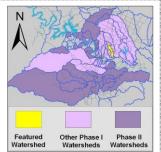
Summary Sheet

| | 2000 | cover (2013 es 2003 | 2006 | 2009 | 2011 | 2013 | | | | | |
|--------------|---------------|------------------------|------|------------------|--------|------|--------|--|--|--|--|
| Land Use | | cover (2003 es | | 38.2 % 38.9 % | | | | | | | |
| | 30 year proje | ected % increa | ise | 17 % | | | | | | | |
| | 2030 project | ted population | | 19,659 | 19,659 | | | | | | |
| Demographics | 2000 popula | | | 16,796 | | | Jane S | | | | |
| | Receiving w | ater | | Boggy Cree | k | | N | | | | |
| | Creek length | 1 | | 6 miles | | | | | | | |
| | Area in rech | arge | | none | | | N *3 | | | | |
| Catchment | Total area | | | 3 square mi | les | | | | | | |



Flow Regime* for Sample Sites on Fort Branch Upstream to Downstream

| | | | | | | - 0 | _ | | . 1 | | | | | - | _ | | - | - 1 | | | | _ | | | - | | | | | |
|-------|-------------|-----|--------|-----|-----|--------|--------|-----|------|------|------|------|------|-----|-----|-----|-------|------|-----|-------|------|-------|------|------|-----|------|-----|-----|-------|-----|
| | | 20 | 01 | | | 20 | 03 | | | | 2 | 2006 | ŝ | | | 2 | 2009 |) | | 2010 | | 2 | 011 | | | | 20 | 013 | | |
| Site | Site Name | Feb | Feb | Feb | Mar | Mar | May | Sep | Dec | Feb | May | Jul | Aug | Nov | Feb | May | Jun | Oct | Dec | Dec | Mar | Jun | Jun | Sep | Jan | Apr | Мау | Jun | Jun | Sep |
| | | WQ | Bio | WQ | WQ | Bio | WQ | WQ | WQ | WQ | WQ | Bio | WQ | WQ | WQ | WQ | Bio | WQ | WQ | WQ | WQ | WQ | Bio | WQ | WQ | WQ | Bio | WQ | Bio | WQ |
| 126 | Glencrest | В | В | В | В | В | В | В | В | В | В | В | В | В | В | В | n | В | В | В | В | n | n | n | В | В | В | В | | n |
| 125 | us Manor | В | В | В | В | В | В | В | В | В | В | В | n | В | n | n | n | n | n | n | n | n | В | n | n | n | n | n | | n |
| 898 | Single Shot | В | В | В | В | В | В | В | n | n | n | n | n | n | n | n | n | n | В | n | n | n | n | n | n | n | n | n | | n |
| 123 | BOG | В | В | В | В | В | В | В | n | n | n | n | n | n | n | n | n | n | В | n | n | n | n | n | | | | | | |
| 5400 | Tura Ln | | | | | | | | | | | | | | | | | | | | | | | | n | n | | n | n | n |
| * B : | = baseflow | n: | = no f | low | S: | = stor | m flov | w | blue | = Sa | ımpl | es v | vere | tak | en | lig | ght l | olue | = S | ample | s we | ere r | ot t | aken | | blan | k = | not | visit | ed |

Index scores* for Fort Branch Creek Sites by Year

| Reach | Site | Site Name | Year | Water Quality | Sediment** | Contact Rec. | Non-Contact Rec. | Physical Integrity | Aquatic Life | Benthic subindex | Diatom subindex | Total Ell Score |
|-------|------|--|------|---------------|------------|--------------|---------------------|-----------------------|--------------|---------------------|--------------------|--------------------|
| FOR1 | 123 | Fort Branch Creek @ North Boggy Creek | 2000 | 65 | 88 | 86 | 69 | 31 | 37 | 31 | 42 | 63 |
| FOR2 | 898 | Fort Branch Creek @ Single Shot Circle | 2000 | 62 | 88 | 71 | 67 | 39 | 32 | 40 | 23 | 60 |
| FOR3 | 125 | Fort Branch Creek Upstream of Manor Rd | 2000 | 59 | 88 | 78 | 67 | 33 | 34 | 29 | 39 | 60 |
| FOR4 | 126 | Fort Branch Creek @ Glencrest Drive | 2000 | 45 | 88 | 73 | 72 | 43 | 17 | 31 | 3 | 56 |
| FOR1 | 123 | Fort Branch Creek @ North Boggy Creek | 2003 | 68 | 78 | 79 | 74 | 43 | 22 | 19 | 24 | 61 |
| FOR2 | 898 | Fort Branch Creek @ Single Shot Circle | 2003 | 49 | 78 | 41 | 60 | 46 | 21 | 25 | 16 | 49 |
| FOR3 | 125 | Fort Branch Creek Upstream of Manor Rd | 2003 | 54 | 78 | 71 | 75 | 41 | 15 | 17 | 12 | 56 |
| FOR4 | 126 | Fort Branch Creek @ Glencrest Drive | 2003 | 33 | 78 | 62 | 73 | 44 | 20 | 26 | 14 | 52 |
| FOR1 | 123 | Fort Branch Creek @ North Boggy Creek | 2006 | | 67 | | 35 | 37 | | | | 35 |
| FOR2 | 898 | Fort Branch Creek @ Single Shot Circle | 2006 | | 67 | | 71 | 49 | | | | 47 |
| FOR3 | 125 | Fort Branch Creek Upstream of Manor Rd | 2006 | 75 | 67 | 60 | 75 | 41 | 66 | 62 | 70 | 64 |
| FOR4 | 126 | Fort Branch Creek @ Glencrest Drive | 2006 | 44 | 67 | 25 | 89 | 59 | 42 | 39 | 44 | 54 |
| FOR1 | 123 | Fort Branch Creek @ North Boggy Creek | 2009 | 79 | 77 | 54 | 12 | 34 | | | | 43 |
| FOR2 | 898 | Fort Branch Creek @ Single Shot Circle | 2009 | 71 | 77 | 36 | 28 | 33 | | | | 41 |
| FOR3 | 125 | Fort Branch Creek Upstream of Manor Rd | 2009 | | 77 | | 63 | 51 | | | | 48 |
| FOR4 | 126 | Fort Branch Creek @ Glencrest Drive | 2009 | 65 | 77 | 28 | 55 | 56 | 39 | 27 | 50 | 53 |
| FOR1 | 123 | Fort Branch Creek @ North Boggy Creek | 2011 | | | | 25 | 56 | | | | 27 |
| FOR2 | 898 | Fort Branch Creek @ Single Shot Circle | 2011 | | | | 55 | 52 | 49 | 49 | 48 | 52 |
| FOR3 | 125 | Fort Branch Creek Upstream of Manor Rd | 2011 | | | | 51 | 45 | 61 | 61 | | 52 |
| FOR4 | 126 | Fort Branch Creek @ Glencrest Drive | 2011 | 67 | | 26 | 60 | 25 | | | | 36 |
| FOR1 | 5400 | Fort Branch @ Tura Ln | 2013 | | 83 | | 38 | 58 | 53 | 53 | | 58 |
| FOR2 | 898 | Fort Branch Creek @ Single Shot Circle | 2013 | | 83 | | 27 | 54 | | | | 41 |
| FOR3 | 125 | Fort Branch Creek Upstream of Manor Rd | 2013 | | 83 | | 58 | 56 | | | | 49 |
| FOR4 | 126 | Fort Branch Creek @ Glencrest Drive | 2013 | 55 | 83 | 31 | 58 | 62 | 52 | 55 | 49 | 57 |

* blank cells indicate parameter was not collected, blank row indicate site was dropped **sediment samples only collected at the downstream site 100-87.5 Excellent 87.5-75 V. Good 75-62.5 Good 62.5-50 Fair 50-37.5 Marginal 37.5-25 Poor 25-12.5 Bad 12.5-0 V. Bac

Fort Branch Watershed Land Use Map DIELARD Single Family 0840 AIRPORT Large Lot Single-Family 290 HWY Multi-Family 0 AVENUE Commercial KOEMIGIN Office MNDERBILT Industrial Mining/Landfill \$57H Civic LEHIGH Open/Undeveloped/Ag (PENNIETY WILLAMETTE Park/Golf Course Park/Preserve Transportation Land Use 2008, 2010 4BRD MORTHEAST SUE RNOLD WESTWOOR BROADMOOR DENO, 6757 HYGREEK BARBARA JORDAN PAR OMENA BEATWOOD (ELINGS W PARTIOOD . Phinops 13AD ROENWOOD PHILOMENA ALORICH MC BEEF N SIMONO MISHIRE SCHIEFFER CAMACHO ZACH SCOTT MYSURN LOVELL MC CLOSKEY STH SONO 898 ANTONE 80 TA YORTHDALE TOM MILLER BASFORD ANCHOR MANAW LARRY ED BLUEST 969 ESLE GLOMAR 22ND = MARTIN LUTHER KING JR ENCINO 22ND TRACOR REAL 2151 ORE TO TILLERY 20TH TRACOR PATE THE THE PATE OF THE PATE heth WITH TOTH CHNICEN VEBB PENNSYLVANIA 14 TH BLUESTE SOLWILSON PEYES 20 E S CREST OAK SPRINGS TRNNEY STABBA N

DEUNAU

Current Sites (2011-2012)
All Ell Sites (1999-2012)
Recharge Zone

Watershed & Reach-Subwatersheds

Aerial Map FM 2222 Broadmoor Dr Aldrich St Q FM 969 Current Sites (2011-2012) All Ell Sites (1999-2012) Creeks TLAP Fields Permitted Wastewater Outfalls Known Springs Golf Fairways Parks, Preserves, BCP, WQPL 2011 Imagery 2 0.5

Fort Branch Watershed

Water Quality Data – <u>Temperature, Conductivity, pH, Dissolved Oxygen & E. coli</u> <u>for 2013 Sample Sites</u> (Downstream to Upstream)

| Qualifiers to | > | greater than | Qualifiers to | (blank) | Useable |
|---------------|-----|---------------------------|---------------|---------|------------------------|
| the left of | ٧ | less than | the right of | S | Exceeds standard range |
| value: | < J | less than detection limit | value: | В | Dejected foiled OC |
| | J | Estimated | | R | Rejected, failed QC |

| | | | | Temp. | | | Cond. | | | рН | | | D.O. | | | E.coli | |
|-------------------------|--------------|------------|----|-------|------|----|-------|------|----|-------|------|----|-------|------|----|--------|------|
| Site Name | Site # Reach | Date | <> | Value | flag | <> | Value | flag |
| Fort Branch @ Glencrest | 126 FOR4 | 01/22/2013 | | 13.2 | | | 725 | | | 7.77 | | | 10.3 | | | 185.0 | |
| Fort Branch @ Glencrest | 126 FOR4 | 04/24/2013 | | 13.7 | | | 470 | | | 7.61 | | | 6.3 | | | 721.5 | |
| Fort Branch @ Glencrest | 126 FOR4 | 06/26/2013 | | 25.9 | | | 424 | | | 7.83 | | | 5.9 | | > | 2419.6 | |
| Site 126 Mean | | | | 17.6 | | | 540 | | | 7.74 | | | 7.5 | | | 1108.7 | |
| Watershed Mean | | | | 17.6 | | | 540 | | | 7.74 | | | 7.5 | | | 1108.7 | |

Orange highlighting indicates that the value exceeds one standard deviation from the mean of all E.I.I. sites combined.

| | Summary Statistics for all 2013 – 2014 E.I.I. Sites Combined. | | | | | | | | | | |
|----------------------|---|----------------------|----------------------|-------------------------------|-------------------------------|--|--|--|--|--|--|
| Parameter | 2013-2014 Average | 2013-2014 Minimum | 2013-2014 Maximum | 1 Standard Deviation Above | 1 Standard Deviation Below | | | | | | |
| Temperature (C°) | 19.6 | 8.6 | 34.0 | 25.8 | | | | | | | |
| Conductivity (uS/cm) | 711 | 107 | 1783 | 942 | | | | | | | |
| pH (Standard units) | 7.86 | 6.96 | 8.97 | 8.19 | 7.52 | | | | | | |
| D.O. (mg/l) | 8.1 | 1.2 | 30.5 | 11.4 | 4.8 | | | | | | |
| E.coli. (col/100ml) | 435 | 1 | 4840 | 1127 | | | | | | | |

Water Quality Data – <u>Ammonia, Nitrate / Nitrite, Ortho-Phosphorus, Total Suspended Solids & Turbidity</u> <u>for 2013 Sample Sites</u> (Downstream to Upstream)

| Qualifiers to | > | greater than | Qualifiers to | (blank) | Useable |
|---------------|----------|---------------------------|---------------|---------|------------------------|
| the left of | ' | less than | the right of | S | Exceeds standard range |
| value: | < J | less than detection limit | value: | 0 | Dairetad failed OC |
| | J | Estimated | | R | Rejected, failed QC |

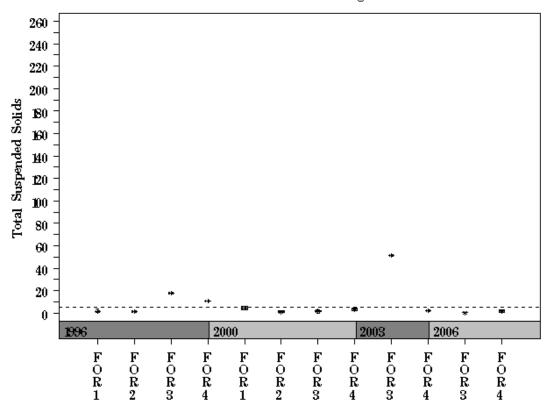
| | | | | NH3-N | | 1 | NO3/NO | 2 | | Ortho-P | | | T.S.S. | | | Turb. | |
|-------------------------|--------------|------------|---------------|-------|------|----------|--------|------|----------|---------|------|---------------|--------|------|----------|-------|------|
| Site Name | Site # Reach | Date | ^ | Value | flag | ^ | Value | flag | ^ | Value | flag | ^ | Value | flag | ^ | Value | flag |
| Fort Branch @ Glencrest | 126 FOR4 | 01/22/2013 | < J | 0.008 | | J | 0.01 | | | 0.016 | | < J | 1.0 | | | 1.4 | |
| Fort Branch @ Glencrest | 126 FOR4 | 04/24/2013 | | 0.097 | R | | 0.39 | | | 0.024 | | | 2.3 | | | 5.9 | R |
| Fort Branch @ Glencrest | 126 FOR4 | 06/26/2013 | | 0.049 | | | 0.23 | | | 0.189 | | | 3.1 | | | 6.3 | |
| Site 126 Mean | | | | 0.051 | | | 0.21 | | | 0.076 | | | 2.1 | | | 4.6 | |
| Watershed Mean | | | | 0.051 | | | 0.21 | | | 0.076 | | | 2.1 | | | 4.6 | |

Orange highlighting indicates that the value exceeds one standard deviation from the mean of all E.I.I. sites combined.

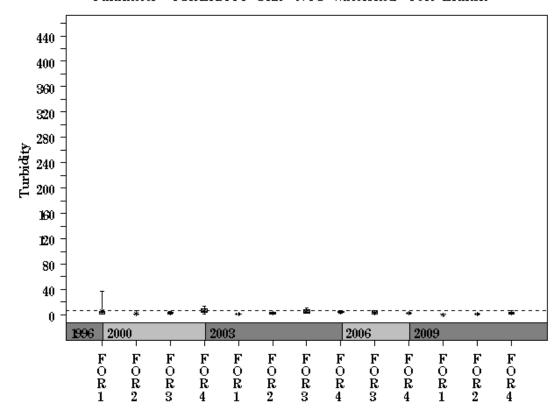
| | Summary Statistics for all 2013 – 2014 E.I.I. Sites Combined. | | | | | | | | | | | |
|-----------------|---|----------------------|----------------------|-------------------------------|--|--|--|--|--|--|--|--|
| Parameter | 2013-2014 Mean | 2013-2014 Minimum | 2013-2014 Maximum | 1 Standard Deviation Above | | | | | | | | |
| NH3-M (mg/l) | 0.031 | 0.008 | 2.250 | 0.150 | | | | | | | | |
| NO3-N (mg/l) | 1.16 | 0.01 | 16.30 | 4.02 | | | | | | | | |
| Ortho-P (mg/l) | 0.041 | 0.004 | 1.360 | 0.164 | | | | | | | | |
| TSS (mg/l) | 5.6 | 1.0 | 70.0 | 15.3 | | | | | | | | |
| Turbidity (NTU) | 4.5 | 0.0 | 97.1 | 13.2 | | | | | | | | |

Data Summary Graphs – <u>Total Suspended Solids</u> and <u>Turbidity</u> (Downstream to Upstream by Year)

Parameter = TOTAL SUSPENDED SOLIDS Unit = mg/L Watershed = Fort Branch

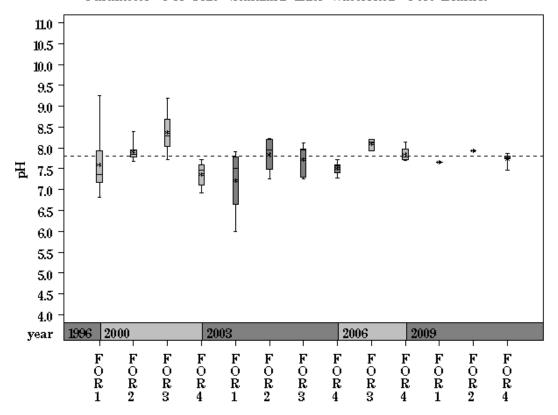


Parameter = TURBIDITY Unit = NTU Watershed = Fort Branch

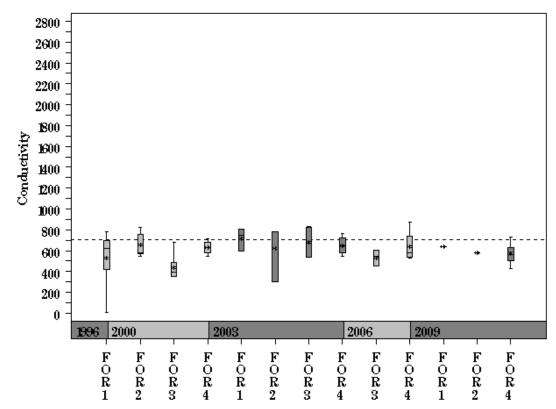


Data Summary Graphs – <u>pH</u> and <u>Conductivity</u> (Downstream to Upstream by Year)

Parameter=PH Unit=Standard units Watershed=Fort Branch

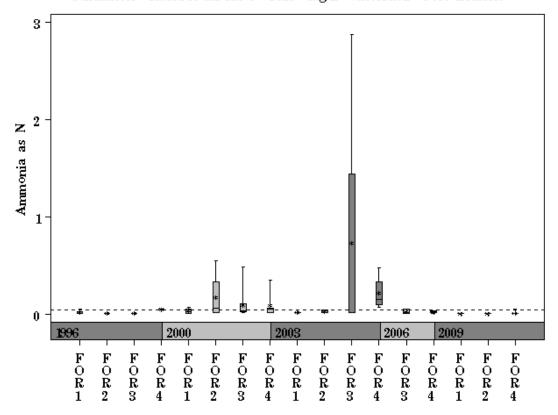


Parameter = CONDUCTIVITY Unit = uS/cm Watershed = Fort Branch

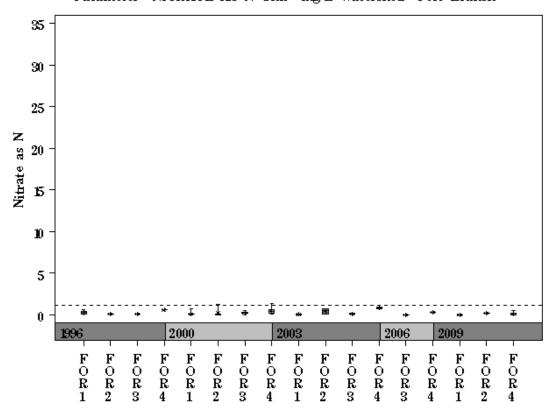


Data Summary Graphs – <u>Ammonia</u> and <u>Nitrate/Nitrite</u> (Downstream to Upstream by Year)

Parameter= AMMONIA AS N Unit= mg/L Watershed= Fort Branch

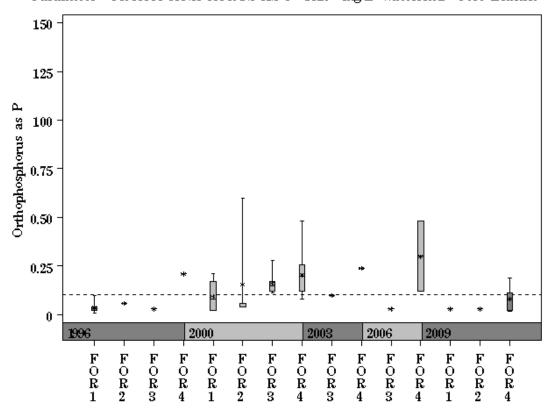


Parameter=NITRATE AS N Unit=mg/L Watershed=Fort Branch

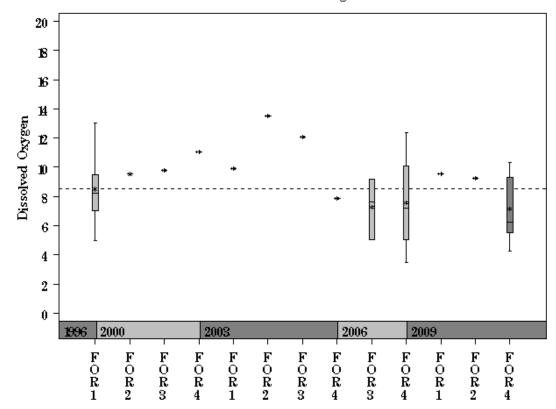


Data Summary Graphs - Orthophosphate and Dissolved Oxygen (Downstream to Upstream by Year)

Parameter=ORTHOPHOSPHORUS AS P Unit=mg/L Watershed=Fort Branch

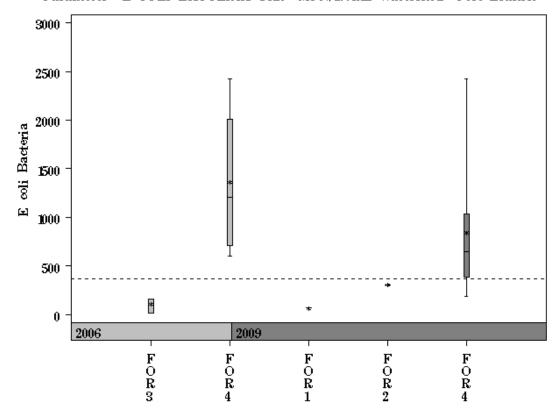


Parameter = DISSOLVED OXYGEN Unit = mg/L Watershed = Fort Branch

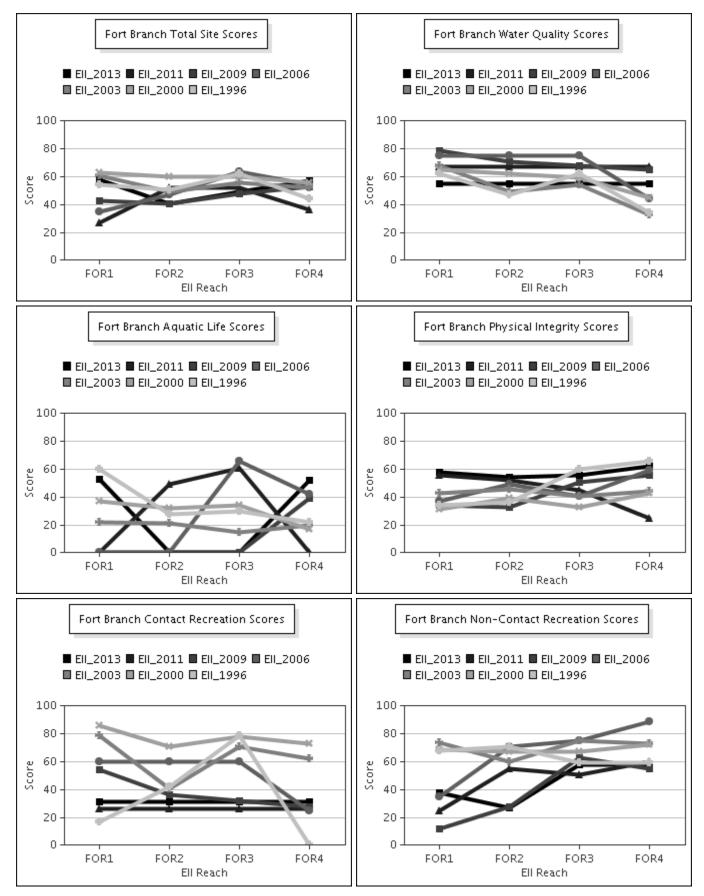


Data Summary Graphs $-\underline{E.coli}$ (Downstream to Upstream by Year)

Parameter= E COLI BACTERIA Unit= MPN/100mL Watershed= Fort Branch



Score Summary - Reach scores for each sample year



 $\frac{\textbf{Benthic Macroinvertebrates} - \underline{\textbf{Taxa List, Pollution Tolerance Index \& Functional Feeding Group}}{\underline{\textbf{for 2013 Sample Sites}}(\textbf{Downstream to Upstream})}$

| Benthic Macroinvertebrate ID | PTI | FFG | Fort Branch @ Tura Ln (Site 5400) | Fort Branch @ Glencrest (Site 126) |
|------------------------------------|-----|-------|---|--|
| Hydroptila sp. | 2 | SC,PI | | 1 |
| Callibaetis sp. | 4 | CG | 2 | |
| Fallceon quilleri | 4 | SC,CG | | 71 |
| Simulium sp. | 4 | FC | | 2 |
| Agabus sp. | 5 | Р | | 5 |
| Aquarius sp. | 5 | Р | 1 | |
| Archilestes sp. | 6 | Р | 1 | |
| Chironomidae | 6 | P,FC | 2 | 38 |
| Enallagma sp. | 6 | Р | 1 | |
| Microvelia sp. | 6 | Р | 2 | |
| Tanypodinae | 6 | Р | | 9 |
| Caenis sp. | 7 | SC,CG | 2 | |
| Ferrissia sp. | 7 | SC | | 3 |
| Anopheles sp. | 8 | FC | 1 | |
| Cladocera | 8 | FC | 4 | |
| Hirudinea | 8 | Р | | 1 |
| Oligochaeta | 8 | CG | | 16 |
| Physella sp. | 9 | SC | 2 | 4 |
| Culex sp. | 10 | FC | 10 | |
| Cambaridae | | CG | 1 | |

Benthic Macroinvertebrates – Metric Summary for 2013 Sample Sites (Downstream to Upstream)

| Scoring Metric | Fort Branch @ Tura Ln (Site 5400) | Fort Branch @ Glencrest (Site 126) |
|--|---|--|
| Number of Taxa * | 12 | 9 |
| Hilsenhoff Biotic Index * | 7.9 | 5.3 |
| Number of Ephemeroptera Taxa * | 2 | 1 |
| Percent of Total as Chironomidae * | 7 | 31 |
| Number of EPT Taxa * | 2 | 2 |
| Percent of Total as EPT * | 14 | 48 |
| Percent of Total as Predator * | 24 | 35 |
| Number of Intolerant Taxa * | 1 | 3 |
| Percent Dominance (Top 3 Taxa) * | 55 | 83 |
| EPT / EPT + Chironomidae | 1 | 1 |
| Number of Diptera Taxa | 3 | 2 |
| Number of Non-Insect Taxa | 3 | 4 |
| Number of Organisms | 29 | 150 |
| Percent Dominance (Top 1 Taxa) | 34 | 47 |
| Percent of Total as Collector / Gatherer | 17 | 58 |
| Percent of Total as Dominant Guild (FFG) | 59 | 58 |
| Percent of Total as Elmidae | 0 | 0 |
| Percent of Total as Filterers | 59 | 33 |
| Percent of Total as Grazers (PI & SC) | 14 | 53 |
| Percent of Total as Tolerant Organisms | 41 | 3 |
| Percent of Trichoptera as Hydropsychidae | 0 | 0 |
| Ratio of Intolerant : Tolerant Organisms | 0.12 | 1.11 |
| TCEQ Qualitative Aquatic Life Use Score | 22 | 16 |
| TCEQ Quantitative Aquatic Life Use Score | 21 | 27 |

- * Ell scoring parameter: Nine metric parameters are used in the calculation of the Ell Benthic Subindex score. Other metrics are shown to supplement evaluation.
- # of Taxa: Higher diversity (number of taxa) correlates with greater biological integrity. The average number of taxa per site for 2013/2014 samples was 15; the lowest value was 5 and the highest value was 30.
- Hilsenhoff Biotic Index (HBI): HBI values range from 0 to 10. Low HBI values reflect a higher abundance of taxa that are sensitive
 to organic (nutrient) pollution, thus a lower level of this type of pollution. The average HBI per site for 2013/2014 samples was 5.4;
 the lowest value was 3.7 and the highest value was 8.1.
- # of Ephemeroptera taxa: A higher number of Ephemeroptera (mayfly) taxa correlates with greater biological integrity. The average number of taxa per site for 2013/2014 samples was 2; the lowest value was 0 and the highest value was 7.
- 4. % of total as Chironomidae: The percentage of the sample represented by the Dipteran family Chironomidae will increase with a decrease in biological integrity. The average percent Chironomidae per site for 2013/2014 samples was 16%; the lowest value was 0% and the highest value was 77%.
- 5. # of EPT Taxa: A higher number of Ephemeroptera (mayfly), Plecoptera (stonefly) and Trichoptera (caddisfly) taxa correlates with greater biological integrity. The average number of EPT taxa per site for 2013/2014 samples was 4; the lowest value was 0 and the highest value was 12.
- 6. % of total as EPT: The percentage of the sample represented by the insect orders Ephemeroptera (mayfly), Plecoptera (stonefly) and Trichoptera (caddisfly) will decrease with a decrease in biological integrity. The average percent EPT taxa per site for 2013/2014 samples was 46%; the lowest value was 0% and the highest value was 89%.
- 7. % of total as Predator: The percentage of the sample represented by predators is variable with regard to biological integrity. The average percent predator per site for 2013/2014 samples was 31%; the lowest value was 3% and the highest value was 82%.
- 8. # of Intolerant Taxa: A higher number of pollution intolerant taxa correlates with greater biological integrity. The average number of intolerant taxa per site for 2013/2014 samples was 5; the lowest value was 0 and the highest value was 15.
- 9. % Dominance (top 3 taxa): The percentage of the sample represented by the three most abundant taxa will increase with a decrease in biological integrity. The average percent of sample dominated by the top three taxa per site for 2013/2014 samples was 72%; the lowest value was 39% and the highest value was 96%.



 ${\bf Diatoms-\underline{Taxa\ List\ \&\ Pollution\ Tolerance\ Index\ for\ 2013\ Sample\ Sites}\ (Downstream\ to\ Upstream)}$

| Diatom Species Name | PTI | Fort Branch @ Glencrest Dr (Site 126) |
|--------------------------|-----|---|
| Amphora libyca | 3 | 8 |
| Caloneis bacillum | 3 | 2 |
| Caloneis ventricosa | 3 | 2 |
| Gomphonema acuminatum | 3 | 75 |
| Gomphonema affine | 3 | 171 |
| Gomphonema clavatum | 3 | 47 |
| Rhoicosphenia abbreviata | 3 | 8 |
| Rhopalodia gibba | 3 | 1 |
| Diadesmis confervacea | 2 | 64 |
| Luticola mutica | 2 | 7 |
| Nitzschia amphibia | 2 | 6 |
| Synedra ulna | 2 | 109 |

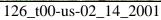
Diatoms - Metric Summary for 2013 Sample Sites (Downstream to Upstream)

| Scoring Metric | Fort Branch @ Glencrest Dr (Site 126) |
|---|---|
| Cymbella Richness | 0 |
| Number of organisms | 500 |
| Number of taxa | 12 |
| Percent motile taxa | 15 |
| Percent similarity to reference condition | 7 |
| Pollution tolerance index | 2.63 |

- * Ell scoring parameter: Four metric parameters are used in the calculation of the Ell Diatom Subindex score: Cymbella richness, percent motile taxa, percent similarity to reference condition and pollution tolerance index. Number of taxa is non-scoring, but is shown to supplement evaluation. The number of organisms is typically a sample of 500, but occasionally differs due to sample conditions.
- Cymbella Richness: The Cymbelloid taxa include species in the genus Cymbella, in addition to some species belonging to the
 genera Cymbellopsis, Cymbopleura, Encyonema, Encyonemopsis, Navicymbula and Reimeria. Their presence highlights the
 presence of sensitive species, especially with regard to impervious cover, and this value increases with an increase in overall water
 quality. The average number of Cymbelloid taxa per site for 2013/2014 samples was 3; the lowest value was 0 and the highest
 value was 7.
- 2. % Motile Taxa: This is a siltation index showing the relative abundance of genera that are able to move towards the surface if covered by silt. A higher percentage is indicative of a degraded condition caused by increased silt pollution. The average percent motile taxa per site for 2013/2014 samples was 16%; the lowest value was 0% and the highest value was 77%.
- 3. % similarity to reference condition: This percentage compares a site to reference sites that are selected based on having low percent impervious cover. A higher percentage reflects greater biological integrity. The average percent similarity per site for 2013/2014 samples was 31%; the lowest value was 6% and the highest value was 57%.
- 4. Pollution Tolerance Index (PTI): This is a total value for a sample, which is a function of the abundance of each taxon (usually species) in a sample and the individual PTI's for each of those taxa. Individual PTI's for each taxon range from 1 (most pollution tolerant) to 4 (most pollution sensitive), thus higher total PTI's for a site reflect greater biological integrity. The average PTI per site for 2013/2014 samples was 2.76; the lowest value was 1.70 and the highest value was 3.45.

Site Photographs







126-t00-dr-06-03-2009



125_t00-us-02_15_2001



125_t00-ds-07_10_2006



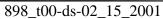
125-t00-us-06-03-2009



125-t00-ur-06-03-2009

Site Photographs







898_t00-ur-03_12_2003



898_t00-us-07_10_2006



898-t00-ds-06-02-2009



123_t00-us1-07_06_2006



123_t00-ds-07_06_2006

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