2002 | 830 | 148,000 | <0.5 | 2600 | AE07825 |
| 02061801 | 7/29/2002 | 720 | 800,000 | <0.5 | 1300 | AE07821 |
| 02062001 | 7/26/2002 | 71 | 420,000 | 0.72 | 27 | AE07757 |

Jul 2002

Envirocheck Microbial Generator Data Summary

| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate Total mg/l | Suspended Solids mg/l | Lab ID |
|----------|-------------|--------------|-------------------------------|--------------------------|-----------------------------|---------|
| 02070901 | 7/9/2002 | 280 | 3,100,000 | <0.5 | 64 | AE06936 |

- Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.
- Note 5 Reporting limit increased as noted for NO3 to account for dilution factor.
- Note 6 Sample comprised of all nitrite so the nitrate value was essentially zero
Sample stronger than anticipated. BOD could not be brought into analysis range.

Aug 2002

Envirocheck Microbial Generator Data Summary

| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate Total mg/l | Suspended Solids mg/l | Lab ID |
|----------|-------------|--------------|----------------------------|-----------------------|--------------------------|------------------------------------|
| 01050401 | 8/26/2002 | >94 | 3,400 | 22 | 160 | AE08811 Note 4, 25X Note 6 |
| 01050701 | 8/13/2002 | 380 | 350,000 | 1.2 | 910 | AE08365 Note 5, 5X |
| 01050901 | 8/13/2002 | 540 | 180,000 | ~0 | 1600 | AE08362 Note 5, 5x |
| 01051101 | 8/13/2002 | 12 | 280,000 | 59 | 22 | AE08363 Note 4, 50x |
| 01051401 | 8/22/2002 | 300 | 3,700 | 12 | 3000 | AE08710 Note 4, 10X |
| 01051601 | 8/14/2002 | 150 | 1,900 | 0.82 | 320 | AE08429 |
| 01051602 | 8/14/2002 | 32 | 9,300 | <0.5 | 54 | AE08430 |
| 01060401 | 8/21/2002 | 100 | 70,000 | <0.5 | 280 | AE08631 |
| 01061101 | 8/13/2002 | 13 | 230,000 | 22 | 13 | AE08364 Note 4, 20X |
| 01061301 | 8/14/2002 | 17 | 21 | <0.5 | 10 | AE08424 |
| 01062501 | 8/26/2002 | 240 | 91,000 | <0.5 | 560 | AE08809 |
| 01073001 | 8/19/2002 | 980 | 220,000 | <0.5 | 4200 | AE08539 |
| 01100801 | 8/26/2002 | 18 | 1900 | <0.5 | 79 | AE08801 |
| 01100901 | 8/26/2002 | 140 | 87,000 | <0.5 | 88 | AE08805 |
| 01101101 | 8/19/2002 | 120 | 86,000 | ~0 | 210 | AE08537 Note 5, 2x |
| 01102401 | 8/14/2002 | 150 | 97,000 | <0.5 | 390 | AE08431 |
| 01110201 | 8/22/2002 | 120 | 380,000 | ~0 | 180 | AE08709 Note 5, 2X |
| 01111301 | 8/26/2002 | 360 | 420,000 | <0.5 | 360 | AE08813 |
| 01111401 | 8/19/2002 | 27 | 150,000 | 1.7 | 28 | AE08538 Note 4, 2X |
| 01111501 | 8/13/2002 | 17 | 2,800 | 0.044 | 17 | AE08360 Note 5, 5X |
| 01111901 | 8/19/2002 | 460 | 52,000 | <0.5 | 850 | AE08543 |
| 01112801 | 8/14/2002 | <2 | 2 | 6.2 | <1 | AE08428 Note 4, 5X |
| 01121101 | 8/19/2002 | 1000 | 170,000 | 0.16 | 2100 | AE08541 Note 5, 2X |
| 01121401 | 8/26/2002 | 2400 | 4,600,000 | <0.5 | 5400 | AE08810 |
| 01122001 | 8/14/2002 | 190 | 630,000 | 0.52 | 320 | AE08426 |
| 01122401 | 8/22/2002 | 150 | 69,000 | 7.5 | 200 | AE08711 Note 4, 10X |
| 02012501 | 8/22/2002 | 200 | 1,200,000 | <0.5 | 81 | AE08713 Note 7, 10X |
| 02031901 | 8/22/2002 | 310 | 100,000 | 16 | 940 | AE08712 Note 7, 10X Note 5, 10X |
| 02032001 | 8/21/2002 | 3600 | 38,000,000 | <0.5 | 7400 | AE08632 Note 7, 20X |
| 02032901 | 8/23/2002 | 410 | 610,000 | <0.5 | 94 | AE08737 Note 7, 10X |
| 02040201 | 8/23/2002 | 500 | 19,000 | <0.5 | 320 | AE08739 Note 7, 10X |
| 02041001 | 8/14/2002 | 190 | 570,000 | <0.5 | 360 | AE08427 |
| 02041201 | 8/26/2002 | 600 | 58,000 | 1.7 | 4300 | AE08808 Note 5, 25X |
| 02041701 | 8/19/2002 | 400 | 4,150,000 | 19 | 1200 | AE08540 Note 4, 10X |
| 02041801 | 8/26/2002 | 110 | 1,700,000 | <0.5 | 450 | AE08802 |
| 02050101 | 8/23/2002 | 130 | 31,000 | 4.9 | 160 | AE08735 Note 4, 5X |
| 02050201 | 8/14/2002 | 110 | 540,000 | <0.5 | 190 | AE08425 |
| 02050901 | 8/23/2002 | 99 | 71,000 | <0.5 | 170 | AE08736 |
| 02060301 | 8/21/2002 | 420 | 870,000 | <0.5 | 640 | AE08633 Note 7, 10X |
| 02060601 | 8/22/2002 | 540 | 2,500,000 | <0.5 | 640 | AE08714 Note 7, 10X |
| 02061301 | 8/13/2002 | 560 | 650,000 | <0.5 | 620 | AE08361 |

Aug 2002

Envirocheck Microbial Generator Data Summary

| Serial # | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate Total mg/l | Suspende d Solids mg/l | Lab ID |
|----------|-------------|--------------|-------------------------------|--------------------------|---------------------------------|---------------------|
| 02061801 | 8/13/2002 | 800 | 83,000 | <0.5 | 1500 | AE08366 |
| 02062001 | 8/23/2002 | 87 | 15,000,000 | <0.5 | 21 | AE08738 |
| 02062501 | 8/26/2002 | 240 | 91,000 | <0.5 | 560 | AE08809 |
| 02070901 | 8/26/2002 | 370 | 7,600,000 | <0.5 | 880 | AE08812 |
| 02071001 | 8/26/2002 | 78 | 9,300 | 3.1 | 140 | AE08803 Note 5, 25X |
| 02071101 | 8/22/2002 | 420 | 70,000 | <0.5 | 540 | AE08708 Note 7, 10X |
| 02072401 | 8/19/2002 | 480 | 200,000 | <0.5 | 110 | AE08542 |

- Note 4 Reporting limit increased as noted for NO3 to account for dilution factor.
- Note 5 Reporting limit increased as noted for NO3 to account for dilution factor.
Sample comprised of all nitrite so the nitrate value was as noted.
- Note 6 Sample stronger than anticipated. BOD could not be brought into analysis range.
- Note 7 Reporting limit increased as noted for BOD to account for dilution factor.

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|--|-------------|------|--------------|---------|------------------------|---------|-------------|
| Serial # | ENV01061101 | | | | | | | |
| Date of Installation | 11-Jun-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID | |
| | | | mg/l | CFU 100mL | mg/l | mg/l | | |
| 1 | Dec | 12/26/2001 | 50 | 6,800,000 | 16 | 25 | AD31119 | |
| 2 | Jan | 1/24/2002 | 60 | 640,000 | 13 | 36 | AE00552 | |
| 3 | Feb | 2/15/2002 | 29 | 1,200,000 | 18 | 27 | AE01189 | |
| 4 | Mar | 3/28/2002 | 11 | 750,000 | 14 | 16 | AE02509 | |
| 5 | Apr | 4/25/2002 | 20 | 3,400 | 4.5 | 4.0 | AE03733 | |
| 6 | May | 5/29/2002 | 10 | 202 | 9.6 | 11 | AE05260 | Note 4, 10X |
| 7 | Jun | 6/18/2002 | 8.0 | 1,100,000 | 15 | 10 | AE06129 | Note 4, 10X |
| 8 | Jul | 7/29/2002 | 10 | 88,000 | 20 | 3.0 | AE07823 | |
| 9 | Aug | 8/13/2002 | 13 | 230,000 | 22 | 13 | AE08364 | Note 4, 20X |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|---|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV01061301 | | | | | | |
| Date of Installation | 13-Jun-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/21/2001 | 29 | 12 | 0.56 | 25 | AD31088 |
| 2 | Jan | 1/22/2002 | 22 | 332 | <0.5 | 15 | AE00467 |
| 3 | Feb | 2/28/2002 | 53 | 77 | <0.5 | 28 | AE01559 |
| 4 | Mar | 3/14/2002 | 29 | 360 | 3.8 | 15 | AE02040 |
| 5 | Apr | 4/22/2002 | 46 | 225 | <0.5 | 19 | AE03565 |
| 6 | May | 5/28/2002 | 52 | 78 | <0.5 | 23 | AE05223 |
| 7 | Jun | 6/17/2002 | 4.0 | 2,100 | <0.5 | 22 | AE06070 |
| 8 | Jul | 7/22/2002 | 31 | 900 | <0.5 | 11 | AE07502 |
| 9 | Aug | 8/14/2002 | 17 | 21 | <0.5 | 10 | AE08424 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 2 | Nitrate analysis performed outside of 48 hour holding time. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV01062501 | | | | | | |
| Date of Installation | 25-Jun-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/28/2001 | 120 | 2,100 | <0.5 | 61 | AD31214 |
| 2 | Jan | 1/16/2002 | 170 | 42,000 | <0.5 | 140 | AE00332 |
| 3 | Feb | 2/14/2002 | 63 | 290,000 | <0.5 | 31 | AE01129 |
| 4 | Mar | 3/22/2002 | 88 | 88,000 | <0.5 | 38 | AE02304 |
| 5 | Apr | 4/30/2002 | 130 | 103,000 | <0.5 | 57 | AE03993 |
| 6 | May | 5/30/2002 | 94 | 171,000 | <0.5 | 110 | AE05333 |
| 7 | Jun | 6/17/2002 | 33 | 430,000 | <0.5 | 53 | AE06073 |
| 8 | Jul | 7/18/2002 | 92 | 24,000 | <0.5 | 53 | AE07352 |
| 9 | Aug | 8/26/2002 | 240 | 91,000 | <0.5 | 560 | AE08809 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|------|--------------|---------|------------------------|---------|
| Serial # | ENV01073001 | | | | | | |
| Date of Installation | 30-Jul-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/26/2001 | 370 | 1,700,000 | <0.5 | 170 | AD31117 |
| 2 | Jan | 1/23/2002 | 290 | <2,000,000 | <0.5 | 120 | AE00494 |
| 3 | Feb | 2/27/2002 | 290 | 650,000 | <0.5 | 73 | AE01487 |
| 4 | Mar | 3/27/2002 | 190 | 530,000 | <0.5 | 65 | AE02395 |
| 5 | Apr | 4/24/2002 | 210 | 650,000 | <0.5 | 69 | AE03667 |
| 6 | May | 5/17/2002 | 160 | 1,500,000 | <0.5 | 45 | AE04899 |
| 7 | Jun | 6/18/2002 | 170 | 960,000 | <0.5 | 86 | AE06127 |
| 8 | Jul | 7/19/2002 | 290 | 1,600,000 | 1.5 | 330 | AE07416 |
| 9 | Aug | 8/19/2002 | 980 | 220,000 | <0.5 | 4200 | AE08539 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | ENV01100801 | | | | | | |
| Date of Installation | 8-Oct-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/21/2001 | 29 | 1,000 | 0.96 | 16 | AD31087 |
| 2 | Jan | 1/15/2002 | 59 | 5,500 | <0.5 | 40 | AE00300 |
| 3 | Feb | 2/12/2002 | 84 | 220,000 | <0.5 | 30 | AE01045 |
| 4 | Mar | 3/13/2002 | 66 | 496 | <0.5 | 16 | AE01936 |
| 5 | Apr | 4/18/2002 | 33 | 4,300 | <0.5 | 11 | AE03468 |
| 6 | May | 5/30/2002 | 64 | 21,000 | <0.5 | 11 | AE05327 |
| 7 | Jun | 6/17/2002 | 12 | 30,000 | <0.5 | 19 | AE06076 |
| 8 | Jul | 7/17/2002 | 130 | 6,300 | <0.5 | 51 | AE07345 |
| 9 | Aug | 8/26/2002 | 18 | 1900 | <0.5 | 79 | AE08801 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|------|----------------------------|---------|------------------------|----------|
| Serial # | ENV01100901 | | | | | | |
| Date of Installation | 9-Oct-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli CFU 100mL | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | | mg/l | mg/l | |
| 1 | Jan | 1/15/2002 | 180 | 8,300 | <0.5 | 210 | AE00299 |
| 2 | Feb | 2/14/2002 | 76 | 2,900 | 0.92 | 63 | AE 01130 |
| 3 | Mar | 3/14/2002 | 72 | 288 | <0.5 | 42 | AE02042 |
| 4 | Apr | 4/24/2002 | 130 | 9,300 | 0.72 | 31 | AE03674 |
| 5 | May | 5/30/2002 | 130 | 6,700 | 0.65 | 68 | AE05325 |
| 6 | Jun | 6/17/2002 | 450 | 520,000 | 0.65 | 320 | AE06082 |
| 7 | Jul | 7/26/2002 | 80 | 46,000 | 0.69 | 55 | AE07750 |
| 8 | Aug | 8/26/2002 | 140 | 87,000 | <0.5 | 88 | AE08805 |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|-------------|
| Serial # | ENV01101101 | | | | | | | |
| Date of Installation | 11-Oct-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | Dec | 12/17/2001 | 54 | 6,700 | <0.5 | 130 | AD30945 | |
| 2 | Jan | 1/18/2002 | 22 | 23,000 | <0.5 | 37 | AE00411 | |
| 3 | Feb | 2/13/2002 | 21 | 28,000 | <0.5 | 26 | AE01077 | |
| 4 | Mar | 3/20/2002 | 16 | 86,000 | <0.5 | 24 | AE02211 | |
| 5 | Apr | 4/17/2002 | 48 | 31,000 | <0.5 | 88 | AE03361 | |
| 6 | May | 5/23/2002 | 49 | 85,000 | 3.2 | 80 | AE05088 | Note 4, 5X |
| 7 | Jun | 6/20/2002 | 100 | 660,000 | 2.5 | 220 | AE06310 | Note 4, 2X |
| 8 | Jul | 7/15/2002 | 44 | 160,000 | 0.35 | 70 | AE07131 | Note 4, 10x |
| 9 | Aug | 8/19/2002 | 120 | 86,000 | ~0 | 210 | AE08537 | Note 5, 2x |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |
| | Sample comprised of all nitrite so the nitrate value was essentially zero. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|------|----------------------------|---------|------------------------|---------|
| Serial # | ENV01102401 | | | | | | |
| Date of Installation | 24-Oct-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli CFU 100mL | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | | mg/l | mg/l | |
| 1 | Dec | 12/19/2001 | 82 | 37,000 | <0.5 | 66 | AD31034 |
| 2 | Jan | 1/21/2002 | 110 | 230,000 | <0.5 | 100 | AE00425 |
| 3 | Feb | 2/20/2002 | 100 | 440,000 | <0.5 | 58 | AE01262 |
| 4 | Mar | 3/20/2002 | 89 | 8,200 | <0.5 | 58 | AE02209 |
| 5 | Apr | 4/30/2002 | 83 | 144,000 | <0.5 | 38 | AE03994 |
| 6 | May | 5/24/2002 | 51 | 310,000 | <0.5 | 24 | AE05131 |
| 7 | Jun | 6/24/2002 | 59 | 800,000 | <0.5 | 56 | AE06378 |
| 8 | Jul | 7/22/2002 | 91 | 100,000 | <0.5 | 89 | AE07503 |
| 9 | Aug | 8/14/2002 | 150 | 97,000 | <0.5 | 390 | AE08431 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|---|-------------|--------------|----------------------------|-----------------|--------------------------------|---------------------|
| Serial # | ENV01110201 | | | | | | |
| Date of Installation | 02-Nov-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Dec | 12/13/2001 | 46 | 530 | <0.5 | 76 | AD30878 |
| 2 | Jan | 1/25/2002 | 65 | 2,400 | <0.5 | 17 | AE00595 |
| 3 | Feb | 2/27/2002 | 19 | 2,300 | <0.5 | 22 | AE01490 |
| 4 | Mar | 3/27/2002 | 5.0 | 47,000 | <0.5 | 52 | AE02392 Note 1 |
| 5 | Apr | 4/24/2002 | 79 | 410,000 | 0.51 | 38 | AE03677 |
| 6 | May | 5/28/2002 | 41 | 10,000 | <2.5 | 36 | AE05225 Note 4, 5X |
| 7 | Jun | 6/19/2002 | 64 | 83,000 | 0.061 | 55 | AE06259 Note 5, 10X |
| 8 | Jul | 7/17/2002 | >93 | 540,000 | <0.5 | 270 | AE07250 Note 6 |
| 9 | Aug | 8/22/2002 | 120 | 380,000 | ~0 | 180 | AE08709 Note 5, 2X |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| | The actual nitrate result is essentially zero or as noted. | | | | | | |
| Note 6 | Sample stronger than anticipated. BOD could not be brought into analysis range. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|-------------|
| Serial # | ENV01111301 | | | | | | | |
| Date of Installation | 13-Nov-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | Dec | 12/10/2001 | 190 | 420,000 | <0.5 | 600 | AD30696 | |
| 2 | Jan | 1/15/2002 | 63 | 33,000 | <0.5 | 57 | AE00301 | |
| 3 | Feb | 2/12/2002 | 90 | 100,000 | <0.5 | 59 | AE01046 | |
| 4 | Mar | 3/13/2002 | 75 | 13,200 | <0.5 | 19 | AE01937 | |
| 5 | Apr | 4/18/2002 | 38 | 16,000 | <0.5 | 25 | AE03468 | |
| 6 | May | 5/30/2002 | 70 | 3,200 | 5.8 | 23 | AE05330 | Note 4, 10X |
| 7 | Jun | 6/17/2002 | 24 | 9,700 | 1.3 | 15 | AE06072 | Note 4, 2X |
| 8 | Jul | 7/18/2002 | 51 | 1,600 | <0.5 | 12 | AE07353 | |
| 9 | Aug | 8/26/2002 | 360 | 420,000 | <0.5 | 360 | AE08813 | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|---|-------------|------|--------------|---------|------------------------|---------|------------|
| Serial # | ENV01111401 | | | | | | | |
| Date of Installation | 14-Nov-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID | |
| | | | mg/l | CFU 100mL | mg/l | mg/l | | |
| 1 | Dec | 12/26/2001 | 56 | 24,000 | 0.82 | 44 | AD31116 | |
| 2 | Jan | 1/22/2002 | 42 | 4,200 | 1.3 | 21 | AE00469 | |
| 3 | Feb | 2/28/2002 | 40 | 91,000 | 0.61 | 170 | AE01556 | |
| 4 | Mar | 3/27/2002 | <2 | 16,000 | 1.0 | 55 | AE02394 | Note 1 |
| 5 | Apr | 4/24/2002 | 49 | 137,000 | 2.7 | 82 | AE03671 | |
| 6 | May | 5/21/2002 | 28 | 530,000 | 6.3 | 26 | AE04962 | Note 4, 5X |
| 7 | Jun | 6/19/2002 | 42 | 1,900,000 | 4.7 | 32 | AE06258 | Note 4, 5X |
| 8 | Jul | 7/19/2002 | 17 | 33,000 | 3.2 | 8.0 | AE07414 | Note 4, 2X |
| 9 | Aug | 8/19/2002 | 27 | 150,000 | 1.7 | 28 | AE08538 | Note 4, 2X |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|--|-------------|------|--------------|---------|------------------------|---------|-------------|
| Serial # | ENV01111501 | | | | | | | |
| Date of Installation | 15-Nov-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID | |
| | | | mg/l | CFU 100mL | mg/l | mg/l | | |
| 1 | Dec | 12/26/2001 | 78 | 1,080 | <0.5 | 34 | AD31115 | |
| 2 | Jan | 1/24/2002 | 35 | 12,000 | <0.5 | 32 | AE00551 | |
| 3 | Feb | 2/15/2002 | 38 | 110,000 | <0.5 | 20 | AE01188 | |
| 4 | Mar | 3/28/2002 | 51 | 6,600 | <0.5 | 4.0 | AE02515 | |
| 5 | Apr | 4/25/2002 | 57 | 225 | <0.5 | 12 | AE02732 | |
| 6 | May | 5/29/2002 | 41 | 800 | <0.5 | 11 | AE05259 | Note 4, 10X |
| 7 | Jun | 6/18/2002 | 12 | 4,600 | <2.5 | 15 | AE06126 | Note 5, 5X |
| 8 | Jul | 7/29/2002 | 15 | 3,900 | <2.5 | 3.0 | AE07824 | Note 5, 5X |
| 9 | Aug | 8/13/2002 | 17 | 2,800 | 0.044 | 17 | AE08360 | Note 5, 5X |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |
| | Sample comprised of all nitrite so the nitrate value was essentially zero | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------------|-------------|--------------|---------|------------------------|---------|
| Serial # | | | | | | | |
| Date of Installation | | | 19-Nov-01 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | CFU 100mL | mg/l | mg/l | |
| 1 | Dec | 12/26/2001 | 100 | 6,400 | <0.5 | 38 | AD31118 |
| 2 | Jan | 1/22/2002 | 190 | 310,000 | <0.5 | 27 | AE00468 |
| 3 | Feb | None: Frozen line | | | | | |
| 4 | Mar | 3/27/2002 | 35 | 2,800 | <0.5 | 94 | AE02396 |
| 5 | Apr | 4/24/2002 | >82 | 375 | <0.5 | 74 | AE03732 |
| 6 | May | 5/17/2002 | 140 | 45,000 | <0.5 | 64 | AE04898 |
| 7 | Jun | 6/19/2002 | 33 | 72,000 | <0.5 | 39 | AE06255 |
| 8 | Jul | 7/19/2002 | 42 | 97,000 | 0.55 | 42 | AE07415 |
| 9 | Aug | 8/19/2002 | 460 | 52,000 | <0.5 | 850 | AE08543 |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 3 | Error in dilution for BOD analysis. Value was estimated. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------------------|
| Serial # | ENV01112801 | | | | | | |
| Date of Installation | 28-Nov-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/23/2002 | 39 | 520 | <0.5 | 52 | AE00493 |
| 2 | Feb | 2/28/2002 | 11 | 6 | <0.5 | 13 | AE01558 |
| 3 | Mar | 3/14/2002 | 8 | 12 | <0.5 | 10 | AE02046 |
| 4 | Apr | 4/22/2002 | 4 | <20 | 29 | 12 | AE03566 Note 2 |
| 5 | May | 5/28/2002 | 2.0 | <2 | 8.4 | 20 | AE05228 Note 4, 10X |
| 6 | Jun | 6/17/2002 | <2 | 0 | 3.6 | 1.0 | AE06071 Note 4, 5X |
| 7 | Jul | 7/22/2002 | 4 | 0 | 7.6 | <1 | AE07498 Note 4, 5X |
| 8 | Aug | 8/14/2002 | <2 | 2 | 6.2 | <1 | AE08428 Note 4, 5X |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 2 | Nitrate analysis performed outside of 48 hour holding time. | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|------|-------------------------------|---------|------------------------------|---------------------|
| Serial # | ENV01121101 | | | | | | |
| Date of Installation | 11-Dec-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 | Fecal Coli CFU 100mL | Nitrate | Total Suspended Solids | Lab ID |
| | | | mg/l | | mg/l | mg/l | |
| 1 | Jan | 1/23/2002 | 66 | 1,600 | <0.5 | 27 | AE00495 |
| 2 | Feb | 2/28/2002 | 57 | 38,000 | <0.5 | 48 | AE01557 |
| 3 | Mar | 3/14/2002 | 49 | 1,260,000 | <0.5 | 17 | AE02041 |
| 4 | Apr | 4/24/2002 | >82 | 550,000 | <0.5 | 47 | AE03666 Note 3 |
| 5 | May | 5/17/2002 | 54 | 460,000 | <0.5 | 30 | AE04897 |
| 6 | Jun | 6/17/2002 | 12 | 1,200 | <12 | 33 | AE06083 Note 5, 25X |
| 7 | Jul | 7/19/2002 | 38 | 10,000 | 2.7 | 36 | AE07418 Note 4, 2X |
| 8 | Aug | 8/19/2002 | 1000 | 170,000 | 0.16 | 2100 | AE08541 Note 5, 2X |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 3 | Error in dilution for BOD analysis. Value was estimated. | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| | The actual nitrate value is 6.5 mg/L. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|------------|
| Serial # | ENV01121401 | | | | | | | |
| Date of Installation | 14-Dec-01 | | | | | | | |
| Point of sampling | Leach Field | | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID | |
| 1 | Jan | 1/21/2002 | 80 | 67,000 | <0.5 | 71 | AE00422 | |
| 2 | Feb | 2/22/2002 | 120 | 980,000 | <0.5 | 38 | AE01377 | |
| 3 | Mar | 3/28/2002 | 67 | 54,000 | <0.5 | 60 | AE02514 | |
| 4 | Apr | 4/30/2002 | 170 | 250,000 | <0.5 | 110 | AE03997 | |
| 5 | May | 5/24/2002 | 110 | 110,000 | <0.5 | 94 | AE05135 | |
| 6 | Jun | 6/24/2002 | 78 | 290,000 | <2.5 | 30 | AE06377 | Note 4, 5X |
| 7 | Jul | 7/29/2002 | 330 | 520,000 | <0.5 | 1400 | AE07820 | |
| 8 | Aug | 8/26/2002 | 2400 | 4,600,000 | <0.5 | 5400 | AE08810 | |
| 9 | | | | | | | | |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| Average | | | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|-------------|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | ENV01122001 | | | | | | |
| Date of Installation | 20-Dec-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/21/2002 | 110 | 68,000 | <0.5 | 64 | AE00421 |
| 2 | Feb | 2/13/2002 | 90 | 640,000 | <0.5 | 160 | AE01076 |
| 3 | Mar | 3/28/2002 | 98 | 66,000 | <0.5 | 74 | AE02510 |
| 4 | Apr | 4/23/2002 | 140 | 12,100 | <0.5 | 39 | AE03610 |
| 5 | May | 5/16/2002 | 110 | 150,000 | <0.5 | 54 | AE04854 |
| 6 | Jun | 6/20/2002 | 100 | 520,000 | <0.5 | 94 | AE06309 |
| 7 | Jul | 7/22/2002 | 98 | 910,000 | <0.5 | 37 | AE07497 |
| 8 | Aug | 8/14/2002 | 190 | 630,000 | 0.52 | 320 | AE08426 |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|---|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------------------|
| Serial # | ENV01122401 | | | | | | |
| Date of Installation | 24-Dec-01 | | | | | | |
| Point of sampling | Leach Field | | | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Jan | 1/23/2002 | 62 | 1,400 | <0.5 | 27 | AE00496 |
| 2 | Feb | 2/27/2002 | 38 | 13,000 | <0.5 | 55 | AE01489 |
| 3 | Mar | 3/27/2002 | 5 | 640 | <0.5 | 24 | AE02393 Note 1 |
| 4 | Apr | 4/24/2002 | 63 | 1,600 | <0.5 | 18 | AE03673 |
| 5 | May | 5/21/2002 | 27 | 6,700 | 0.67 | 28 | AE04964 |
| 6 | Jun | 6/19/2002 | 15 | 5,300 | 0.53 | 61 | AE06257 |
| 7 | Jul | 7/19/2002 | 14 | 1,300 | <12 | 37 | AE07417 Note 5, 25X |
| 8 | Aug | 8/22/2002 | 150 | 69,000 | 7.5 | 200 | AE08711 Note 4, 10X |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| Note 5 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| | Dilution necessary because of Nitrite levels. Actual Nitrate was 2.0 mg/L | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|---|-------------|--------------|----------------------------|-----------------|--------------------------------|---------------------|
| Serial # | | | ENV02012501 | | | | |
| Date of Installation | | | 25-Jan-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Feb | 2/27/2002 | 44 | 46,000 | <0.5 | 18 | AE01486 |
| 2 | Mar | 3/27/2002 | 14 | 2,400 | <0.5 | 16 | AE02391 Note 1 |
| 3 | Apr | 4/24/2002 | 58 | 5,500 | <0.5 | 12 | AE03676 |
| 4 | May | 5/21/2002 | 23 | 9,500 | 5.0 | 36 | AE04963 Note 4, 5X |
| 5 | Jun | 6/19/2002 | 51 | 21,000 | <0.5 | 40 | AE06256 |
| 6 | Jul | 7/17/2002 | >180 | 650,000 | <0.5 | 26 | AE07246 Note 6 |
| 7 | Aug | 8/22/2002 | 200 | 1,200,000 | <0.5 | 81 | AE08713 Note 7, 10X |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 1 | Lab reported BOD may be biased due to possible contamination in sample bottles. | | | | | | |
| Note 4 | Reporting limit increased as noted for NO3 to account for dilution factor. | | | | | | |
| Note 6 | Sample stronger than anticipated. BOD could not be brought into analysis range. | | | | | | |
| Note 7 | Reporting limit increased as noted for BOD to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|----------------------------|-----------------|--------------------------------|---------|
| Serial # | | | 02032001 | | | | |
| Date of Installation | | | 20-Mar-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Apr | 4/29/2002 | 35 | 60 | <0.5 | 32 | AE03915 |
| 2 | May | 5/30/2002 | 85 | 1,100,000 | <0.5 | 80 | AE05332 |
| 3 | Jun | 6/21/2002 | 180 | 1,900,000 | <0.5 | 100 | AE06362 |
| 4 | Jul | 7/26/2002 | 160 | 630,000 | <0.5 | 120 | AE07755 |
| 5 | Aug | 8/21/2002 | 3600 | 38,000,000 | <0.5 | 7400 | AE08632 |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 7 | Reporting limit increased as noted for BOD to account for dilution factor. | | | | | | |

| Envirocheck Microbial Generator Performance Data | | | | | | | |
|--|--|-------------|--------------|-------------------------------|-----------------|--------------------------------------|---------|
| Serial # | | | 02032901 | | | | |
| Date of Installation | | | 29-Mar-02 | | | | |
| Point of sampling | | | Leach Field | | | | |
| Sample | Month | Sample Date | BOD5 mg/l | Fecal Coli CFU 100mL | Nitrate mg/l | Total Suspended Solids mg/l | Lab ID |
| 1 | Apr | 4/29/2002 | 290 | 150,000 | <0.5 | 320 | AE03914 |
| 2 | May | 5/23/2002 | 680 | 1,200,000 | <0.5 | 990 | AE05089 |
| 3 | Jun | 6/25/2002 | 1200 | 99,000 | 0.72 | 1900 | AE06408 |
| 4 | Jul | 7/26/2002 | 930 | 210,000 | <0.5 | 1200 | AE07756 |
| 5 | Aug | 8/23/2002 | 410 | 610,000 | <0.5 | 94 | AE08737 |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| Average | | | | | | | |
| Note 7 | Reporting limit increased as noted for BOD to account for dilution factor. | | | | | | |



STATE OF MAINE
DEPARTMENT OF HUMAN SERVICES
BUREAU OF HEALTH, DIVISION OF HEALTH ENGINEERING
161 CAPITOL STREET
11 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0011

JOHN ELIAS BALDACCI
GOVERNOR

JOHN R. NICHOLAS
COMMISSIONER

July 7, 2004

EnviroCheck, Inc.
Attn.: Dana R. Darling, Pres.
P. O. Box 6480
Scarborough, ME 04070-6480

Subject: Revised Product Registration, Knight Treatment Systems *White Knight*

Dear Mr. Knight:

Product Description

The Knight Treatment Systems *White Knight* consists of a 12 inch diameter plastic tube within which is a four inch diameter plastic tube. The space between the tubes is filled with loose spherical plastic media. A remote air pump feeds air to a proprietary diffuser beneath the cusped plates. A biological film is generated, which adheres to the plastic media and provides treatment of the water-borne contaminants. An outlet filter prevents solids carryover. The Knight Treatment Systems *White Knight* is inserted into conventional septic tanks, and a proprietary innoculant is introduced at regular intervals.

Claim

According to the information in our files, the Knight Treatment Systems *White Knight* significantly reduces nitrate and BOD⁵ levels; reduces suspended solids in the effluent; and rejuvenates biologically clogged disposal areas by application of low-nutrient, effluent with relatively high levels of dissolved oxygen. You have submitted additional data demonstrating that ponding in disposal areas is reduced, thereby restoring the absorptive capacity of the disposal area. Ref.: Letter dated 5/20/04 with enclosures. Although the combined BOD⁵ and TSS exceed the reduction limits from Table 603.1 of the Subsurface Wastewater Disposal Rules, you have previously supplied data demonstrating that these levels represent aerobic microorganisms rather than untreated waste. On this basis you have requested a 50% design flow reduction for first time and replacement systems utilizing the Knight Treatment Systems *White Knight*.

Determination

On the basis of the foregoing, the Division has determined that the Knight Treatment Systems *White Knight* is allowed a design flow reduction adjustment of 50%, provided that it is installed, operated, and maintained in conformance with the manufacturer's directions and Purchase/Installation Agreement.

Because installation and owner maintenance has a significant effect on the working order of onsite sewage disposal systems, including their components, the Division makes no representation or guarantee as to the efficiency and/or operation of Knight Treatment Systems *White Knight*. Further, registration of this product for use in the State of Maine does not represent Division preference or recommendation for this product over similar products.

If you have any questions please feel free to contact me at (207) 287-5695.

Sincerely,


James A. Jacobsen, Environmental Specialist IV
Wastewater and Plumbing Control Program
Division of Health Engineering
e-mail: james.jacobsen@maine.gov

/jaj

xc: Product File



May 20, 2004

RECEIVED

MAY 20 2004

WASTEWATER &
PLUMBING PROGRAM

Mr. James J. Jacobsen, Environmental Specialist IV
Wastewater and Plumbing Control Program
Division of Health Engineering
Maine Department of Human Services
10 State House Station
Augusta, ME 04333-0010

Dear Mr. Jacobsen:

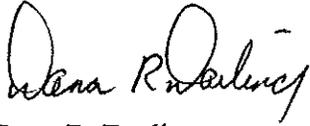
The enclosed report provides evidence that the White Knight™ Microbial Inoculator/Generator successfully lowers the effluent level in soil absorption systems. As we demonstrated during our testing program for State of Maine General Use approval, the White Knight™ dramatically improves the quality of the effluent leaving the septic tank. The effluent level data included in this report goes further and shows the end result of the biological and chemical processes occurring not only within the tank but also in the soil absorption system. In the forty systems referenced in this report, we have been able to achieve a mean effluent level drop of 4.9" below the top of the soil absorption system. The median drop for these same forty systems is 4.5". Since all of these systems were completely flooded at the time of the installation of the White Knight™, we believe we have proven conclusively that we are able to restore and increase the downward flow of effluent into the underlying soil.

The White Knight™ not only stops the normal biological clogging process but also actually increases the permeability of the infiltrative surface while retaining the beneficial filtering attributes of the biomat. For this reason, we are requesting a 50% reduction allowance for any new or replacement soil absorption system where the White Knight™ Microbial Inoculator/Generator is installed in the septic tank.

We are also submitting an informal data table that includes 69 monthly data lines from our General Use approval testing program to support our earlier contention that denitrification is occurring in septic tanks where the White Knight™ has been installed. Although we have no data from beneath these soil absorption systems, we believe this denitrification process is continuing in the SAS as well. Our future research initiatives will include sampling from beneath the SAS to confirm or refute this assumption.

Thank you for your consideration of our request for the soil absorption system reduction allowance. We are looking forward to your response.

Sincerely,

A handwritten signature in black ink, appearing to read "Dana R. Darling". The signature is fluid and cursive, with a large initial "D" and "R".

Dana R. Darling
Vice President
EnviroCheck,inc.

**Soil Absorption System Effluent Level Data:
Update Report for the Division of Health Engineering,
Maine Department of Human Services**

November 20, 2003

Submitted by

**EnviroCheck, inc.
Scarborough, ME**

Purpose of the Report

This report provides evidence of the efficacy of the White Knight™ Microbial Inoculator/Generator in restoring the downward flow of effluent in a failed or failing soil absorption system.

Overview

A portion of the aerobic bacteria cultivated within the White Knight™ Microbial Inoculator/Generator are carried in the wastewater stream to the soil absorption system. In the SAS, these bacteria consume a sufficient amount of the organic clogging material to partially restore the downward flow of effluent into the underlying soil. The predicted result is a lowering of the effluent level in the SAS.

All of the listed septic systems had effluent levels at or above the top of the soil absorption system at the time of the installation of the White Knight™ Microbial Inoculator/Generator.

This report presents data on 40 systems in which the White Knight™ Microbial Inoculator/Generator has lowered the effluent level of a flooded system below the top of the soil absorption system.

Methodology

All of the soil absorption system data presented in this report were gathered from 4" diameter observation wells installed within the perimeter of the SAS or, in the case of plastic or concrete chambers, immediately adjacent to the SAS with provisions for flow between the SAS and the well. Each well extends from the surface to the bottom of the SAS. All of these wells were installed in conjunction with the installation of the White Knight™ Microbial Inoculator/Generator in the septic system.

Explanation of the Table

ENV Serial Number: This eight digit code indicates the date of installation and the consecutive number of the installation when two or more were installed on the same date. For example,

ENV 01100801 Year *01* Month *10* Date *08* Consecutive No. *01*

Top: Distance from grade to top of Soil Absorption System

Bot: Distance from grade to bottom of Soil Absorption System

Level: Effluent level below grade

Drop: Depth of effluent in well relative to top of Soil Absorption System

Daily Precipitation

Many of these measurements were taken during a period of higher than normal rainfall. The following daily precipitation data were supplied directly by the National Weather Service office in Gray, ME, and are the actual rainfall amounts measured at the Portland, ME, International Jetport. All of the systems in this report are within 45 miles of Portland. No data is available to more precisely indicate total rainfall at each system location.

| Date | Total Precipitation | |
|-------------|----------------------------|-----------------------------------|
| Sep 4 | 1.54" | Total Sep, 03 Precipitation 4.68" |
| Sep 16 | 1.15" | Normal Sep Precipitation 3.37" |
| Sep 19 | 0.66" | |
| Sep 23 | 0.58" | Difference +1.31" |
| Sep 26 | 0.62" | |
| Sep 28 | 0.09" | |
| Sep 29 | 0.04" | |
| | | |
| Oct 4 | 0.56" | Total Oct, 03 Precipitation 5.59" |
| Oct 12 | 0.76" | Normal Oct Precipitation 4.40" |
| Oct 15 | 1.63" | |
| Oct 21 | 0.09" | Difference +1.19" |
| Oct 23 | 0.15" | |
| Oct 27 | 0.97" | |
| Oct 29 | 1.43" | |
| | | |
| Nov 2 | 0.04" | |
| Nov 3 | 0.25" | |
| Nov 4 | 0.17" | |
| Nov 5 | 0.32" | |
| Nov 12 | 0.06" | |
| Nov 13 | 0.18" | |

Master Composite, Jan 04

| Test Date | Sample Point | O2 ppm | PH | Temp C | Alkal ppm | NH3 mg/l | NO3 mg/l | Nsum mg/l | PO4 mg/l | BOD5d mg/l | TSS mg/l | Fecal Cof CFU/ml |
|-----------|-------------------|-----------|-----|-----------|--------------|-------------|-------------|--------------|-------------|---------------|-------------|---------------------|
| 9/20/02 | Orengo Filter | 4.2 | 7.4 | 23.2 | 100 | 25 | <0.5 | 25 | 15 | 56 | 40 | 190 |
| 10/11/02 | Orengo Filter | 5.7 | 7 | 19 | 40 | 13 | <0.5 | 13 | 8 | 47 | 21 | 2,300 |
| 11/8/02 | Orengo Filter | 5.6 | 6.6 | 13.5 | 0 | 4 | 0.5 | 4.05 | 6 | 14 | 8 | 48 |
| 6/25/02 | Disch Sample Tube | 3.4 | 7.6 | 23.3 | 120 | 30 | <0.5 | 30 | 15 | 23 | 19 | 900 |
| 7/22/02 | Orengo Filter | 5.4 | 7.7 | 21.9 | 100 | 28 | <0.5 | 28 | 14 | 130 | 270 | 160,000 |
| 8/14/02 | Orengo Filter | 1.2 | 6.9 | 24.8 | 80 | 26 | 0.82 | 26.82 | 26 | 150 | 320 | 1,900 |
| 9/27/02 | Orengo Filter | 6 | 6.5 | 18.2 | 0 | 10 | 12 | 22 | 8 | 23 | 11 | 22,000 |
| 10/18/02 | Orengo Filter | 6.8 | 6 | 14.7 | 0 | 10 | 11 | 21 | 10 | 22 | 20 | 220 |
| 11/11/02 | Orengo Filter | 8 | 5.7 | 13.9 | 0 | 12 | 13 | 25 | 7 | 28 | 26 | 2,000 |
| 5/28/02 | Discharge Chimney | 8.7 | 7.1 | 17.7 | 20 | 12 | 3.4 | 15.4 | 15 | 18 | 20 | 4,000 |
| 9/27/02 | Orengo Filter | 4.4 | 6.9 | 20.6 | 50 | 16 | <0.5 | 16 | 10 | 48 | 65 | 1,200 |
| 10/18/02 | Orengo Filter | 3.8 | 7.2 | 18.2 | 80 | 20 | <0.5 | 20 | 8 | 49 | 37 | 37,000 |
| 11/11/02 | Orengo Filter | 4.5 | 6.8 | 16.9 | 0 | 10 | 0.78 | 10.78 | 9 | 10 | 3 | 600 |
| 8/26/02 | Tank Center | 6 | 7.1 | 21.1 | 20 | 10 | 3.1 | 13.1 | 12 | 78 | 140 | 9,300 |
| 9/26/02 | Tank Center | 4.6 | 6.6 | 18.4 | 20 | 4 | 0 | 4 | 26 | 120 | 190 | 22,000 |
| 10/30/02 | Tank Center | 6.5 | 8 | 14.1 | 120 | 18 | <0.5 | 18 | 13 | 65 | 56 | 24,000 |
| 11/26/02 | Tank Center | 9 | 7.5 | 11.3 | 0 | 0 | 5.9 | 5.9 | 11 | 64 | 31 | 440 |
| 12/30/02 | Tank Center | 8.5 | 7.5 | 4.9 | 10 | 6 | 6.5 | 12.5 | 15 | 33 | 24 | 3,900 |
| 1/24/03 | Tank Center | 9 | 6.7 | 5.9 | | 11 | 2.6 | 13.6 | 14 | 74 | 32 | 200 |
| 2/13/02 | Dis Sample Tube | 4.9 | 6.7 | 6.7 | 120 | 22 | <0.5 | 22 | 0.3 | 21 | 26 | 28,000 |
| 3/20/02 | DST | 10.7 | 7.4 | 9.1 | 60 | 10 | <0.5 | 10 | nd | 16 | 24 | 86,000 |
| 4/17/02 | Filter (P) | 8.3 | 7.6 | 14.6 | 180 | 22 | <0.5 | 22 | nd | 48 | 88 | 31,000 |
| 5/23/02 | Polylock Filter | 5.2 | 7.7 | 17.6 | 240 | 18 | 3.2 | 21.2 | 5 | 49 | 80 | 85,000 |
| 6/20/02 | Polylock Filter | 6.2 | 8 | 19.8 | 240 | 27 | 2.5 | 29.5 | 12 | 100 | 220 | 660,000 |
| 7/15/02 | Polylock Filter | 4.8 | 7.9 | 19.8 | 240 | 8 | 0.35 | 8.35 | 8 | 44 | 70 | 160,000 |
| 8/19/02 | Orengo Filter | 4.2 | 7.7 | 23.8 | 210 | 20 | 0 | 20 | 16 | 120 | 210 | 86,000 |
| 9/20/02 | Orengo Filter | 5 | 7.3 | 18.8 | 240 | 12 | 2.2 | 14.2 | 10 | 76 | 150 | 51,000 |
| 10/18/02 | Orengo Filter | 7.3 | 7.6 | 13 | 160 | 12 | 7.6 | 19.6 | 6 | 84 | 97 | 92,000 |
| 1/16/02 | Dis Chimney | 9.2 | 6 | 8.9 | 0 | n/a | 17 | | n/a | 13 | 35 | 980 |
| 2/12/02 | Dis Filter (Z) | 7 | 7.1 | 8.1 | 60 | 12 | 16 | 28 | 16 | 18 | 27 | 8 |
| 3/13/02 | Filter (Z) | 8.7 | 8.1 | 11.5 | 80 | 14 | 12 | 26 | 23 | 20 | 18 | 720 |
| 4/18/02 | Filter (Z) | 8 | 7.4 | 12.9 | 100 | 6 | 18 | 24 | 20 | 26 | 11 | 60 |
| 6/17/02 | Zabel Filter | 8 | 7.7 | 20.3 | 150 | 27 | 5.1 | 32.1 | 30 | <2 | 28 | 44,000 |
| 7/19/02 | Zabel Filter | 3 | 7.6 | 22 | 200 | 19 | 14 | 33 | 40 | 30 | 24 | 310,000 |
| 8/26/02 | Orengo Filter | 2.7 | 7.6 | 24.8 | 120 | 14 | 22 | 36 | 30 | na | 160 | 3,400 |
| 9/26/02 | Orengo Filter | 3.3 | 7.7 | 20.4 | 120 | 6 | 8.5 | 14.5 | 25 | 4 | 24 | 390 |
| 10/30/02 | Dis Filter | 5.5 | 7.7 | 12.8 | 80 | 6 | 18 | 24 | 24 | 260 | 320 | 37,000 |
| 11/26/02 | Orengo Filter | 5.3 | 7.5 | 10.1 | 0 | 0 | 23 | 23 | 25 | 170 | 120 | 48,000 |
| 5/28/02 | Discharge Chimney | 4.6 | 7.4 | 21.6 | 120 | 20 | 1.5 | 21.5 | 20 | 41 | 36 | 10,000 |
| 6/19/02 | Discharge Chimney | 3.8 | 7.7 | 22 | 180 | 20 | 0.06 | 20.06 | 25 | 64 | 55 | 83,000 |
| 8/22/02 | Orengo Filter | 4.8 | 7.8 | 23.6 | 200 | 21 | 0 | 21 | | 120 | 180 | 380,000 |
| 9/13/02 | Orengo Filter | 5.5 | 7.6 | 21.8 | 240 | 22 | 0.56 | 22.56 | 23 | 64 | 19 | 1,700 |
| 10/11/02 | Orengo Filter | 4 | 7.4 | 19.7 | 150 | 8 | <0.5 | 8 | 16 | 220 | 210 | 26,000 |
| 11/8/02 | Orengo Filter | 5 | 7.4 | 13.8 | 80 | 8 | 7.5 | 15.5 | 6 | 50 | 43 | 6,300 |
| 1/21/02 | Dis Sample Tube | 7.6 | 7.3 | 10.4 | 160 | n/a | 1.5 | | n/a | 25 | 38 | 9,300 |
| 3/28/02 | DST | 8.6 | 7.2 | 13.1 | 100 | 20 | 0.74 | 20.74 | 20 | <2 | 34 | 43,000 |
| 4/25/02 | DST | 8.2 | 7.2 | 16.2 | 80 | 12 | 6 | 18 | 25 | 42 | 20 | 4,700 |
| 5/24/02 | Disch Sample Tube | 6.1 | 7 | 21.3 | 40 | 17 | 35 | 52 | 40 | 35 | 25 | 61,000 |
| 6/13/02 | Disch Sample Tube | 5.1 | 7.5 | 19.7 | 90 | 24 | 12 | 36 | >45 | 32 | 19 | 1,300 |
| 7/29/02 | Orengo Filter | 2.4 | 7.4 | 25 | 100 | 9 | <0.5 | 9 | 45 | 100 | 260 | 24,000 |

