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**Water Quality Analysis  
of Low pH in  
Wills Creek,  
Allegany County, Maryland**

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### List of Abbreviations

AMD	Acid Mine Drainage
ANC	Acid Neutralization Capacity
BMP	Best Management Practice
BOM	Bureau of Mines
CaCO <sub>3</sub>	Calcium Carbonate
Cn	Cyanide
COMAR	Code of Maryland Regulations
CSO	Combined Sewer Overflow
CWA	Clean Water Act
EPA	Environmental Protection Agency
kg/day	Kilograms per day
km	Kilometer
MBSS	Maryland Biological Stream Survey
MDE	Maryland Department of the Environment
MGS	Maryland Geological Survey
mg/l	Milligrams per liter
mi <sup>2</sup>	Square Miles
NPDES	National Pollution Discharge Elimination System
NPS	Nonpoint Source
pH	Negative logarithm of Hydrogen Ion Molar Concentration
SAPS	Successive Alkalinity Producing Systems
TMDL	Total Maximum Daily Load
USGS	United States Geological Survey
UT	Unnamed Tributary
WQA	Water Quality Analysis
WQLS	Water Quality Limited Segment

## EXECUTIVE SUMMARY

Section 303(d) of the federal Clean Water Act (CWA) and the U.S. Environmental Protection Agency (EPA)'s implementing regulations direct each State to identify and list waters, known as water quality limited segments (WQLSs), in which current required controls of a specified substance are inadequate to achieve water quality standards. This list of impaired waters is commonly referred to as the "303(d) list." For each WQLS, the State is to either establish a Total Maximum Daily Load (TMDL) of the specified substance that the waterbody can receive without violating water quality standards, or demonstrate that water quality standards are being met.

Wills Creek (basin code 02-14-10-03), located in Allegany and Garrett Counties, Maryland, was identified on the State's list of WQLSs as impaired by cyanide (Cn) (1996 listing), sediments (1996 listing), nutrients (1996 listing), low pH (1998 listing), and impacts to biological communities (2002 listing). In addition, stream segments in two 12-digit-basins of Wills Creek were identified as WQLSs, impaired by low pH: Jennings Run (12-digit basin - 021410030100) (2004 listing), and a unnamed tributary (UT) 1 of Jennings Run (12-digit basin - 021410030099) (2002 listing). This report provides an analysis of recent monitoring data to address whether the low pH impairments in Wills Creek still remain. A data solicitation for pH was conducted by MDE and all readily available data from the past five years was considered.

This study demonstrates that applicable aquatic life criteria for pH and the designated uses supported by this criteria are being met in the Wills Creek 8-digit basin and Jennings Run stream segment (12-digit basin - 021410030100) therefore a TMDL is not required. The pH criteria are not being met in the following 12-digit basins: UT 1 of Jennings Run stream segment (12-digit basin - 021410030099) as well as an additional stream segment, Jennings Run, within the same 12-digit basin and a localized low pH impairment represented by Station 60 in an unnamed tributary of Jennings Run flowing through Mount Savage in the 12 digit-basin (021410030098).

Based on comments from EPA Region III, MDE has taken a slightly different approach using these analyses from the time this WQA was available for public comment. A smaller stream segment represented by Station 60 in an unnamed tributary of Jennings Run through Mount Savage in the 12-digit basin (021410030098) was stated as being placed in Category 4b of the 303(d) list which has been changed to being placed on Category 5. This reflects a different 303(d) listing action and will be subject to public review through the 303(d) listing process.

Barring the receipt of any contradictory data, this report will be used to support the removal of the Wills Creek 8-digit basin as well as the Jennings Run stream segment (12-digit basin - 021410030100) from Maryland's 303(d) list for low pH. The listing for the Jennings Run tributary stream segment (12-digit basin - 021410030099) will remain on the 303(d) list for low pH. A new listing for the Jennings Run stream segment (12-digit basin - 021410030099) and the stream segment represented by Station 60 (12-digit - 021410030098) will be included in Category 5 of the 303(d) list. The listings for impacts to biological communities, nutrients, sediments and Cn will be addressed at a future date.

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Although the non-tidal waters of Wills Creek and Jennings Run do not display signs of impairment due to low pH, the State reserves the right to require additional pollution controls in the Wills Creek and Jennings Run watersheds if evidence suggests that acidity resulting in low pH from these basins are contributing to downstream water quality problems.

## 1.0 INTRODUCTION

Section 303(d) of the federal Clean Water Act and the U.S. Environmental Protection Agency (EPA)'s implementing regulations direct each State to identify and list waters, known as water quality limited segments (WQLSs), in which current required controls of a specified substance are inadequate to achieve water quality standards. This list of impaired waters is commonly referred to as the "303(d) list." For each WQLS, the State is to either establish a Total Maximum Daily Load (TMDL) of the specified substance that the water body can receive without violating water quality standards, or demonstrate that water quality standards are being met.

A segment identified as a WQLS may not require the development and implementation of a TMDL if current information contradicts the previous finding of an impairment. The most common factual scenarios obviating the need for a TMDL are as follows: 1) more recent data indicating that the impairment no longer exists (i.e., water quality standards are being met); 2) more recent and updated water quality modeling which demonstrates that the segment is now attaining standards; 3) refinements to water quality standards, or the interpretation of those standards, which result in standards being met; or 4) correction to errors made in the initial listing.

Wills Creek (basin code 02-14-10-03) was identified on the State's list of WQLSs as impaired by cyanide (Cn) (1996 listing), sediments (1996 listing), nutrients (1996 listing), low pH (1998 listing), and impacts to biological communities (2002 listing). In addition, stream segments in two 12-digit basins of Wills Creek were identified as WQLSs, impaired by low pH: Jennings Run (12-digit basin - 021410030100) (2004 listing) and an unnamed tributary (UT) 1 of Jennings Run (12-digit basin - 021410030099) (2002 listing). The information used for listing the 8-digit basin for low pH was found in the 1998 303(b) report. The low pH listing for the UT 1 of Jennings Run stream segment (12-digit basin - 021410030099) is based on 1996 Maryland Biological Stream Survey (MBSS) data collected at station AL-A-2396-226. The low pH listing for the Jennings Run stream segment (12-digit basin - 021410030100) is based on pH data collected in the study, "Analysis of Aarons Run and Jennings Run Benthic Macroinvertebrates, Fishes, Physical Habitat and Stream Water Quality" (Morgan et al, 2000). A water quality analysis (WQA) was conducted using recent monitoring data to address whether the low pH impairments in Wills Creek still remain. A data solicitation for pH was conducted by Maryland Department of the Environment (MDE), and all readily available data from the past five years was considered.

This report provides recent information that supports the removal of the Wills Creek 8-digit basin as well as the Jennings Run stream segment (12-digit basin - 021410030100) from Maryland's list of WQLSs for low pH when the 303(d) list is revised: therefore, the aforementioned first and second scenarios most closely apply. The listing for the UT 1 of Jennings Run stream segment (12-digit basin - 021410030099) will remain on the 303(d) list and will be addressed at a future date. An additional stream segment, Jennings Run (12-digit basin - 021410030099), will also be added to the 303(d) list for low pH when it is revised. Localized low pH impacts are also found in an UT of Jennings Run flowing through Mount Savage (12-digit basin - 0214030098). Since the impairment is limited to this stream segment and no others in the 12-digit basin the stream segment represented by station 60 in the unnamed tributary of

Jennings Run will be listed on Category 5. The listings for impacts to biological communities, nutrients, sediments, and Cn will be addressed at a future date.

The remainder of this report lays out the general setting of the waterbody within the Lower North Branch Potomac River watershed, presents a discussion of the water quality characteristics of the waterbody, the water quality characterization process, and provides conclusions with regard to the characterization

## **2.0 GENERAL SETTING**

Wills Creek is located in Allegany County and flows south from its headwaters in Pennsylvania to discharge into the Upper Potomac River at Cumberland, MD (see Figure 1). Jennings Run and Braddock Run are two main tributaries to Wills Creek draining western Allegany County and a small portion of northeastern Garrett County. The drainage area of Wills Creek is 38,348 acres (59.9 mi<sup>2</sup>).

The Wills Creek watershed is situated within the Appalachian Plateaus and the Ridge and Valley Provinces in western Maryland. The surficial geology of the western portion of the Ridge and Valley Province is characterized by strongly folded and faulted sedimentary rock, producing a rugged surface terrain. The surficial geology of the Appalachian Plateaus Province is characterized by gently folded shale, siltstone, and sandstone. Folding has produced elongated arches across the region which expose Devonian rock at the surface. Coal bearing strata are preserved in the intervening synclinal basins of these folds (Maryland Geological Survey, 2004). Consequently, this region in western Allegany County has been a productive source for coal mining.

Historically, the Wills Creek Basin, as well as the North Branch Potomac River Sub-Basin, has suffered water quality problems due to mining activities. Acid mine drainage (AMD) is the understood source of past and current low pH impairment. AMD occurs when water and oxygen react with Pyrite (present in coal seams) to produce sulfuric acid and iron hydroxide. The sulfuric acid causes low pH downstream and the iron hydroxide, once settled, produces an orange tinted stream. AMD can be neutralized by calcium carbonate (CaCO<sub>3</sub>), or limestone, which is often naturally occurring in the bedrock. The Department of the Environment's Bureau of Mines (BOM) has implemented programs to reduce the effects of AMD. Efforts to reduce mine drainage impacts over the last 25 years have resulted in considerable improvement in water quality conditions in many main-stem rivers and creeks.

The primary land use in the Wills Creek watershed is forested/herbaceous. Urban areas are concentrated mainly around the Cumberland area in the southeast corner of the watershed and the Frostburg area, in the southwest corner of the watershed. The land use distribution in the watershed is 73.8% forested (28,289 acres), 16.0% urban (6,133 acres), and 10.2% mixed agricultural (3,926 acres). Please refer to Figure 2 for a map of these land uses.

There are presently five point sources discharging in the Wills Creek watershed according to current NPDES (National Pollution Discharge Elimination System) permits. Two of these sources, PS-4 and PS-5, are active mining sources. Table 1 is a summary of point sources in the



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Wills Creek watershed, and the locations are shown in Figure 1. Maryland Department of the Environment (MDE) regulates all current and future mining activities to prevent further contribution of AMD.

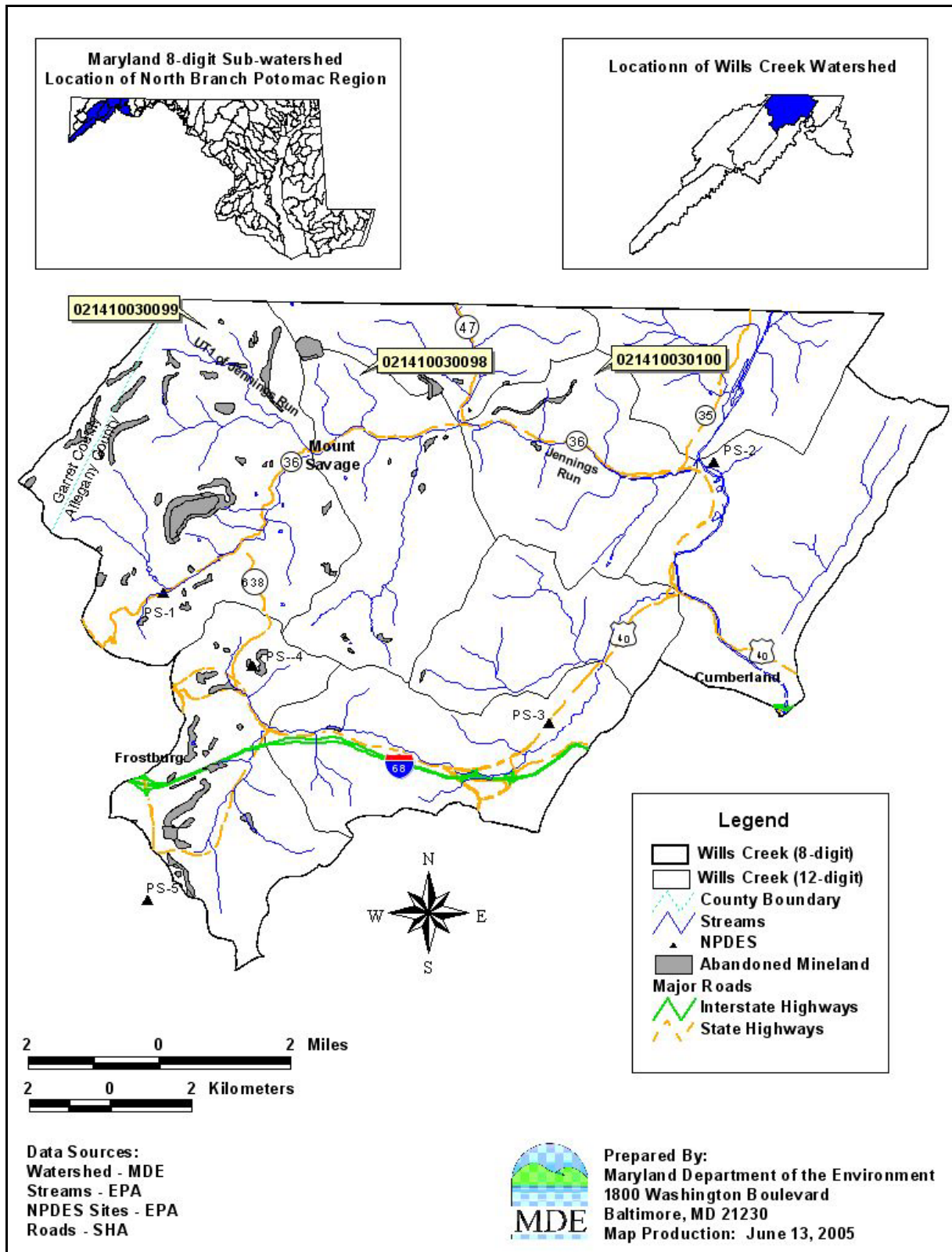
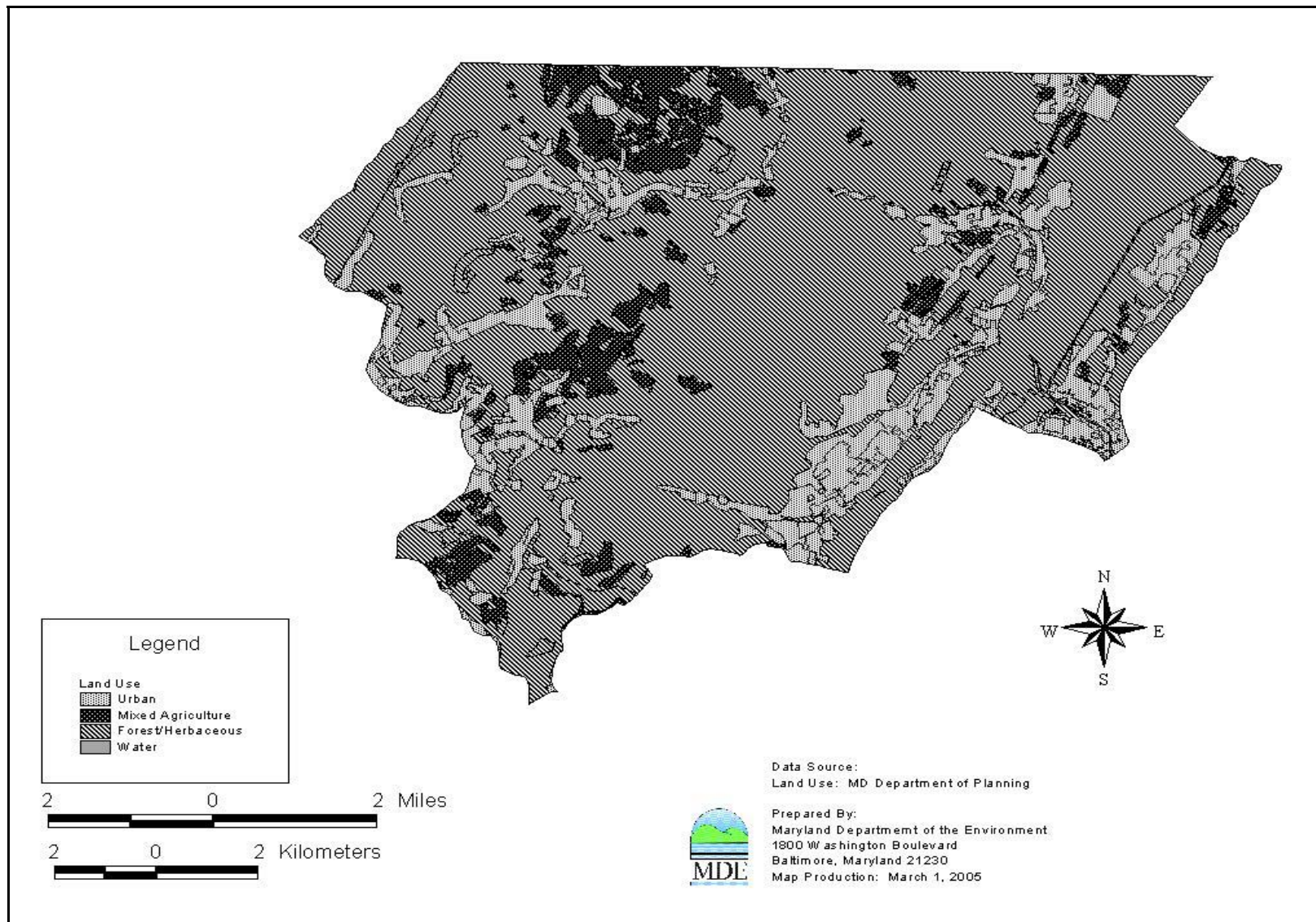


Figure 1: Location Map of Wills Creek Watershed



**Figure 2: Land Use Map of the Wills Creek Watershed**

**Table 1: Wills Creek Point Source Facilities**

Station	NPDES	Facility	Latitude	Longitude
PS-1	MD0000272	Mt. Savage Firebrick Company	39.67	-78.91
PS-2	MD0020818	Stoner Quality Water Inc. Culligan Water	39.69	-78.78
PS-3	MD0067547	Lavale Sanitary Commission Comb. Sewer	39.65	-78.82
PS-4	MDG859608	Mountaineer Mining - Porter Mine	39.66	-78.89
PS-5	MDG851719	United Energy Coal - Brode Mine 368	39.61	-78.92

### 3.0 WATER QUALITY CHARACTERIZATION

A water quality standard is the combination of a designated use for a particular body of water and the water quality criteria designed to protect that use. Designated uses include activities such as swimming, drinking water supply, and propagation of naturally reproducing trout. Water quality criteria consist of narrative statements and numeric values designed to protect the designated uses. Criteria may differ among waters that have different designated uses.

The Maryland Surface Water Use Designation for Wills Creek (main stem) is Use IV-P, *recreational trout waters and public water supply* (Code of Maryland Regulations (COMAR) 26.08.02.08 (Q)(6)(a)). All other tributaries of Wills Creek are designated Use III-P, *natural trout waters and public water supply* (COMAR 26.08.02.08 (Q)(4)). The water quality criteria listed by COMAR (26.08.02.03-3 (A)(8)) for both of these water use designations for pH are that normal pH values may not be less than 6.5 or greater than 8.5 in standard units.

A data solicitation for pH was conducted by MDE and all readily available data from the past five years was considered for this WQA. The pH data collected was analyzed for compliance with water quality standards for the water use designations of Wills Creek. Based on the 303(d) listing methodologies for pH and mine impacted waters, a waterbody is impaired when greater than 10% of the samples (with a sufficient number of samples to adequately characterize potential diurnal and seasonal variations) exceed the pH numeric criteria (MDE, 2004). Table 2 summarizes the sources of data considered for this WQA and Figure 3a shows the location of the monitoring stations.

**Table 2: Summary of pH Data Sources for Wills Creek**

Data Source	Organization	Stations (#)	Samples (#)	Date Range
Upper Potomac Field Survey	MDE	10	238	1999-2004
Combined Sewer Overflow (CSO) Survey	MDE	10	139	2002-2004
Streams and Restoration Survey	MDE/BOM	8	8	2002
Western Maryland Stream Acidity Survey	DNR	19	19	1999
Maryland Biological Stream Survey (MBSS)	DNR	7	8	1996-2001
Analysis of Jennings Run (Wills Creek)	MDE	72	199	1999-2000



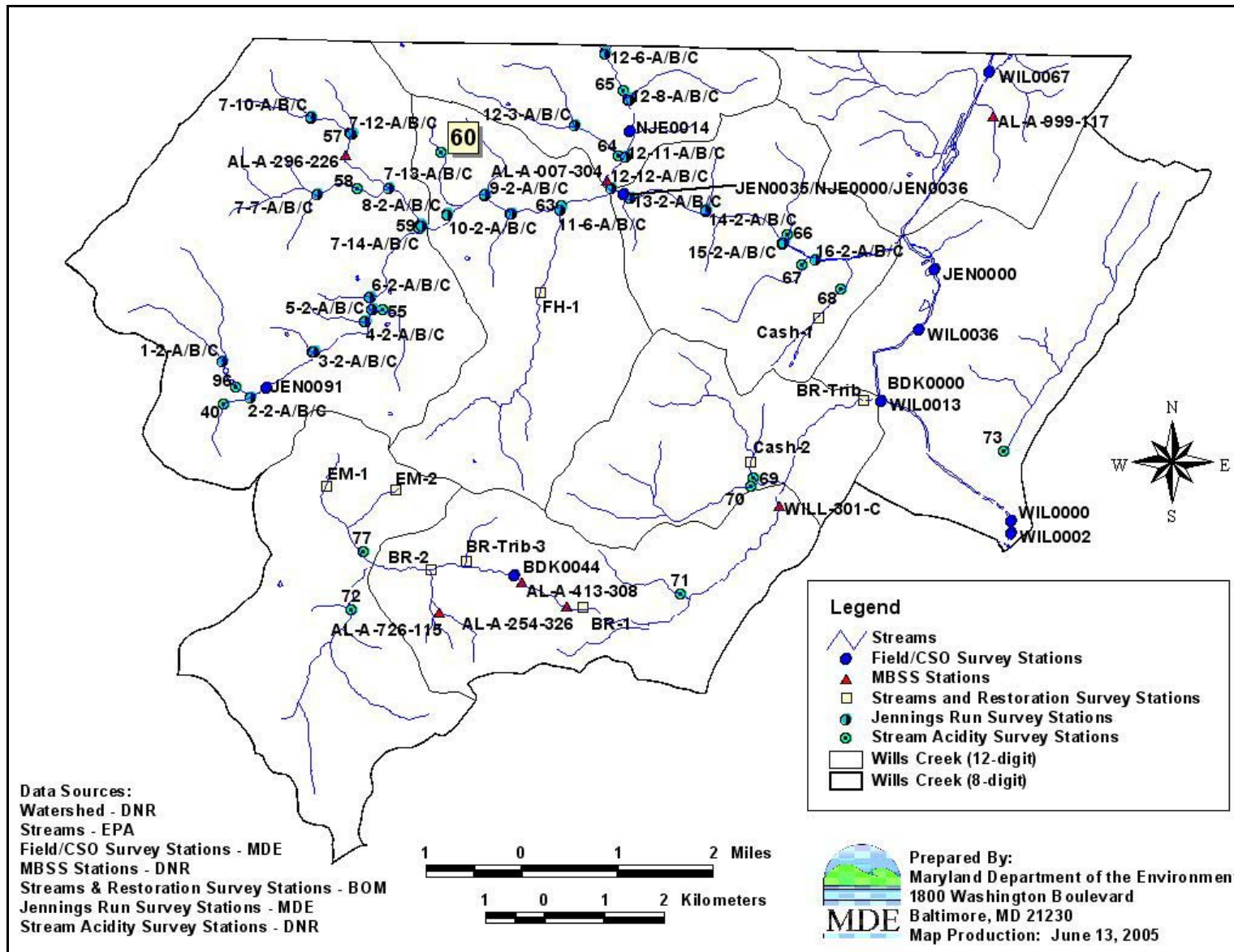


Figure 3a: Monitoring Station Map of Wills Creek Watershed

Table 3a summarizes the pH data for the Wills Creek watershed. The data is organized by 12-digit basins. The data displays exceedances that fall outside of the lower and upper limits of the pH criteria range (6.5 – 8.5). See Appendix A for the complete table of pH data presented by individual monitoring station.

**Table 3a: Wills Creek Watershed: 12-digit Basin pH Analysis**

12-digit basin	Samples(#)	Low pH (< 6.5)		High pH (> 8.5)	
		Exceedances(#)	Exceedances(%)	Exceedances(#)	Exceedances(%)
21410030095	4	0	0.0%	0	0.0%
21410030096	29	0	0.0%	2	6.9%
21410030097	48	0	0.0%	2	4.2%
21410030098	36	1	2.8%	0	0.0%
21410030099	112	35	<b>31.3%</b>	0	0.0%
21410030100	94	0	0.0%	1	1.1%
21410030101	157	0	0.0%	7	4.5%
21410030102	51	0	0.0%	1	2.0%
21410030103	80	0	0.0%	1	1.3%
Total	611	36	5.9%	14	2.3%

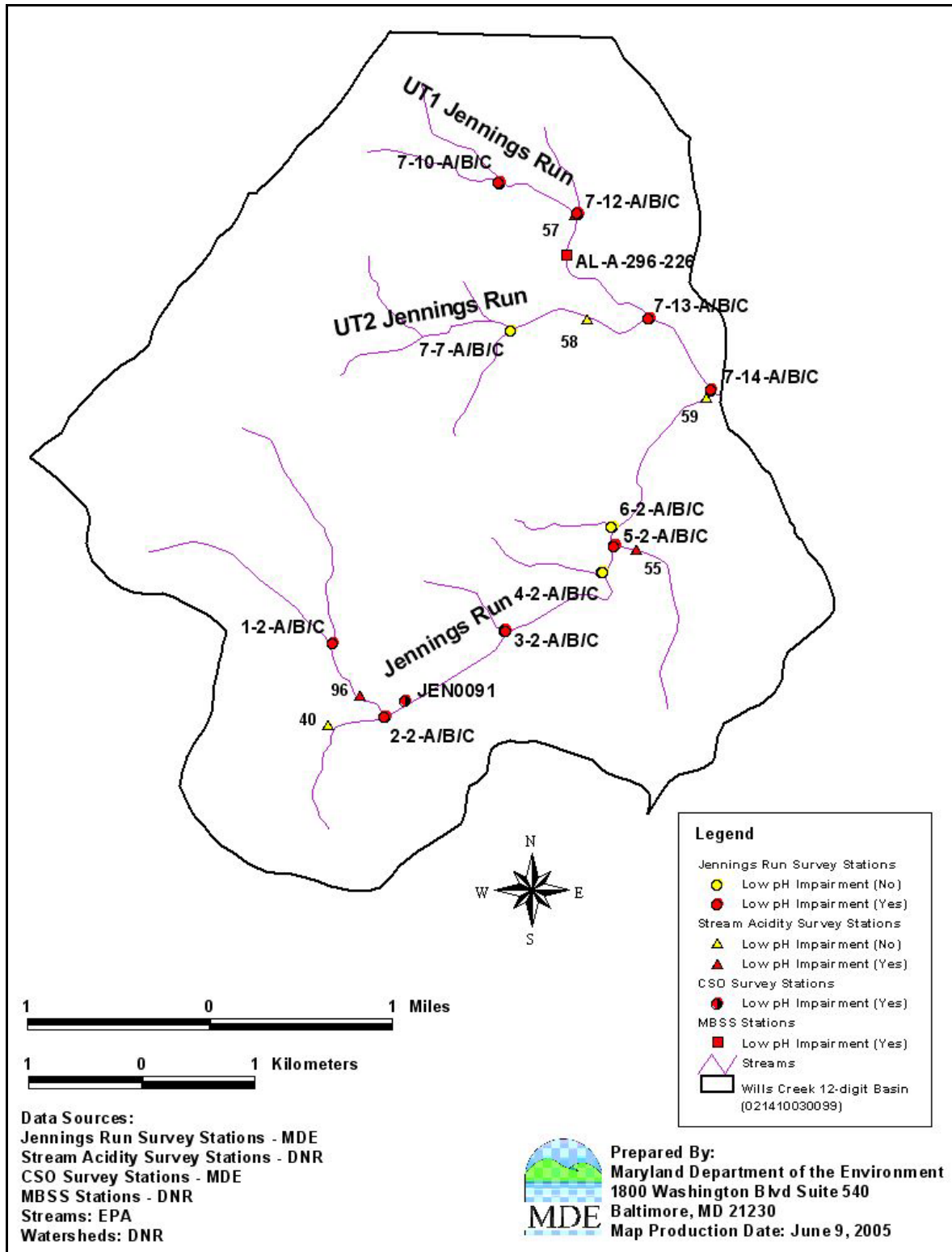
\*12-digit Basin low pH impairment in bold

For the 8-digit basin of Wills Creek, the data shows that 6% of the samples exceed the pH criteria lower limit of 6.5 and 2% of the samples exceed the pH criteria upper limit of 8.5. The exceedances observed do not exceed the 10% rule MDE has defined as a standard for impairment. For the 12-digit basin (021410030099) in Wills Creek, 31% of the samples exceed the pH criteria for the lower limit of 6.5. Station 60 (DNR Acidity Stream Survey) located on an unnamed tributary of Jennings Run flowing through Mount Savage in the 12-digit basin (021410030098) has a pH of 5.19 for one grab sample, therefore a localized impairment may exist in this stream segment.

An additional assessment was conducted for the 12-digit basin (021410030099) on a station-by-station basis to determine if the impairment is localized to specific stream segments or covers the entire basin. Table 3b displays a summary of the pH data by station. Figure 3b displays a coverage of the monitoring stations impacted by low pH in the 12-digit basin. The following stream segments are found in the 12-digit basin: unnamed tributary (UT) 1 of Jennings Run, UT 2 of Jennings Run and Jennings Run. For the Jennings Run and UT 1 of Jennings Run stream segments, 58% and 23% of the samples, respectively, exceed the lower limit of the pH criteria, therefore they are impacted by low pH. The UT 1 of Jennings Run stream segment is currently listed as impaired by low pH on the 303(d) list. For the UT 2 of Jennings Run stream segment, no samples exceed the lower limit of the pH criteria, therefore it is not impacted by low pH.

**Table 3b: Wills Creek Watershed: 12-digit Basin (02141003099) Station by Station pH Analysis**

Station	Stream Segment	Sample (#)	Low pH (< 6.5)		High pH (> 8.5)	
			Exceedance (#)	Exceedance (%)	Exceedance (#)	Exceedance (%)
JEN0091	Jennings Run	14	0	0.0%	0	0.0%
40	Jennings Run	1	0	0.0%	0	0.0%
55	Jennings Run	1	1	100.0%	0	0.0%
59	Jennings Run	1	0	0.0%	0	0.0%
96	Jennings Run	1	1	100.0%	0	0.0%
1-2-A/B/C	Jennings Run	9	7	77.8%	0	0.0%
2-2-A/B/C	Jennings Run	9	3	33.3%	0	0.0%
3-2-A/B/C	Jennings Run	8	1	12.5%	0	0.0%
4-2-A/B/C	Jennings Run	8	0	0.0%	0	0.0%
5-2-A/B/C	Jennings Run	9	3	33.3%	0	0.0%
6-2-A/B/C	Jennings Run	8	0	0.0%	0	0.0%
<b>Totals</b>	<b>Jennings Run</b>	<b>69</b>	<b>16</b>	<b>23.2%</b>	<b>0</b>	<b>0.0%</b>
57	UT 1 of Jennings Run	1	1	100.0%	0	0.0%
7-10-A/B/C	UT 1 of Jennings Run	6	6	100.0%	0	0.0%
7-12-A/B/C	UT 1 of Jennings Run	7	5	71.4%	0	0.0%
7-13-A/B/C	UT 1 of Jennings Run	9	5	55.6%	0	0.0%
7-14-A/B/C	UT 1 of Jennings Run	9	1	11.1%	0	0.0%
AL-A-296-226	UT 1 of Jennings Run	1	1	100.0%	0	0.0%
<b>Totals</b>	<b>UT 1 of Jennings Run</b>	<b>33</b>	<b>19</b>	<b>57.6%</b>	<b>0</b>	<b>0.0%</b>
58	UT 2 of Jennings Run	1	0	0.0%	0	0.0%
7-7-A/B/C	UT 2 of Jennings Run	9	0	0.0%	0	0.0%
<b>Totals</b>	<b>UT 2 of Jennings Run</b>	<b>10</b>	<b>0</b>	<b>0.0%</b>	<b>0</b>	<b>0.0%</b>



**Figure 3b: Monitoring Station Map of Wills Creek Watershed: 12 digit Basin (02141003009)**



#### 4.0 CONCLUSION

This WQA establishes that the water quality standard for pH is being achieved in the Wills Creek 8-digit basin. For the basin, 6% of the samples exceed the lower limit (6.5 standard pH units) and 2% exceed the upper limit (8.5 standard pH units) of the pH criteria range. Based on 303(d) impairment listing methodologies applied by MDE, and the scale used for both 303(d) listings and TMDL investigations (8-digit basin), a waterbody is impaired when greater than 10% of the samples exceed the criteria, or in the case of pH, are outside the range of the criteria. Analysis of data collected for this WQA indicate that Wills Creek is not impaired for low pH when assessed using the 8-digit basin scale.

An assessment at the 12-digit scale was conducted to determine if the listings for the Jennings Run stream segment (12-digit basin - 021410030100) and the UT 1 of Jennings Run stream segment (12-digit basin - 021410030099) are correct. For the 12-digit basin (021410030099) containing the Jennings Run stream segment, 0% of the samples exceed the lower limit (6.5 standard pH units) and 1% exceed the upper limit (8.5 standard pH units) therefore the stream segment is not impaired for low pH. For the 12-digit basin (021410030100) containing the UT1 of Jennings Run stream segment, 31% of the samples exceed the lower limit (6.5 standard pH units) and 0% exceed the upper limit (8.5 standard pH units) therefore the stream segment is likely impaired for low pH. An additional assessment was conducted for the 12-digit basin (021410030099) on a station-by-station basis to determine if the impairment is limited to specific stream segments or covers the entire basin. Two additional stream segments are found in the 12-digit basin: UT 2 of Jennings Run and Jennings Run. For the Jennings Run and UT 1 of Jennings Run stream segments, 58% and 23% of the samples, respectively, exceed the lower limit of the pH criteria, therefore they are impaired by low pH. For the UT 2 of Jennings Run stream segment, no samples exceed the lower limit of the pH criteria, therefore it is not impacted by low pH.

A localized low pH impairment is found at station 60 (see Figure 3) on an UT of Jennings Run flowing through Mount Savage in the 12 digit-basin (021410030098). The analysis supports the conclusion that a TMDL of low pH is required, for the stream segment represented by station 60.

Based on comments from EPA Region III, MDE has taken a slightly different approach using these analyses from the time this WQA was available for public comment. A smaller stream segment represented by Station 60 in an unnamed tributary of Jennings Run through Mount Savage in the 12-digit basin (021410030098) was stated as being placed in Category 4b of the 303(d) list which has been changed to being placed on Category 5. This reflects a different 303(d) listing action and will be subject to public review through the 303(d) listing process.

Barring the receipt of any contradictory data, this report will be used to support the removal of the Wills Creek 8-digit basin as well as the Jennings Run stream segment (12-digit basin - 021410030100) from Maryland's 303(d) list for low pH. The listing for the Jennings Run tributary stream segment (12-digit basin - 021410030099) will remain on the 303(d) list for low pH. A new listing for the Jennings Run stream segment (12-digit basin - 021410030099) and the stream segment represented by Station 60 (12-digit - 021410030098) will be included in Category 5 of the 303(d) list.

## 5.0 REFERENCES

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### Appendix A - Monitoring Station pH Data

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
EM-1	39.7846	79.0727	021410030095	12-Aug-02	7.60	BOM	Streams&Restoration Survey
EM-2	39.7949	79.0739	021410030095	12-Aug-02	7.56	BOM	Streams&Restoration Survey
BR-1	39.8222	79.0978	021410030096	12-Aug-02	7.96	BOM	Streams&Restoration Survey
BR-2	39.8000	79.0895	021410030096	12-Aug-02	7.42	BOM	Streams&Restoration Survey
BR-Trib-3	39.8057	79.0882	021410030096	12-Aug-02	7.46	BOM	Streams&Restoration Survey
BR-Trib	39.8659	79.0583	021410030097	25-Jul-02	6.88	BOM	Streams&Restoration Survey
Cash-2	39.8486	79.0698	021410030097	25-Jul-02	6.88	BOM	Streams&Restoration Survey
FH-1	39.8174	79.0357	021410030098	25-Jul-02	7.48	BOM	Streams&Restoration Survey
AL-A-254-326	39.6379	78.8487	021410030096	1996	7.97	DNR	MBSS
AL-A-413-308	39.6415	78.8598	021410030096	1996	7.78	DNR	MBSS
AL-A-726-115	39.6365	78.8753	021410030096	1996	6.73	DNR	MBSS
WILL-301-C	39.6536	78.8094	021410030096	2000	7.91	DNR	MBSS
WILL-301-C	39.6536	78.8094	021410030096	2001	7.86	DNR	MBSS
AL-A-296-226	39.7056	78.8968	021410030099	1996	<b>4.14</b>	DNR	MBSS
AL-A-007-304	39.7020	78.8449	021410030102	1996	7.46	DNR	MBSS
AL-A-999-117	39.7128	78.7701	021410030103	1996	8.09	DNR	MBSS
10-2-A	38.5817	77.4042	021410030098	May-99	7.52	MDE	Jennings Run Survey
10-2-A	38.5817	77.4042	021410030098	Sep-99	7.95	MDE	Jennings Run Survey
10-2-A	38.5817	77.4042	021410030098	Mar-00	7.20	MDE	Jennings Run Survey
10-2-B	38.5862	77.4041	021410030098	May-99	7.52	MDE	Jennings Run Survey
10-2-B	38.5862	77.4041	021410030098	Mar-00	7.58	MDE	Jennings Run Survey
10-2-C	38.5816	77.4043	021410030098	May-99	7.70	MDE	Jennings Run Survey
10-2-C	38.5816	77.4043	021410030098	Sep-99	7.95	MDE	Jennings Run Survey
10-2-C	38.5816	77.4043	021410030098	Mar-00	7.39	MDE	Jennings Run Survey
11-6-A	38.5972	77.4038	021410030098	May-99	7.68	MDE	Jennings Run Survey
11-6-A	38.5972	77.4038	021410030098	Sep-99	7.66	MDE	Jennings Run Survey
11-6-A	38.5972	77.4038	021410030098	Mar-00	7.39	MDE	Jennings Run Survey
11-6-B	38.5905	77.4040	021410030098	May-99	7.52	MDE	Jennings Run Survey
11-6-B	38.5905	77.4040	021410030098	Sep-99	7.34	MDE	Jennings Run Survey
11-6-B	38.5905	77.4040	021410030098	Mar-00	7.29	MDE	Jennings Run Survey
11-6-C	38.5973	77.4034	021410030098	May-99	7.52	MDE	Jennings Run Survey
11-6-C	38.5973	77.4034	021410030098	Sep-99	7.80	MDE	Jennings Run Survey
11-6-C	38.5973	77.4034	021410030098	Mar-00	7.34	MDE	Jennings Run Survey
8-2-A	38.5905	77.4039	021410030098	May-99	7.41	MDE	Jennings Run Survey
8-2-A	38.5905	77.4039	021410030098	Mar-00	7.24	MDE	Jennings Run Survey
8-2-B	38.5899	77.4040	021410030098	May-99	7.40	MDE	Jennings Run Survey
8-2-B	38.5899	77.4040	021410030098	Sep-99	7.88	MDE	Jennings Run Survey
8-2-B	38.5899	77.4040	021410030098	Mar-00	6.98	MDE	Jennings Run Survey
8-2-C	38.5898	77.4041	021410030098	May-99	7.43	MDE	Jennings Run Survey
8-2-C	38.5898	77.4041	021410030098	Sep-99	7.88	MDE	Jennings Run Survey
8-2-C	38.5898	77.4041	021410030098	Mar-00	7.02	MDE	Jennings Run Survey
9-2-A	38.6041	77.4010	021410030098	May-99	7.75	MDE	Jennings Run Survey
9-2-A	38.6041	77.4010	021410030098	Mar-00	7.54	MDE	Jennings Run Survey
9-2-B	38.5992	77.4013	021410030098	May-99	7.56	MDE	Jennings Run Survey
9-2-B	38.5992	77.4013	021410030098	Sep-99	7.95	MDE	Jennings Run Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
9-2-B	38.5992	77.4013	021410030098	Mar-00	7.02	MDE	Jennings Run Survey
9-2-C	38.5861	77.4041	021410030098	May-99	7.52	MDE	Jennings Run Survey
9-2-C	38.5861	77.4041	021410030098	Sep-99	7.95	MDE	Jennings Run Survey
9-2-C	38.5861	77.4041	021410030098	Mar-00	7.20	MDE	Jennings Run Survey
1-2-A	38.5511	77.4327	021410030099	May-99	<b>4.52</b>	MDE	Jennings Run Survey
1-2-A	38.5511	77.4327	021410030099	Sep-99	<b>4.36</b>	MDE	Jennings Run Survey
1-2-A	38.5511	77.4327	021410030099	Mar-00	<b>4.38</b>	MDE	Jennings Run Survey
1-2-B	38.5510	77.4335	021410030099	May-99	<b>6.44</b>	MDE	Jennings Run Survey
1-2-B	38.5510	77.4335	021410030099	Sep-99	6.76	MDE	Jennings Run Survey
1-2-B	38.5510	77.4335	021410030099	Mar-00	6.85	MDE	Jennings Run Survey
1-2-C	38.5510	77.4347	021410030099	May-99	<b>5.19</b>	MDE	Jennings Run Survey
1-2-C	38.5510	77.4347	021410030099	Sep-99	<b>4.40</b>	MDE	Jennings Run Survey
1-2-C	38.5510	77.4347	021410030099	Mar-00	<b>4.93</b>	MDE	Jennings Run Survey
2-2-A	38.5467	77.4397	021410030099	May-99	<b>5.73</b>	MDE	Jennings Run Survey
2-2-A	38.5467	77.4397	021410030099	Sep-99	6.94	MDE	Jennings Run Survey
2-2-A	38.5467	77.4397	021410030099	Mar-00	<b>4.93</b>	MDE	Jennings Run Survey
2-2-B	38.5466	77.4399	021410030099	May-99	7.19	MDE	Jennings Run Survey
2-2-B	38.5466	77.4399	021410030099	Sep-99	7.40	MDE	Jennings Run Survey
2-2-B	38.5466	77.4399	021410030099	Mar-00	7.47	MDE	Jennings Run Survey
2-2-C	38.5466	77.4397	021410030099	May-99	<b>5.68</b>	MDE	Jennings Run Survey
2-2-C	38.5466	77.4397	021410030099	Sep-99	7.27	MDE	Jennings Run Survey
2-2-C	38.5466	77.4397	021410030099	Mar-00	7.48	MDE	Jennings Run Survey
3-2-A	38.5601	77.4315	021410030099	May-99	6.59	MDE	Jennings Run Survey
3-2-A	38.5601	77.4315	021410030099	Mar-00	7.12	MDE	Jennings Run Survey
3-2-B	38.5599	77.4316	021410030099	May-99	<b>5.68</b>	MDE	Jennings Run Survey
3-2-B	38.5599	77.4316	021410030099	Sep-99	7.27	MDE	Jennings Run Survey
3-2-B	38.5599	77.4316	021410030099	Mar-00	7.48	MDE	Jennings Run Survey
3-2-C	38.5600	77.4315	021410030099	May-99	7.25	MDE	Jennings Run Survey
3-2-C	38.5600	77.4315	021410030099	Sep-99	8.08	MDE	Jennings Run Survey
3-2-C	38.5600	77.4315	021410030099	Mar-00	7.44	MDE	Jennings Run Survey
4-2-A	38.5603	77.4252	021410030099	May-99	7.23	MDE	Jennings Run Survey
4-2-A	38.5603	77.4252	021410030099	Mar-00	7.32	MDE	Jennings Run Survey
4-2-B	38.5602	77.4255	021410030099	May-99	7.37	MDE	Jennings Run Survey
4-2-B	38.5602	77.4255	021410030099	Sep-99	8.08	MDE	Jennings Run Survey
4-2-B	38.5602	77.4255	021410030099	Mar-00	7.44	MDE	Jennings Run Survey
4-2-C	38.5604	77.4230	021410030099	May-99	7.50	MDE	Jennings Run Survey
4-2-C	38.5604	77.4230	021410030099	Sep-99	7.92	MDE	Jennings Run Survey
4-2-C	38.5604	77.4230	021410030099	Mar-00	7.50	MDE	Jennings Run Survey
5-2-A	38.5604	77.4230	021410030099	May-99	7.50	MDE	Jennings Run Survey
5-2-A	38.5604	77.4230	021410030099	Sep-99	7.92	MDE	Jennings Run Survey
5-2-A	38.5604	77.4230	021410030099	Mar-00	7.50	MDE	Jennings Run Survey
5-2-B	38.5605	77.4229	021410030099	May-99	<b>5.16</b>	MDE	Jennings Run Survey
5-2-B	38.5605	77.4229	021410030099	Sep-99	<b>4.84</b>	MDE	Jennings Run Survey
5-2-B	38.5605	77.4229	021410030099	Mar-00	<b>4.92</b>	MDE	Jennings Run Survey
5-2-C	38.5612	77.4152	021410030099	May-99	7.07	MDE	Jennings Run Survey
5-2-C	38.5612	77.4152	021410030099	Sep-99	7.80	MDE	Jennings Run Survey
5-2-C	38.5612	77.4152	021410030099	Mar-00	7.32	MDE	Jennings Run Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
6-2-A	38.5657	77.4151	021410030099	May-99	7.19	MDE	Jennings Run Survey
6-2-A	38.5657	77.4151	021410030099	Mar-00	7.32	MDE	Jennings Run Survey
6-2-B	38.5656	77.4153	021410030099	May-99	7.07	MDE	Jennings Run Survey
6-2-B	38.5656	77.4153	021410030099	Sep-99	7.80	MDE	Jennings Run Survey
6-2-B	38.5656	77.4153	021410030099	Mar-00	7.32	MDE	Jennings Run Survey
6-2-C	38.5658	77.4145	021410030099	May-99	6.79	MDE	Jennings Run Survey
6-2-C	38.5658	77.4145	021410030099	Sep-99	8.22	MDE	Jennings Run Survey
6-2-C	38.5658	77.4145	021410030099	Mar-00	7.25	MDE	Jennings Run Survey
7-10-A	38.6195	77.3867	021410030099	May-99	<b>3.33</b>	MDE	Jennings Run Survey
7-10-A	38.6195	77.3867	021410030099	Mar-00	<b>3.38</b>	MDE	Jennings Run Survey
7-10-B	38.6307	77.3867	021410030099	May-99	<b>3.46</b>	MDE	Jennings Run Survey
7-10-B	38.6307	77.3867	021410030099	Mar-00	<b>3.43</b>	MDE	Jennings Run Survey
7-10-C	38.6195	77.3875	021410030099	May-99	<b>3.35</b>	MDE	Jennings Run Survey
7-10-C	38.6195	77.3875	021410030099	Mar-00	<b>3.44</b>	MDE	Jennings Run Survey
7-12-A	38.6077	77.3896	021410030099	May-99	7.27	MDE	Jennings Run Survey
7-12-A	38.6077	77.3896	021410030099	Mar-00	7.00	MDE	Jennings Run Survey
7-12-B	38.6191	77.3897	021410030099	May-99	<b>4.44</b>	MDE	Jennings Run Survey
7-12-B	38.6191	77.3897	021410030099	Mar-00	<b>3.44</b>	MDE	Jennings Run Survey
7-12-C	38.6070	77.3901	021410030099	May-99	<b>4.90</b>	MDE	Jennings Run Survey
7-12-C	38.6070	77.3901	021410030099	Sep-99	<b>3.46</b>	MDE	Jennings Run Survey
7-12-C	38.6070	77.3901	021410030099	Mar-00	<b>3.99</b>	MDE	Jennings Run Survey
7-13-A	38.6063	77.3997	021410030099	May-99	7.08	MDE	Jennings Run Survey
7-13-A	38.6063	77.3997	021410030099	Sep-99	<b>5.07</b>	MDE	Jennings Run Survey
7-13-A	38.6063	77.3997	021410030099	Mar-00	<b>4.40</b>	MDE	Jennings Run Survey
7-13-B	38.6051	77.3999	021410030099	May-99	<b>3.37</b>	MDE	Jennings Run Survey
7-13-B	38.6051	77.3999	021410030099	Sep-99	6.78	MDE	Jennings Run Survey
7-13-B	38.6051	77.3999	021410030099	Mar-00	7.09	MDE	Jennings Run Survey
7-13-C	38.6052	77.3998	021410030099	May-99	<b>3.84</b>	MDE	Jennings Run Survey
7-13-C	38.6052	77.3998	021410030099	Sep-99	7.36	MDE	Jennings Run Survey
7-13-C	38.6052	77.3998	021410030099	Mar-00	<b>5.12</b>	MDE	Jennings Run Survey
7-14-A	38.5714	77.4071	021410030099	May-99	<b>5.04</b>	MDE	Jennings Run Survey
7-14-A	38.5714	77.4071	021410030099	Sep-99	7.36	MDE	Jennings Run Survey
7-14-A	38.5714	77.4071	021410030099	Mar-00	5.12	MDE	Jennings Run Survey
7-14-B	38.5706	77.4077	021410030099	May-99	7.59	MDE	Jennings Run Survey
7-14-B	38.5706	77.4077	021410030099	May-99	7.40	MDE	Jennings Run Survey
7-14-B	38.5706	77.4077	021410030099	Sep-99	8.22	MDE	Jennings Run Survey
7-14-B	38.5706	77.4077	021410030099	Mar-00	7.25	MDE	Jennings Run Survey
7-14-C	38.5708	77.4077	021410030099	Sep-99	7.88	MDE	Jennings Run Survey
7-14-C	38.5708	77.4077	021410030099	Mar-00	6.98	MDE	Jennings Run Survey
7-7-A	38.5993	77.4013	021410030099	May-99	7.22	MDE	Jennings Run Survey
7-7-A	38.5993	77.4013	021410030099	Sep-99	7.25	MDE	Jennings Run Survey
7-7-A	38.5993	77.4013	021410030099	Mar-00	7.19	MDE	Jennings Run Survey
7-7-B	38.5974	77.4014	021410030099	May-99	7.64	MDE	Jennings Run Survey
7-7-B	38.5974	77.4014	021410030099	Sep-99	7.54	MDE	Jennings Run Survey
7-7-B	38.5974	77.4014	021410030099	Mar-00	7.30	MDE	Jennings Run Survey
7-7-C	38.6040	77.4012	021410030099	May-99	7.43	MDE	Jennings Run Survey
7-7-C	38.6040	77.4012	021410030099	Sep-99	7.18	MDE	Jennings Run Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
7-7-C	38.6040	77.4012	021410030099	Mar-00	7.09	MDE	Jennings Run Survey
12-12-A	38.6041	77.4011	021410030100	May-99	7.62	MDE	Jennings Run Survey
12-12-A	38.6041	77.4011	021410030100	Sep-99	7.73	MDE	Jennings Run Survey
12-12-A	38.6041	77.4011	021410030100	Mar-00	7.50	MDE	Jennings Run Survey
12-12-B	38.5995	77.4012	021410030100	May-99	7.64	MDE	Jennings Run Survey
12-12-B	38.5995	77.4012	021410030100	Sep-99	7.80	MDE	Jennings Run Survey
12-12-B	38.5995	77.4012	021410030100	Mar-00	7.34	MDE	Jennings Run Survey
12-12-C	38.5768	77.4047	021410030100	May-99	7.71	MDE	Jennings Run Survey
12-12-C	38.5768	77.4047	021410030100	Sep-99	7.79	MDE	Jennings Run Survey
12-12-C	38.5768	77.4047	021410030100	Mar-00	7.48	MDE	Jennings Run Survey
13-2-A	38.5768	77.4047	021410030100	May-99	7.71	MDE	Jennings Run Survey
13-2-A	38.5768	77.4047	021410030100	Sep-99	7.79	MDE	Jennings Run Survey
13-2-A	38.5768	77.4047	021410030100	Mar-00	7.48	MDE	Jennings Run Survey
13-2-B	38.5717	77.4051	021410030100	May-99	7.88	MDE	Jennings Run Survey
13-2-B	38.5717	77.4051	021410030100	Mar-00	7.94	MDE	Jennings Run Survey
13-2-C	38.5772	77.4046	021410030100	May-99	7.53	MDE	Jennings Run Survey
13-2-C	38.5772	77.4046	021410030100	Sep-99	7.84	MDE	Jennings Run Survey
13-2-C	38.5772	77.4046	021410030100	Mar-00	7.46	MDE	Jennings Run Survey
14-2-A	38.5706	77.4097	021410030100	May-99	7.49	MDE	Jennings Run Survey
14-2-A	38.5706	77.4097	021410030100	Mar-00	7.07	MDE	Jennings Run Survey
14-2-B	38.5816	77.4046	021410030100	May-99	7.53	MDE	Jennings Run Survey
14-2-B	38.5816	77.4046	021410030100	Sep-99	7.84	MDE	Jennings Run Survey
14-2-B	38.5816	77.4046	021410030100	Mar-00	7.46	MDE	Jennings Run Survey
14-2-C	38.5715	77.4052	021410030100	May-99	7.59	MDE	Jennings Run Survey
14-2-C	38.5715	77.4052	021410030100	Sep-99	7.84	MDE	Jennings Run Survey
14-2-C	38.5715	77.4052	021410030100	Mar-00	7.48	MDE	Jennings Run Survey
15-2-A	38.5682	77.4099	021410030100	May-99	7.24	MDE	Jennings Run Survey
15-2-A	38.5682	77.4099	021410030100	Mar-00	7.11	MDE	Jennings Run Survey
15-2-B	38.5682	77.4099	021410030100	May-99	7.63	MDE	Jennings Run Survey
15-2-B	38.5682	77.4099	021410030100	Sep-99	7.95	MDE	Jennings Run Survey
15-2-B	38.5682	77.4099	021410030100	Mar-00	7.41	MDE	Jennings Run Survey
15-2-C	38.5706	77.4097	021410030100	May-99	7.58	MDE	Jennings Run Survey
15-2-C	38.5706	77.4097	021410030100	Sep-99	7.95	MDE	Jennings Run Survey
15-2-C	38.5706	77.4097	021410030100	Mar-00	7.44	MDE	Jennings Run Survey
16-2-A	38.5682	77.4123	021410030100	May-99	6.69	MDE	Jennings Run Survey
16-2-A	38.5682	77.4123	021410030100	Mar-00	6.68	MDE	Jennings Run Survey
16-2-B	38.5677	77.4124	021410030100	May-99	7.49	MDE	Jennings Run Survey
16-2-B	38.5677	77.4124	021410030100	Sep-99	7.95	MDE	Jennings Run Survey
16-2-B	38.5677	77.4124	021410030100	Mar-00	7.44	MDE	Jennings Run Survey
16-2-C	38.5681	77.4123	021410030100	May-99	7.91	MDE	Jennings Run Survey
16-2-C	38.5681	77.4123	021410030100	Sep-99	7.74	MDE	Jennings Run Survey
16-2-C	38.5681	77.4123	021410030100	Mar-00	7.42	MDE	Jennings Run Survey
12-11-A	38.6068	77.3944	021410030102	May-99	7.70	MDE	Jennings Run Survey
12-11-A	38.6068	77.3944	021410030102	Sep-99	7.60	MDE	Jennings Run Survey
12-11-A	38.6068	77.3944	021410030102	Mar-00	7.62	MDE	Jennings Run Survey
12-11-B	38.6069	77.3941	021410030102	May-99	7.66	MDE	Jennings Run Survey
12-11-B	38.6069	77.3941	021410030102	Sep-99	7.25	MDE	Jennings Run Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
12-11-B	38.6069	77.3941	021410030102	Mar-00	7.56	MDE	Jennings Run Survey
12-11-C	38.6065	77.3949	021410030102	May-99	7.62	MDE	Jennings Run Survey
12-11-C	38.6065	77.3949	021410030102	Sep-99	7.12	MDE	Jennings Run Survey
12-11-C	38.6065	77.3949	021410030102	Mar-00	7.50	MDE	Jennings Run Survey
12-3-A	38.6191	77.3883	021410030102	May-99	7.55	MDE	Jennings Run Survey
12-3-A	38.6191	77.3883	021410030102	Mar-00	7.66	MDE	Jennings Run Survey
12-3-B	38.6195	77.3881	021410030102	May-99	7.40	MDE	Jennings Run Survey
12-3-B	38.6195	77.3881	021410030102	Mar-00	7.43	MDE	Jennings Run Survey
12-3-C	38.6191	77.3886	021410030102	May-99	7.54	MDE	Jennings Run Survey
12-3-C	38.6191	77.3886	021410030102	Sep-99	7.25	MDE	Jennings Run Survey
12-3-C	38.6191	77.3886	021410030102	Mar-00	7.56	MDE	Jennings Run Survey
12-6-A	38.6453	77.3742	021410030102	May-99	7.45	MDE	Jennings Run Survey
12-6-A	38.6453	77.3742	021410030102	Sep-99	7.31	MDE	Jennings Run Survey
12-6-A	38.6453	77.3742	021410030102	Mar-00	7.39	MDE	Jennings Run Survey
12-6-B	38.6448	77.3743	021410030102	May-99	7.86	MDE	Jennings Run Survey
12-6-B	38.6448	77.3743	021410030102	Sep-99	7.86	MDE	Jennings Run Survey
12-6-B	38.6448	77.3743	021410030102	Mar-00	7.50	MDE	Jennings Run Survey
12-6-C	38.6445	77.3747	021410030102	May-99	7.93	MDE	Jennings Run Survey
12-6-C	38.6445	77.3747	021410030102	Sep-99	7.78	MDE	Jennings Run Survey
12-6-C	38.6445	77.3747	021410030102	Mar-00	7.57	MDE	Jennings Run Survey
12-8-A	38.6309	77.3828	021410030102	May-99	7.83	MDE	Jennings Run Survey
12-8-A	38.6309	77.3828	021410030102	Sep-99	7.62	MDE	Jennings Run Survey
12-8-A	38.6309	77.3828	021410030102	Mar-00	7.66	MDE	Jennings Run Survey
12-8-B	38.6310	77.3823	021410030102	May-99	7.90	MDE	Jennings Run Survey
12-8-B	38.6310	77.3823	021410030102	Sep-99	7.78	MDE	Jennings Run Survey
12-8-B	38.6310	77.3823	021410030102	Mar-00	7.57	MDE	Jennings Run Survey
12-8-C	38.6310	77.3826	021410030102	May-99	7.84	MDE	Jennings Run Survey
12-8-C	38.6310	77.3826	021410030102	Sep-99	7.81	MDE	Jennings Run Survey
12-8-C	38.6310	77.3826	021410030102	Mar-00	7.62	MDE	Jennings Run Survey
BDK0044	39 38.400	78 51.370	021410030096	8-Mar-01	7.60	MDE	CSO Survey
BDK0044	39 38.400	78 51.370	021410030096	27-Mar-01	7.70	MDE	CSO Survey
BDK0044	39 38.400	78 51.370	021410030096	3-Apr-01	7.80	MDE	CSO Survey
BDK0044	39 38.400	78 51.370	021410030096	22-Aug-01	6.90	MDE	CSO Survey
BDK0044	39 38.400	78 51.370	021410030096	28-Aug-01	7.20	MDE	CSO Survey
BDK0044	39 38.400	78 51.370	021410030096	6-Sep-01	7.60	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	8-Mar-01	7.70	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	27-Mar-01	7.80	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	3-Apr-01	8.00	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	22-Aug-01	7.30	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	28-Aug-01	7.40	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	6-Sep-01	7.20	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	8-Oct-02	7.90	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	7-Nov-02	7.80	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	20-Nov-02	7.70	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	2-Dec-02	8.30	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	17-Dec-02	<b>8.60</b>	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	7-Jan-03	7.70	MDE	CSO Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
BDK0000	39 40.229	78 47.511	021410030097	3-Feb-03	8.30	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	18-Mar-03	7.70	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	1-Apr-03	8.20	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	15-Apr-03	8.20	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	21-Apr-03	8.00	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	28-Apr-03	8.30	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	5-May-03	8.00	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	19-May-03	8.00	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	2-Jun-03	8.10	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	16-Jun-03	8.10	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	7-Jul-03	8.20	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	21-Jul-03	8.10	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	4-Aug-03	8.00	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	18-Aug-03	8.20	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	8-Sep-03	8.10	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	22-Sep-03	8.10	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	7-Oct-03	8.00	MDE	CSO Survey
BDK0000	39 40.229	78 47.511	021410030097	21-Oct-03	8.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	8-Mar-01	7.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	27-Mar-01	7.80	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	3-Apr-01	7.40	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	22-Aug-01	7.40	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	28-Aug-01	7.70	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	6-Sep-01	7.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	8-Oct-02	7.90	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	7-Nov-02	7.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	20-Nov-02	7.20	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	2-Dec-02	<b>8.60</b>	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	17-Dec-02	8.20	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	7-Jan-03	7.70	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	3-Feb-03	7.50	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	18-Mar-03	7.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	1-Apr-03	7.60	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	15-Apr-03	7.60	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	21-Apr-03	7.50	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	28-Apr-03	7.80	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	5-May-03	7.80	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	19-May-03	7.40	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	2-Jun-03	7.80	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	16-Jun-03	7.40	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	7-Jul-03	8.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	21-Jul-03	7.90	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	4-Aug-03	7.90	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	18-Aug-03	8.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	8-Sep-03	8.10	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	22-Sep-03	7.60	MDE	CSO Survey
JEN0036	39 42.032	78 50.618	021410030100	7-Oct-03	8.20	MDE	CSO Survey



Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
JEN0036	39 42.032	78 50.618	021410030100	21-Oct-03	7.70	MDE	CSO Survey
NJE0000	39 42.052	78 50.607	021410030100	8-Mar-01	7.30	MDE	CSO Survey
NJE0000	39 42.052	78 50.607	021410030100	27-Mar-01	8.00	MDE	CSO Survey
NJE0000	39 42.052	78 50.607	021410030100	3-Apr-01	7.50	MDE	CSO Survey
NJE0000	39 42.052	78 50.607	021410030100	22-Aug-01	7.30	MDE	CSO Survey
NJE0000	39 42.052	78 50.607	021410030100	28-Aug-01	7.60	MDE	CSO Survey
NJE0000	39 42.052	78 50.607	021410030100	6-Sep-01	7.00	MDE	CSO Survey
JEN0000	39 41.622	78 46.833	021410030101	8-Mar-01	7.20	MDE	CSO Survey
JEN0000	39 41.622	78 46.833	021410030101	27-Mar-01	7.60	MDE	CSO Survey
JEN0000	39 41.622	78 46.833	021410030101	3-Apr-01	7.50	MDE	CSO Survey
JEN0000	39 41.622	78 46.833	021410030101	22-Aug-01	7.30	MDE	CSO Survey
JEN0000	39 41.622	78 46.833	021410030101	28-Aug-01	7.50	MDE	CSO Survey
JEN0000	39 41.622	78 46.833	021410030101	6-Sep-01	7.00	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	8-Oct-02	8.10	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	7-Nov-02	7.50	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	20-Nov-02	7.40	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	2-Dec-02	8.30	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	17-Dec-02	8.30	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	7-Jan-03	7.50	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	3-Feb-03	8.10	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	18-Mar-03	7.20	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	1-Apr-03	7.90	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	15-Apr-03	8.10	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	21-Apr-03	8.10	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	28-Apr-03	8.20	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	5-May-03	7.90	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	19-May-03	7.60	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	2-Jun-03	7.80	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	16-Jun-03	8.00	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	7-Jul-03	8.20	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	21-Jul-03	8.40	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	4-Aug-03	8.20	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	18-Aug-03	8.30	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	8-Sep-03	<b>8.60</b>	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	22-Sep-03	7.90	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	7-Oct-03	8.30	MDE	CSO Survey
WIL0000	39 38.904	78 45.877	021410030101	21-Oct-03	8.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	11-Oct-00	7.80	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	2-Nov-00	8.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	11-Dec-00	7.50	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	17-Jan-01	7.50	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	13-Feb-01	7.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	8-Mar-01	7.50	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	13-Mar-01	7.50	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	27-Mar-01	8.00	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	3-Apr-01	7.70	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	11-Apr-01	8.00	MDE	CSO Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
WIL0002	39 39.053	78 45.847	021410030101	8-May-01	7.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	12-Jun-01	7.70	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	17-Jul-01	8.00	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	14-Aug-01	8.20	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	22-Aug-01	7.80	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	28-Aug-01	8.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	6-Sep-01	7.40	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	11-Sep-01	8.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	10-Oct-01	7.80	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	14-Nov-01	7.80	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	11-Dec-01	8.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	15-Jan-02	7.90	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	12-Feb-02	7.60	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	12-Mar-02	7.60	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	9-Apr-02	8.00	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	7-May-02	7.60	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	18-Jun-02	8.10	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	16-Jul-02	7.40	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	13-Aug-02	8.20	MDE	CSO Survey
WIL0002	39 39.053	78 45.847	021410030101	17-Sep-02	7.90	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	10-Nov-99	7.90	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	6-Dec-99	7.30	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	18-Jan-00	7.30	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	14-Feb-00	7.20	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	6-Mar-00	7.70	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	10-Apr-00	8.10	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	8-May-00	7.80	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	12-Jun-00	7.70	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	10-Jul-00	7.80	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	7-Aug-00	7.60	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	11-Sep-00	7.80	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	8-Oct-02	7.90	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	7-Nov-02	7.40	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	20-Nov-02	7.30	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	2-Dec-02	8.40	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	17-Dec-02	8.10	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	7-Jan-03	7.70	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	3-Feb-03	8.00	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	18-Mar-03	7.20	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	1-Apr-03	7.80	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	15-Apr-03	7.80	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	21-Apr-03	7.70	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	28-Apr-03	8.10	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	5-May-03	7.80	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	19-May-03	7.50	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	2-Jun-03	7.60	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	16-Jun-03	7.80	MDE	CSO Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
WIL0013	39 40.195	78 47.355	021410030101	7-Jul-03	8.10	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	21-Jul-03	8.20	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	4-Aug-03	7.90	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	18-Aug-03	8.30	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	8-Sep-03	8.40	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	22-Sep-03	7.70	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	7-Oct-03	7.70	MDE	CSO Survey
WIL0013	39 40.195	78 47.355	021410030101	21-Oct-03	7.80	MDE	CSO Survey
WIL0036	39 41.089	78 46.833	021410030101	8-Mar-01	7.50	MDE	CSO Survey
WIL0036	39 41.089	78 46.833	021410030101	27-Mar-01	7.80	MDE	CSO Survey
WIL0036	39 41.089	78 46.833	021410030101	3-Apr-01	7.40	MDE	CSO Survey
WIL0036	39 41.089	78 46.833	021410030101	22-Aug-01	7.60	MDE	CSO Survey
WIL0036	39 41.089	78 46.833	021410030101	28-Aug-01	7.70	MDE	CSO Survey
WIL0036	39 41.089	78 46.833	021410030101	6-Sep-01	7.40	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	10-Nov-99	7.60	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	6-Dec-99	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	18-Jan-00	7.10	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	14-Feb-00	7.10	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	6-Mar-00	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	10-Apr-00	8.30	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	8-May-00	7.80	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	12-Jun-00	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	10-Jul-00	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	7-Aug-00	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	11-Sep-00	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	11-Oct-00	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	2-Nov-00	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	11-Dec-00	7.30	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	17-Jan-01	7.30	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	13-Feb-01	7.00	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	8-Mar-01	8.10	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	13-Mar-01	7.40	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	27-Mar-01	7.90	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	3-Apr-01	7.40	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	11-Apr-01	8.00	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	8-May-01	6.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	12-Jun-01	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	17-Jul-01	8.00	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	14-Aug-01	8.20	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	22-Aug-01	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	28-Aug-01	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	6-Sep-01	7.20	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	11-Sep-01	8.10	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	10-Oct-01	7.90	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	14-Nov-01	7.20	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	11-Dec-01	8.00	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	15-Jan-02	7.90	MDE	CSO Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
WIL0067	39 43.102	78 46.273	021410030103	12-Feb-02	7.80	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	12-Mar-02	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	9-Apr-02	7.90	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	7-May-02	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	18-Jun-02	7.80	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	16-Jul-02	7.30	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	13-Aug-02	8.20	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	17-Sep-02	7.90	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	8-Oct-02	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	7-Nov-02	6.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	20-Nov-02	7.10	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	2-Dec-02	8.20	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	17-Dec-02	8.20	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	7-Jan-03	7.60	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	3-Feb-03	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	18-Mar-03	7.00	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	1-Apr-03	7.90	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	15-Apr-03	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	21-Apr-03	7.60	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	28-Apr-03	7.60	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	5-May-03	7.70	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	19-May-03	7.30	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	2-Jun-03	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	16-Jun-03	7.40	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	7-Jul-03	8.10	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	21-Jul-03	8.40	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	4-Aug-03	7.80	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	18-Aug-03	8.30	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	8-Sep-03	8.10	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	22-Sep-03	7.50	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	7-Oct-03	7.20	MDE	CSO Survey
WIL0067	39 43.102	78 46.273	021410030103	21-Oct-03	7.40	MDE	CSO Survey
BDK0044	39 38.400	78 51.370	021410030096	15-Oct-02	<b>8.60</b>	MDE	CSO Survey
72	39.6366	78.8937	021410030095	1999	7.11	DNR	Stream Acidity Survey
77	39.6451	78.8908	021410030095	1999	7.67	DNR	Stream Acidity Survey
71	39.6400	78.8283	021410030096	1999	6.95	DNR	Stream Acidity Survey
69	39.6576	78.8147	021410030097	1999	7.19	DNR	Stream Acidity Survey
70	39.6572	78.8150	021410030097	1999	7.00	DNR	Stream Acidity Survey
60	39.7062	78.8768	021410030098	1999	<b>5.19</b>	DNR	Stream Acidity Survey
63	39.6984	78.8531	021410030098	1999	7.00	DNR	Stream Acidity Survey
40	39.6678	78.9187	021410030099	1999	6.85	DNR	Stream Acidity Survey
55	39.6826	78.8867	021410030099	1999	<b>4.99</b>	DNR	Stream Acidity Survey
57	39.7087	78.8945	021410030099	1999	<b>4.57</b>	DNR	Stream Acidity Survey
58	39.7004	78.8930	021410030099	1999	6.68	DNR	Stream Acidity Survey
59	39.6946	78.8799	021410030099	1999	6.95	DNR	Stream Acidity Survey
96	39.6705	78.9150	021410030099	1999	<b>5.20</b>	DNR	Stream Acidity Survey
66	39.6947	78.8094	021410030100	1999	6.74	DNR	Stream Acidity Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
67	39.6904	78.8038	021410030100	1999	6.75	DNR	Stream Acidity Survey
68	39.6857	78.7979	021410030100	1999	7.03	DNR	Stream Acidity Survey
73	39.6627	78.7667	021410030101	1999	7.31	DNR	Stream Acidity Survey
64	39.7062	78.8421	021410030102	1999	7.25	DNR	Stream Acidity Survey
65	39.7161	78.8415	021410030102	1999	6.85	DNR	Stream Acidity Survey
BDK0044	39 38.400	78 51.370	21410030096	17-Oct-02	8.20	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	21-Oct-02	7.90	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	23-Oct-02	7.50	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	12-Nov-02	7.90	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	13-Nov-02	7.80	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	15-Nov-02	7.60	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	18-Nov-02	8.10	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	9-Dec-02	<b>8.60</b>	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	8-Dec-03	8.00	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	9-Feb-04	7.90	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	10-Feb-04	8.00	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	12-Feb-04	8.10	MDE	Upper Potomac Field Survey
BDK0044	39 38.400	78 51.370	21410030096	29-Mar-04	8.30	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	15-Oct-02	<b>8.60</b>	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	17-Oct-02	8.30	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	21-Oct-02	7.70	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	23-Oct-02	7.40	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	12-Nov-02	7.90	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	13-Nov-02	7.80	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	15-Nov-02	7.70	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	18-Nov-02	8.20	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	9-Dec-02	8.50	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	8-Dec-03	8.00	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	9-Feb-04	7.90	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	10-Feb-04	8.00	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	12-Feb-04	8.00	MDE	Upper Potomac Field Survey
BDK0000	39 40.229	78 47.511	21410030097	29-Mar-04	8.10	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	15-Oct-02	7.10	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	17-Oct-02	7.70	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	21-Oct-02	7.50	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	23-Oct-02	6.60	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	12-Nov-02	7.50	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	13-Nov-02	7.50	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	15-Nov-02	6.90	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	18-Nov-02	8.00	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	9-Dec-02	8.50	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	8-Dec-03	7.70	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	9-Feb-04	7.50	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	10-Feb-04	7.60	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	12-Feb-04	7.50	MDE	Upper Potomac Field Survey
JEN0091	39 40.196	78 54.648	21410030099	29-Mar-04	7.90	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	15-Oct-02	8.40	MDE	Upper Potomac Field Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
JEN0035	39 42.023	78 50.540	21410030100	17-Oct-02	7.90	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	21-Oct-02	7.60	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	23-Oct-02	7.10	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	12-Nov-02	7.70	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	13-Nov-02	7.70	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	15-Nov-02	6.70	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	18-Nov-02	8.10	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	9-Dec-02	8.40	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	8-Dec-03	7.70	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	9-Feb-04	7.50	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	10-Feb-04	7.50	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	12-Feb-04	7.40	MDE	Upper Potomac Field Survey
JEN0035	39 42.023	78 50.540	21410030100	29-Mar-04	7.80	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	15-Oct-02	<b>8.60</b>	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	17-Oct-02	8.20	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	21-Oct-02	7.60	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	23-Oct-02	7.00	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	12-Nov-02	7.60	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	13-Nov-02	7.60	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	15-Nov-02	7.30	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	18-Nov-02	8.10	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	9-Dec-02	<b>8.70</b>	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	8-Dec-03	7.60	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	9-Feb-04	7.50	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	10-Feb-04	7.50	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	12-Feb-04	7.50	MDE	Upper Potomac Field Survey
JEN0000	39 41.622	78 46.833	21410030101	29-Mar-04	7.70	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	15-Oct-02	<b>8.90</b>	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	17-Oct-02	8.10	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	21-Oct-02	7.80	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	23-Oct-02	7.50	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	12-Nov-02	7.70	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	13-Nov-02	7.60	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	15-Nov-02	7.50	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	18-Nov-02	8.10	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	9-Dec-02	<b>8.60</b>	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	8-Dec-03	7.70	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	9-Feb-04	7.60	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	10-Feb-04	7.60	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	12-Feb-04	7.50	MDE	Upper Potomac Field Survey
WIL0000	39 38.904	78 45.877	21410030101	29-Mar-04	8.00	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	15-Oct-02	<b>8.60</b>	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	17-Oct-02	8.10	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	21-Oct-02	7.70	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	23-Oct-02	7.70	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	12-Nov-02	7.60	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	13-Nov-02	7.60	MDE	Upper Potomac Field Survey

Station Name	Lat	Long	12-digit basin	Date	pH	Organization	Data Source
WIL0013	39 40.195	78 47.355	21410030101	15-Nov-02	7.30	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	18-Nov-02	8.00	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	9-Dec-02	<b>8.60</b>	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	8-Dec-03	7.60	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	9-Feb-04	7.40	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	10-Feb-04	7.40	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	12-Feb-04	7.40	MDE	Upper Potomac Field Survey
WIL0013	39 40.195	78 47.355	21410030101	29-Mar-04	7.90	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	15-Oct-02	8.40	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	17-Oct-02	8.00	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	21-Oct-02	7.90	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	23-Oct-02	7.20	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	12-Nov-02	7.50	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	13-Nov-02	7.50	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	15-Nov-02	7.20	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	18-Nov-02	7.80	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	8-Dec-03	7.60	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	9-Feb-04	7.30	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	10-Feb-04	7.10	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	12-Feb-04	7.30	MDE	Upper Potomac Field Survey
WIL0036	39 41.089	78 46.833	21410030101	29-Mar-04	7.70	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	15-Oct-02	8.40	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	17-Oct-02	7.80	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	21-Oct-02	7.60	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	23-Oct-02	7.10	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	12-Nov-02	7.70	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	13-Nov-02	7.60	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	15-Nov-02	7.00	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	18-Nov-02	8.10	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	9-Dec-02	<b>8.60</b>	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	8-Dec-03	7.70	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	9-Feb-04	7.50	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	10-Feb-04	7.50	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	12-Feb-04	7.50	MDE	Upper Potomac Field Survey
NJE0019	39 43.474	78 50.852	21410030102	29-Mar-04	7.80	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	15-Oct-02	8.40	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	17-Oct-02	7.90	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	21-Oct-02	7.20	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	23-Oct-02	7.70	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	12-Nov-02	7.40	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	13-Nov-02	7.30	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	15-Nov-02	7.00	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	18-Nov-02	7.60	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	9-Dec-02	<b>8.70</b>	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	8-Dec-03	7.40	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	9-Feb-04	7.50	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	10-Feb-04	7.30	MDE	Upper Potomac Field Survey

FINAL

<b>Station Name</b>	<b>Lat</b>	<b>Long</b>	<b>12-digit basin</b>	<b>Date</b>	<b>pH</b>	<b>Organization</b>	<b>Data Source</b>
WIL0067	39 43.102	78 46.273	21410030103	12-Feb-04	7.20	MDE	Upper Potomac Field Survey
WIL0067	39 43.102	78 46.273	21410030103	29-Mar-04	7.60	MDE	Upper Potomac Field Survey