

The Quittapahilla Watershed Association meeting  
Thursday, May 2nd at 7:00 P.M. in the Lebanon Agriculture Center.

1. The Penna Assoc of Conservation Districts awards luncheon is Monday, July 22nd.  
Anyone interested let me know and I can give you the address and time.  
Harrisburg Hilton and Towers = corner of 2nd and Market Streets

2. Jay Braund video

### **3. Water Testing: Quittie Park Location**

Saturday - 4/ 20/ 02

weather conditions - hot through the week, showers night before, clear 4/ 20

average stream depth - estimated 2.5 - 3.5 feet

average stream width - estimated 15 to 18 feet

water temperature 61oF or 16oC

stream flow - moderate

stream appearance - cloudy

Chemical Test Results -

Dissolved Oxygen - 7 ppm = 73% saturation

pH - 7.5 (visual reading) on a scale of 1 to 14, where neutral = 7.0

Carbon Dioxide - 18 ppm

Nitrates - 30.8 ppm - ((1 ppm = polluted water, 5 ppm = level to harm environment, 10 ppm produced oxygen deprivation in aquatic animals (brown blood syndrome) and risk of blue baby syndrome in infants and young children, risk to pregnant mothers))

Phosphates - 0 ppm

Biology Observations - limited to banks, water too deep for our boots to get into mid-stream

those most sensitive to pollution - caddisfly (in great abundance)

those moderately sensitive to pollution - water scavenger beetle  
crayfish (in great abundance) scuds (several)

those least sensitive to pollution - aquatic worms  
black fly larva (several) midge larva limpet (several)  
orb snail pouch snail

### **4. Water Testing: Quittie - Cleona Farm west of bridge**

Saturday - 4/ 20/ 02

weather conditions - hot through the week, showers night before, clear 4/ 20

average stream depth - estimated 1.5 - 2 feet

average stream width - estimated 9 - 12 feet

water temperature 61oF or 16oC

stream flow - moderate

stream appearance - clear

Chemical Test Results -

Dissolved Oxygen - 7 ppm = 73% saturation

pH - 7.5 (visual reading) on a scale of 1 to 14, where neutral = 7.0

Carbon Dioxide - 22 ppm

Nitrates - 30.8 ppm - (( 1 ppm = polluted water, 5 ppm = level to harm environment  
10 ppm produced oxygen deprivation in aquatic animals  
(brown blood syndrome) and risk of blue baby syndrome in infants and young children,  
risk to pregnant mothers))

Phosphates - 5.0 ppm

Biology Observations - able to wade into stream to obtain samples

those most sensitive to pollution - caddisfly (in very great abundance)  
gilled snail fresh water clams (quite numerous)

those moderately sensitive to pollution - water scavenger beetle  
crayfish (in great abundance) scuds (several)

those least sensitive to pollution - aquatic worms leeches (in very great abundance)

5. Subject: StreamBank work

Progress Report for April to the QCWA

On April 6th we cleaned up the trash in the Hazel Dike in the City of Lebanon.

On April 18th, Lebanon Valley College students and staff moved rock into the stream from the remaining stone in five piles along the Quittapahilla as part of their "Dutchman Day".

On April 20th live stakes of silky dogwood and streamco willow were planted along the banks of the Quittapahilla Creek in Cleona and the

Quittie Creek Nature Park in Annville.

"Live stakes" were planted into the stream bank: (1) for a distance of 1200 feet in the Cleona Borough Park and the property on the other side of the stream from the park; (2) an additional 330 feet were planted at the Cleona Pumping Station; (3) 1500 feet were planted in the Quittie Creek Nature Park in Annville; and (4) almost 2000 feet on the south side of the Quittie Park in Annville were planted under the supervision of Greg Brandt, a boy scout, doing the project for his eagle badge. A very productive day. Thanks to all who participated.

While at the Cleona Borough Park, it was noted that almost 100% of the trees and shrubs planted November 10th last year are growing. We were amazed at the survival rate.

6. Work this summer

More stream bank work in Quittie Park  
volunteer groups and community service groups

Inventory of trees and shrubs that have been planted

7. Third stream channel design summit

Quittapahilla Watershed-

Barry Evans - nutrient and sediment modeling

Skelly and Loy - storm water runoff modelling

Rocky Powell - geomorphic stream mapping

Root wad - Allen Woods

8. Grants

Rocky Powell's

USFWS - \$25,000.

9. LCCTC - cement pad and wetland

10. Date of next meeting: July 11, 2002