

Developing an Interactive Database – Butler County Stream Team

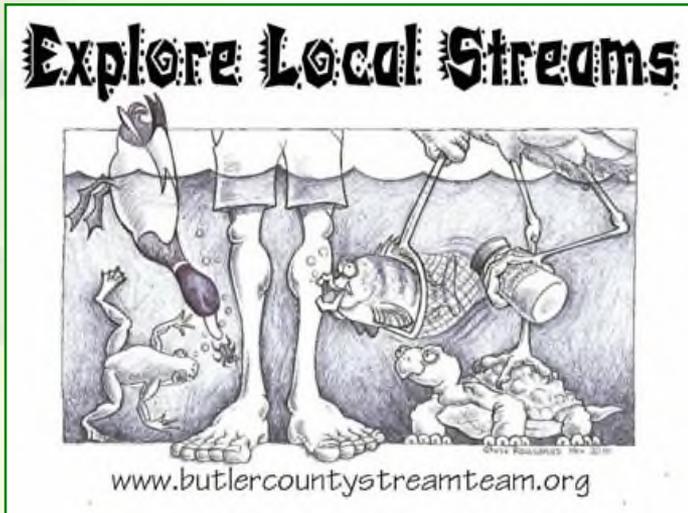


Justin Stratton: Supervisor – IT, Davey Resource Group

Bob Lentz: District Coordinator, Butler County Storm Water District

Dr. Donna McCollum: Environmental Monitoring Coordinator, IES - Miami University

Agenda



- Overview of Butler County Stream Team
- Introduction to Davey Resource Group
- Walkthrough of www.butlercountystreamteam.org's data system

Butler County Stream Team – Goals



- **Provide compliance** for Butler County with the public education and outreach requirements of the NPDES Phase II Permit
- **Identification** of illicit discharge or stream impairments
- **Provide opportunities** for graduate students and undergraduates to gain experience
- **Link Stream Team** monitoring and outreach to focused research projects
- **Improve funding** opportunities
- **Use the data** and analysis results to form the basis of peer-reviewed publications and presentations at regional and national meetings.
- **Provide credible**, useful data to inform public officials and decision makers engaged in public planning.
- **Identification of sites** for future stream restoration or implementation of storm water BMPs

Butler County Stream Team – A partnership



Butler County Storm Water District

- Aids in sampling events
- Maintains Project Study Plan and Quality Assurance Plan
- Liaison between Ohio EPA and Credible Data program



Butler Soil and Water Conservation District

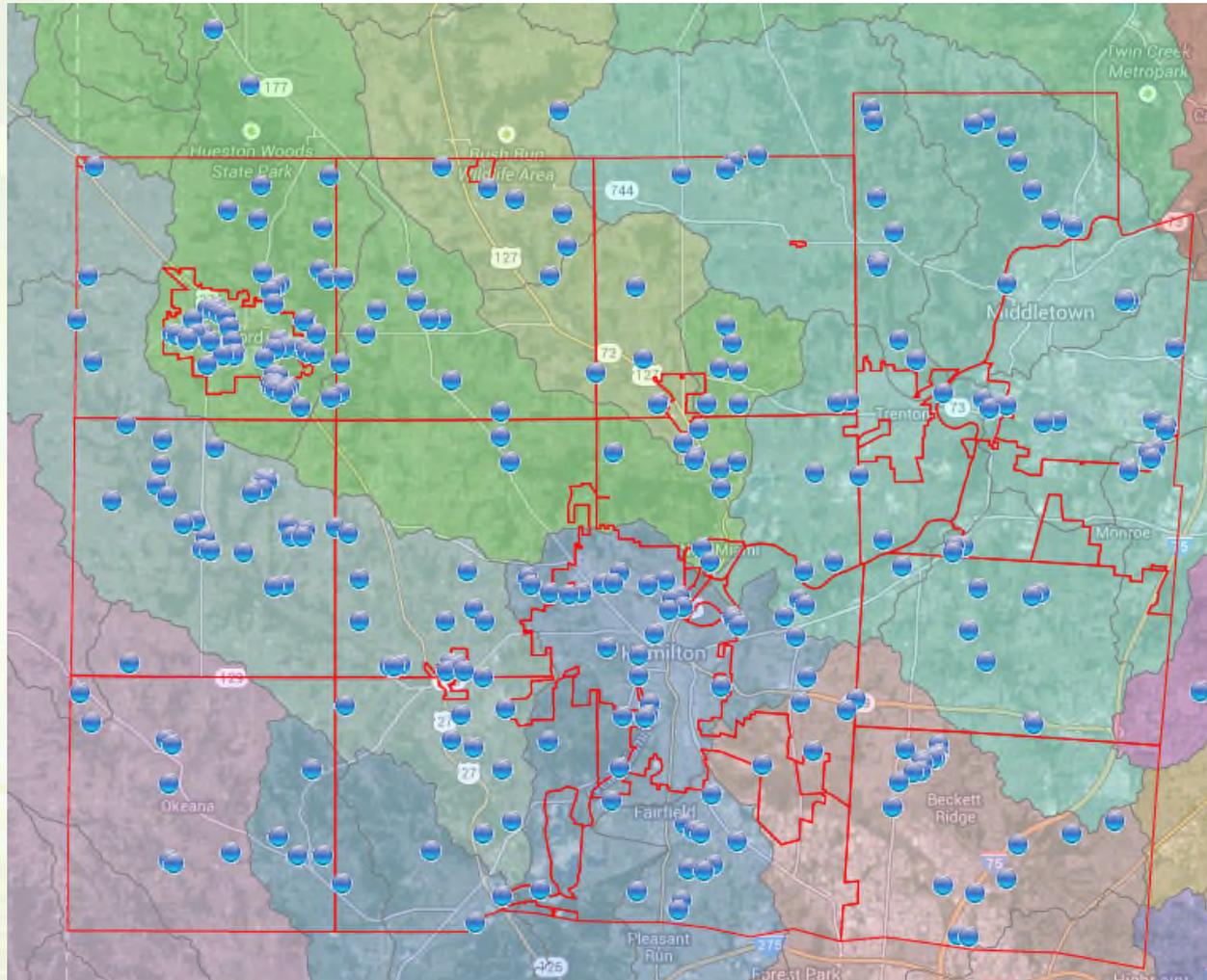
- Aids in sampling events
- Coordination of volunteers
- Provide outreach programs for children and adults



Miami University, Institute for Environment and Sustainability (IES)

- Provides support staff person and graduate assistant for Stream Team and Center for Aquatic and Watershed Sciences CAWS labs
- Stream Team Laboratory for water quality analysis
- Data entry into the database

Butler County Stream Team Volunteer Data Collection

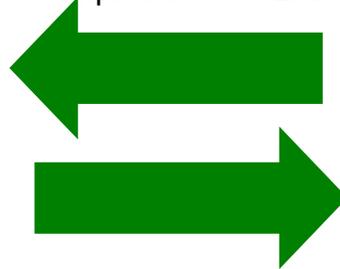


Sample Data Handling – Prior to web system



Lab tests samples and keys results into spreadsheet

Samples Sent to Lab

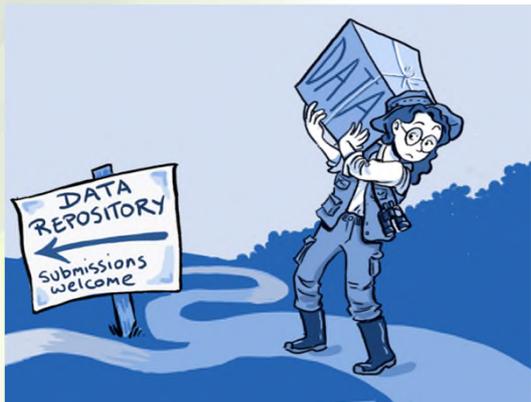


Lab shares results with interested parties



Volunteers want to see the results of their efforts!

Data challenges



Sample data was keyed into an Excel Spreadsheet

Data Version Control

How to analyze the results?

How to share the information with the volunteers to maintain their dedication to the program?

There is no spatial element to the data

Illustration credit: Ainsley Seago.

[doi:10.1371/journal.pbio.1001779.g001](https://doi.org/10.1371/journal.pbio.1001779.g001)

Davey Resource Group



DAVEY RESOURCE GROUP

Providing a full range of urban and utility forestry and natural resource consulting services.

▷ **Utility Services**

Vegetation management and asset management services for the right of way.

More info

- [Meet Our Team](#)
- [Submit an RFP](#)

▷ **Natural Resource Consulting**

Complete ecological services and urban forestry services.

▷ **Specialized Consulting / Project Management**

Comprehensive project management services for complex and distinct projects.

▷ **GIS and IT Custom Solutions**

Innovative solutions and services featuring the latest technology.

▷ **Work for DRG**

Current job listings for the Davey Resource Group.

▷ **Contact Us**

Use this form to contact our team.

Davey Resource Group

Experience building similar data entry and analysis systems for ...



Ohio Lake
Management Society



www.secchidipin.org

Currently building one for



<http://www.butlercountystreamteam.org>



Butler County Stream Team
Volunteer Water Quality Monitoring



Enter As Guest



Username:

Password:

Login



Return to Main Stream Team Page

Explore Your Watershed



You never know it, until you row it I

Website Development by Davey Resource Group.

Main Menu



Butler County Stream Team
Peer Water Quality Monitoring

Sample Sites Listing

Map of all sample sites

Locations

Details Edit Site Sample Wizard Report Graphs Admin Tools Search

| ID | Primary Watershed | Name |
|------|--------------------------------|--|
| 9032 | Acton Lake Dam-Four Mile Creek | Kyger Run from vet parking lot on Lynn St, Oxford |
| 9033 | Acton Lake Dam-Four Mile Creek | Trib to Collins Run at Dana Dr. near 610 David Dr. |
| 9034 | Acton Lake Dam-Four Mile Creek | Harker's Run at 6751 Oxford-Milford Rd |
| 9035 | Acton Lake Dam-Four Mile Creek | Bachelor Pond |
| 9036 | Acton Lake Dam-Four Mile Creek | Reagh's pond - by golf course Contreras/County |
| 9037 | Acton Lake Dam-Four Mile Creek | Bull Run at Sandra and Locust |
| 9038 | Acton Lake Dam-Four Mile Creek | Trib to Collins Run at Dana Dr just east of 732 |
| 9039 | Acton Lake Dam-Four Mile Creek | trib to Bull Run at White Oak Dr. |
| 9040 | Acton Lake Dam-Four Mile Creek | Kyger Run at Sandra and Locust |
| 9041 | Acton Lake Dam-Four Mile Creek | Bull Run at Fairfield Road |

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Samples

Details Add Sample Edit Sample Manage Bundles

| ID | Vol # | Description |
|------------|-------|--|
| 200810.064 | V077 | Bull Run, crosses White Oak Dr. (north crossing) |
| 200811.052 | V077 | |
| 200812.068 | V077 | |
| 200812.087 | V077 | |
| 200812.095 | V077 | White Oak, Bull Run Creek |
| 200812.109 | V077 | White Oak Bull Run Creek |
| 200812.117 | V077 | White Oak Bull Run Creek |

Page 1 of 1 View 1 - 7 of 7

Sample Listing

Map Satellite

Report/Analysis

ID: 9039
Name: trib to Bull Run at White Oak Dr.
Primary Watershed: Acton Lake Dam-Four Mile Creek

Map Data Terms of Use Report a map error

Website Development by Davey Resource Group

User Levels

There are 2 types of users on the database:

Guest –

- Read only access to the system
- Run/View Reports and Graphs

Administrator -

- Can add new samples
- Edit any existing sample
- Run/View Reports and Graphs
- Add New Users
- Quality Control Data



Photo credit: Brian Kerrigan
[WikiMedia Commons](#)

Using the Map



Locations

Details Edit Site Sample Wizard Report Graphs Admin Tools Search

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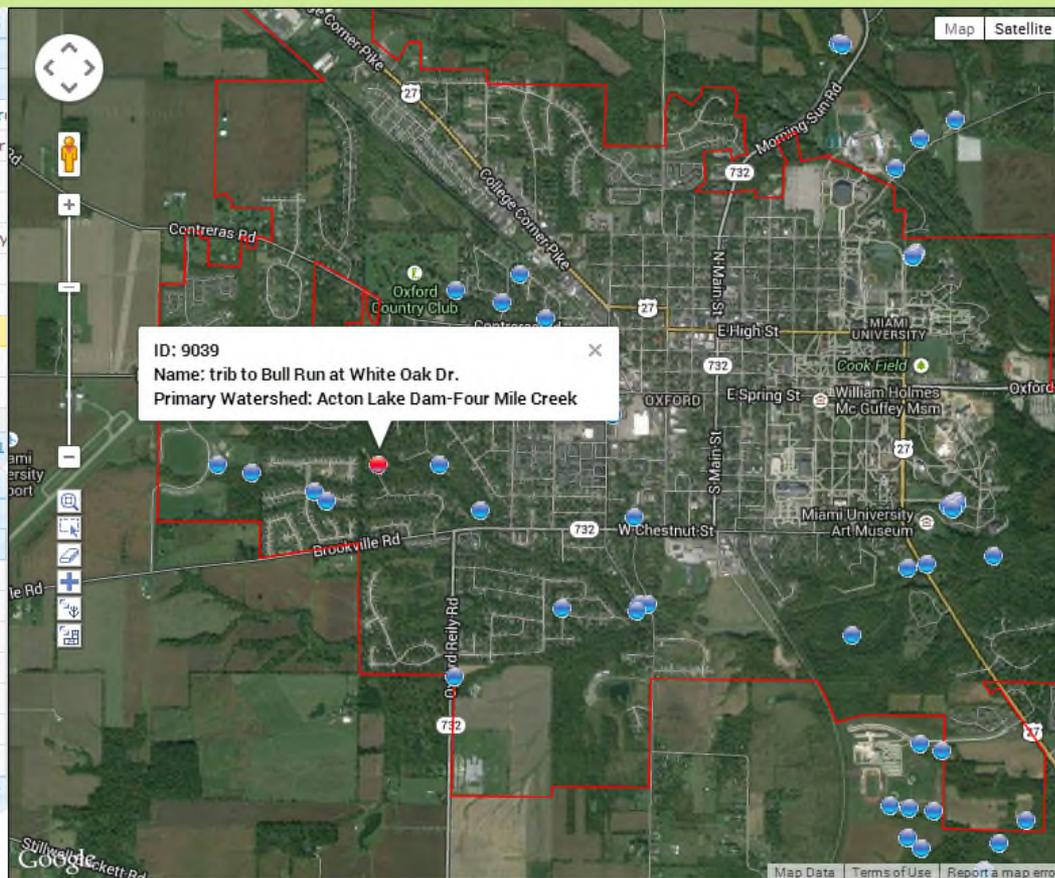
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Samples

Details Add Sample Edit Sample Manage Bundles

| ID | Vol # | Description |
|------------|-------|--|
| 200810.064 | V077 | Bull Run, crosses White Oak Dr. (north crossing) |
| 200811.052 | V077 | Bull Run at White Oak Dr. |
| 200812.068 | V077 | White Oak Bull Run |
| 200812.087 | V077 | White Oak Bull Run |
| 200812.095 | V077 | White Oak, Bull Run Creek |
| 200812.109 | V077 | White Oak Bull Run Creek |
| 200812.117 | V077 | White Oak Bull Run Creek |

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Clicking on a site record will automatically zoom the map to that feature. Or you can choose features in the map to zoom to the record in the table.

Using the Map



Locations

Details Edit Site Sample Wizard Report Graphs Admin Tools Search

| ID | Primary Watershed | Name |
|------|--------------------------------|---|
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| 9035 | Acton Lake Dam-Four Mile Creek | Bachelor Pond |
| 9036 | Acton Lake Dam-Four Mile Creek | Reagh's pond - by golf course Contreras/County |
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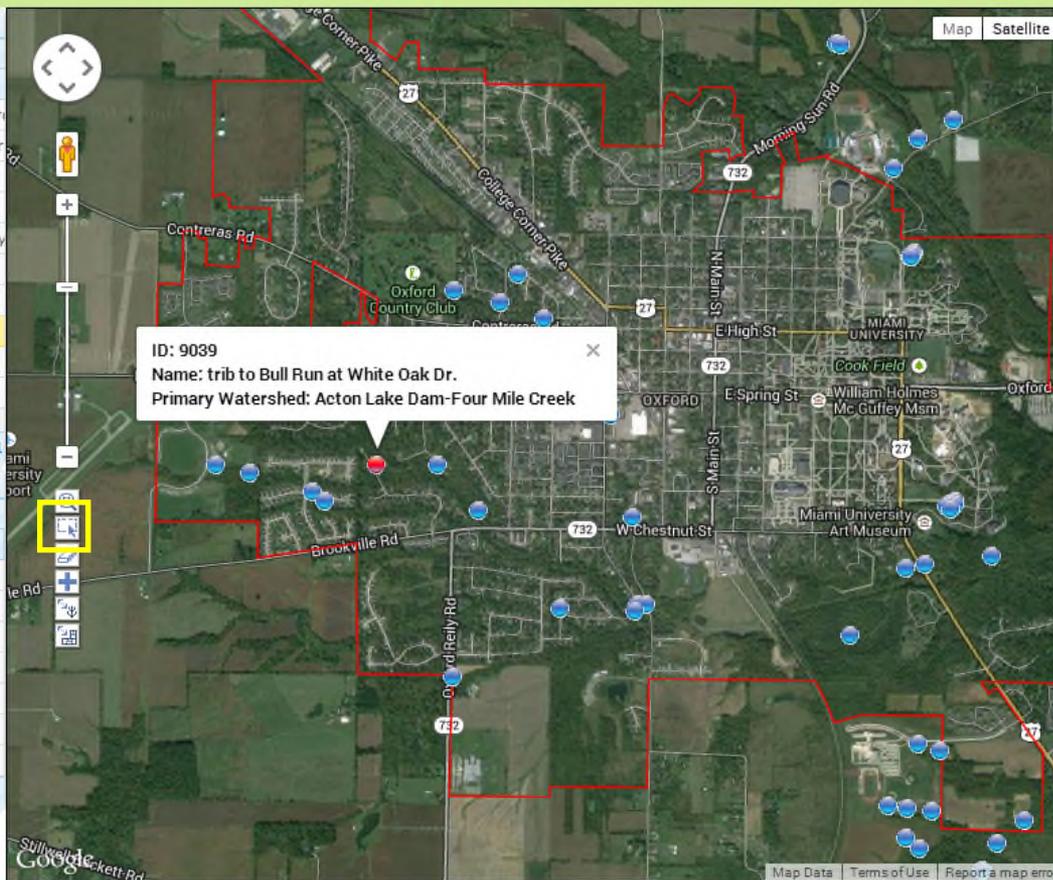
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Samples

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|------------|-------|--|
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| 200812.109 | V077 | White Oak Bull Run Creek |
| 200812.117 | V077 | White Oak Bull Run Creek |

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Use the spatial selection tool to select multiple sites on the map.

Using the Map



Butler County Stream Team Volunteer Water Quality Monitoring

[Logout](#)

Locations

Details Edit Site Sample Wizard Report Graphs Admin Tools Search

| ID | Primary Watershed | Name |
|------|--------------------------------|---|
| 0 | | |
| 9017 | Acton Lake Dam-Four Mile Creek | Kyger Run at Chestnut near Kehr |
| 9019 | Acton Lake Dam-Four Mile Creek | Collins Run at Locust and Sandra |
| 9020 | Acton Lake Dam-Four Mile Creek | Bull Run beside 720 W. Chestnut St. |
| 9030 | Acton Lake Dam-Four Mile Creek | Kyger Run ditch at former Walmart on Locust |
| 9037 | Acton Lake Dam-Four Mile Creek | Bull Run at Sandra and Locust |
| 9039 | Acton Lake Dam-Four Mile Creek | trib to Bull Run at White Oak Dr. |
| 9040 | Acton Lake Dam-Four Mile Creek | Kyger Run at Sandra and Locust |
| 9041 | Acton Lake Dam-Four Mile Creek | Bull Run at Fairfield Road |
| 9044 | Acton Lake Dam-Four Mile Creek | Collins Run from bridge on Sandra Dr. |

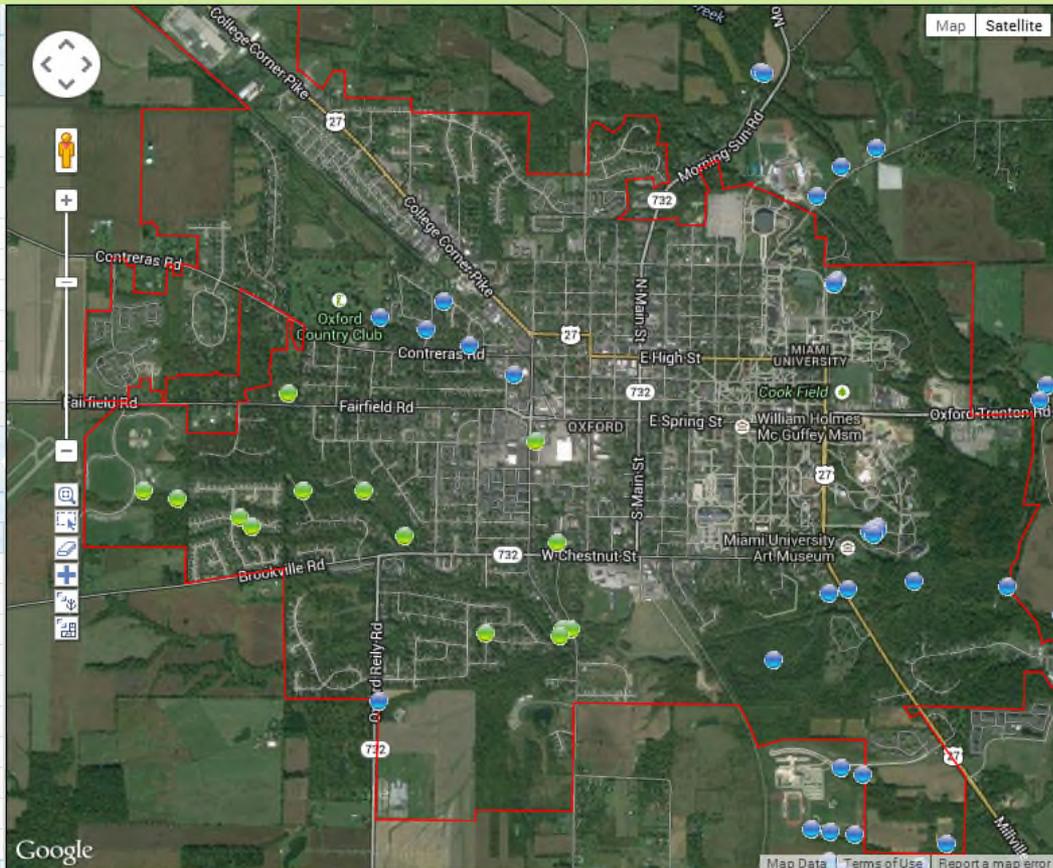
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Samples

Details Add Sample Edit Sample Manage Bundles

| ID | Vol # | Description |
|------------|-------|--|
| 200605.015 | | Lane's Mill |
| 200607.015 | | Four Mile at Lanes Mill Bridge |
| 200608.009 | | Four Mile at Lane's mill |
| 200709.027 | | 4 Mile Creek at Lanes Mill, Shollenbarger Rd |
| 200811.042 | V077 | Lanes Mill Rd 4 mile creek |
| 200812.03 | V077 | Lanes Mill Rd. 4 mile creek |
| 200812.085 | V077 | Lanes Mill Rd. 4 mile creek |
| 200812.091 | V077 | 4 mile creek, Lanes Mill Rd. |
| 200812.099 | V077 | 4 mile creek Lanes Mill Rd. |
| 200812.11 | V077 | 4 mile creek, Lanes Mill Rd. |

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Website Development by Davey Resource Group

Selected sites show up as green points, and the site listing on left reduced to what is in the map selected set. Reports will automatically feed off this subset of data!



Site Details



Butler County Stream Team

Volunteer Water Quality Monitoring

Logout

Details
Edit Site
Sample Wizard
Report
Graphs
Admin Tools
Search

| ID | Primary Watershed | Name |
|------|--------------------------------|---|
| 0 | | |
| 9017 | Acton Lake Dam-Four Mile Creek | Kyger Run at Chestnut near Kehr |
| 9019 | Acton Lake Dam-Four Mile Creek | Collins Run at Locust and Sandra |
| 9020 | Acton Lake Dam-Four Mile Creek | Bull Run beside 720 W. Chestnut St. |
| 9030 | Acton Lake Dam-Four Mile Creek | Kyger Run ditch at former Walmart on Locust |
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| 9039 | Acton Lake Dam-Four Mile Creek | trib to Bull Run at White Oak Dr. |
| 9040 | Acton Lake Dam-Four Mile Creek | Kyger Run at Sandra and Locust |
| 9041 | Acton Lake Dam-Four Mile Creek | Bull Run at Fairfield Road |
| 9044 | Acton Lake Dam-Four Mile Creek | Collins Run from bridge on Sandra Dr. |

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Details
Add Sample
Edit Sample
Manage Bundles

| ID | Vol # | Description |
|------------|-------|--|
| 200701.008 | | Bull Run at Chestnut and Kehr |
| 200703.02 | | Bull Run at Kehr and Chestnut intersection |
| 200705.002 | | Chestnut and Kehr |
| 200705.038 | | Kehr and Chestnut |
| 200706.032 | | Chestnut and Kehr Rd, under north side of bridge |
| 200707.018 | | Kehr and Chestnut |
| 200709.03 | | Collins Run between bottom of Locust & Kehr Rd. bridge |
| 200810.059 | V077 | Collins Run at bridge at Kehr Rd. and Chestnut |
| 200811.048 | V077 | Collins Run at Chestnut and Kehr |
| 200811.056 | V077 | Collins Run at Chestnut and Kehr |

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Site Details

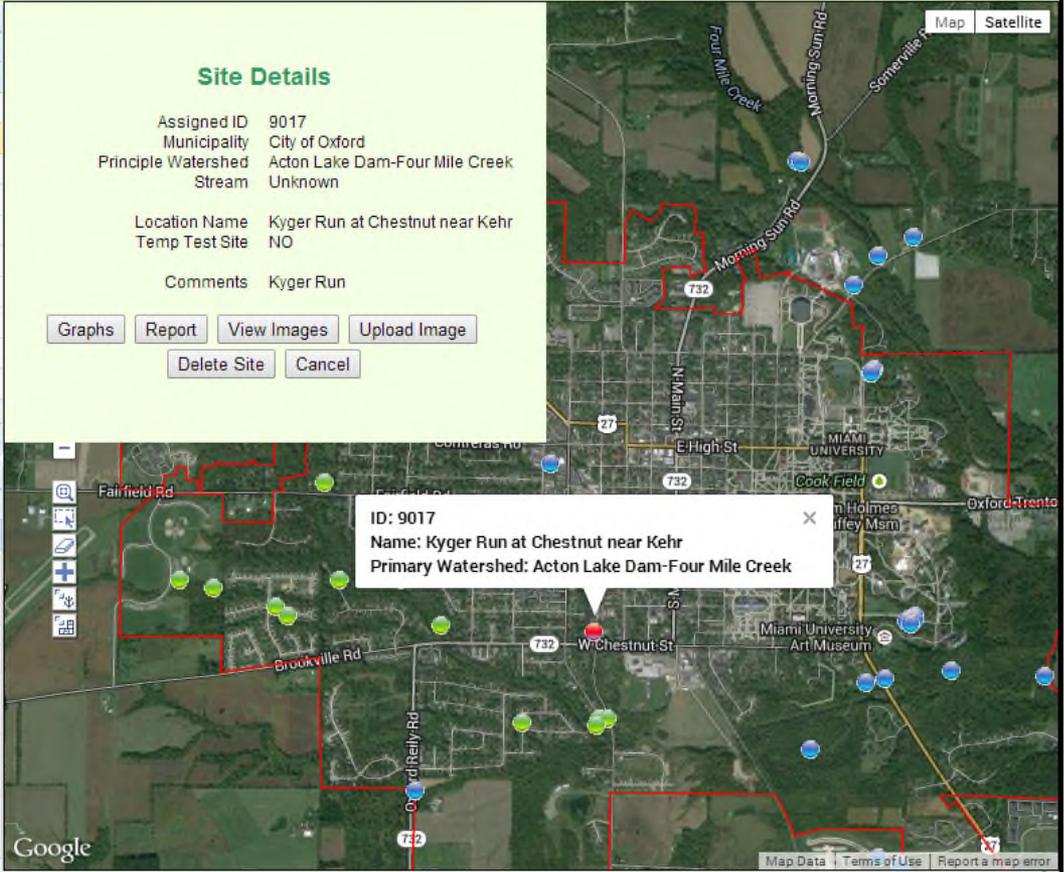
Assigned ID: 9017
 Municipality: City of Oxford
 Principle Watershed: Acton Lake Dam-Four Mile Creek
 Stream: Unknown

Location Name: Kyger Run at Chestnut near Kehr
 Temp Test Site: NO

Comments: Kyger Run

Graphs
Report
View Images
Upload Image

Delete Site
Cancel





Website Development by Davey Resource Group.

Reports specific to the sample information tied to the site itself are available under the “details” button.

Site Details – Sample Listing



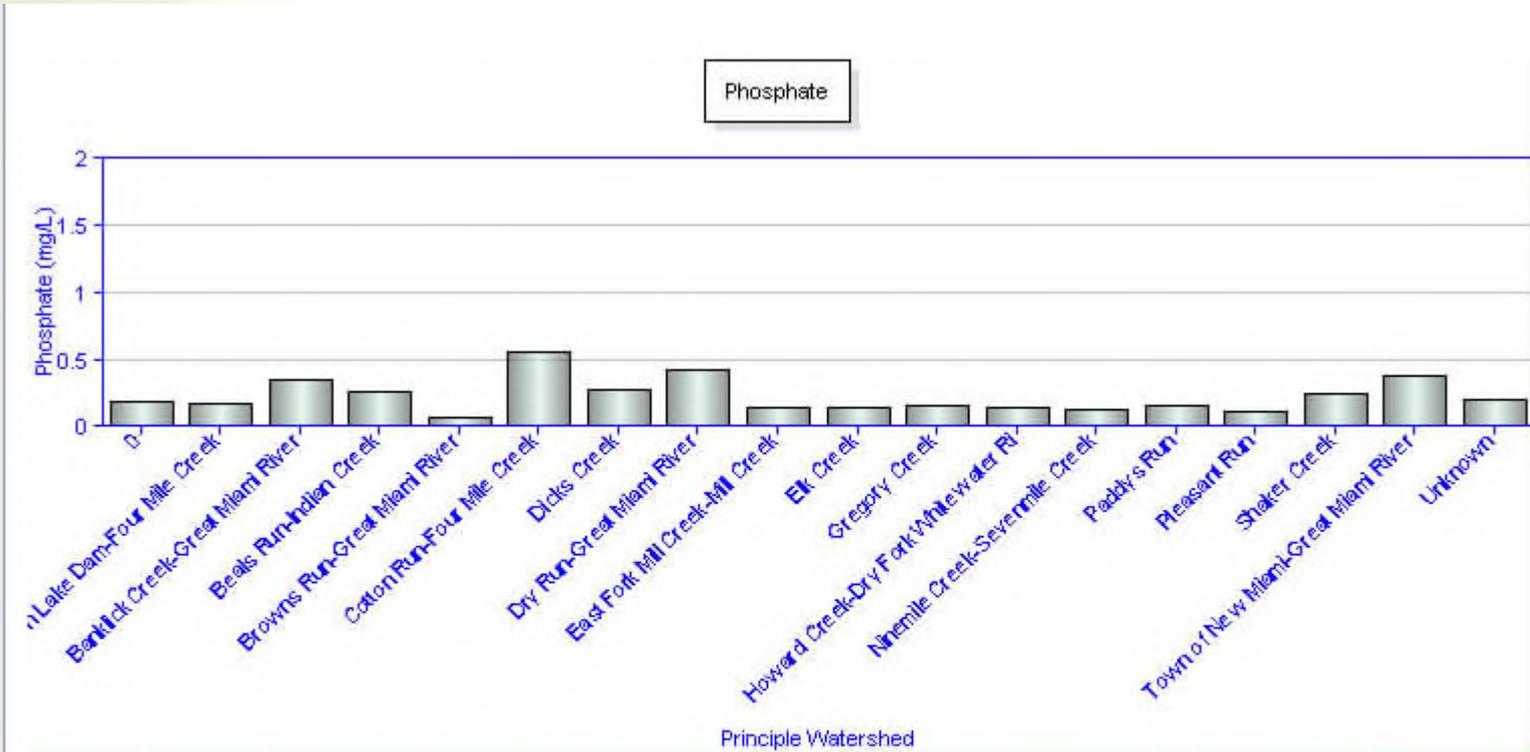
Butler County Site Summary Report

10 April 2014

| Site Summary | | Elk Creek at Howe Road | | | | | | | |
|--------------------------|------------------|------------------------|-------------|---------------|-------------|----------------|-----------------|-------------------|---------------|
| Sample | Volunteer | Cond (uS/cm) | pH | TDS (mg/L) | Phos (mg/L) | Nitrate (mg/L) | Turbidity (NTU) | COLI (CFU/100 ml) | E. coli |
| 2007 | | | | | | | | | |
| 200704.010 | | 586.00 | 8.60 | 288.50 | 0.15 | 0.50 | 3.51 | 4890. | 110.0 |
| Averages for 2007 | | 586.00 | 8.60 | 288.50 | 0.15 | 0.50 | 3.51 | 4890.0 | 110.00 |
| 2009 | | | | | | | | | |
| 200901.012 | Colin Pettit | 743.00 | 7.48 | 362.00 | 1.98 | 0.70 | -0.07 | 185.0 | 0.00 |
| 200902.055 | Scott Brown | 555.00 | 8.33 | 269.00 | 0.35 | 2.80 | 4.23 | 525.0 | 0.00 |
| 200904.092 | Scott Brown | 954.00 | 8.30 | 468.00 | 0.59 | 0.20 | 3.64 | 1250. | 20.00 |
| 200905.037 | Carol Jones | 603.00 | 8.27 | 293.00 | 0.47 | 1.30 | 0.76 | 75.00 | 665.0 |
| 200907.054 | Carol Jones | 604.00 | 8.21 | 293.00 | 0.12 | 0.90 | 0.52 | 505.0 | 110.0 |
| 200908.026 | Carol Jones | 601.00 | 8.29 | 292.00 | 0.18 | -0.10 | 1.46 | 1795. | 150.0 |
| 200909.013 | Carl Jones | 599.00 | 7.24 | 291.00 | 0.11 | 0.30 | 2.10 | 585.0 | 5.00 |
| 200911.012 | Carol Jones | 616.00 | 8.28 | 293.00 | 1.04 | 0.20 | 1.77 | 415.0 | 10.00 |
| Averages for 2009 | | 659.38 | 8.05 | 320.13 | 0.61 | 0.79 | 1.80 | 666.88 | 120.00 |
| 2010 | | | | | | | | | |
| 201001.040 | Carol Jones | 1911.00 | 8.45 | 958.00 | 0.02 | 0.50 | 25.30 | 10.00 | 0.00 |
| 201002.009 | Barb Reisenhauer | 1450.00 | 6.88 | 727.00 | 0.32 | 0.60 | 0.28 | 50.00 | 0.00 |
| 201002.034 | Carol Jones | 750.00 | 5.99 | 366.00 | 0.18 | 1.00 | 1.04 | 0.00 | 0.00 |
| 201006.053 | Carol Jones | 629.00 | 8.20 | 305.00 | 0.23 | 0.10 | 10.34 | 8680. | 1385. |
| 201007.017 | Carol Jones | 483.00 | 7.80 | 234.00 | 0.54 | -0.20 | 13.60 | 9479. | 1883. |
| 201008.073 | Jones C. | 616.00 | 8.20 | 299.00 | 0.20 | 0.40 | 3.14 | 6750. | 305.0 |
| 201009.003 | Carol Jones | 633.00 | 8.10 | 307.00 | 0.11 | 0.80 | 1.88 | 6265. | 80.00 |
| 201010.025 | Carol Jones | 642.00 | 8.00 | 312.00 | 0.24 | 0.50 | 0.92 | 2330. | 130.0 |
| 201011.047 | Donna McCollum | 650.00 | 8.20 | 316.00 | 0.07 | 0.30 | 0.66 | 1265. | 50.00 |
| 201012.067 | Carol Jones | 747.00 | 8.20 | 364.00 | 0.08 | 1.00 | -0.36 | 190.0 | 5.00 |
| Averages for 2010 | | 851.10 | 7.80 | 418.80 | 0.20 | 0.50 | 5.68 | 3501.9 | 383.80 |

Comprehensive sample listing reports can also be generated

Comparison Graphs



Phosphate occurs in water in an organic form (needed for animal life) and an inorganic form (needed for plant life) Phosphate is more limited in fresh water than nitrate, so increases in phosphate can lead to more extreme plant growth than increases in nitrate. Excess phosphates can lead to algae blooms, which increase turbidity and water temperature. These increases can result in a habitat that is unsuitable for plant and/or animals. Sources of phosphate include sewage treatment plants, failing septic systems, runoff from fertilized lawns and fields, industrial discharges, and animal waste. According to the EPA, measurements between 0.1 and 0.25 mg/L are acceptable; however, measurements greater than 0.06 can result in problems, such as algal blooms.

Conductivity, pH, TDS, Phosphate, Nitrate, Turbidity, Coliform, E. coli can each be graphed and compared to other watersheds or streams.

Sample Details



Butler County Stream Team Volunteer Water Quality Monitoring

[Logout](#)

Locations

Details Edit Site Sample Wizard Report Graphs Admin Tools Search

| ID | Primary Watershed | Name |
|-------|-----------------------------------|--|
| 16001 | Town of New Miami-Great Miami Riv | Great Miami R. at Rt. 73 E of Trenton |
| 16020 | Elk Creek | Elk Creek at Howe Road |
| 16026 | Elk Creek | Elk Creek behind 114 Dartmouth Street. Trenton |

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Samples

Details Add Sample Edit Sample Manage Bundles

| ID | Vol # | Description |
|------------|-------|--|
| 200701.007 | | Great Miami at 73, State Route 73 |
| 200703.004 | | Great Miami River, State Route 73 |
| 200705.009 | | Great Miami at 73 |
| 200706.023 | | Great Miami at St. Rt. 73, east of Trenton |
| 200707.008 | | Great Miami at St. Rt 73; east of Trenton |
| 200708.017 | | Great Miami River at 73 |
| 200710.003 | | Great miami River at state route 73 |
| 200711.019 | V014 | Great Miami @73 |
| 200712.002 | V082 | Great Miami at Rt. 73 |
| 200712.043 | V014 | Great Miami at Rt. 73 |

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Sample Details

Assigned ID 200705.009
 Site Description Great Miami at 73
 Volunteer ID
 Volunteer Name
 Sample Date 05/12/2007
 Sample Time
 Conductivity 730
 Ph 8.33
 TDS 360.5
 Phosphate 0.57
 Nitrate 1.3
 Turbidity 2.36
 Coliform 1060
 E coli 35
 Comments:

Delete Sample Cancel

The lab results of each sample can be reviewed

Website Development by Davey Resource Group.



Adding new samples



Butler County Stream Team
Volunteer Water Quality Monitoring

Samples

| Sample ID | Site ID | Description | Vol # | Vol Name | Date | Time | Conductivity | Ph | TDS | Phosphate | Nitrate | Turbidity | Coliform | E coli |
|------------|---------|---|-------|-----------------|------------|-------|--------------|------|------|-----------|---------|-----------|----------|--------|
| 201307.021 | 9001 | 4 Mile Creek at bridge on Buckley Rd, near 732 | V029 | Dave Christma | 07/13/2013 | 10:00 | 65 | 8.31 | 30.7 | 0.2 | 2.03 | 4.06 | 2960 | 0 |
| 201307.022 | 9020 | Bull Run beside 720 W. Chestnut St. | | Anne Vascik | 07/13/2013 | 07:00 | 152.5 | 7.94 | 72.9 | 0.083 | 0.053 | 2.3 | 4915 | 65 |
| 201307.023 | 4003 | Beckett WQ Basin South Inflow (BCSWD) | V134 | Butler SWCD, Ly | 07/13/2013 | 09:25 | 123.4 | 8.14 | 58.3 | 0.026 | 1.71 | 0.3 | 2740 | 70 |
| 201307.024 | 4005 | Beckett WQ Basin North inflow (BCSWD) | V134 | Butler SWCD, Ly | 07/13/2013 | 09:33 | 106.6 | 8.18 | 49.8 | 0.013 | 1.01 | 0.43 | 12725 | 2325 |
| 201307.025 | 7021 | Mutton Run at Fear Not Mills Rd | V171 | Amy Cameron | 07/13/2013 | 10:42 | 101.3 | 8.2 | 47.3 | 0.123 | 3.63 | 1.09 | 4040 | 280 |
| 201307.026 | 7021 | Mutton Run at Fear Not Mills Rd; FD | V171 | Amy Cameron | 07/13/2013 | 10:42 | 99.6 | 8.13 | 47.3 | 0.136 | 3.28 | 1.09 | 4270 | 620 |
| 201307.027 | 4008 | A downstream, Beckett WQ Basin downstream (BCSWD) | V134 | Butler SWCD, Ly | 07/13/2013 | 09:52 | 130.8 | 7.81 | 62.4 | 0.281 | 2.33 | 0.64 | 1385 | 225 |
| 201307.028 | 4004 | Beckett WQ Basin Middle Inflow (BCSWD) | V134 | Butler SWCD, Ly | 07/13/2013 | 09:29 | 128 | 7.85 | 61.4 | 0.167 | 0.975 | 2.26 | 6240 | 360 |
| 201307.029 | 4006 | B outflow, Beckett WQ Basin outflow (BCSWD) ; low water, di | V134 | Butler SWCD, Ly | 07/13/2013 | 09:43 | 2.9 | 7.86 | 0.7 | 2.36 | 2.08 | 71.7 | 0 | 0 |
| 201307.030 | 4006 | B outflow, Beckett WQ Basin outflow (BCSWD) ; low water, di | V134 | Butler SWCD, Ly | 07/13/2013 | 09:43 | 2.8 | 7.93 | 0.8 | 1.92 | 0.951 | 73.3 | 0 | 0 |

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Cancel

Grid based data entry system

Samples are entered as a “bundle”, and results are keyed into the grid as they come in.

Quality Control of Samples

QC Tools

QC Options

Samples ↕

| ID | Vol # | Description |
|------------|-------|---------------------------------|
| 200605.001 | | Boardman's Stream |
| 200605.002 | | Covered Bridge |
| 200605.003 | | HW Dam |
| 200605.004 | | Renwick's Station |
| 200605.005 | | Indian Creek Head |
| 200605.006 | | Wastewater Downstream |
| 200605.007 | | Wastewater Upstream |
| 200605.008 | | |
| 200605.009 | | Renwick Indian Creek |
| 200605.01 | | Indian Creek Preserve Metropark |

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Quick reporting options to show gaps in the sample records.

Conclusion



Sunset Maple.....

Butler County Stream Team
Volunteer Data Collection

Davey Resource Group

Online Data Entry System

www.butlercountystreamteam.org

The end! Thanks for your time