

Sites Information Table

IDEM Site Number	Latitude (Decimal Degree)	Longitude (Decimal Degree)	Short Description	Project Site Number	Waterbody
WEL-07-0019	39.107955	-86.313718	Crooked Creek Rd	Stream1	Crooked Creek
WEL-06-0008	39.173369	-86.319094	Yellowwood Rd	Stream2	North Fork Salt Creek
WEL-05-0001	39.089564	-86.220924	Kirks Ford Rd	Stream3	Middle Fork Salt Creek
WEL-04-0004	39.021974	-86.260526	1190 W, 1000 N	Stream4	South Fork Salt Creek
WEL-08-0036	39.004734	-86.508396	E Monroe Dam Ct Park Rds	Stream5	Monroe Lake Outlet
WEL-07-0018	39.072457	-86.40544	North Causeway	Lake1	Monroe Lake Upper
WEL-07-0020	39.030813	-86.472697	Center	Lake2	Monroe Lake Center
WEL-07-0021	39.00885	-86.516267	Dam	Lake3	Monroe Lake Lower

Data Qualifiers and Flags are applied to Environmental Results that do not meet the Required QC limits.

Data Qualifier Definitions for Environmental Results for NPS Funded Projects

(Sometimes Qualifiers will also be used with a Flag in the DQI Sheet as an Explanation for applying the Qualifier.)

- U** The parameter result was not detected above the method detection limit. This Qualifier is typically used in analytical laboratories that provide data packages. NPS Projects may use this qualifier for a result that is below the reporting limit.
- J** The result is an estimated quantity and the numerical value is the approximate concentration of the parameter in the sample.
- J+** The result is an estimated quantity and may be biased high. Used for NPS projects to identify a contaminant found in a field blank collected during a sampling event.
- R** The data are unusable due to serious deficiencies in meeting quality control criteria.

Table 2: Flags and their Application for Environmental Results for NPS Projects

Q	<p>Quality Control Checks, (Accuracy DQI) one or more QC checks or criteria were “Out of Control.”</p> <ol style="list-style-type: none"> 1. For data sets, when at least two QC checks or criteria was “Out of Control” a QJ flag should be added to results in data set. If only one parameter is involved then only that specific parameter should be flagged. The QJ flag & qualifier identifies the result as being an estimated value due to “Out of Control” QC checks. 2. For data sets that have many QC checks or criteria “Out of Control”, professional judgment should be applied and if determined necessary then a QR flag should be applied. The QR flag and qualifier identified the result as rejected due to the multiple “Out of Control” QC Checks.
H	<p>Holding Time flag is applied with the Qualifiers “J” or “R” when the holding time was not met.</p> <ol style="list-style-type: none"> 1. The analysis exceeded the holding time by 1.5 times or less. The Result will be estimated (HJ) 2. The analysis exceeded holding time by greater than 1.5 times. The Result will be Rejected (HR).
D (SS)	<p>If Laboratory Splits sample for a duplicate analysis, then a control limit set by the analytical laboratory will be used for an acceptance criteria. The D flags for the SS or Laboratory Split samples are typically used for DQAL3 results.</p>
DJ (SS)	<p>For Laboratory Split sample, if RPD is between established control limits and two times the established control limits, then the sample will be estimated. Assign as needed.</p>
DR (SS)	<p>For Laboratory Split sample, if RPD is > twice the established control limits, then the sample will be rejected (DR). Assign as needed.</p>
B	<p>Blank (Accuracy/Bias, DQI) For external projects, this usually refers to contamination found in field blank samples collected at a rate of one sample per sampling event or 5% rate, whichever is greatest. Analytical laboratories are also expected to report their method blank contaminates by using flags or identifiers. The flags will only be applied to the specific parameter in that sampling event. NPS projects will use the following rules for identifying contaminants in a data set. These are the rules:</p> <ol style="list-style-type: none"> 1. If the Blank Contaminant is > Reporting Limit (RL) and Sample results are < 10 times RL, assign J+ to specific sample result. 2. If Blank Contaminant is < RL, then NO Flag is assigned. 3. If Results are > 10 times Blank Contaminant, then NO Flag is assigned. 4. If Results are > 10 times RL, > 5 times Blank contaminant, and < 10 times Blank, assign BJ flag and qualifier to specific result or results. 5. If you need assistance in deciding on B flag applications, please contact the NPS QA Officer.

Overview of Laboratory Results from Monthly Sampling of Lake Monroe and Its Tributaries

Table 3: Flags and their Application for Biological Results (Fish, Macroinvertebrate, Habitat)

ALT	Alternate Method
CON	Value Confirmed
EFAI	Equipment Failure
FEQ	Field Equipment Questionable
FQC	Quality Control, failed
HIB	Likely Biased High
ISP	Improper Sample Preservation
JCW	Sample Container Damaged, Sample Lost
LAC	No Result Reported, Lab Accident
OTHER	Other, explain in Comments
R	Rejected
RPO	%RPD outside of acceptable limits
SCF	Suspected contamination, field
SCP	Suspected contamination, lab preparation
SCX	Suspected contamination, unknown
SUS	Result value is defined as suspect by data owner.
UNC	Value Not Confirmed
<i>Fn</i>	

Micellaneous flags (n=1,2,etc.) assigned by a field crew during a particular sampling visit (also used for qualifying samples). Explain reason for using each flag in Comments. For example, F1=seconds fished high for stream reach sampled; F2=net mesh larger than SOP.

E. coli Data Lake Monroe and its Tributaries

Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-04-0004	4/22/2020	0914	09144008	South Fork Salt Creek	Normal	70.3	CFU/100ml
WEL-04-0004	5/27/2020	0914	09144008	South Fork Salt Creek	Normal	365.4	CFU/100ml
WEL-04-0004	6/24/2020	0914	09144008	South Fork Salt Creek	Normal	1413.6	CFU/100ml
WEL-04-0004	7/21/2020	0914	09144008	South Fork Salt Creek	Normal	261.3	CFU/100ml
WEL-04-0004	8/27/2020	0914	09144008	South Fork Salt Creek	Normal	40.8	CFU/100ml
WEL-04-0004	9/24/2020	0914	09144008	South Fork Salt Creek	Normal	13.45	CFU/100ml
WEL-04-0004	10/22/2020	0914	09144008	South Fork Salt Creek	Normal	25.9	CFU/100ml
WEL-04-0004	11/19/2020	0914	09144008	South Fork Salt Creek	Normal	48	CFU/100ml
WEL-04-0004	12/16/2020	0914	09144008	South Fork Salt Creek	Normal	25.9	CFU/100ml
WEL-04-0004	1/25/2021	0914	09144008	South Fork Salt Creek	Normal	31.8	CFU/100ml
WEL-04-0004	2/25/2021	0914	09144008	South Fork Salt Creek	Normal	141.4	CFU/100ml
WEL-04-0004	3/18/2021	0914	09144008	South Fork Salt Creek	Normal	325.5	CFU/100ml
WEL-05-0001	4/22/2020	0668	06684008	Middle Fork Salt Creek	Normal	49.6	CFU/100ml
WEL-05-0001	4/22/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	49.6	CFU/100ml
WEL-05-0001	5/27/2020	0668	06684008	Middle Fork Salt Creek	Normal	261.3	CFU/100ml
WEL-05-0001	5/27/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	228.2	CFU/100ml
WEL-05-0001	6/24/2020	0668	06684008	Middle Fork Salt Creek	Normal	150	CFU/100ml
WEL-05-0001	6/24/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	166.4	CFU/100ml
WEL-05-0001	7/21/2020	0668	06684008	Middle Fork Salt Creek	Normal	167	CFU/100ml
WEL-05-0001	7/21/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	139.6	CFU/100ml
WEL-05-0001	8/27/2020	0668	06684008	Middle Fork Salt Creek	Normal	90.9	CFU/100ml
WEL-05-0001	8/27/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	71.7	CFU/100ml
WEL-05-0001	9/24/2020	0668	06684008	Middle Fork Salt Creek	Normal	5.2	CFU/100ml
WEL-05-0001	9/24/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	19.7	CFU/100ml
WEL-05-0001	10/22/2020	0668	06684008	Middle Fork Salt Creek	Normal	121	CFU/100ml
WEL-05-0001	10/22/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	139.6	CFU/100ml
WEL-05-0001	11/19/2020	0668	06684008	Middle Fork Salt Creek	Normal	579.4	CFU/100ml
WEL-05-0001	11/19/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	325.5	CFU/100ml
WEL-05-0001	12/16/2020	0668	06684008	Middle Fork Salt Creek	Normal	25.6	CFU/100ml
WEL-05-0001	12/16/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	37.3	CFU/100ml
WEL-05-0001	1/25/2021	0668	06684008	Middle Fork Salt Creek	Normal	12.2	CFU/100ml
WEL-05-0001	1/25/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	19.9	CFU/100ml
WEL-05-0001	2/25/2021	0668	06684008	Middle Fork Salt Creek	Normal	63.1	CFU/100ml
WEL-05-0001	2/25/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	47.9	CFU/100ml
WEL-05-0001	3/18/2021	0668	06684008	Middle Fork Salt Creek	Normal	290.9	CFU/100ml
WEL-05-0001	3/18/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	228.2	CFU/100ml
WEL-06-0008	4/22/2020	0256	02564008	North Fork Salt Creek	Normal	65.7	CFU/100ml
WEL-06-0008	5/27/2020	0256	02564008	North Fork Salt Creek	Normal	209.8	CFU/100ml
WEL-06-0008	6/24/2020	0256	02564008	North Fork Salt Creek	Normal	69.7	CFU/100ml
WEL-06-0008	7/21/2020	0256	02564008	North Fork Salt Creek	Normal	184.2	CFU/100ml
WEL-06-0008	8/27/2020	0256	02564008	North Fork Salt Creek	Normal	57.6	CFU/100ml
WEL-06-0008	9/24/2020	0256	02564008	North Fork Salt Creek	Normal	14.8	CFU/100ml
WEL-06-0008	10/22/2020	0256	02564008	North Fork Salt Creek	Normal	58.1	CFU/100ml
WEL-06-0008	11/19/2020	0256	02564008	North Fork Salt Creek	Normal	23.3	CFU/100ml
WEL-06-0008	12/16/2020	0256	02564008	North Fork Salt Creek	Normal	40.8	CFU/100ml
WEL-06-0008	1/25/2021	0256	02564008	North Fork Salt Creek	Normal	14.8	CFU/100ml
WEL-06-0008	2/25/2021	0256	02564008	North Fork Salt Creek	Normal	104.6	CFU/100ml
WEL-06-0008	3/18/2021	0256	02564008	North Fork Salt Creek	Normal	185	CFU/100ml
WEL-07-0018	5/26/2020	2830	28301008	Monroe Upper Epi	Normal	1	CFU/100ml
WEL-07-0018	5/26/2020	2830	28302008	Monroe Upper Hypo	Normal		CFU/100ml
WEL-07-0018	6/25/2020	2855	28551008	Monroe Upper Epi	Normal	1	CFU/100ml
WEL-07-0018	6/25/2020	2855	28552008	Monroe Upper Hypo	Normal		CFU/100ml
WEL-07-0018	7/27/2020	2917	29171008	Monroe Upper Epi	Normal	1	CFU/100ml
WEL-07-0018	7/27/2020	2917	29172008	Monroe Upper Hypo	Normal		CFU/100ml

E. coli Data Lake Monroe and its Tributaries

Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-07-0018	8/28/2020	2939	29391008	Monroe Upper Epi	Normal	1	CFU/100ml
WEL-07-0018	8/28/2020	2939	29392008	Monroe Upper Hypo	Normal		CFU/100ml
WEL-07-0018	9/23/2020	2942	29421008	Monroe Upper Epi	Normal	<1	CFU/100ml
WEL-07-0018	9/23/2020	2942	29422008	Monroe Upper Hypo	Normal		CFU/100ml
WEL-07-0018	10/26/2020	2947	29471008	Monroe Upper Epi	Normal	<1	CFU/100ml
WEL-07-0018	10/26/2020	2947	29472008	Monroe Upper Hypo	Normal		CFU/100ml
WEL-07-0019	4/22/2020	0123	01234008	Crooked Creek	Normal	6.3	CFU/100ml
WEL-07-0019	5/27/2020	0123	01234008	Crooked Creek	Normal	13.2	CFU/100ml
WEL-07-0019	6/24/2020	0123	01234008	Crooked Creek	Normal	60.2	CFU/100ml
WEL-07-0019	7/21/2020	0123	01234008	Crooked Creek	Normal	65	CFU/100ml
WEL-07-0019	8/27/2020	0123	01234008	Crooked Creek	Normal	156.5	CFU/100ml
WEL-07-0019	9/24/2020	0123	01234008	Crooked Creek	Normal		CFU/100ml
WEL-07-0019	10/22/2020	0123	01234008	Crooked Creek	Normal		CFU/100ml
WEL-07-0019	11/19/2020	0123	01234008	Crooked Creek	Normal	2	CFU/100ml
WEL-07-0019	12/16/2020	0123	01234008	Crooked Creek	Normal	1	CFU/100ml
WEL-07-0019	1/25/2021	0123	01234008	Crooked Creek	Normal	4.1	CFU/100ml
WEL-07-0019	2/25/2021	0123	01234008	Crooked Creek	Normal	7.4	CFU/100ml
WEL-07-0019	3/18/2021	0123	01234008	Crooked Creek	Normal	16	CFU/100ml
WEL-07-0020	5/26/2020	2831	28311008	Monroe Center Epi	Normal	1	CFU/100ml
WEL-07-0020	5/26/2020	2831	28311108	Monroe Center Epi (Duplicate)	Duplicate	< 1.0	CFU/100ml
WEL-07-0020	5/26/2020	2831	28312008	Monroe Center Hypo	Normal		CFU/100ml
WEL-07-0020	5/26/2020	2831	28312108	Monroe Center Hypo (Duplicate)	Duplicate		CFU/100ml
WEL-07-0020	6/25/2020	2856	28561008	Monroe Center Epi	Normal	< 1.0	CFU/100ml
WEL-07-0020	6/25/2020	2856	28561108	Monroe Center Epi (Duplicate)	Duplicate	< 1.0	CFU/100ml
WEL-07-0020	6/25/2020	2856	28562008	Monroe Center Hypo	Normal		CFU/100ml
WEL-07-0020	6/25/2020	2856	28562108	Monroe Center Hypo (Duplicate)	Duplicate		CFU/100ml
WEL-07-0020	7/27/2020	2918	29181008	Monroe Center Epi	Normal	<1	CFU/100ml
WEL-07-0020	7/27/2020	2918	29181108	Monroe Center Epi (Duplicate)	Duplicate	<1	CFU/100ml
WEL-07-0020	7/27/2020	2918	29182008	Monroe Center Hypo	Normal		CFU/100ml
WEL-07-0020	7/27/2020	2918	29182108	Monroe Center Hypo (Duplicate)	Duplicate		CFU/100ml
WEL-07-0020	8/28/2020	2940	29401008	Monroe Center Epi	Normal	<1	CFU/100ml
WEL-07-0020	8/28/2020	2940	29401108	Monroe Center Epi (Duplicate)	Duplicate	<1	CFU/100ml
WEL-07-0020	8/28/2020	2940	29402008	Monroe Center Hypo	Normal		CFU/100ml
WEL-07-0020	8/28/2020	2940	29402108	Monroe Center Hypo (Duplicate)	Duplicate		CFU/100ml
WEL-07-0020	9/23/2020	2943	29431008	Monroe Center Epi	Normal	<1	CFU/100ml
WEL-07-0020	9/23/2020	2943	29431108	Monroe Center Epi (Duplicate)	Duplicate	<1	CFU/100ml
WEL-07-0020	9/23/2020	2943	29432008	Monroe Center Hypo	Normal		CFU/100ml
WEL-07-0020	9/23/2020	2943	29432108	Monroe Center Hypo (Duplicate)	Duplicate		CFU/100ml
WEL-07-0020	10/26/2020	2945	29451008	Monroe Center Epi	Normal	2	CFU/100ml
WEL-07-0020	10/26/2020	2945	29451108	Monroe Center Epi (Duplicate)	Duplicate	<1	CFU/100ml
WEL-07-0020	10/26/2020	2945	29452008	Monroe Center Hypo	Normal		CFU/100ml
WEL-07-0020	10/26/2020	2945	29452108	Monroe Center Hypo (Duplicate)	Duplicate		CFU/100ml
WEL-07-0021	5/26/2020	2832	28321008	Monroe Lower Epi	Normal	10.9	CFU/100ml
WEL-07-0021	5/26/2020	2832	28322008	Monroe Lower Hypo	Normal		CFU/100ml
WEL-07-0021	5/26/2020	2832	28320008	Monroe Lower Blank	Field Blank		CFU/100ml
WEL-07-0021	6/25/2020	2857	28571008	Monroe Lower Epi	Normal	< 1.0	CFU/100ml
WEL-07-0021	6/25/2020	2857	28572008	Monroe Lower Hypo	Normal		CFU/100ml
WEL-07-0021	6/25/2020	2857	28570008	Monroe Lower Blank	Field Blank		CFU/100ml
WEL-07-0021	7/27/2020	2919	29191008	Monroe Lower Epi	Normal	<1	CFU/100ml
WEL-07-0021	7/27/2020	2919	29192008	Monroe Lower Hypo	Normal		CFU/100ml
WEL-07-0021	8/28/2020	2941	29411008	Monroe Lower Epi	Normal	1	CFU/100ml
WEL-07-0021	8/28/2020	2941	29412008	Monroe Lower Hypo	Normal		CFU/100ml
WEL-07-0021	8/28/2020	2941	29410008	Monroe Lower Blank	Field Blank		CFU/100ml
WEL-07-0021	9/23/2020	2944	29441008	Monroe Lower Epi	Normal	<1	CFU/100ml

E. coli Data Lake Monroe and its Tributaries

Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-07-0021	9/23/2020	2944	29442008	Monroe Lower Hypo	Normal		CFU/100ml
WEL-07-0021	9/23/2020	2944	29440008	Monroe Lower Blank	Field Blank		CFU/100ml
WEL-07-0021	10/26/2020	2946	29461008	Monroe Lower Epi	Normal	2	CFU/100ml
WEL-07-0021	10/26/2020	2946	29462008	Monroe Lower Hypo	Normal		CFU/100ml
WEL-07-0021	10/26/2020	2946	29460008	Monroe Lower Blank	Field Blank		CFU/100ml
WEL-08-0036	4/22/2020	0111	01114008	Lake Monroe Outlet	Normal	<1	CFU/100ml
WEL-08-0036	4/22/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	5/27/2020	0111	01114008	Lake Monroe Outlet	Normal	6.3	CFU/100ml
WEL-08-0036	5/27/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	6/24/2020	0111	01114008	Lake Monroe Outlet	Normal	5.2	CFU/100ml
WEL-08-0036	6/24/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	7/21/2020	0111	01114008	Lake Monroe Outlet	Normal	5.1	CFU/100ml
WEL-08-0036	7/21/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	8/27/2020	0111	01114008	Lake Monroe Outlet	Normal	4.1	CFU/100ml
WEL-08-0036	8/27/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	9/24/2020	0111	01114008	Lake Monroe Outlet	Normal	4.1	CFU/100ml
WEL-08-0036	9/24/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	10/22/2020	0111	01114008	Lake Monroe Outlet	Normal	5.2	CFU/100ml
WEL-08-0036	10/22/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	11/19/2020	0111	01114008	Lake Monroe Outlet	Normal	2	CFU/100ml
WEL-08-0036	11/19/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	12/16/2020	0111	01114008	Lake Monroe Outlet	Normal	<1	CFU/100ml
WEL-08-0036	12/16/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	1/25/2021	0111	01114008	Lake Monroe Outlet	Normal	4.1	CFU/100ml
WEL-08-0036	1/25/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	2/25/2021	0111	01114008	Lake Monroe Outlet	Normal	>1	CFU/100ml
WEL-08-0036	2/25/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml
WEL-08-0036	3/18/2021	0111	01114008	Lake Monroe Outlet	Normal	54.8	CFU/100ml
WEL-08-0036	3/18/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank		CFU/100ml

Total Organic Carbon Data Lake Monroe and Tributaries

Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-04-0004	4/22/2020	0914	09144008	South Fork Salt Creek	Normal	2.77	mg/L
WEL-04-0004	5/27/2020	0914	09144008	South Fork Salt Creek	Normal	4.03	mg/L
WEL-04-0004	6/24/2020	0914	09144008	South Fork Salt Creek	Normal	8.2	mg/L
WEL-04-0004	7/21/2020	0914	09144008	South Fork Salt Creek	Normal	4.65	mg/L
WEL-04-0004	8/27/2020	0914	09144008	South Fork Salt Creek	Normal	3.79	mg/L
WEL-04-0004	9/24/2020	0914	09144008	South Fork Salt Creek	Normal	4.29	mg/L
WEL-04-0004	10/22/2020	0914	09144008	South Fork Salt Creek	Normal	6.84	mg/L
WEL-04-0004	11/19/2020	0914	09144008	South Fork Salt Creek	Normal	3.8	mg/L
WEL-04-0004	12/16/2020	0914	09144008	South Fork Salt Creek	Normal	2.78	mg/L
WEL-04-0004	1/25/2021	0914	09144008	South Fork Salt Creek	Normal	2.08	mg/L
WEL-04-0004	2/25/2021	0914	09144008	South Fork Salt Creek	Normal	5.1	mg/L
WEL-04-0004	3/18/2021	0914	09144008	South Fork Salt Creek	Normal	3.74	mg/L
WEL-05-0001	4/22/2020	0668	06684008	Middle Fork Salt Creek	Normal	2.36	mg/L
WEL-05-0001	4/22/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	2.89	mg/L
WEL-05-0001	5/27/2020	0668	06684008	Middle Fork Salt Creek	Normal	2.78	mg/L
WEL-05-0001	5/27/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	2.78	mg/L
WEL-05-0001	6/24/2020	0668	06684008	Middle Fork Salt Creek	Normal	2.96	mg/L
WEL-05-0001	6/24/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	2.91	mg/L
WEL-05-0001	7/21/2020	0668	06684008	Middle Fork Salt Creek	Normal	3.73	mg/L
WEL-05-0001	7/21/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	4.3	mg/L
WEL-05-0001	8/27/2020	0668	06684008	Middle Fork Salt Creek	Normal	2.67	mg/L
WEL-05-0001	8/27/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	2.79	mg/L
WEL-05-0001	9/24/2020	0668	06684008	Middle Fork Salt Creek	Normal	3.39	mg/L
WEL-05-0001	9/24/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	3.33	mg/L
WEL-05-0001	10/22/2020	0668	06684008	Middle Fork Salt Creek	Normal	7.38	mg/L
WEL-05-0001	10/22/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	7.92	mg/L
WEL-05-0001	11/19/2020	0668	06684008	Middle Fork Salt Creek	Normal	2.47	mg/L
WEL-05-0001	11/19/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	3.12	mg/L
WEL-05-0001	12/16/2020	0668	06684008	Middle Fork Salt Creek	Normal	1.85	mg/L
WEL-05-0001	12/16/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	1.66	mg/L
WEL-05-0001	1/25/2021	0668	06684008	Middle Fork Salt Creek	Normal	1.56	mg/L
WEL-05-0001	1/25/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	11.7	mg/L
WEL-05-0001	2/25/2021	0668	06684008	Middle Fork Salt Creek	Normal	4.68	mg/L
WEL-05-0001	2/25/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	5.44	mg/L
WEL-05-0001	3/18/2021	0668	06684008	Middle Fork Salt Creek	Normal	4.07	mg/L
WEL-05-0001	3/18/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate		mg/L
WEL-06-0008	4/22/2020	0256	02564008	North Fork Salt Creek	Normal	2.31	mg/L
WEL-06-0008	5/27/2020	0256	02564008	North Fork Salt Creek	Normal	2.81	mg/L
WEL-06-0008	6/24/2020	0256	02564008	North Fork Salt Creek	Normal	3.7	mg/L
WEL-06-0008	7/21/2020	0256	02564008	North Fork Salt Creek	Normal	4.47	mg/L
WEL-06-0008	8/27/2020	0256	02564008	North Fork Salt Creek	Normal	3.3	mg/L
WEL-06-0008	9/24/2020	0256	02564008	North Fork Salt Creek	Normal	3.7	mg/L
WEL-06-0008	10/22/2020	0256	02564008	North Fork Salt Creek	Normal	4.53	mg/L
WEL-06-0008	11/19/2020	0256	02564008	North Fork Salt Creek	Normal	4.03	mg/L
WEL-06-0008	12/16/2020	0256	02564008	North Fork Salt Creek	Normal	2.13	mg/L
WEL-06-0008	1/25/2021	0256	02564008	North Fork Salt Creek	Normal	2.05	mg/L
WEL-06-0008	2/25/2021	0256	02564008	North Fork Salt Creek	Normal	5.3	mg/L
WEL-06-0008	3/18/2021	0256	02564008	North Fork Salt Creek	Normal	5.72	mg/L
WEL-07-0018	5/26/2020	2830	28301015	Monroe Upper Epi	Normal	3.95	mg/L
WEL-07-0018	5/26/2020	2830	28302015	Monroe Upper Hypo	Normal		mg/L
WEL-07-0018	6/25/2020	2855	28551015	Monroe Upper Epi	Normal	4.87	mg/L

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Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-07-0018	6/25/2020	2855	28552015	Monroe Upper Hypo	Normal	4.3	mg/L
WEL-07-0018	7/27/2020	2917	29171015	Monroe Upper Epi	Normal	4.03	mg/L
WEL-07-0018	7/27/2020	2917	29172015	Monroe Upper Hypo	Normal	6.26	mg/L
WEL-07-0018	8/28/2020	2939	29391015	Monroe Upper Epi	Normal	4.39	mg/L
WEL-07-0018	8/28/2020	2939	29392015	Monroe Upper Hypo	Normal	5.71	mg/L
WEL-07-0018	9/23/2020	2942	29421015	Monroe Upper Epi	Normal	4.87	mg/L
WEL-07-0018	9/23/2020	2942	29422015	Monroe Upper Hypo	Normal		mg/L
WEL-07-0018	10/26/2020	2947	29471015	Monroe Upper Epi	Normal	4.22	mg/L
WEL-07-0018	10/26/2020	2947	29472015	Monroe Upper Hypo	Normal		mg/L
WEL-07-0019	4/22/2020	0123	01234008	Crooked Creek	Normal	2.92	mg/L
WEL-07-0019	5/27/2020	0123	01234008	Crooked Creek	Normal	4.23	mg/L
WEL-07-0019	6/24/2020	0123	01234008	Crooked Creek	Normal	2.33	mg/L
WEL-07-0019	7/21/2020	0123	01234008	Crooked Creek	Normal	2.12	mg/L
WEL-07-0019	8/27/2020	0123	01234008	Crooked Creek	Normal	1.82	mg/L
WEL-07-0019	9/24/2020	0123	01234008	Crooked Creek	Normal		mg/L
WEL-07-0019	10/22/2020	0123	01234008	Crooked Creek	Normal		mg/L
WEL-07-0019	11/19/2020	0123	01234008	Crooked Creek	Normal	1.57	mg/L
WEL-07-0019	12/16/2020	0123	01234008	Crooked Creek	Normal	1.89	mg/L
WEL-07-0019	1/25/2021	0123	01234008	Crooked Creek	Normal	2.01	mg/L
WEL-07-0019	2/25/2021	0123	01234008	Crooked Creek	Normal	3.65	mg/L
WEL-07-0019	3/18/2021	0123	01234008	Crooked Creek	Normal	3.99	mg/L
WEL-07-0020	5/26/2020	2831	28311015	Monroe Center Epi	Normal	12.1	mg/L
WEL-07-0020	5/26/2020	2831	28311115	Monroe Center Epi (Duplicate)	Duplicate		mg/L
WEL-07-0020	5/26/2020	2831	28312015	Monroe Center Hypo	Normal	9.9	mg/L
WEL-07-0020	5/26/2020	2831	28312115	Monroe Center Hypo (Duplicate)	Duplicate	3.15	mg/L
WEL-07-0020	6/25/2020	2856	28561015	Monroe Center Epi	Normal	3.85	mg/L
WEL-07-0020	6/25/2020	2856	28561115	Monroe Center Epi (Duplicate)	Duplicate		mg/L
WEL-07-0020	6/25/2020	2856	28562015	Monroe Center Hypo	Normal	*	mg/L
WEL-07-0020	6/25/2020	2856	28562115	Monroe Center Hypo (Duplicate)	Duplicate	3.54	mg/L
WEL-07-0020	7/27/2020	2918	29181015	Monroe Center Epi	Normal	3.37	mg/L
WEL-07-0020	7/27/2020	2918	29181115	Monroe Center Epi (Duplicate)	Duplicate		mg/L
WEL-07-0020	7/27/2020	2918	29182015	Monroe Center Hypo	Normal	3.54	mg/L
WEL-07-0020	7/27/2020	2918	29182115	Monroe Center Hypo (Duplicate)	Duplicate		mg/L
WEL-07-0020	8/28/2020	2940	29401015	Monroe Center Epi	Normal	3.54	mg/L
WEL-07-0020	8/28/2020	2940	29401115	Monroe Center Epi (Duplicate)	Duplicate		mg/L
WEL-07-0020	8/28/2020	2940	29402015	Monroe Center Hypo	Normal	3.86	mg/L
WEL-07-0020	8/28/2020	2940	29402115	Monroe Center Hypo (Duplicate)	Duplicate	4.28	mg/L
WEL-07-0020	9/23/2020	2943	29431015	Monroe Center Epi	Normal	4	mg/L
WEL-07-0020	9/23/2020	2943	29431115	Monroe Center Epi (Duplicate)	Duplicate		mg/L
WEL-07-0020	9/23/2020	2943	29432015	Monroe Center Hypo	Normal		mg/L
WEL-07-0020	9/23/2020	2943	29432115	Monroe Center Hypo (Duplicate)	Duplicate		mg/L
WEL-07-0020	10/26/2020	2945	29451015	Monroe Center Epi	Normal	3.83	mg/L
WEL-07-0020	10/26/2020	2945	29451115	Monroe Center Epi (Duplicate)	Duplicate		mg/L
WEL-07-0020	10/26/2020	2945	29452015	Monroe Center Hypo	Normal		mg/L
WEL-07-0020	10/26/2020	2945	29452115	Monroe Center Hypo (Duplicate)	Duplicate		mg/L
WEL-07-0021	5/26/2020	2832	28321015	Monroe Lower Epi	Normal	3.3	mg/L
WEL-07-0021	5/26/2020	2832	28322015	Monroe Lower Hypo	Normal	3.86	mg/L
WEL-07-0021	5/26/2020	2832	28320015	Monroe Lower Blank	Field Blank	2.07	mg/L
WEL-07-0021	6/25/2020	2857	28571015	Monroe Lower Epi	Normal	3.73	mg/L
WEL-07-0021	6/25/2020	2857	28572015	Monroe Lower Hypo	Normal	3.32	mg/L
WEL-07-0021	6/25/2020	2857	28570015	Monroe Lower Blank	Field Blank	0.524	mg/L

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Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-07-0021	7/27/2020	2919	29191015	Monroe Lower Epi	Normal	3.77	mg/L
WEL-07-0021	7/27/2020	2919	29192015	Monroe Lower Hypo	Normal	5.07	mg/L
WEL-07-0021	8/28/2020	2941	29411015	Monroe Lower Epi	Normal	3.66	mg/L
WEL-07-0021	8/28/2020	2941	29412015	Monroe Lower Hypo	Normal	5.02	mg/L
WEL-07-0021	8/28/2020	2941	29410015	Monroe Lower Blank	Field Blank	0.006	mg/L
WEL-07-0021	9/23/2020	2944	29441015	Monroe Lower Epi	Normal	3.67	mg/L
WEL-07-0021	9/23/2020	2944	29442015	Monroe Lower Hypo	Normal	5.22	mg/L
WEL-07-0021	9/23/2020	2944	29440015	Monroe Lower Blank	Field Blank	0.007	mg/L
WEL-07-0021	10/26/2020	2946	29461015	Monroe Lower Epi	Normal	3.48	mg/L
WEL-07-0021	10/26/2020	2946	29462015	Monroe Lower Hypo	Normal		mg/L
WEL-07-0021	10/26/2020	2946	29460015	Monroe Lower Blank	Field Blank	1.05	mg/L
WEL-08-0036	4/22/2020	0111	01114008	Lake Monroe Outlet	Normal	3.4	mg/L
WEL-08-0036	4/22/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	2.03	mg/L
WEL-08-0036	5/27/2020	0111	01114008	Lake Monroe Outlet	Normal	3.45	mg/L
WEL-08-0036	5/27/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	1.02	mg/L
WEL-08-0036	6/24/2020	0111	01114008	Lake Monroe Outlet	Normal	4.75	mg/L
WEL-08-0036	6/24/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank		mg/L
WEL-08-0036	7/21/2020	0111	01114008	Lake Monroe Outlet	Normal	4.42	mg/L
WEL-08-0036	7/21/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.861	mg/L
WEL-08-0036	8/27/2020	0111	01114008	Lake Monroe Outlet	Normal	3.79	mg/L
WEL-08-0036	8/27/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	1.4	mg/L
WEL-08-0036	9/24/2020	0111	01114008	Lake Monroe Outlet	Normal	3.83	mg/L
WEL-08-0036	9/24/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	1.32	mg/L
WEL-08-0036	10/22/2020	0111	01114008	Lake Monroe Outlet	Normal	3.88	mg/L
WEL-08-0036	10/22/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.406	mg/L
WEL-08-0036	11/19/2020	0111	01114008	Lake Monroe Outlet	Normal	3.86	mg/L
WEL-08-0036	11/19/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.646	mg/L
WEL-08-0036	12/16/2020	0111	01114008	Lake Monroe Outlet	Normal	4.45	mg/L
WEL-08-0036	12/16/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.558	mg/L
WEL-08-0036	1/25/2021	0111	01114008	Lake Monroe Outlet	Normal	3.17	mg/L
WEL-08-0036	1/25/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank	1.28	mg/L
WEL-08-0036	2/25/2021	0111	01114008	Lake Monroe Outlet	Normal	4.51	mg/L
WEL-08-0036	2/25/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank	1.71	mg/L
WEL-08-0036	3/18/2021	0111	01114008	Lake Monroe Outlet	Normal	5.05	mg/L
WEL-08-0036	3/18/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank		mg/L

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Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-04-0004	4/22/2020	0914	09144008	South Fork Salt Creek	Normal	0.107	UVA at cm ⁻¹
WEL-04-0004	5/27/2020	0914	09144008	South Fork Salt Creek	Normal	0.18	UVA at cm ⁻¹
WEL-04-0004	6/24/2020	0914	09144008	South Fork Salt Creek	Normal	0.411	UVA at cm ⁻¹
WEL-04-0004	7/21/2020	0914	09144008	South Fork Salt Creek	Normal	0.265	UVA at cm ⁻¹
WEL-04-0004	8/27/2020	0914	09144008	South Fork Salt Creek	Normal	0.183	UVA at cm ⁻¹
WEL-04-0004	9/24/2020	0914	09144008	South Fork Salt Creek	Normal	0.183	UVA at cm ⁻¹
WEL-04-0004	10/22/2020	0914	09144008	South Fork Salt Creek	Normal	0.283	UVA at cm ⁻¹
WEL-04-0004	11/19/2020	0914	09144008	South Fork Salt Creek	Normal	0.157	UVA at cm ⁻¹
WEL-04-0004	12/16/2020	0914	09144008	South Fork Salt Creek	Normal	0.109	UVA at cm ⁻¹
WEL-04-0004	1/25/2021	0914	09144008	South Fork Salt Creek	Normal	0.09	UVA at cm ⁻¹
WEL-04-0004	2/25/2021	0914	09144008	South Fork Salt Creek	Normal	0.21	UVA at cm ⁻¹
WEL-04-0004	3/18/2021	0914	09144008	South Fork Salt Creek	Normal	0.125	UVA at cm ⁻¹
WEL-05-0001	4/22/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.072	UVA at cm ⁻¹
WEL-05-0001	4/22/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.067	UVA at cm ⁻¹
WEL-05-0001	5/27/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.113	UVA at cm ⁻¹
WEL-05-0001	5/27/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.114	UVA at cm ⁻¹
WEL-05-0001	6/24/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.139	UVA at cm ⁻¹
WEL-05-0001	6/24/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.137	UVA at cm ⁻¹
WEL-05-0001	7/21/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.178	UVA at cm ⁻¹
WEL-05-0001	7/21/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.178	UVA at cm ⁻¹
WEL-05-0001	8/27/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.116	UVA at cm ⁻¹
WEL-05-0001	8/27/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.115	UVA at cm ⁻¹
WEL-05-0001	9/24/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.153	UVA at cm ⁻¹
WEL-05-0001	9/24/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.125	UVA at cm ⁻¹
WEL-05-0001	10/22/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.265	UVA at cm ⁻¹
WEL-05-0001	10/22/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.199	UVA at cm ⁻¹
WEL-05-0001	11/19/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.129	UVA at cm ⁻¹
WEL-05-0001	11/19/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.124	UVA at cm ⁻¹
WEL-05-0001	12/16/2020	0668	06684008	Middle Fork Salt Creek	Normal	0.086	UVA at cm ⁻¹
WEL-05-0001	12/16/2020	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.087	UVA at cm ⁻¹
WEL-05-0001	1/25/2021	0668	06684008	Middle Fork Salt Creek	Normal	0.062	UVA at cm ⁻¹
WEL-05-0001	1/25/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.063	UVA at cm ⁻¹
WEL-05-0001	2/25/2021	0668	06684008	Middle Fork Salt Creek	Normal	0.192	UVA at cm ⁻¹
WEL-05-0001	2/25/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.198	UVA at cm ⁻¹
WEL-05-0001	3/18/2021	0668	06684008	Middle Fork Salt Creek	Normal	0.181	UVA at cm ⁻¹
WEL-05-0001	3/18/2021	0668	06684108	Middle Fork Salt Creek (Duplicates)	Duplicate	0.206	UVA at cm ⁻¹
WEL-06-0008	4/22/2020	0256	02564008	North Fork Salt Creek	Normal	0.098	UVA at cm ⁻¹
WEL-06-0008	5/27/2020	0256	02564008	North Fork Salt Creek	Normal	0.163	UVA at cm ⁻¹
WEL-06-0008	6/24/2020	0256	02564008	North Fork Salt Creek	Normal	0.154	UVA at cm ⁻¹
WEL-06-0008	7/21/2020	0256	02564008	North Fork Salt Creek	Normal	0.203	UVA at cm ⁻¹
WEL-06-0008	8/27/2020	0256	02564008	North Fork Salt Creek	Normal	0.113	UVA at cm ⁻¹
WEL-06-0008	9/24/2020	0256	02564008	North Fork Salt Creek	Normal	0.13	UVA at cm ⁻¹
WEL-06-0008	10/22/2020	0256	02564008	North Fork Salt Creek	Normal	0.216	UVA at cm ⁻¹
WEL-06-0008	11/19/2020	0256	02564008	North Fork Salt Creek	Normal	0.162	UVA at cm ⁻¹
WEL-06-0008	12/16/2020	0256	02564008	North Fork Salt Creek	Normal	0.106	UVA at cm ⁻¹
WEL-06-0008	1/25/2021	0256	02564008	North Fork Salt Creek	Normal	0.104	UVA at cm ⁻¹
WEL-06-0008	2/25/2021	0256	02564008	North Fork Salt Creek	Normal	0.313	UVA at cm ⁻¹
WEL-06-0008	3/18/2021	0256	02564008	North Fork Salt Creek	Normal	0.235	UVA at cm ⁻¹
WEL-07-0018	5/26/2020	2830	28301016	Monroe Upper Epi	Normal	0.14	UVA at cm ⁻¹
WEL-07-0018	5/26/2020	2830	28302016	Monroe Upper Hypo	Normal		UVA at cm ⁻¹
WEL-07-0018	6/25/2020	2855	28551016	Monroe Upper Epi	Normal	0.11	UVA at cm ⁻¹
WEL-07-0018	6/25/2020	2855	28552016	Monroe Upper Hypo	Normal	0.214	UVA at cm ⁻¹
WEL-07-0018	7/27/2020	2917	29171016	Monroe Upper Epi	Normal	0.102	UVA at cm ⁻¹
WEL-07-0018	7/27/2020	2917	29172016	Monroe Upper Hypo	Normal	0.265	UVA at cm ⁻¹

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Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-07-0018	8/28/2020	2939	29391016	Monroe Upper Epi	Normal	0.116	UVA at cm^-1
WEL-07-0018	8/28/2020	2939	29392016	Monroe Upper Hypo	Normal	0.228	UVA at cm^-1
WEL-07-0018	9/23/2020	2942	29421016	Monroe Upper Epi	Normal	0.135	UVA at cm^-1
WEL-07-0018	9/23/2020	2942	29422016	Monroe Upper Hypo	Normal		UVA at cm^-1
WEL-07-0018	10/26/2020	2947	29471016	Monroe Upper Epi	Normal	0.112	UVA at cm^-1
WEL-07-0018	10/26/2020	2947	29472016	Monroe Upper Hypo	Normal		UVA at cm^-1
WEL-07-0019	4/22/2020	0123	01234008	Crooked Creek	Normal	0.066	UVA at cm^-1
WEL-07-0019	5/27/2020	0123	01234008	Crooked Creek	Normal	0.04	UVA at cm^-1
WEL-07-0019	6/24/2020	0123	01234008	Crooked Creek	Normal	0.028	UVA at cm^-1
WEL-07-0019	7/21/2020	0123	01234008	Crooked Creek	Normal	0.025	UVA at cm^-1
WEL-07-0019	8/27/2020	0123	01234008	Crooked Creek	Normal	0.032	UVA at cm^-1
WEL-07-0019	9/24/2020	0123	01234008	Crooked Creek	Normal		UVA at cm^-1
WEL-07-0019	10/22/2020	0123	01234008	Crooked Creek	Normal		UVA at cm^-1
WEL-07-0019	11/19/2020	0123	01234008	Crooked Creek	Normal	0.27	UVA at cm^-1
WEL-07-0019	12/16/2020	0123	01234008	Crooked Creek	Normal	0.031	UVA at cm^-1
WEL-07-0019	1/25/2021	0123	01234008	Crooked Creek	Normal	0.038	UVA at cm^-1
WEL-07-0019	2/25/2021	0123	01234008	Crooked Creek	Normal	0.174	UVA at cm^-1
WEL-07-0019	3/18/2021	0123	01234008	Crooked Creek	Normal	0.115	UVA at cm^-1
WEL-07-0020	5/26/2020	2831	28311016	Monroe Center Epi	Normal	0.097	UVA at cm^-1
WEL-07-0020	5/26/2020	2831	28311116	Monroe Center Epi (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0020	5/26/2020	2831	28312016	Monroe Center Hypo	Normal	0.099	UVA at cm^-1
WEL-07-0020	5/26/2020	2831	28312116	Monroe Center Hypo (Duplicate)	Duplicate	0.096	UVA at cm^-1
WEL-07-0020	6/25/2020	2856	28561016	Monroe Center Epi	Normal	0.074	UVA at cm^-1
WEL-07-0020	6/25/2020	2856	28561116	Monroe Center Epi (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0020	6/25/2020	2856	28562016	Monroe Center Hypo	Normal	0.102	UVA at cm^-1
WEL-07-0020	6/25/2020	2856	28562116	Monroe Center Hypo (Duplicate)	Duplicate	0.097	UVA at cm^-1
WEL-07-0020	7/27/2020	2918	29181016	Monroe Center Epi	Normal	0.073	UVA at cm^-1
WEL-07-0020	7/27/2020	2918	29181116	Monroe Center Epi (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0020	7/27/2020	2918	29182016	Monroe Center Hypo	Normal	0.096	UVA at cm^-1
WEL-07-0020	7/27/2020	2918	29182116	Monroe Center Hypo (Duplicate)	Duplicate	0.109	UVA at cm^-1
WEL-07-0020	8/28/2020	2940	29401016	Monroe Center Epi	Normal	0.072	UVA at cm^-1
WEL-07-0020	8/28/2020	2940	29401116	Monroe Center Epi (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0020	8/28/2020	2940	29402016	Monroe Center Hypo	Normal	0.096	UVA at cm^-1
WEL-07-0020	8/28/2020	2940	29402116	Monroe Center Hypo (Duplicate)	Duplicate	0.096	UVA at cm^-1
WEL-07-0020	9/23/2020	2943	29431016	Monroe Center Epi	Normal		UVA at cm^-1
WEL-07-0020	9/23/2020	2943	29431116	Monroe Center Epi (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0020	9/23/2020	2943	29432016	Monroe Center Hypo	Normal		UVA at cm^-1
WEL-07-0020	9/23/2020	2943	29432116	Monroe Center Hypo (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0020	10/26/2020	2945	29451016	Monroe Center Epi	Normal	0.096	UVA at cm^-1
WEL-07-0020	10/26/2020	2945	29451116	Monroe Center Epi (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0020	10/26/2020	2945	29452016	Monroe Center Hypo	Normal		UVA at cm^-1
WEL-07-0020	10/26/2020	2945	29452116	Monroe Center Hypo (Duplicate)	Duplicate		UVA at cm^-1
WEL-07-0021	5/26/2020	2832	28321016	Monroe Lower Epi	Normal	0.088	UVA at cm^-1
WEL-07-0021	5/26/2020	2832	28322016	Monroe Lower Hypo	Normal	0.139	UVA at cm^-1
WEL-07-0021	5/26/2020	2832	28320016	Monroe Lower Blank	Field Blank	-0.001	UVA at cm^-1
WEL-07-0021	6/25/2020	2857	28571016	Monroe Lower Epi	Normal	0.07	UVA at cm^-1
WEL-07-0021	6/25/2020	2857	28572016	Monroe Lower Hypo	Normal	0.097	UVA at cm^-1
WEL-07-0021	6/25/2020	2857	28570016	Monroe Lower Blank	Field Blank	0.001	UVA at cm^-1
WEL-07-0021	7/27/2020	2919	29191016	Monroe Lower Epi	Normal	0.063	UVA at cm^-1
WEL-07-0021	7/27/2020	2919	29192016	Monroe Lower Hypo	Normal	0.33	UVA at cm^-1
WEL-07-0021	8/28/2020	2941	29411016	Monroe Lower Epi	Normal	0.069	UVA at cm^-1
WEL-07-0021	8/28/2020	2941	29412016	Monroe Lower Hypo	Normal	0.494	UVA at cm^-1
WEL-07-0021	8/28/2020	2941	29410016	Monroe Lower Blank	Field Blank	0	UVA at cm^-1
WEL-07-0021	9/23/2020	2944	29441016	Monroe Lower Epi	Normal	0.075	UVA at cm^-1

UV254 Data for Lake Monroe and its Tributaries

Number	Sample Date	EventID	Sample_ID	SampleName	Type	Concentration	Unit
WEL-07-0021	9/23/2020	2944	29442016	Monroe Lower Hypo	Normal		UVA at cm ⁻¹
WEL-07-0021	9/23/2020	2944	29440016	Monroe Lower Blank	Field Blank	0.004	UVA at cm ⁻¹
WEL-07-0021	10/26/2020	2946	29461016	Monroe Lower Epi	Normal	0.089	UVA at cm ⁻¹
WEL-07-0021	10/26/2020	2946	29462016	Monroe Lower Hypo	Normal		UVA at cm ⁻¹
WEL-07-0021	10/26/2020	2946	29460016	Monroe Lower Blank	Field Blank	0.01	UVA at cm ⁻¹
WEL-08-0036	4/22/2020	0111	01114008	Lake Monroe Outlet	Normal	0.131	UVA at cm ⁻¹
WEL-08-0036	4/22/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.002	UVA at cm ⁻¹
WEL-08-0036	5/27/2020	0111	01114008	Lake Monroe Outlet	Normal	0.108	UVA at cm ⁻¹
WEL-08-0036	5/27/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	-0.001	UVA at cm ⁻¹
WEL-08-0036	6/24/2020	0111	01114008	Lake Monroe Outlet	Normal	0.103	UVA at cm ⁻¹
WEL-08-0036	6/24/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.021	UVA at cm ⁻¹
WEL-08-0036	7/21/2020	0111	01114008	Lake Monroe Outlet	Normal	0.133	UVA at cm ⁻¹
WEL-08-0036	7/21/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	-0.003	UVA at cm ⁻¹
WEL-08-0036	8/27/2020	0111	01114008	Lake Monroe Outlet	Normal	0.146	UVA at cm ⁻¹
WEL-08-0036	8/27/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0	UVA at cm ⁻¹
WEL-08-0036	9/24/2020	0111	01114008	Lake Monroe Outlet	Normal	0.125	UVA at cm ⁻¹
WEL-08-0036	9/24/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.02	UVA at cm ⁻¹
WEL-08-0036	10/22/2020	0111	01114008	Lake Monroe Outlet	Normal	0.089	UVA at cm ⁻¹
WEL-08-0036	10/22/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.004	UVA at cm ⁻¹
WEL-08-0036	11/19/2020	0111	01114008	Lake Monroe Outlet	Normal	0.082	UVA at cm ⁻¹
WEL-08-0036	11/19/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0	UVA at cm ⁻¹
WEL-08-0036	12/16/2020	0111	01114008	Lake Monroe Outlet	Normal	0.066	UVA at cm ⁻¹
WEL-08-0036	12/16/2020	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.001	UVA at cm ⁻¹
WEL-08-0036	1/25/2021	0111	01114008	Lake Monroe Outlet	Normal	0.08	UVA at cm ⁻¹
WEL-08-0036	1/25/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.004	UVA at cm ⁻¹
WEL-08-0036	2/25/2021	0111	01114008	Lake Monroe Outlet	Normal	0.09	UVA at cm ⁻¹
WEL-08-0036	2/25/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0	UVA at cm ⁻¹
WEL-08-0036	3/18/2021	0111	01114008	Lake Monroe Outlet	Normal	0.101	UVA at cm ⁻¹
WEL-08-0036	3/18/2021	0111	01110008	Lake Monroe Outlet Blank	Field Blank	0.001	UVA at cm ⁻¹

Acid Neutralizing Capacity (ANC) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	Sample Name	Sample Type	Concentration	Unit	QA Flags
WEL-04-0004	4/22/2020	0914	09144001	South Fork Salt Creek	Normal	29	mg/L	
WEL-04-0004	5/27/2020	0914	09144001	South Fork Salt Creek	Normal	31	mg/L	
WEL-04-0004	6/24/2020	0914	09144001	South Fork Salt Creek	Normal	33	mg/L	
WEL-04-0004	7/21/2020	0914	09144001	South Fork Salt Creek	Normal	55	mg/L	
WEL-04-0004	8/27/2020	0914	09144001	South Fork Salt Creek	Normal	59	mg/L	
WEL-04-0004	9/24/2020	0914	09144001	South Fork Salt Creek	Normal	81.0	mg/L	
WEL-04-0004	10/22/2020	0914	09144001	South Fork Salt Creek	Normal	81.0	mg/L	
WEL-04-0004	11/19/2020	0914	09144001	South Fork Salt Creek	Normal	50.0	mg/L	
WEL-04-0004	12/16/2020	0914	09144001	South Fork Salt Creek	Normal	34.0	mg/L	
WEL-04-0004	1/25/2021	0914	09144001	South Fork Salt Creek	Normal	34.0	mg/L	
WEL-04-0004	2/25/2021	0914	09144001	South Fork Salt Creek	Normal	14.0	mg/L	
WEL-04-0004	3/18/2021	0914	09144001	South Fork Salt Creek	Normal	21.0	mg/L	
WEL-05-0001	4/22/2020	0668	06684001	Middle Fork Salt Creek	Normal	36	mg/L	
WEL-05-0001	4/22/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	36	mg/L	
WEL-05-0001	5/27/2020	0668	06684001	Middle Fork Salt Creek	Normal	33.7	mg/L	
WEL-05-0001	5/27/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	33.8	mg/L	
WEL-05-0001	6/24/2020	0668	06684001	Middle Fork Salt Creek	Normal	38.9	mg/L	
WEL-05-0001	6/24/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	45.8	mg/L	
WEL-05-0001	7/21/2020	0668	06684001	Middle Fork Salt Creek	Normal	63	mg/L	
WEL-05-0001	7/21/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	64	mg/L	
WEL-05-0001	8/27/2020	0668	06684001	Middle Fork Salt Creek	Normal	63	mg/L	
WEL-05-0001	8/27/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	63	mg/L	
WEL-05-0001	9/24/2020	0668	06684001	Middle Fork Salt Creek	Normal	88.0	mg/L	
WEL-05-0001	9/24/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	89.0	mg/L	
WEL-05-0001	10/22/2020	0668	06684001	Middle Fork Salt Creek	Normal	87.0	mg/L	
WEL-05-0001	10/22/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	88.0	mg/L	
WEL-05-0001	11/19/2020	0668	06684001	Middle Fork Salt Creek	Normal	58.0	mg/L	
WEL-05-0001	11/19/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	60.0	mg/L	
WEL-05-0001	12/16/2020	0668	06684001	Middle Fork Salt Creek	Normal	47.0	mg/L	
WEL-05-0001	12/16/2020	0668	06684101	Middle Fork Salt Creek	Duplicate	46.0	mg/L	
WEL-05-0001	1/25/2021	0668	06684001	Middle Fork Salt Creek	Normal	43.0	mg/L	
WEL-05-0001	1/25/2021	0668	06684101	Middle Fork Salt Creek	Duplicate	43.0	mg/L	
WEL-05-0001	2/25/2021	0668	06684001	Middle Fork Salt Creek	Normal	18.0	mg/L	
WEL-05-0001	2/25/2021	0668	06684101	Middle Fork Salt Creek	Duplicate	18.0	mg/L	
WEL-05-0001	3/18/2021	0668	06684001	Middle Fork Salt Creek	Normal	31.0	mg/L	
WEL-05-0001	3/18/2021	0668	06684101	Middle Fork Salt Creek	Duplicate	31.0	mg/L	
WEL-06-0008	4/22/2020	0256	02564001	North Fork Salt Creek	Normal	47	mg/L	
WEL-06-0008	5/27/2020	0256	02564001	North Fork Salt Creek	Normal	42.2	mg/L	
WEL-06-0008	6/24/2020	0256	02564001	North Fork Salt Creek	Normal	83.3	mg/L	
WEL-06-0008	7/21/2020	0256	02564001	North Fork Salt Creek	Normal	86	mg/L	
WEL-06-0008	8/27/2020	0256	02564001	North Fork Salt Creek	Normal	89	mg/L	
WEL-06-0008	9/24/2020	0256	02564001	North Fork Salt Creek	Normal	110.0	mg/L	
WEL-06-0008	10/22/2020	0256	02564001	North Fork Salt Creek	Normal	100.0	mg/L	
WEL-06-0008	11/19/2020	0256	02564001	North Fork Salt Creek	Normal	88.0	mg/L	
WEL-06-0008	12/16/2020	0256	02564001	North Fork Salt Creek	Normal	68.0	mg/L	
WEL-06-0008	1/25/2021	0256	02564001	North Fork Salt Creek	Normal	63.0	mg/L	
WEL-06-0008	2/25/2021	0256	02564001	North Fork Salt Creek	Normal	20.0	mg/L	
WEL-06-0008	3/18/2021	0256	02564001	North Fork Salt Creek	Normal	24.0	mg/L	
WEL-07-0018	5/26/2020	2830	28301001	Monroe Upper Epi	Normal	30.5	mg/L	
WEL-07-0018	6/25/2020	2855	28551001	Monroe Upper Epi	Normal	32.8	mg/L	
WEL-07-0018	6/25/2020	2855	28552001	Monroe Upper Hypo	Normal	25	mg/L	
WEL-07-0018	7/27/2020	2917	29171001	Monroe Upper Epi	Normal	41	mg/L	
WEL-07-0018	7/27/2020	2917	29172001	Monroe Upper Hypo	Normal	52	mg/L	
WEL-07-0018	8/28/2020	2939	29391001	Monroe Upper Epi	Normal	40	mg/L	
WEL-07-0018	8/28/2020	2939	29392001	Monroe Upper Hypo	Normal	49	mg/L	

Acid Neutralizing Capacity (ANC) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	Sample Name	Sample Type	Concentration	Unit	QA Flags
WEL-07-0018	9/23/2020	2942	29421001	Monroe Upper Epi	Normal	44.0	mg/L	
WEL-07-0018	10/26/2020	2947	29471001	Monroe Upper Epi	Normal	39.0	mg/L	
WEL-07-0019	4/22/2020	0123	01234001	Crooked Creek	Normal	35	mg/L	
WEL-07-0019	5/27/2020	0123	01234001	Crooked Creek	Normal	49.2	mg/L	
WEL-07-0019	6/24/2020	0123	01234001	Crooked Creek	Normal	62	mg/L	
WEL-07-0019	7/21/2020	0123	01234001	Crooked Creek	Normal	68	mg/L	
WEL-07-0019	8/27/2020	0123	01234001	Crooked Creek	Normal	76	mg/L	
WEL-07-0019	11/19/2020	0123	01234001	Crooked Creek	Normal	64.0	mg/L	
WEL-07-0019	12/16/2020	0123	01234001	Crooked Creek	Normal	59.0	mg/L	
WEL-07-0019	1/25/2021	0123	01234001	Crooked Creek	Normal	47.0	mg/L	
WEL-07-0019	2/25/2021	0123	01234001	Crooked Creek	Normal	23.0	mg/L	
WEL-07-0019	3/18/2021	0123	01234001	Crooked Creek	Normal	32.0	mg/L	
WEL-07-0020	5/26/2020	2831	28311001	Monroe Center Epi	Normal	28	mg/L	
WEL-07-0020	5/26/2020	2831	28311101	Monroe Center Epi	Duplicate	28.8	mg/L	
WEL-07-0020	5/26/2020	2831	28312001	Monroe Center Hypo	Normal	28.3	mg/L	
WEL-07-0020	6/25/2020	2856	28561001	Monroe Center Epi	Normal	26	mg/L	
WEL-07-0020	6/25/2020	2856	28561101	Monroe Center Epi	Duplicate	32	mg/L	
WEL-07-0020	6/25/2020	2856	28562001	Monroe Center Hypo	Normal	33	mg/L	
WEL-07-0020	7/27/2020	2918	29181001	Monroe Center Epi	Normal	25	mg/L	
WEL-07-0020	7/27/2020	2918	29181101	Monroe Center Epi	Duplicate	29	mg/L	
WEL-07-0020	7/27/2020	2918	29182001	Monroe Center Hypo	Normal	39	mg/L	
WEL-07-0020	8/28/2020	2940	29401001	Monroe Center Epi	Normal	37	mg/L	
WEL-07-0020	8/28/2020	2940	29401101	Monroe Center Epi	Duplicate	38	mg/L	
WEL-07-0020	8/28/2020	2940	29402001	Monroe Center Hypo	Normal	41	mg/L	
WEL-07-0020	9/23/2020	2943	29431001	Monroe Center Epi	Normal	39.0	mg/L	
WEL-07-0020	9/23/2020	2943	29431101	Monroe Center Epi	Duplicate	42.0	mg/L	
WEL-07-0020	10/26/2020	2945	29451001	Monroe Center Epi	Normal	29.0	mg/L	
WEL-07-0020	10/26/2020	2945	29451101	Monroe Center Epi	Duplicate	30.0	mg/L	
WEL-07-0021	5/26/2020	2832	28321001	Monroe Lower Epi	Normal	27.4	mg/L	
WEL-07-0021	5/26/2020	2832	28322001	Monroe Lower Hypo	Normal	29.1	mg/L	
WEL-07-0021	6/25/2020	2857	28571001	Monroe Lower Epi	Normal	32	mg/L	
WEL-07-0021	6/25/2020	2857	28572001	Monroe Lower Hypo	Normal	31	mg/L	
WEL-07-0021	7/27/2020	2919	29191001	Monroe Lower Epi	Normal	46	mg/L	
WEL-07-0021	7/27/2020	2919	29192001	Monroe Lower Hypo	Normal	40	mg/L	
WEL-07-0021	8/28/2020	2941	29411001	Monroe Lower Epi	Normal	35	mg/L	
WEL-07-0021	8/28/2020	2941	29412001	Monroe Lower Hypo	Normal	60	mg/L	
WEL-07-0021	9/23/2020	2944	29441001	Monroe Lower Epi	Normal	40.0	mg/L	
WEL-07-0021	9/23/2020	2944	29442001	Monroe Lower Hypo	Normal	64.0	mg/L	
WEL-07-0021	10/26/2020	2946	29461001	Monroe Lower Epi	Normal	40.0	mg/L	
WEL-08-0036	4/22/2020	0111	01114001	Lake Monroe Outlet	Normal	38	mg/L	
WEL-08-0036	5/27/2020	0111	01114001	Lake Monroe Outlet	Normal	27.3	mg/L	
WEL-08-0036	6/24/2020	0111	01114001	Lake Monroe Outlet	Normal	32.7	mg/L	
WEL-08-0036	7/21/2020	0111	01114001	Lake Monroe Outlet	Normal	38	mg/L	
WEL-08-0036	8/27/2020	0111	01114001	Lake Monroe Outlet	Normal	41	mg/L	
WEL-08-0036	9/24/2020	0111	01114001	Lake Monroe Outlet	Normal	45.0	mg/L	
WEL-08-0036	10/22/2020	0111	01114001	Lake Monroe Outlet	Normal	40.0	mg/L	
WEL-08-0036	11/19/2020	0111	01114001	Lake Monroe Outlet	Normal	38.0	mg/L	
WEL-08-0036	12/16/2020	0111	01114001	Lake Monroe Outlet	Normal	35.0	mg/L	
WEL-08-0036	1/25/2021	0111	01114001	Lake Monroe Outlet	Normal	22.0	mg/L	
WEL-08-0036	2/25/2021	0111	01114001	Lake Monroe Outlet	Normal	36.0	mg/L	
WEL-08-0036	3/18/2021	0111	01114001	Lake Monroe Outlet	Normal	33.0	mg/L	

Total Suspended Solids (TSS) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	Sample Name	Sample Type	Concentration	Unit	QA Flags
WEL-04-0004	4/22/2020	0914	09144012	South Fork Salt Creek	Normal	5.2	mg/L	
WEL-04-0004	5/27/2020	0914	09144012	South Fork Salt Creek	Normal	31.3	mg/L	
WEL-04-0004	6/24/2020	0914	09144012	South Fork Salt Creek	Normal	16.8	mg/L	
WEL-04-0004	7/21/2020	0914	09144012	South Fork Salt Creek	Normal	2.4	mg/L	
WEL-04-0004	8/27/2020	0914	09144012	South Fork Salt Creek	Normal	2.3	mg/L	
WEL-04-0004	9/24/2020	0914	09144012	South Fork Salt Creek	Normal	7.5	mg/L	
WEL-04-0004	10/22/2020	0914	09144012	South Fork Salt Creek	Normal	9.5	mg/L	
WEL-04-0004	11/19/2020	0914	09144012	South Fork Salt Creek	Normal	4.3	mg/L	
WEL-04-0004	12/16/2020	0914	09142012	South Fork Salt Creek	Normal	1.75	mg/L	
WEL-04-0004	1/25/2021	0914	09144012	South Fork Salt Creek	Normal	2.8	mg/L	
WEL-04-0004	2/25/2021	0914	09144012	South Fork Salt Creek	Normal	25.3	mg/L	
WEL-04-0004	3/18/2021	0914	09144012	South Fork Salt Creek	Normal	14.8	mg/L	
WEL-05-0001	4/22/2020	0668	06684012	Middle Fork Salt Creek	Normal	3	mg/L	
WEL-05-0001	4/22/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	3	mg/L	
WEL-05-0001	5/27/2020	0668	06684012	Middle Fork Salt Creek	Normal	15.2	mg/L	
WEL-05-0001	5/27/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	15.8	mg/L	
WEL-05-0001	6/24/2020	0668	06684012	Middle Fork Salt Creek	Normal	3.6	mg/L	
WEL-05-0001	6/24/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	3.2	mg/L	
WEL-05-0001	7/21/2020	0668	06684012	Middle Fork Salt Creek	Normal	3.6	mg/L	
WEL-05-0001	7/21/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	3.2	mg/L	
WEL-05-0001	8/27/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	2	mg/L	
WEL-05-0001	8/27/2020	0668	06684012	Middle Fork Salt Creek	Normal	2	mg/L	
WEL-05-0001	9/24/2020	0668	06684012	Middle Fork Salt Creek	Normal	3	mg/L	
WEL-05-0001	9/24/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	2.5	mg/L	
WEL-05-0001	10/22/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	5.5	mg/L	
WEL-05-0001	10/22/2020	0668	06684012	Middle Fork Salt Creek	Normal	5.8	mg/L	
WEL-05-0001	11/19/2020	0668	06684012	Middle Fork Salt Creek	Normal	2.3	mg/L	
WEL-05-0001	11/19/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	2.8	mg/L	
WEL-05-0001	12/16/2020	0668	06684112	Middle Fork Salt Creek	Duplicate	0.8	mg/L	
WEL-05-0001	12/16/2020	0668	06684012	Middle Fork Salt Creek	Normal	1.4	mg/L	
WEL-05-0001	1/25/2021	0668	06684012	Middle Fork Salt Creek	Normal	6.0	mg/L	
WEL-05-0001	1/25/2021	0668	06684112	Middle Fork Salt Creek	Duplicate	3.3	mg/L	
WEL-05-0001	2/25/2021	0668	06684012	Middle Fork Salt Creek	Normal	24.8	mg/L	
WEL-05-0001	2/25/2021	0668	06684112	Middle Fork Salt Creek	Duplicate	27.6	mg/L	
WEL-05-0001	3/18/2021	0668	06684012	Middle Fork Salt Creek	Normal	39.4	mg/L	
WEL-05-0001	3/18/2021	0668	06684112	Middle Fork Salt Creek	Duplicate	36.2	mg/L	
WEL-06-0008	4/22/2020	0256	02564012	North Fork Salt Creek	Normal	7.6	mg/L	
WEL-06-0008	5/27/2020	0256	02564012	North Fork Salt Creek	Normal	30.8	mg/L	
WEL-06-0008	6/24/2020	0256	02564012	North Fork Salt Creek	Normal	2.8	mg/L	
WEL-06-0008	7/21/2020	0256	02564012	North Fork Salt Creek	Normal	<0.5	mg/L	U
WEL-06-0008	8/27/2020	0256	02564012	North Fork Salt Creek	Normal	2.5	mg/L	
WEL-06-0008	9/24/2020	0256	02564012	North Fork Salt Creek	Normal	5.5	mg/L	
WEL-06-0008	10/22/2020	0256	02564012	North Fork Salt Creek	Normal	4.8	mg/L	
WEL-06-0008	11/19/2020	0256	02564012	North Fork Salt Creek	Normal	1.8	mg/L	
WEL-06-0008	12/16/2020	0236	02564012	North Fork Salt Creek	Normal	2	mg/L	
WEL-06-0008	1/25/2021	0256	02564012	North Fork Salt Creek	Normal	1.6	mg/L	
WEL-06-0008	2/25/2021	0256	02564012	North Fork Salt Creek	Normal	101.3	mg/L	
WEL-06-0008	3/18/2021	0256	02564012	North Fork Salt Creek	Normal	148.6	mg/L	
WEL-07-0018	5/26/2020	2830	28301012	Monroe Upper EPI	Normal	4.6	mg/L	
WEL-07-0018	6/25/2020	2855	28551012	Monroe Upper EPI	Normal	5.6	mg/L	
WEL-07-0018	6/25/2020	2855	28552012	Monroe Upper Hypo	Normal	36.4	mg/L	
WEL-07-0018	7/27/2020	2917	29171012	Monroe Upper EPI	Normal	6.7	mg/L	
WEL-07-0018	7/27/2020	2917	29172012	Monroe Upper Hypo	Normal	4.4	mg/L	
WEL-07-0018	8/26/2020	2939	29391012	Monroe Upper EPI	Normal	4.5	mg/L	
WEL-07-0018	9/23/2020	2942	29421012	Monroe Upper EPI	Normal	16.5	mg/L	

Total Suspended Solids (TSS) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	Sample Name	Sample Type	Concentration	Unit	QA Flags
WEL-07-0018	10/26/2020	2947	29471012	Monroe Upper EPI	Normal	15.6	mg/L	
WEL-07-0019	4/22/2020	0123	01234012	Crooked Creek	Normal	1.3	mg/L	
WEL-07-0019	5/27/2020	0123	01234012	Crooked Creek	Normal	1.6	mg/L	
WEL-07-0019	6/24/2020	0123	01234012	Crooked Creek	Normal	1	mg/L	
WEL-07-0019	7/21/2020	0123	01234012	Crooked Creek	Normal	<0.5	mg/L	U
WEL-07-0019	8/27/2020	0123	01234012	Crooked Creek	Normal	0.7	mg/L	
WEL-07-0019	11/19/2020	0123	01234012	Crooked Creek	Normal	<0.5	mg/L	U
WEL-07-0019	12/16/2020	0123	01234012	Crooked Creek	Normal	<0.5	mg/L	U
WEL-07-0019	1/25/2021	0123	01234012	Crooked Creek	Normal	0.2	mg/L	
WEL-07-0019	2/25/2021	0123	01234012	Crooked Creek	Normal	3.2	mg/L	
WEL-07-0019	3/18/2021	0123	01234012	Crooked Creek	Normal	3.8	mg/L	
WEL-07-0020	5/26/2020	2831	28311012	Monroe Center EPI	Normal	4	mg/L	
WEL-07-0020	5/26/2020	2831	28312012	Monroe Center Hypo	Normal	5.2	mg/L	
WEL-07-0020	5/26/2020	2831	28312112	Monroe Center Hypo	Duplicate	4.8	mg/L	
WEL-07-0020	6/25/2020	2856	28561012	Monroe Center EPI	Normal	2.8	mg/L	
WEL-07-0020	6/25/2020	2856	28562012	Monroe Center Hypo	Normal	6	mg/L	
WEL-07-0020	6/25/2020	2856	28562112	Monroe Center Hypo	Duplicate	5.2	mg/L	
WEL-07-0020	7/27/2020	2918	29181012	Monroe Center EPI	Normal	4	mg/L	
WEL-07-0020	7/27/2020	2918	29182012	Monroe Center Hypo	Normal	4.5	mg/L	
WEL-07-0020	7/27/2020	2918	29182112	Monroe Center Hypo	Duplicate	3.8	mg/L	
WEL-07-0020	8/26/2020	2940	29402012	Monroe Center Hypo	Normal	3.3	mg/L	
WEL-07-0020	8/26/2020	2940	29401012	Monroe Center EPI	Normal	1.5	mg/L	
WEL-07-0020	9/23/2020	2943	29431012	Monroe Center EPI	Normal	4.3	mg/L	
WEL-07-0020	10/26/2020	2945	29451012	Monroe Center EPI	Normal	10.8	mg/L	
WEL-07-0021	5/26/2020	2832	28320012	Monroe Lower	Field Blank	<0.5	mg/L	U
WEL-07-0021	5/26/2020	2832	28321012	Monroe Lower EPI	Normal	3	mg/L	
WEL-07-0021	5/26/2020	2832	28322012	Monroe Lower Hypo	Normal	10.9	mg/L	
WEL-07-0021	6/25/2020	2857	28570012	Monroe Lower	Field Blank	<0.5	mg/L	U
WEL-07-0021	6/25/2020	2857	28571012	Monroe Lower EPI	Normal	1.6	mg/L	
WEL-07-0021	6/25/2020	2857	28572012	Monroe Lower Hypo	Normal	3.8	mg/L	
WEL-07-0021	7/27/2020	2919	29190012	Monroe Lower	Field Blank	<0.5	mg/L	U
WEL-07-0021	7/27/2020	2919	29191012	Monroe Lower EPI	Normal	1.7	mg/L	
WEL-07-0021	7/27/2020	2919	29192012	Monroe Lower Hypo	Normal	28.4	mg/L	
WEL-07-0021	8/26/2020	2941	29410012	Monroe Lower	Field Blank	<0.5	mg/L	U
WEL-07-0021	8/26/2020	2941	29412012	Monroe Lower Hypo	Normal	6.5	mg/L	
WEL-07-0021	8/26/2020	2941	29411012	Monroe Lower EPI	Normal	1.7	mg/L	
WEL-07-0021	9/23/2020	2944	29442012	Monroe Lower Hypo	Normal	26.7	mg/L	
WEL-07-0021	9/23/2020	2944	29440012	Monroe Lower	Field Blank	<0.5	mg/L	U
WEL-07-0021	9/23/2020	2944	29441012	Monroe Lower EPI	Normal	2.5	mg/L	
WEL-07-0021	10/26/2020	2946	29461012	Monroe Lower EPI	Normal	5.2	mg/L	
WEL-07-0021	10/26/2020	2946	29460012	Monroe Lower	Field Blank	<0.5	mg/L	U
WEL-08-0036	4/22/2020	0111	01114012	Lake Monroe Outlet	Normal	4.8	mg/L	
WEL-08-0036	4/22/2020	0111	01114012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	5/27/2020	0111	01114012	Lake Monroe Outlet	Normal	4.4	mg/L	
WEL-08-0036	5/27/2020	0111	01114012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	6/24/2020	0111	01114012	Lake Monroe Outlet	Normal	3.2	mg/L	
WEL-08-0036	6/24/2020	0111	01114012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	7/21/2020	0111	01114012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	7/21/2020	0111	01114012	Lake Monroe Outlet	Normal	6.8	mg/L	
WEL-08-0036	8/27/2020	0111	01114012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	8/27/2020	0111	01114012	Lake Monroe Outlet	Normal	9.5	mg/L	
WEL-08-0036	9/24/2020	0111	01114012	Lake Monroe Outlet	Normal	10	mg/L	
WEL-08-0036	9/24/2020	0111	01114012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U

Total Suspended Solids (TSS) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	Sample Name	Sample Type	Concentration	Unit	QA Flags
WEL-08-0036	10/22/2020	0111	01110012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	10/22/2020	0111	01114012	Lake Monroe Outlet	Normal	6.2	mg/L	
WEL-08-0036	11/19/2020	0111	01110012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	11/19/2020	0111	01114012	Lake Monroe Outlet	Normal	11.0	mg/L	
WEL-08-0036	12/16/2020	0111	01114013	Lake Monroe Outlet	Normal	10.4	mg/L	
WEL-08-0036	12/16/2020	0111	01110012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	1/25/2021	0111	01110012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	1/25/2021	0111	01114012	Lake Monroe Outlet	Normal	6.0	mg/L	
WEL-08-0036	2/25/2021	0111	01114012	Lake Monroe Outlet	Normal	6.2	mg/L	
WEL-08-0036	2/25/2021	0111	01110012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U
WEL-08-0036	3/18/2021	0111	01114012	Lake Monroe Outlet	Normal	6.5	mg/L	
WEL-08-0036	3/18/2021	0111	01110012	Lake Monroe Outlet	Field Blank	<0.5	mg/L	U

Soluble Reactive Phosphorus (SRP) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-04-0004	4/22/2020	0914	09144004	0914 SForkStCk 4.22	Normal	0.012	mg/L	
WEL-04-0004	5/27/2020	0914	09144004	0914 SForkStCk 5.27	Normal	0.011	mg/L	
WEL-04-0004	6/24/2020	0914	09144004	0914 SForkStCk 6.24	Normal	0.036	mg/L	
WEL-04-0004	6/24/2020	0914	09144004	0914 SForkStCk SPL 6.24	Duplicate	0.035	mg/L	
WEL-04-0004	7/21/2020	0914	09144004	0914 SForkStCk 7.21	Normal	0.009	mg/L	
WEL-04-0004	8/27/2020	0914	09144004	0914 SForkStCk 8.27	Normal	0.009	mg/L	
WEL-04-0004	9/24/2020	0914	09144004	0914 SForkStCk 9.24	Normal	0.005	mg/L	
WEL-04-0004	10/22/2020	0914	09144004	0914 SForkStCk 10.22	Normal	0.008	mg/L	
WEL-04-0004	10/22/2020	0914	09144004	0914 SForkStCk 10.22 SPL	Duplicate	0.007	mg/L	
WEL-04-0004	11/19/2020	0914	09144004	0914 SForkStCk 11.19	Normal	0.01	mg/L	
WEL-04-0004	12/16/2020	0914	09144004	0914 SForkStCk	Normal	0.005	mg/L	
WEL-04-0004	1/25/2021	0914	09144004	0914 SForkStCk	Normal	0.004	mg/L	
WEL-04-0004	2/25/2021	0914	09144004	0914 SForkStCk	Normal	0.011	mg/L	
WEL-04-0004	2/25/2021	0914	09144004	0914 SForkStCk	Duplicate	0.014	mg/L	
WEL-04-0004	3/18/2021	0914	09144004	0914 SForkStCk	Normal	0.007	mg/L	
WEL-05-0001	4/22/2020	0668	06684104	0668 MForkStCk 4.22 Dup	Duplicate	0.003	mg/L	
WEL-05-0001	4/22/2020	0668	06684004	0668 MForkStCk 4.22	Normal	0.003	mg/L	
WEL-05-0001	5/27/2020	0668	06684004	0668 MForkStCk 5.27	Normal	0.035	mg/L	
WEL-05-0001	5/27/2020	0668	06684104	0668 MForkStCk 5.27 Dup	Duplicate	0.006	mg/L	
WEL-05-0001	6/24/2020	0668	06684004	0668 MForkStCk 6.24	Normal	0.006	mg/L	
WEL-05-0001	6/24/2020	0668	06684104	0668 MForkStCk Dup 6.24	Duplicate	0.006	mg/L	
WEL-05-0001	7/21/2020	0668	06684004	0668 MForkStCk 7.21	Normal	0.003	mg/L	
WEL-05-0001	7/21/2020	0668	06684104	0668 MForkStCk DUP 7.21	Duplicate	0.004	mg/L	
WEL-05-0001	8/27/2020	0668	06684004	0668 MForkStCk 8.27	Normal	0.005	mg/L	
WEL-05-0001	8/27/2020	0668	06684104	0668 MForkStCk DUP 8.27	Duplicate	0.005	mg/L	
WEL-05-0001	9/24/2020	0668	06684004	0668 MForkStCk 9.24	Normal	0.003	mg/L	
WEL-05-0001	9/24/2020	0668	06684104	0668 MForkStCk DUP 9.24	Duplicate	0.004	mg/L	
WEL-05-0001	10/22/2020	0668	06684004	0668 MForkStCk 10.22	Normal	0.003	mg/L	
WEL-05-0001	10/22/2020	0668	06684104	0668 MForkStCk DUP 10.22	Duplicate	0.005	mg/L	
WEL-05-0001	11/19/2020	0668	06684004	0668 MForkStCk 11.19	Normal	0.005	mg/L	
WEL-05-0001	11/19/2020	0668	06684104	0668 MForkStCk DUP 11.19	Duplicate	0.004	mg/L	
WEL-05-0001	12/16/2020	0668	06684004	0668 MForkStCk	Normal	0.003	mg/L	
WEL-05-0001	12/16/2020	0668	06684104	0668 MForkStCk- DUP	Duplicate	0.004	mg/L	
WEL-05-0001	1/25/2021	0668	06684004	0668 MForkStCk	Normal	0.003	mg/L	
WEL-05-0001	1/25/2021	0668	06684104	0668 MForkStCk	Duplicate	0.003	mg/L	
WEL-05-0001	2/25/2021	0668	06684004	0668 MForkStCk	Normal	0.008	mg/L	
WEL-05-0001	2/25/2021	0668	06684104	0668 MForkStCk	Duplicate	0.009	mg/L	
WEL-05-0001	3/18/2021	0668	06684004	0668 MForkStCk	Normal	0.006	mg/L	
WEL-05-0001	3/18/2021	0668	06684104	0668 MForkStCk	Duplicate	0.007	mg/L	
WEL-06-0008	4/22/2020	0256	02564004	0256 NForkStCk 4.22	Normal	0.006	mg/L	
WEL-06-0008	5/27/2020	0256	02564004	0256 NForkStCk 5.27	Normal	0.008	mg/L	
WEL-06-0008	5/27/2020	0256	02564004	0256 NForkStCk 5.27 SPL	Duplicate	0.008	mg/L	
WEL-06-0008	6/24/2020	0256	02564004	0256 NForkStCk 6.24	Normal	0.006	mg/L	
WEL-06-0008	7/21/2020	0256	02564004	0256 NForkStCk 7.21	Normal	0.005	mg/L	
WEL-06-0008	8/27/2020	0256	02564004	0256 NForkStCk 8.27	Normal	0.004	mg/L	
WEL-06-0008	9/24/2020	0256	02564004	0256 NForkStCk 9.24	Normal	0.003	mg/L	
WEL-06-0008	10/22/2020	0256	02564004	0256 NForkStCk 10.22	Normal	0.012	mg/L	
WEL-06-0008	11/19/2020	0256	02564004	0256 NForkStCk 11.19	Normal	0.01	mg/L	
WEL-06-0008	12/16/2020	0256	02564004	0256 NForkStCk	Normal	0.005	mg/L	
WEL-06-0008	1/25/2021	0256	02564004	0256 NForkStCk	Normal	0.003	mg/L	
WEL-06-0008	1/25/2021	0256	02564004	0256 NForkStCk	Duplicate	0.003	mg/L	
WEL-06-0008	2/25/2021	0256	02564004	0256 NForkStCk	Normal	0.01	mg/L	
WEL-06-0008	3/18/2021	0256	02564004	0256 NForkStCk	Normal	0.009	mg/L	
WEL-07-0018	5/26/2020	2830	28301004	2830 MonUpp epi	Normal	0.034	mg/L	
WEL-07-0018	5/26/2020	2830	28302004	2830 MonUpp epi SPL	Duplicate	0.032	mg/L	

Soluble Reactive Phosphorus (SRP) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-07-0018	6/25/2020	2855	28551004	2855 MonUpp epi	Normal	0.013	mg/L	
WEL-07-0018	6/25/2020	2855	28552004	2855 MonUpp hypo	Normal	0.013	mg/L	
WEL-07-0018	7/27/2020	2917	29171004	2917 MonUpp epi	Normal	0.003	mg/L	
WEL-07-0018	7/27/2020	2917	29172004	2917 MonUpp hypo	Normal	0.055	mg/L	
WEL-07-0018	8/28/2020	2939	29391004	2939 MonUpp epi	Normal	0.008	mg/L	
WEL-07-0018	8/28/2020	2939	29392004	2939 MonUpp hypo	Normal	0.018	mg/L	
WEL-07-0018	9/23/2020	2942	29421004	2942 MonUpp EPI	Normal	0.049	mg/L	
WEL-07-0018	10/26/2020	2947	29471004	2947 MonUpp epi	Normal	0.004	mg/L	
WEL-07-0019	4/22/2020	0123	01234004	0123 CrookedCk 4.22	Normal	0.002	mg/L	
WEL-07-0019	5/27/2020	0123	01234004	0123 CrookedCk 5.27	Normal	0.002	mg/L	
WEL-07-0019	6/24/2020	0123	01234004	0123 CrookedCk 6.24	Normal	0.007	mg/L	
WEL-07-0019	7/21/2020	0123	01234004	0123 CrookedCk 7.21	Normal	0.003	mg/L	
WEL-07-0019	8/27/2020	0123	01234004	0123 CrookedCk 8.27	Normal	0.005	mg/L	
WEL-07-0019	11/19/2020	0123	01234004	0123 CrookedCk 11.19	Normal	0.004	mg/L	
WEL-07-0019	12/16/2020	0123	01234004	0123 CrookedCk	Normal	0.004	mg/L	
WEL-07-0019	1/25/2021	0123	01234004	0123 CrookedCk	Normal	0.003	mg/L	
WEL-07-0019	2/25/2021	0123	01234004	0123 CrookedCk	Normal	0.008	mg/L	
WEL-07-0019	3/18/2021	0123	01234004	0123 CrookedCk	Normal	0.006	mg/L	
WEL-07-0020	5/26/2020	2831	28311004	2831 MonCen epi	Normal	0.019	mg/L	
WEL-07-0020	5/26/2020	2831	28312004	2831 MonCen hypo	Normal	0.003	mg/L	
WEL-07-0020	5/26/2020	2831	28312104	2831 MonCen hypo Dup	Duplicate	0.004	mg/L	
WEL-07-0020	6/25/2020	2856	28561004	2856 MonCen epi	Normal	0.009	mg/L	
WEL-07-0020	6/25/2020	2856	28562004	2856 MonCen hypo	Normal	0.004	mg/L	
WEL-07-0020	6/25/2020	2856	28562104	2856 MonCen hypo DUP	Duplicate	0.003	mg/L	
WEL-07-0020	7/27/2020	2918	29181004	2918 MonCen epi	Normal	0.002	mg/L	
WEL-07-0020	7/27/2020	2918	29182004	2918 MonCen hypo	Normal	0.002	mg/L	
WEL-07-0020	7/27/2020	2918	29182104	2918 MonCen hypo DUP	Duplicate	0.003	mg/L	
WEL-07-0020	8/28/2020	2940	29401004	2940 MonCen epi	Normal	0.005	mg/L	
WEL-07-0020	8/28/2020	2940	29402004	2940 MonCen hypo	Normal	0.006	mg/L	
WEL-07-0020	8/28/2020	2940	29402104	2940 MonCen hypo DUP	Duplicate	0.005	mg/L	
WEL-07-0020	9/23/2020	2943	29431004	2943 MonCen EPI	Normal	0.004	mg/L	
WEL-07-0020	10/26/2020	2945	29451004	2945 MonCen epi	Normal	0.004	mg/L	
WEL-07-0020	10/26/2020	2945	29451004	2945 MonCen epi SPL	Duplicate	0.004	mg/L	
WEL-07-0021	5/26/2020	2832	28320004	2832 MonLow Blnk	Field Blank	<0.002	mg/L	U
WEL-07-0021	5/26/2020	2832	28321004	2832 MonLow epi	Normal	0.003	mg/L	
WEL-07-0021	5/26/2020	2832	28322004	2832 MonLow hypo	Normal	0.007	mg/L	
WEL-07-0021	6/25/2020	2857	28570004	2857 MonLow blank	Field Blank	0.002	mg/L	
WEL-07-0021	6/25/2020	2857	28571004	2857 MonLow epi	Normal	0.002	mg/L	
WEL-07-0021	6/25/2020	2857	28572004	2857 MonLow hypo	Normal	0.004	mg/L	
WEL-07-0021	7/27/2020	2919	29191004	2919 MonLow epi	Normal	0.002	mg/L	
WEL-07-0021	7/27/2020	2919	29192004	2919 MonLow hypo	Normal	0.12	mg/L	
WEL-07-0021	7/27/2020	2919	29192004	2919 MonLow hypo SPL	Duplicate	0.122	mg/L	
WEL-07-0021	8/28/2020	2941	29410004	2941 MonLow blank	Field Blank	0.003	mg/L	
WEL-07-0021	8/28/2020	2941	29411004	2941 MonLow epi	Normal	0.004	mg/L	
WEL-07-0021	8/28/2020	2941	29412004	2941 MonLow hypo	Normal	0.062	mg/L	
WEL-07-0021	9/23/2020	2944	29440004	2944 MonLow BLNK	Field Blank	<0.002	mg/L	U
WEL-07-0021	9/23/2020	2944	29441004	2944 MonLow EPI	Normal	0.003	mg/L	
WEL-07-0021	9/23/2020	2944	29442004	2944 MonLow hypo	Normal	0.007	mg/L	
WEL-07-0021	10/26/2020	2946	29460004	2946 MonLow blank	Field Blank	<0.002	mg/L	U
WEL-07-0021	10/26/2020	2946	29461004	2946 MonLow epi	Normal	0.003	mg/L	
WEL-08-0036	4/22/2020	0111	01110004	0111 LMOOut blink 4.22	Field Blank	<0.002	mg/L	U
WEL-08-0036	4/22/2020	0111	01114004	0111 LMOOut 4.22	Normal	0.01	mg/L	
WEL-08-0036	5/27/2020	0111	01110004	0111 LMOOut Blnk 5.27	Field Blank	<0.002	mg/L	U

Soluble Reactive Phosphorus (SRP) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-08-0036	5/27/2020	0111	01114004	0111 LMOOut 5.27	Normal	0.004	mg/L	
WEL-08-0036	6/24/2020	0111	01110004	0111 MonOut Blnk 6.24	Field Blank	0.003	mg/L	
WEL-08-0036	6/24/2020	0111	01114004	0111 MonOut 6.24	Normal	0.005	mg/L	
WEL-08-0036	7/21/2020	0111	01110004	0111 MonOut blank 7.21	Field Blank	0.002	mg/L	
WEL-08-0036	7/21/2020	0111	01114004	0111 MonOut 7.21	Normal	0.011	mg/L	
WEL-08-0036	8/27/2020	0111	01110004	0111 MonOut blank 8.27	Field Blank	0.002	mg/L	
WEL-08-0036	8/27/2020	0111	01114004	0111 MonOut 8.27	Normal	0.016	mg/L	
WEL-08-0036	9/24/2020	0111	01110004	0111 MonOut Blnk 9.24	Field Blank	0.002	mg/L	
WEL-08-0036	9/24/2020	0111	01114004	0111 MonOut 9.24	Normal	0.01	mg/L	
WEL-08-0036	10/22/2020	0111	01110004	0111 MonOut blank 10.22	Field Blank	0.002	mg/L	
WEL-08-0036	10/22/2020	0111	01114004	0111 MonOut 10.22	Normal	0.006	mg/L	
WEL-08-0036	11/19/2020	0111	01110004	0111 MonOut blank 11.19	Field Blank	0.002	mg/L	
WEL-08-0036	11/19/2020	0111	01114004	0111 MonOut 11.19	Normal	0.004	mg/L	
WEL-08-0036	12/16/2020	0111	01114004	0111 MonOut	Normal	0.002	mg/L	
WEL-08-0036	12/16/2020	0111	01110004	0111 MonOut blank	Field Blank	<0.002	mg/L	U
WEL-08-0036	1/25/2021	0111	01114004	0111 MonOut	Normal	0.003	mg/L	
WEL-08-0036	1/25/2021	0111	01110004	0111 MonOut blank	Field Blank	0.002	mg/L	
WEL-08-0036	2/25/2021	0111	01114004	0111 MonOut	Normal	0.004	mg/L	
WEL-08-0036	2/25/2021	0111	01110004	0111 MonOut blank	Field Blank	0.003	mg/L	
WEL-08-0036	3/18/2021	0111	01114004	0111 MonOut	Normal	0.003	mg/L	
WEL-08-0036	3/18/2021	0111	01110004	0111 MonOut blank	Field Blank	0.002	mg/L	

Nitrate (NO3) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-04-0004	4/22/2020	0914	09144003	0914 SForkStCk 4.22	Normal	0.185	mg/L	
WEL-04-0004	5/27/2020	0914	09144003	0914 SForkStCk 5.27	Normal	0.377	mg/L	
WEL-04-0004	6/24/2020	0914	09144003	0914 SForkStCk 6.24	Normal	2.11	mg/L	
WEL-04-0004	6/24/2020	0914	09144003	0914 SForkStCk SPL 6.24	Split	2.119	mg/L	
WEL-04-0004	7/21/2020	0914	09144003	0914 SForkStCk 7.21	Normal	0.205	mg/L	
WEL-04-0004	8/27/2020	0914	09144003	0914 SForkStCk 8.27	Normal	0.092	mg/L	
WEL-04-0004	9/24/2020	0914	09144003	0914 SForkStCk 9.24	Normal	<0.008	mg/L	U
WEL-04-0004	10/22/2020	0914	09144003	0914 SForkStCk 10.22	Normal	0.011	mg/L	
WEL-04-0004	11/19/2020	0914	09144003	0914 SForkStCk 11.19	Normal	0.228	mg/L	
WEL-04-0004	12/16/2020	0914	09144003	0914 SForkStCk 12.16	Normal	0.554	mg/L	
WEL-04-0004	12/16/2020	0914	09144003	0914 SForkStCk spl 12.16	Split	0.447	mg/L	
WEL-04-0004	1/25/2021	0914	09144003	0914 SForkStCk 01.25	Normal	0.669	mg/L	
WEL-04-0004	1/25/2021	0914	09144003	0914 SForkStCk spl 01.25	Split	0.71	mg/L	
WEL-04-0004	2/25/2021	0914	09144003	0914 SForkStCk	Normal	0.546	mg/L	
WEL-04-0004	2/25/2021	0914	09144003	0914 SForkStCk	Split	0.553	mg/L	
WEL-04-0004	3/18/2021	0914	09144003	0914 SForkStCk	Normal	0.493	mg/L	
WEL-05-0001	4/22/2020	0668	06684003	0668 MForkStCk 4.22	Normal	0.16	mg/L	
WEL-05-0001	4/22/2020	0668	06684103	0668 MForkStCk DUP 4.22	Duplicate	0.154	mg/L	
WEL-05-0001	5/27/2020	0668	06684003	0668 MForkStCk 5.27	Normal	0.228	mg/L	
WEL-05-0001	5/27/2020	0668	06684103	0668 MForkStCk DUP 5.27	Duplicate	0.26	mg/L	
WEL-05-0001	6/24/2020	0668	06684003	0668 MForkStCk 6.24	Normal	0.18	mg/L	
WEL-05-0001	6/24/2020	0668	06684103	0668 MForkStCk DUP 6.24	Duplicate	0.166	mg/L	
WEL-05-0001	7/21/2020	0668	06684003	0668 MForkStCk 7.21	Normal	0.087	mg/L	
WEL-05-0001	7/21/2020	0668	06684103	0668 MForkStCk DUP 7.21	Duplicate	0.101	mg/L	
WEL-05-0001	8/27/2020	0668	06684003	0668 MForkStCk 8.27	Normal	0.134	mg/L	
WEL-05-0001	8/27/2020	0668	06684103	0668 MForkStCk DUP 8.27	Duplicate	0.131	mg/L	
WEL-05-0001	9/24/2020	0668	06684003	0668 MForkStCk 9.24	Normal	<0.008	mg/L	U
WEL-05-0001	9/24/2020	0668	06684103	0668 MForkStCk DUP 9.24	Duplicate	<0.008	mg/L	U
WEL-05-0001	10/22/2020	0668	06684003	0668 MForkStCk 10.22	Normal	<0.008	mg/L	U
WEL-05-0001	10/22/2020	0668	06684103	0668 MForkStCk DUP 10.22	Duplicate	<0.008	mg/L	U
WEL-05-0001	11/19/2020	0668	06684003	0668 MForkStCk 11.19	Normal	0.098	mg/L	
WEL-05-0001	11/19/2020	0668	06684103	0668 MForkStCk DUP 11.19	Duplicate	0.098	mg/L	
WEL-05-0001	12/16/2020	0668	06684003	0668 MForkStCk 12.16	Normal	0.475	mg/L	
WEL-05-0001	12/16/2020	0668	06684103	0668 MForkStCk DUP 12.16	Duplicate	0.516	mg/L	
WEL-05-0001	1/25/2021	0668	06684003	0668 MForkStCk 01.25	Normal	0.519	mg/L	
WEL-05-0001	1/25/2021	0668	06684103	0668 MForkStCk DUP 01.25	Duplicate	0.521	mg/L	
WEL-05-0001	2/25/2021	0668	06684003	0668 MForkStCk	Normal	0.608	mg/L	
WEL-05-0001	2/25/2021	0668	06684103	0668 MForkStCk	Duplicate	0.638	mg/L	
WEL-05-0001	3/18/2021	0668	06684003	0668 MForkStCk	Normal	0.415	mg/L	
WEL-05-0001	3/18/2021	0668	06684103	0668 MForkStCk	Duplicate	0.411	mg/L	
WEL-06-0008	4/22/2020	0256	02564003	0256 NForkStCk 4.22	Normal	0.123	mg/L	
WEL-06-0008	5/27/2020	0256	02564003	0256 NForkStCk 5.27	Normal	0.268	mg/L	
WEL-06-0008	6/24/2020	0256	02564003	0256 NForkStCk 6.24	Normal	0.104	mg/L	
WEL-06-0008	7/21/2020	0256	02564003	0256 NForkStCk 7.21	Normal	0.117	mg/L	
WEL-06-0008	8/27/2020	0256	02564003	0256 NForkStCk 8.27	Normal	0.14	mg/L	
WEL-06-0008	9/24/2020	0256	02564003	0256 NForkStCk 9.24	Normal	<0.008	mg/L	U
WEL-06-0008	10/22/2020	0256	02564003	0256 NForkStCk 10.22	Normal	<0.008	mg/L	U
WEL-06-0008	10/22/2020	0256	02564003	0256 NForkStCk SPL 10.22	Duplicate	<0.008	mg/L	U
WEL-06-0008	11/19/2020	0256	02564003	0256 NForkStCk 11.19	Normal	0.455	mg/L	
WEL-06-0008	11/19/2020	0256	02564003	0256 NForkStCk SPL 11.19	Split	0.444	mg/L	
WEL-06-0008	12/16/2020	0256	02564003	0256 NForkStCk 12.16	Normal	0.7	mg/L	
WEL-06-0008	1/25/2021	0256	02564003	0256 NForkStCk 01.25	Normal	0.645	mg/L	
WEL-06-0008	2/25/2021	0256	02564003	0256 NForkStCk	Normal	0.478	mg/L	
WEL-06-0008	3/18/2021	0256	02564003	0256 NForkStCk	Normal	0.249	mg/L	
WEL-07-0018	5/26/2020	2830	28301003	2830 MonUpp epi	Normal	<0.008	mg/L	U

Nitrate (NO3) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-07-0018	6/25/2020	2855	28551003	2855 MonUpp epi	Normal	0.021	mg/L	
WEL-07-0018	6/25/2020	2855	28552003	2855 MonUpp hypo	Normal	0.024	mg/L	
WEL-07-0018	7/27/2020	2917	29171003	2917 MonUpp epi	Normal	<0.008	mg/L	U
WEL-07-0018	7/27/2020	2917	29172003	2917 MonUpp hypo	Normal	0.135	mg/L	
WEL-07-0018	8/28/2020	2939	29391003	2939 MonUpp epi	Normal	<0.008	mg/L	U
WEL-07-0018	8/28/2020	2939	29392003	2939 MonUpp hypo	Normal	0.009	mg/L	
WEL-07-0018	9/23/2020	2942	29421003	2942 MonUpp epi	Normal	0.011	mg/L	
WEL-07-0018	10/26/2020	2947	29471003	2947 MonUpp epi	Normal	0.019	mg/L	
WEL-07-0019	4/22/2020	0123	01234003	0123 CrookedCk 4.22	Normal	0.067	mg/L	
WEL-07-0019	5/27/2020	0123	01234003	0123 CrookedCk 5.27	Normal	0.145	mg/L	
WEL-07-0019	5/27/2020	0123	01234003	0123 CrookedCk SPL 5.27	Split	0.139	mg/L	
WEL-07-0019	6/24/2020	0123	01234003	0123 CrookedCk 6.24	Normal	0.2	mg/L	
WEL-07-0019	7/21/2020	0123	01234003	0123 CrookedCk 7.21	Normal	0.175	mg/L	
WEL-07-0019	8/27/2020	0123	01234003	0123 CrookedCk 8.27	Normal	0.136	mg/L	
WEL-07-0019	11/19/2020	0123	01234003	0123 CrookedCk 11.19	Normal	0.01	mg/L	
WEL-07-0019	12/16/2020	0123	01234003	0123 Crkd Ck 12.16	Normal	0.043	mg/L	
WEL-07-0019	1/25/2021	0123	01234003	0123 Crkd Ck 01.25	Normal	0.066	mg/L	
WEL-07-0019	2/25/2021	0123	01234003	0123 CrookedCk	Normal	0.241	mg/L	
WEL-07-0019	3/18/2021	0123	01234003	0123 CrookedCk	Normal	0.105	mg/L	
WEL-07-0020	5/26/2020	2831	28311003	2831 MonCen epi	Normal	0.038	mg/L	
WEL-07-0020	5/26/2020	2831	28312003	2831 MonCen hypo	Normal	0.13	mg/L	
WEL-07-0020	5/26/2020	2831	28312103	2831 MonCen hypo DUP	Duplicate	0.12	mg/L	
WEL-07-0020	6/25/2020	2856	28561003	2856 MonCen epi	Normal	0.024	mg/L	
WEL-07-0020	6/25/2020	2856	28562003	2856 MonCen hypo	Normal	0.025	mg/L	
WEL-07-0020	6/25/2020	2856	28562103	2856 MonCen hypo DUP	Duplicate	0.026	mg/L	
WEL-07-0020	7/27/2020	2918	29181003	2918 MonCen epi	Normal	<0.008	mg/L	U
WEL-07-0020	7/27/2020	2918	29182003	2918 MonCen hypo	Normal	<0.008	mg/L	U
WEL-07-0020	7/27/2020	2918	29182103	2918 MonCen hypo DUP	Duplicate	<0.008	mg/L	U
WEL-07-0020	8/28/2020	2940	29401003	2940 MonCen epi	Normal	<0.008	mg/L	U
WEL-07-0020	8/28/2020	2940	29402003	2940 MonCen hypo	Normal	<0.008	mg/L	U
WEL-07-0020	8/28/2020	2940	29402103	2940 MonCen hypo DUP	Duplicate	0.011	mg/L	
WEL-07-0020	9/23/2020	2943	29431003	2943 MonCen epi	Normal	<0.008	mg/L	U
WEL-07-0020	10/26/2020	2945	29451003	2945 MonCen epi	Normal	0.034	mg/L	
WEL-07-0021	5/26/2020	2832	28320003	2832 MonLow blank	Field Blank	<0.008	mg/L	U
WEL-07-0021	5/26/2020	2832	28321003	2832 MonLow epi	Normal	0.12	mg/L	
WEL-07-0021	5/26/2020	2832	28322003	2832 MonLow hypo	Normal	0.295	mg/L	
WEL-07-0021	5/26/2020	2832	28322003	2832 MonLow hypo SPL	Split	0.254	mg/L	
WEL-07-0021	6/25/2020	2857	28570003	2857 MonLow blank	Field Blank	0.02	mg/L	
WEL-07-0021	6/25/2020	2857	28571003	2857 MonLow epi	Normal	0.019	mg/L	
WEL-07-0021	6/25/2020	2857	28572003	2857 MonLow hypo	Normal	0.034	mg/L	
WEL-07-0021	6/25/2020	2857	28572003	2857 MonLow hypo SPL	Split	0.032	mg/L	
WEL-07-0021	7/27/2020	2919	29191003	2919 MonLow epi	Normal	<0.008	mg/L	U
WEL-07-0021	7/27/2020	2919	29192003	2919 MonLow hypo	Normal	0.016	mg/L	
WEL-07-0021	7/27/2020	2919	29192003	2919 MonLow hypo SPL	Split	0.017	mg/L	
WEL-07-0021	8/28/2020	2941	29410003	2941 MonLow blank	Field Blank	0.011	mg/L	
WEL-07-0021	8/28/2020	2941	29411003	2941 MonLow epi	Normal	<0.008	mg/L	U
WEL-07-0021	8/28/2020	2941	29412003	2941 MonLow hypo	Normal	<0.008	mg/L	U
WEL-07-0021	8/28/2020	2941	29412003	2941 MonLow hypo SPL	Split	0.008	mg/L	
WEL-07-0021	9/23/2020	2944	29440003	2944 MonLow BLNK RR	Field Blank	<0.008	mg/L	U
WEL-07-0021	9/23/2020	2944	29441003	2944 MonLow EPI RR	Normal	<0.008	mg/L	U
WEL-07-0021	9/23/2020	2944	29442003	2944 MonLow HYPO RR	Normal	<0.008	mg/L	U
WEL-07-0021	10/26/2020	2946	29460003	2946 MonLow blank	Field Blank	<0.008	mg/L	U
WEL-07-0021	10/26/2020	2946	29461003	2946 MonLow epi	Normal	0.093	mg/L	

Nitrate (NO3) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-08-0036	4/22/2020	0111	01110003	0111 MonOut blank 4.22	Field Blank	0.024	mg/L	
WEL-08-0036	4/22/2020	0111	01114003	0111 MonOut 4.22	Normal	0.308	mg/L	
WEL-08-0036	5/27/2020	0111	01110003	0111 MonOut blank 5.27	Field Blank	0.024	mg/L	
WEL-08-0036	5/27/2020	0111	01114003	0111 MonOut 5.27	Normal	0.201	mg/L	
WEL-08-0036	6/24/2020	0111	01110003	0111 MonOut blank 6.24	Field Blank	0.028	mg/L	
WEL-08-0036	6/24/2020	0111	01114003	0111 MonOut 6.24	Normal	0.052	mg/L	
WEL-08-0036	7/21/2020	0111	01110003	0111 MonOut blank 7.21	Field Blank	<0.008	mg/L	U
WEL-08-0036	7/21/2020	0111	01114003	0111 MonOut epi 7.21	Normal	<0.008	mg/L	U
WEL-08-0036	8/27/2020	0111	01110003	0111 MonOut blank 8.27	Field Blank	<0.008	mg/L	U
WEL-08-0036	8/27/2020	0111	01114003	0111 MonOut 8.27	Normal	0.015	mg/L	
WEL-08-0036	9/24/2020	0111	01110003	0111 MonOut 9.24	Normal	<0.009	mg/L	U
WEL-08-0036	9/24/2020	0111	01110003	0111 MonOut blank 9.24	Field Blank	<0.008	mg/L	U
WEL-08-0036	9/24/2020	0111	01110003	0111 MonOut SPL 9.24	Split	<0.010	mg/L	U
WEL-08-0036	10/22/2020	0111	01110003	0111 MonOut 10.22	Normal	0.081	mg/L	
WEL-08-0036	10/22/2020	0111	01114003	0111 MonOut blank 10.22	Field Blank	<0.008	mg/L	U
WEL-08-0036	11/19/2020	0111	01110003	0111 MonOut blank 11.19	Field Blank	<0.008	mg/L	U
WEL-08-0036	11/19/2020	0111	01114003	0111 MonOut 11.19	Normal	0.087	mg/L	
WEL-08-0036	12/16/2020	0111	01114003	0111 MonOut 12.16	Normal	0.071	mg/L	
WEL-08-0036	12/16/2020	0111	01110003	0111 MonOut BLNK 12.16	Field Blank	<0.008	mg/L	U
WEL-08-0036	1/25/2021	0111	01114003	0111 MonOut 01.25	Normal	0.071	mg/L	
WEL-08-0036	1/25/2021	0111	01110003	0111 MonOut BLNK 01.25	Field Blank	<0.008	mg/L	U
WEL-08-0036	2/25/2021	0111	01114003	0111 MonOut	Normal	0.153	mg/L	
WEL-08-0036	2/25/2021	0111	01110003	0111 MonOut blank	Field Blank	<0.008	mg/L	U
WEL-08-0036	3/18/2021	0111	01114003	0111 MonOut	Normal	0.175	mg/L	
WEL-08-0036	3/18/2021	0111	01110003	0111 MonOut blank	Field Blank	0.013	mg/L	

Ammonia (NH3) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-04-0004	4/22/2020	0914	09144003	0914 SForkStCk 4.22	Normal	<0.014	mg/L	U
WEL-04-0004	5/27/2020	0914	09144003	0914 SForkStCk 5.27	Normal	0.044	mg/L	
WEL-04-0004	6/24/2020	0914	09144003	0914 SForkStCk 6.24	Normal	0.419	mg/L	
WEL-04-0004	6/24/2020	0914	09144003	0914 SForkStCk SPL 6.24	Split	0.405	mg/L	
WEL-04-0004	7/21/2020	0914	09144003	0914 SForkStCk 7.21	Normal	0.1	mg/L	
WEL-04-0004	8/27/2020	0914	09144003	0914 SForkStCk 8.27	Normal	0.075	mg/L	
WEL-04-0004	9/24/2020	0914	09144003	0914 SForkStCk 9.24	Normal	0.093	mg/L	
WEL-04-0004	10/22/2020	0914	09144003	0914 SForkStCk 10.22	Normal	0.034	mg/L	
WEL-04-0004	11/19/2020	0914	09144003	0914 SForkStCk 11.19	Normal	0.027	mg/L	
WEL-04-0004	12/16/2020	0914	09144003	0914 SForkStCk 12.16	Normal	0.032	mg/L	
WEL-04-0004	12/16/2020	0914	09144003	0914 SForkStCk spl 12.16	Split	0.033	mg/L	
WEL-04-0004	1/25/2021	0914	09144003	0914 SForkStCk 01.25	Normal	0.049	mg/L	
WEL-04-0004	1/25/2021	0914	09144003	0914 SForkStCk spl 01.25	Split	0.048	mg/L	
WEL-04-0004	2/25/2021	0914	09144003	0914 SForkStCk	Normal	<0.014	mg/L	U
WEL-04-0004	2/25/2021	0914	09144003	0914 SForkStCk	Split	0.014	mg/L	
WEL-04-0004	3/18/2021	0914	09144003	0914 SForkStCk	Normal	0.024	mg/L	
WEL-05-0001	4/22/2020	0668	06684003	0668 MForkStCk 4.22	Normal	<0.014	mg/L	U
WEL-05-0001	4/22/2020	0668	06684103	0668 MForkStCk DUP 4.22	Duplicate	<0.014	mg/L	U
WEL-05-0001	5/27/2020	0668	06684003	0668 MForkStCk 5.27	Normal	<0.014	mg/L	U
WEL-05-0001	5/27/2020	0668	06684103	0668 MForkStCk DUP 5.27	Duplicate	<0.014	mg/L	U
WEL-05-0001	6/24/2020	0668	06684003	0668 MForkStCk 6.24	Normal	0.115	mg/L	
WEL-05-0001	6/24/2020	0668	06684103	0668 MForkStCk DUP 6.24	Duplicate	0.1	mg/L	
WEL-05-0001	7/21/2020	0668	06684003	0668 MForkStCk 7.21	Normal	0.086	mg/L	
WEL-05-0001	7/21/2020	0668	06684103	0668 MForkStCk DUP 7.21	Duplicate	0.125	mg/L	
WEL-05-0001	8/27/2020	0668	06684003	0668 MForkStCk 8.27	Normal	0.095	mg/L	
WEL-05-0001	8/27/2020	0668	06684103	0668 MForkStCk DUP 8.27	Duplicate	0.061	mg/L	
WEL-05-0001	9/24/2020	0668	06684003	0668 MForkStCk 9.24	Normal	0.062	mg/L	
WEL-05-0001	9/24/2020	0668	06684103	0668 MForkStCk DUP 9.24	Duplicate	0.058	mg/L	
WEL-05-0001	10/22/2020	0668	06684003	0668 MForkStCk 10.22	Normal	0.014	mg/L	
WEL-05-0001	10/22/2020	0668	06684103	0668 MForkStCk DUP 10.22	Duplicate	<0.014	mg/L	U
WEL-05-0001	11/19/2020	0668	06684003	0668 MForkStCk 11.19	Normal	0.014	mg/L	
WEL-05-0001	11/19/2020	0668	06684103	0668 MForkStCk DUP 11.19	Duplicate	<0.014	mg/L	U
WEL-05-0001	12/16/2020	0668	06684003	0668 MForkStCk 12.16	Normal	0.017	mg/L	
WEL-05-0001	12/16/2020	0668	06684103	0668 MForkStCk DUP 12.16	Duplicate	0.021	mg/L	
WEL-05-0001	1/25/2021	0668	06684003	0668 MForkStCk 01.25	Normal	0.03	mg/L	
WEL-05-0001	1/25/2021	0668	06684103	0668 MForkStCk DUP 01.25	Duplicate	0.03	mg/L	
WEL-05-0001	2/25/2021	0668	06684003	0668 MForkStCk	Normal	0.045	mg/L	
WEL-05-0001	2/25/2021	0668	06684103	0668 MForkStCk	Duplicate	0.047	mg/L	
WEL-05-0001	3/18/2021	0668	06684003	0668 MForkStCk	Normal	0.017	mg/L	
WEL-05-0001	3/18/2021	0668	06684103	0668 MForkStCk	Duplicate	0.025	mg/L	
WEL-06-0008	4/22/2020	0256	02564003	0256 NForkStCk 4.22	Normal	<0.014	mg/L	U
WEL-06-0008	5/27/2020	0256	02564003	0256 NForkStCk 5.27	Normal	<0.014	mg/L	U
WEL-06-0008	6/24/2020	0256	02564003	0256 NForkStCk 6.24	Normal	0.125	mg/L	
WEL-06-0008	7/21/2020	0256	02564003	0256 NForkStCk 7.21	Normal	0.036	mg/L	
WEL-06-0008	8/27/2020	0256	02564003	0256 NForkStCk 8.27	Normal	0.034	mg/L	
WEL-06-0008	9/24/2020	0256	02564003	0256 NForkStCk 9.24	Normal	<0.014	mg/L	U
WEL-06-0008	10/22/2020	0256	02564003	0256 NForkStCk 10.22	Normal	<0.014	mg/L	U
WEL-06-0008	10/22/2020	0256	02564003	0256 NForkStCk SPL 10.22	Split	<0.014	mg/L	U
WEL-06-0008	11/19/2020	0256	02564003	0256 NForkStCk 11.19	Normal	<0.014	mg/L	U
WEL-06-0008	11/19/2020	0256	02564003	0256 NForkStCk SPL 11.19	Split	<0.014	mg/L	U
WEL-06-0008	12/16/2020	0256	02564003	0256 NForkStCk 12.16	Normal	<0.014	mg/L	U
WEL-06-0008	1/25/2021	0256	02564003	0256 NForkStCk 01.25	Normal	0.067	mg/L	
WEL-06-0008	2/25/2021	0256	02564003	0256 NForkStCk	Normal	0.084	mg/L	
WEL-06-0008	3/18/2021	0256	02564003	0256 NForkStCk	Normal	0.048	mg/L	
WEL-07-0018	5/26/2020	2830	28301003	2830 MonUpp epi	Normal	0.024	mg/L	

Ammonia (NH3) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-07-0018	6/25/2020	2855	28551003	2855 MonUpp epi	Normal	0.052	mg/L	
WEL-07-0018	6/25/2020	2855	28552003	2855 MonUpp hypo	Normal	0.112	mg/L	
WEL-07-0018	7/27/2020	2917	29171003	2917 MonUpp epi	Normal	<0.014	mg/L	U
WEL-07-0018	7/27/2020	2917	29172003	2917 MonUpp hypo	Normal	0.346	mg/L	
WEL-07-0018	8/28/2020	2939	29391003	2939 MonUpp epi	Normal	<0.014	mg/L	U
WEL-07-0018	8/28/2020	2939	29392003	2939 MonUpp hypo	Normal	0.298	mg/L	
WEL-07-0018	9/23/2020	2942	29421003	2942 MonUpp epi	Normal	<0.014	mg/L	U
WEL-07-0018	10/26/2020	2947	29471003	2947 MonUpp epi	Normal	0.023	mg/L	
WEL-07-0019	4/22/2020	0123	01234003	0123 CrookedCk 4.22	Normal	<0.014	mg/L	U
WEL-07-0019	5/27/2020	0123	01234003	0123 CrookedCk 5.27	Normal	<0.014	mg/L	U
WEL-07-0019	5/27/2020	0123	01234003	0123 CrookedCk SPL 5.27	Split	<0.014	mg/L	U
WEL-07-0019	6/24/2020	0123	01234003	0123 CrookedCk 6.24	Normal	0.04	mg/L	
WEL-07-0019	7/21/2020	0123	01234003	0123 CrookedCk 7.21	Normal	<0.014	mg/L	U
WEL-07-0019	8/27/2020	0123	01234003	0123 CrookedCk 8.27	Normal	<0.014	mg/L	U
WEL-07-0019	11/19/2020	0123	01234003	0123 CrookedCk 11.19	Normal	<0.014	mg/L	U
WEL-07-0019	12/16/2020	0123	01234003	0123 Crkd Ck 12.16	Normal	<0.014	mg/L	U
WEL-07-0019	1/25/2021	0123	01234003	0123 Crkd Ck 01.25	Normal	<0.014	mg/L	U
WEL-07-0019	2/25/2021	0123	01234003	0123 CrookedCk	Normal	0.024	mg/L	
WEL-07-0019	3/18/2021	0123	01234003	0123 CrookedCk	Normal	<0.014	mg/L	U
WEL-07-0020	5/26/2020	2831	28311003	2831 MonCen epi	Normal	0.022	mg/L	
WEL-07-0020	5/26/2020	2831	28312003	2831 MonCen hypo	Normal	0.036	mg/L	
WEL-07-0020	5/26/2020	2831	28312103	2831 MonCen hypo DUP	Duplicate	0.029	mg/L	
WEL-07-0020	6/25/2020	2856	28561003	2856 MonCen epi	Normal	<0.014	mg/L	U
WEL-07-0020	6/25/2020	2856	28562003	2856 MonCen hypo	Normal	<0.014	mg/L	U
WEL-07-0020	6/25/2020	2856	28562103	2856 MonCen hypo DUP	Duplicate	<0.014	mg/L	U
WEL-07-0020	7/27/2020	2918	29181003	2918 MonCen epi	Normal	0.017	mg/L	
WEL-07-0020	7/27/2020	2918	29182003	2918 MonCen hypo	Normal	<0.014	mg/L	U
WEL-07-0020	7/27/2020	2918	29182103	2918 MonCen hypo DUP	Duplicate	<0.014	mg/L	U
WEL-07-0020	8/28/2020	2940	29401003	2940 MonCen epi	Normal	0.018	mg/L	
WEL-07-0020	8/28/2020	2940	29402003	2940 MonCen hypo	Normal	0.03	mg/L	
WEL-07-0020	8/28/2020	2940	29402103	2940 MonCen hypo DUP	Duplicate	0.061	mg/L	
WEL-07-0020	9/23/2020	2943	29431003	2943 MonCen epi	Normal	<0.014	mg/L	U
WEL-07-0020	10/26/2020	2945	29451003	2945 MonCen epi	Normal	0.029	mg/L	
WEL-07-0021	5/26/2020	2832	28320003	2832 MonLow blank	Field Blank	0.02	mg/L	
WEL-07-0021	5/26/2020	2832	28321003	2832 MonLow epi	Normal	0.032	mg/L	
WEL-07-0021	5/26/2020	2832	28322003	2832 MonLow hypo	Normal	0.08	mg/L	
WEL-07-0021	5/26/2020	2832	28322003	2832 MonLow hypo SPL	Split	0.083	mg/L	
WEL-07-0021	6/25/2020	2857	28570003	2857 MonLow blank	Field Blank	<0.014	mg/L	U
WEL-07-0021	6/25/2020	2857	28571003	2857 MonLow epi	Normal	<0.014	mg/L	U
WEL-07-0021	6/25/2020	2857	28572003	2857 MonLow hypo	Normal	<0.014	mg/L	U
WEL-07-0021	6/25/2020	2857	28572003	2857 MonLow hypo SPL	Split	<0.014	mg/L	U
WEL-07-0021	7/27/2020	2919	29191003	2919 MonLow epi	Normal	<0.014	mg/L	U
WEL-07-0021	7/27/2020	2919	29192003	2919 MonLow hypo	Normal	0.342	mg/L	
WEL-07-0021	7/27/2020	2919	29192003	2919 MonLow hypo SPL	Split	0.338	mg/L	
WEL-07-0021	8/28/2020	2941	29410003	2941 MonLow blank	Field Blank	0.015	mg/L	
WEL-07-0021	8/28/2020	2941	29411003	2941 MonLow epi	Normal	<0.014	mg/L	U
WEL-07-0021	8/28/2020	2941	29412003	2941 MonLow hypo	Normal	0.564	mg/L	
WEL-07-0021	8/28/2020	2941	29412003	2941 MonLow hypo SPL	Split	0.571	mg/L	
WEL-07-0021	9/23/2020	2944	29440003	2944 MonLow BLNK RR	Field Blank	<0.014	mg/L	U
WEL-07-0021	9/23/2020	2944	29441003	2944 MonLow EPI RR	Normal	0.044	mg/L	
WEL-07-0021	9/23/2020	2944	29442003	2944 MonLow HYPO RR	Normal	0.8	mg/L	
WEL-07-0021	10/26/2020	2946	29460003	2946 MonLow blank	Field Blank	<0.014	mg/L	U
WEL-07-0021	10/26/2020	2946	29461003	2946 MonLow epi	Normal	0.034	mg/L	

Ammonia (NH3) Data for Lake Monroe and its Tributaries

IDEM Site Number	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-08-0036	4/22/2020	0111	01110003	0111 MonOut blank 4.22	Field Blank	<0.014	mg/L	U
WEL-08-0036	4/22/2020	0111	01114003	0111 MonOut 4.22	Normal	<0.014	mg/L	U
WEL-08-0036	5/27/2020	0111	01110003	0111 MonOut blank 5.27	Field Blank	<0.014	mg/L	U
WEL-08-0036	5/27/2020	0111	01114003	0111 MonOut 5.27	Normal	<0.014	mg/L	U
WEL-08-0036	6/24/2020	0111	01110003	0111 MonOut blank 6.24	Field Blank	<0.014	mg/L	U
WEL-08-0036	6/24/2020	0111	01114003	0111 MonOut 6.24	Normal	0.066	mg/L	
WEL-08-0036	7/21/2020	0111	01110003	0111 MonOut blank 7.21	Field Blank	<0.014	mg/L	U
WEL-08-0036	7/21/2020	0111	01114003	0111 MonOut epi 7.21	Normal	0.035	mg/L	
WEL-08-0036	8/27/2020	0111	01110003	0111 MonOut blank 8.27	Field Blank	<0.014	mg/L	U
WEL-08-0036	8/27/2020	0111	01114003	0111 MonOut 8.27	Normal	0.09	mg/L	
WEL-08-0036	9/24/2020	0111	01110003	0111 MonOut 9.24	Normal	0.016	mg/L	
WEL-08-0036	9/24/2020	0111	01110003	0111 MonOut blank 9.24	Field Blank	<0.014	mg/L	U
WEL-08-0036	9/24/2020	0111	01110003	0111 MonOut SPL 9.24	Split	0.016	mg/L	
WEL-08-0036	10/22/2020	0111	01110003	0111 MonOut 10.22	Normal	0.046	mg/L	
WEL-08-0036	10/22/2020	0111	01114003	0111 MonOut blank 10.22	Field Blank	<0.014	mg/L	U
WEL-08-0036	11/19/2020	0111	01110003	0111 MonOut blank 11.19	Field Blank	<0.014	mg/L	U
WEL-08-0036	11/19/2020	0111	01114003	0111 MonOut 11.19	Normal	<0.014	mg/L	U
WEL-08-0036	12/16/2020	0111	01114003	0111 MonOut 12.16	Normal	0.038	mg/L	
WEL-08-0036	12/16/2020	0111	01110003	0111 MonOut BLNK 12.16	Field Blank	<0.014	mg/L	U
WEL-08-0036	1/25/2021	0111	01114003	0111 MonOut 01.25	Normal	0.019	mg/L	
WEL-08-0036	1/25/2021	0111	01110003	0111 MonOut BLNK 01.25	Field Blank	<0.014	mg/L	U
WEL-08-0036	2/25/2021	0111	01114003	0111 MonOut	Normal	<0.014	mg/L	U
WEL-08-0036	2/25/2021	0111	01110003	0111 MonOut blank	Field Blank	<0.014	mg/L	U
WEL-08-0036	3/18/2021	0111	01114003	0111 MonOut	Normal	<0.014	mg/L	U
WEL-08-0036	3/18/2021	0111	01110003	0111 MonOut blank	Field Blank	<0.014	mg/L	U

Total Nitrogen (TN) Data for Lake Monroe and its Tributaries

IDEM Site Num	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-04-0004	4/22/2020	0914	09144005	0914 SForkStCk	Normal	0.319	mg/L	
WEL-04-0004	5/27/2020	0914	09144005	0914 SForkStCk	Normal	0.719	mg/L	
WEL-04-0004	6/24/2020	0914	09144005	0914 SForkStCk 6.24	Normal	3.379	mg/L	
WEL-04-0004	7/21/2020	0914	09144005	0914 SForkStCk 7.21	Normal	0.604	mg/L	
WEL-04-0004	8/27/2020	0914	09144005	0914 SForkStCk 8.27	Normal	0.429	mg/L	
WEL-04-0004	8/27/2020	0914	09144005	0914 SForkStCk DGSPL 8.27	Duplicate	0.393	mg/L	
WEL-04-0004	9/24/2020	0914	09144005	0914 SForkStCk 9.24	Normal	0.459	mg/L	
WEL-04-0004	9/24/2020	0914	09144005	0914 SForkStCk 9.24 SPL	Split	0.464	mg/L	
WEL-04-0004	10/22/2020	0914	09144005	0914 SForkStCk	Normal	0.513	mg/L	
WEL-04-0004	11/19/2020	0914	09144005	0914 SForkStCk	Normal	0.257	mg/L	
WEL-04-0004	11/19/2020	0914	09144005	0914 SForkStCk	DigSplit	0.264	mg/L	
WEL-04-0004	12/16/2020	0914	09144005	0914 SForkStCk	Normal	0.599	mg/L	
WEL-04-0004	12/16/2020	0914	09144005	0914 SForkStCk	Split	0.592	mg/L	
WEL-04-0004	1/25/2021	0914	09144005	0914 SForkStCk	Normal	0.749	mg/L	
WEL-04-0004	2/25/2021	0914	09144005	0914 SForkStCk	Normal	0.865	mg/L	
WEL-04-0004	3/18/2021	0914	09144005	0914 SForkStCk	Normal	0.64	mg/L	
WEL-05-0001	4/22/2020	0668	06684005	0668 MForkStCk	Normal	0.237	mg/L	
WEL-05-0001	4/22/2020	0668	06684105	0668 MForkStCk	Duplicate	0.224	mg/L	
WEL-05-0001	5/27/2020	0668	06684005	0668 MForkStCk	Normal	0.396	mg/L	
WEL-05-0001	5/27/2020	0668	06684105	0668 MForkStCk	Duplicate	0.422	mg/L	
WEL-05-0001	6/24/2020	0668	06684005	0668 MForkStCk 6.24	Normal	0.449	mg/L	
WEL-05-0001	6/24/2020	0668	06684105	0668 MForkStCk DUP 6.24	Duplicate	0.438	mg/L	
WEL-05-0001	7/21/2020	0668	06684005	0668 MForkStCk 7.21	Normal	0.443	mg/L	
WEL-05-0001	7/21/2020	0668	06684105	0668 MForkStCk DUP 7.21	Duplicate	0.407	mg/L	
WEL-05-0001	8/27/2020	0668	06684005	0668 MForkStCk 8.27	Normal	0.363	mg/L	
WEL-05-0001	8/27/2020	0668	06684105	0668 MForkStCk DUP 8.27	Duplicate	0.317	mg/L	
WEL-05-0001	9/24/2020	0668	06684005	0668 MForkStCk 9.24	Normal	0.263	mg/L	
WEL-05-0001	9/24/2020	0668	06684105	0668 MForkStCk 9.24 DUP	Duplicate	0.247	mg/L	
WEL-05-0001	10/22/2020	0668	06684105	0668 MForkStCk	Duplicate	0.473	mg/L	
WEL-05-0001	10/22/2020	0668	06684005	0668 MForkStCk	Normal	0.428	mg/L	
WEL-05-0001	11/19/2020	0668	06684005	0668 MForkStCk	Normal	0.19	mg/L	
WEL-05-0001	11/19/2020	0668	06684105	0668 MForkStCk	Duplicate	0.105	mg/L	
WEL-05-0001	12/16/2020	0668	06684005	0668 MForkStCk	Normal	0.554	mg/L	
WEL-05-0001	12/16/2020	0668	06684105	0668 MForkStCk	Duplicate	0.568	mg/L	
WEL-05-0001	1/25/2021	0668	06684005	0668 MForkStCk	Normal	0.402	mg/L	
WEL-05-0001	1/25/2021	0668	06684105	0668 MForkStCk	Duplicate	0.531	mg/L	
WEL-05-0001	2/25/2021	0668	06684005	0668 MForkStCk	Normal	0.789	mg/L	
WEL-05-0001	2/25/2021	0668	06684105	0668 MForkStCk	Duplicate	0.771	mg/L	
WEL-05-0001	3/18/2021	0668	06684005	0668 MForkStCk	Normal	0.554	mg/L	
WEL-05-0001	3/18/2021	0668	06684105	0668 MForkStCk	Duplicate	0.572	mg/L	
WEL-06-0008	4/22/2020	0256	02564005	0256 NForkStCk	Normal	0.194	mg/L	
WEL-06-0008	5/27/2020	0256	02564005	0256 NForkStCk	Normal	0.399	mg/L	
WEL-06-0008	5/27/2020	0256	02564005	0256 NForkStCk	Duplicate	0.393	mg/L	
WEL-06-0008	6/24/2020	0256	02564005	0256 NForkStCk 6.24	Normal	0.554	mg/L	
WEL-06-0008	7/21/2020	0256	02564005	0256 NForkStCk 7.21	Normal	0.436	mg/L	
WEL-06-0008	7/21/2020	0256	02564005	0256 NForkStCk DGSPL 7.21	Duplicate	0.407	mg/L	
WEL-06-0008	8/27/2020	0256	02564005	0256 NForkStCk 8.27	Normal	0.376	mg/L	
WEL-06-0008	8/27/2020	0256	02564005	0256 NForkStCk 8.27 SPL	Split	0.361	mg/L	
WEL-06-0008	9/24/2020	0256	02564005	0256 NForkStCk 9.24	Normal	0.251	mg/L	
WEL-06-0008	10/22/2020	0256	02564005	0256 NForkStCk	Normal	0.358	mg/L	
WEL-06-0008	10/22/2020	0256	02564005	0256 NForkStCk	Split	0.356	mg/L	
WEL-06-0008	11/19/2020	0256	02564005	0256 NForkStCk	Normal	0.331	mg/L	
WEL-06-0008	11/19/2020	0256	02564005	0256 NForkStCk	Split	0.331	mg/L	
WEL-06-0008	12/16/2020	0256	02564005	0256 NForkStCk	Normal	0.693	mg/L	
WEL-06-0008	1/25/2021	0256	02564005	0256 NForkStCk	Normal	0.603	mg/L	

Total Nitrogen (TN) Data for Lake Monroe and its Tributaries

IDEM Site Num	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-06-0008	2/25/2021	0256	02564005	0256 NForkStCk	Normal	0.679	mg/L	
WEL-06-0008	2/25/2021	0256	02564005	0256 NForkStCk	Split	0.687	mg/L	
WEL-06-0008	3/18/2021	0256	02564005	0256 NForkStCk	Normal	0.522	mg/L	
WEL-06-0008	3/18/2021	0256	02564005	0256 NForkStCk	Split	0.543	mg/L	
WEL-07-0018	5/26/2020	2830	28301005	2830 MonUpp epi	Normal	0.377	mg/L	
WEL-07-0018	6/25/2020	2855	28552005	2855 MonUpp hypo	Normal	0.437	mg/L	
WEL-07-0018	6/25/2020	2855	28552005	2855 MonUpp hypo DGSP	DigSplit	0.456	mg/L	
WEL-07-0018	6/25/2020	2855	28551005	2855 MonUpp epi	Normal	0.431	mg/L	
WEL-07-0018	7/27/2020	2917	29171005	2917 MonUpp epi	Normal	0.349	mg/L	
WEL-07-0018	7/27/2020	2917	29172005	2917 MonUpp hypo	Normal	0.936	mg/L	
WEL-07-0018	8/28/2020	2939	29391005	2939 MonUpp epi	Normal	0.649	mg/L	
WEL-07-0018	8/28/2020	2939	29392005	2939 MonUpp hypo	Normal	0.784	mg/L	
WEL-07-0018	9/23/2020	2942	29421005	2942 MonUpp epi	Normal	0.7	mg/L	
WEL-07-0018	10/26/2020	2947	29471005	2947 MonUpp epi	Normal	0.51	mg/L	
WEL-07-0019	4/22/2020	0123	01234005	0123 CrookedCk	Normal	<0.1	mg/L	U
WEL-07-0019	5/27/2020	0123	01234005	0123 CrookedCk	Normal	0.171	mg/L	
WEL-07-0019	5/27/2020	0123	01234005	0123 CrookedCk	Split	0.172	mg/L	
WEL-07-0019	6/24/2020	0123	01234005	0123 CrookedCk 6.24	Normal	0.328	mg/L	
WEL-07-0019	7/21/2020	0123	01234005	0123 CrookedCk 7.21	Normal	0.301	mg/L	
WEL-07-0019	7/21/2020	0123	01234005	0123 CrookedCk SPL 7.21	Split	0.302	mg/L	
WEL-07-0019	8/27/2020	0123	01234005	0123 CrookedCk 8.27	Normal	0.252	mg/L	
WEL-07-0019	11/19/2020	0123	01234005	0123 CrookedCk	Normal	<0.1	mg/L	U
WEL-07-0019	12/16/2020	0123	01234005	0123 CrookedCk	Normal	<0.1	mg/L	U
WEL-07-0019	1/25/2021	0123	01234005	0123 CrookedCk	Normal	<0.1	mg/L	U
WEL-07-0019	1/25/2021	0123	01234005	0123 CrookedCk	DigSplit	<0.1	mg/L	U
WEL-07-0019	2/25/2021	0123	01234005	0123 CrookedCk	Normal	0.407	mg/L	
WEL-07-0019	3/18/2021	0123	01234005	0123 CrookedCk	Normal	0.201	mg/L	
WEL-07-0019	3/18/2021	0123	01234005	0123 CrookedCk	DigSplit	0.203	mg/L	
WEL-07-0020	5/26/2020	2831	28311005	2831 MonCen epi	Normal	0.352	mg/L	
WEL-07-0020	5/26/2020	2831	28312005	2831 MonCen hypo	Normal	0.394	mg/L	
WEL-07-0020	5/26/2020	2831	28312105	2831 MonCen hypo	Duplicate	0.381	mg/L	
WEL-07-0020	6/25/2020	2856	28561005	2856 MonCen epi	Normal	0.394	mg/L	
WEL-07-0020	6/25/2020	2856	28562005	2856 MonCen hypo	Normal	0.288	mg/L	
WEL-07-0020	6/25/2020	2856	28562105	2856 MonCen hypo DUP	Duplicate	0.296	mg/L	
WEL-07-0020	7/27/2020	2918	29182005	2918 MonCen hypo	Normal	0.226	mg/L	
WEL-07-0020	7/27/2020	2918	29182105	2918 MonCen hypo	Duplicate	0.216	mg/L	
WEL-07-0020	7/27/2020	2918	29181005	2918 MonCen epi	Normal	0.267	mg/L	
WEL-07-0020	7/27/2020	2918	29181005	2918 MonCen epi	Split	0.272	mg/L	
WEL-07-0020	8/28/2020	2940	29401005	2940 MonCen epi	Normal	0.32	mg/L	
WEL-07-0020	8/28/2020	2940	29402005	2940 MonCen hypo	Normal	0.281	mg/L	
WEL-07-0020	8/28/2020	2940	29402105	2940 MonCen hypo	Duplicate	0.208	mg/L	
WEL-07-0020	9/23/2020	2943	29431005	2943 MonCen epi	Normal	0.334	mg/L	
WEL-07-0020	10/26/2020	2945	29451005	2945 MonCen epi	Normal	0.422	mg/L	
WEL-07-0021	5/26/2020	2832	28320005	2832 MonLow blank	Field Blank	<0.1	mg/L	U
WEL-07-0021	5/26/2020	2832	28321005	2832 MonLow epi	Normal	0.417	mg/L	
WEL-07-0021	5/26/2020	2832	28322005	2832 MonLow hypo	Normal	0.551	mg/L	
WEL-07-0021	5/26/2020	2832	28322005	2832 MonLow hypo	DigSplit	0.545	mg/L	
WEL-07-0021	6/25/2020	2857	28570005	2857 MonLow blank	Field Blank	<0.100	mg/L	U
WEL-07-0021	6/25/2020	2857	28571005	2857 MonLow epi	Normal	0.314	mg/L	
WEL-07-0021	6/25/2020	2857	28572005	2857 MonLow hypo	Normal	0.263	mg/L	
WEL-07-0021	7/27/2020	2919	29191005	2919 MonLow epi	Normal	0.238	mg/L	
WEL-07-0021	7/27/2020	2919	29192005	2919 MonLow hypo	Normal	0.646	mg/L	
WEL-07-0021	7/27/2020	2919	29192005	2919 MonLow hypo	DigSplit	0.631	mg/L	

Total Nitrogen (TN) Data for Lake Monroe and its Tributaries

IDEM Site Num	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-07-0021	8/28/2020	2941	29410005	2941 MonLow blank	Field Blank	<0.1	mg/L	U
WEL-07-0021	8/28/2020	2941	29411005	2941 MonLow epi	Normal	0.235	mg/L	
WEL-07-0021	8/28/2020	2941	29412005	2941 MonLow hypo	Normal	0.765	mg/L	
WEL-07-0021	8/28/2020	2941	29412005	2941 MonLow hypo	Split	0.748	mg/L	
WEL-07-0021	9/23/2020	2944	29440005	2944 MonLow blank	Field Blank	<0.100	mg/L	U
WEL-07-0021	9/23/2020	2944	29440005	2944 MonLow epi	Normal	0.292	mg/L	
WEL-07-0021	9/23/2020	2944	29440005	2944 MonLow hypo	Normal	1.14	mg/L	
WEL-07-0021	10/26/2020	2946	29460005	2946 MonLow blank	Field Blank	<0.1	mg/L	U
WEL-07-0021	10/26/2020	2946	29461005	2946 MonLow epi	Normal	0.439	mg/L	
WEL-07-0021	10/26/2020	2946	29461005	2946 MonLow epi	Split	0.436	mg/L	
WEL-08-0036	4/22/2020	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	4/22/2020	0111	01114005	0111 MonOut	Normal	0.508	mg/L	
WEL-08-0036	5/27/2020	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	5/27/2020	0111	01114005	0111 MonOut	Normal	0.429	mg/L	
WEL-08-0036	6/24/2020	0111	01110005	0111 MonOut blank 6.24	Field Blank	<0.100	mg/L	U
WEL-08-0036	6/24/2020	0111	01114005	0111 MonOut 6.24	Normal	0.286	mg/L	
WEL-08-0036	7/21/2020	0111	01110005	0111 MonOut blank 7.21	Field Blank	<0.100	mg/L	U
WEL-08-0036	7/21/2020	0111	01114005	0111 MonOut 7.21	Normal	0.326	mg/L	
WEL-08-0036	8/27/2020	0111	01110005	0111 MonOut blank 8.27	Field Blank	<0.100	mg/L	U
WEL-08-0036	8/27/2020	0111	01114005	0111 MonOut 8.27	Normal	0.34	mg/L	
WEL-08-0036	9/24/2020	0111	01110005	0111 MonOut blank 9.24	Field Blank	<0.100	mg/L	U
WEL-08-0036	9/24/2020	0111	01114005	0111 MonOut 9.24	Normal	0.43	mg/L	
WEL-08-0036	9/24/2020	0111	01114005	0111 MonOut DGSPL 9.24	DigSplit	0.44	mg/L	
WEL-08-0036	10/22/2020	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	10/22/2020	0111	01114005	0111 MonOut	Normal	0.384	mg/L	
WEL-08-0036	11/19/2020	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	11/19/2020	0111	01114005	0111 MonOut	Normal	0.181	mg/L	
WEL-08-0036	12/16/2020	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	12/16/2020	0111	01114005	0111 MonOut	Normal	0.317	mg/L	
WEL-08-0036	1/25/2021	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	1/25/2021	0111	01114005	0111 MonOut	Normal	0.3	mg/L	
WEL-08-0036	2/25/2021	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	2/25/2021	0111	01114005	0111 MonOut	Normal	0.408	mg/L	
WEL-08-0036	3/18/2021	0111	01110005	0111 MonOut blank	Field Blank	<0.1	mg/L	U
WEL-08-0036	3/18/2021	0111	01114005	0111 MonOut	Normal	0.489	mg/L	

Total Phosphorus (TP) Data for Lake Monroe and its Tributaries

IDEM Site Num	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-04-0004	4/22/2020	0914	09144005	0914 SForkStCk	Normal	0.037	mg/L	
WEL-04-0004	5/27/2020	0914	09144005	0914 SForkStCk	Normal	0.041	mg/L	
WEL-04-0004	6/24/2020	0914	09144005	0914 SForkStCk 6.24	Normal	0.116	mg/L	
WEL-04-0004	7/21/2020	0914	09144005	0914 SForkStCk 7.21	Normal	0.051	mg/L	
WEL-04-0004	8/27/2020	0914	09144005	0914 SForkStCk 8.27	Normal	0.042	mg/L	
WEL-04-0004	8/27/2020	0914	09144005	0914 SForkStCk DGSPL 8.27	DigSplit	0.041	mg/L	
WEL-04-0004	9/24/2020	0914	09144005	0914 SForkStCk 9.24	Normal	0.05	mg/L	
WEL-04-0004	9/24/2020	0914	09144005	0914 SForkStCk 9.24 SPL	Split	0.046	mg/L	
WEL-04-0004	10/22/2020	0914	09144005	0914 SForkStCk	Normal	0.05	mg/L	
WEL-04-0004	11/19/2020	0914	09144005	0914 SForkStCk	Normal	0.022	mg/L	
WEL-04-0004	11/19/2020	0914	09144005	0914 SForkStCk	DigSplit	0.022	mg/L	
WEL-04-0004	12/16/2020	0914	09144005	0914 SForkStCk	Normal	0.016	mg/L	
WEL-04-0004	12/16/2020	0914	09144005	0914 SForkStCk	Split	0.017	mg/L	
WEL-04-0004	1/25/2021	0914	09144005	0914 SForkStCk	Normal	0.017	mg/L	
WEL-04-0004	2/25/2021	0914	09144005	0914 SForkStCk	Normal	0.035	mg/L	
WEL-04-0004	3/18/2021	0914	09144005	0914 SForkStCk	Normal	0.028	mg/L	
WEL-05-0001	4/22/2020	0668	06684005	0668 MForkStCk	Normal	0.012	mg/L	
WEL-05-0001	4/22/2020	0668	06684105	0668 MForkStCk	Duplicate	0.013	mg/L	
WEL-05-0001	5/27/2020	0668	06684005	0668 MForkStCk	Normal	0.024	mg/L	
WEL-05-0001	5/27/2020	0668	06684105	0668 MForkStCk	Duplicate	0.019	mg/L	
WEL-05-0001	6/24/2020	0668	06684005	0668 MForkStCk 6.24	Normal	0.05	mg/L	
WEL-05-0001	6/24/2020	0668	06684105	0668 MForkStCk DUP 6.24	Duplicate	0.03	mg/L	
WEL-05-0001	7/21/2020	0668	06684005	0668 MForkStCk 7.21	Normal	0.025	mg/L	
WEL-05-0001	7/21/2020	0668	06684105	0668 MForkStCk DUP 7.21	Duplicate	0.022	mg/L	
WEL-05-0001	8/27/2020	0668	06684005	0668 MForkStCk 8.27	Normal	0.029	mg/L	
WEL-05-0001	8/27/2020	0668	06684105	0668 MForkStCk DUP 8.27	Duplicate	0.021	mg/L	
WEL-05-0001	9/24/2020	0668	06684005	0668 MForkStCk 9.24	Normal	0.013	mg/L	
WEL-05-0001	9/24/2020	0668	06684105	0668 MForkStCk 9.24 DUP	Duplicate	0.012	mg/L	
WEL-05-0001	10/22/2020	0668	06684105	0668 MForkStCk	Duplicate	0.042	mg/L	
WEL-05-0001	10/22/2020	0668	06684005	0668 MForkStCk	Normal	0.048	mg/L	
WEL-05-0001	11/19/2020	0668	06684005	0668 MForkStCk	Normal	0.017	mg/L	
WEL-05-0001	11/19/2020	0668	06684105	0668 MForkStCk	Duplicate	0.014	mg/L	
WEL-05-0001	12/16/2020	0668	06684005	0668 MForkStCk	Normal	0.01	mg/L	
WEL-05-0001	12/16/2020	0668	06684105	0668 MForkStCk	Duplicate	0.01	mg/L	
WEL-05-0001	1/25/2021	0668	06684005	0668 MForkStCk	Normal	0.02	mg/L	
WEL-05-0001	1/25/2021	0668	06684105	0668 MForkStCk	Duplicate	0.008	mg/L	
WEL-05-0001	2/25/2021	0668	06684005	0668 MForkStCk	Normal	0.028	mg/L	
WEL-05-0001	2/25/2021	0668	06684105	0668 MForkStCk	Duplicate	0.025	mg/L	
WEL-05-0001	3/18/2021	0668	06684005	0668 MForkStCk	Normal	0.036	mg/L	
WEL-05-0001	3/18/2021	0668	06684105	0668 MForkStCk	Duplicate	0.04	mg/L	
WEL-06-0008	4/22/2020	0256	02564005	0256 NForkStCk	Normal	0.018	mg/L	
WEL-06-0008	5/27/2020	0256	02564005	0256 NForkStCk	Normal	0.021	mg/L	
WEL-06-0008	5/27/2020	0256	02564005	0256 NForkStCk	DigSplit	0.023	mg/L	
WEL-06-0008	6/24/2020	0256	02564005	0256 NForkStCk 6.24	Normal	0.028	mg/L	
WEL-06-0008	7/21/2020	0256	02564005	0256 NForkStCk 7.21	Normal	0.037	mg/L	
WEL-06-0008	7/21/2020	0256	02564005	0256 NForkStCk DGSPL 7.21	DigSplit	0.036	mg/L	
WEL-06-0008	8/27/2020	0256	02564005	0256 NForkStCk 8.27	Normal	0.022	mg/L	
WEL-06-0008	8/27/2020	0256	02564005	0256 NForkStCk 8.27 SPL	Split	0.022	mg/L	
WEL-06-0008	9/24/2020	0256	02564005	0256 NForkStCk 9.24	Normal	0.016	mg/L	
WEL-06-0008	10/22/2020	0256	02564005	0256 NForkStCk	Normal	0.036	mg/L	
WEL-06-0008	10/22/2020	0256	02564005	0256 NForkStCk	Split	0.036	mg/L	
WEL-06-0008	11/19/2020	0256	02564005	0256 NForkStCk	Normal	0.021	mg/L	
WEL-06-0008	11/19/2020	0256	02564005	0256 NForkStCk	Split	0.021	mg/L	
WEL-06-0008	12/16/2020	0256	02564005	0256 NForkStCk	Normal	0.016	mg/L	
WEL-06-0008	1/25/2021	0256	02564005	0256 NForkStCk	Normal	0.015	mg/L	

Total Phosphorus (TP) Data for Lake Monroe and its Tributaries

IDEM Site Num	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-06-0008	2/25/2021	0256	02564005	0256 NForkStCk	Normal	0.048	mg/L	
WEL-06-0008	2/25/2021	0256	02564005	0256 NForkStCk	Split	0.048	mg/L	
WEL-06-0008	3/18/2021	0256	02564005	0256 NForkStCk	Normal	0.04	mg/L	
WEL-06-0008	3/18/2021	0256	02564005	0256 NForkStCk	Split	0.04	mg/L	
WEL-07-0018	5/26/2020	2830	28301005	2830 MonUpp epi	Normal	0.02	mg/L	
WEL-07-0018	6/25/2020	2855	28551005	2855 MonUpp epi	Normal	0.029	mg/L	
WEL-07-0018	6/25/2020	2855	28552005	2855 MonUpp hypo	Normal	0.037	mg/L	
WEL-07-0018	6/25/2020	2855	28552005	2855 MonUpp hypo DG SPL	DigSplit	0.038	mg/L	
WEL-07-0018	7/27/2020	2917	29171005	2917 MonUpp epi	Normal	0.022	mg/L	
WEL-07-0018	7/27/2020	2917	29172005	2917 MonUpp hypo	Normal	0.051	mg/L	
WEL-07-0018	8/28/2020	2939	29392005	2939 MonUpp epi	Normal	0.022	mg/L	
WEL-07-0018	8/28/2020	2940	29401005	2939 MonUpp hypo	Normal	0.061	mg/L	
WEL-07-0018	9/23/2020	2942	29421005	2942 MonUpp epi	Normal	0.062	mg/L	
WEL-07-0018	10/26/2020	2947	29471005	2947 MonUpp epi	Normal	0.015	mg/L	
WEL-07-0019	4/22/2020	0123	01234005	0123 CrookedCk	Normal	0.01	mg/L	
WEL-07-0019	5/27/2020	0123	01234005	0123 CrookedCk	Normal	0.009	mg/L	
WEL-07-0019	5/27/2020	0123	01234005	0123 CrookedCk	Split	0.008	mg/L	
WEL-07-0019	6/24/2020	0123	01234005	0123 CrookedCk 6.24	Normal	0.014	mg/L	
WEL-07-0019	7/21/2020	0123	01234005	0123 CrookedCk 7.21	Normal	0.004	mg/L	
WEL-07-0019	7/21/2020	0123	01234005	0123 CrookedCk SPL 7.21	Split	0.004	mg/L	
WEL-07-0019	8/27/2020	0123	01234005	0123 CrookedCk 8.27	Normal	0.005	mg/L	
WEL-07-0019	11/19/2020	0123	01234005	0123 CrookedCk	Normal	0.007	mg/L	
WEL-07-0019	12/16/2020	0123	01234005	0123 CrookedCk	Normal	0.005	mg/L	
WEL-07-0019	1/25/2021	0123	01234005	0123 CrookedCk	Normal	0.005	mg/L	
WEL-07-0019	1/25/2021	0123	01234005	0123 CrookedCk	DigSplit	0.005	mg/L	
WEL-07-0019	2/25/2021	0123	01234005	0123 CrookedCk	Normal	0.016	mg/L	
WEL-07-0019	3/18/2021	0123	01234005	0123 CrookedCk	Normal	0.012	mg/L	
WEL-07-0019	3/18/2021	0123	01234005	0123 CrookedCk	DigSplit	0.011	mg/L	
WEL-07-0020	5/26/2020	2831	28311005	2831 MonCen epi	Normal	0.012	mg/L	
WEL-07-0020	5/26/2020	2831	28312005	2831 MonCen hypo	Normal	0.015	mg/L	
WEL-07-0020	5/26/2020	2831	28312105	2831 MonCen hypo	Duplicate	0.015	mg/L	
WEL-07-0020	6/25/2020	2856	28561005	2856 MonCen epi	Normal	0.017	mg/L	
WEL-07-0020	6/25/2020	2856	28562005	2856 MonCen hypo	Normal	0.025	mg/L	
WEL-07-0020	6/25/2020	2856	28562105	2856 MonCen hypo DUP	Duplicate	0.028	mg/L	
WEL-07-0020	7/27/2020	2918	29182005	2918 MonCen hypo	Normal	0.025	mg/L	
WEL-07-0020	7/27/2020	2918	29182105	2918 MonCen hypo	Duplicate	0.021	mg/L	
WEL-07-0020	7/27/2020	2918	29181005	2918 MonCen epi	Normal	0.017	mg/L	
WEL-07-0020	7/27/2020	2918	29181005	2918 MonCen epi	Split	0.017	mg/L	
WEL-07-0020	8/28/2020	2940	29402005	2940 MonCen epi	Normal	0.005	mg/L	
WEL-07-0020	8/28/2020	2940	29402105	2940 MonCen hypo	Normal	0.01	mg/L	
WEL-07-0020	8/28/2020	2940	29402105	2940 MonCen hypo	Duplicate	0.004	mg/L	
WEL-07-0020	9/23/2020	2943	29431005	2943 MonCen epi	Normal	0.015	mg/L	
WEL-07-0020	10/26/2020	2945	29451005	2945 MonCen epi	Normal	0.005	mg/L	
WEL-07-0021	5/26/2020	2832	28320005	2832 MonLow blank	Field Blank	0.002	mg/L	
WEL-07-0021	5/26/2020	2832	28321005	2832 MonLow epi	Normal	0.012	mg/L	
WEL-07-0021	5/26/2020	2832	28322005	2832 MonLow hypo	Normal	0.02	mg/L	
WEL-07-0021	5/26/2020	2832	28322005	2832 MonLow hypo	DigSplit	0.02	mg/L	
WEL-07-0021	6/25/2020	2857	28570005	2857 MonLow blank	Field Blank	<0.002	mg/L	U
WEL-07-0021	6/25/2020	2857	28571005	2857 MonLow epi	Normal	0.016	mg/L	
WEL-07-0021	6/25/2020	2857	28572005	2857 MonLow hypo	Normal	0.017	mg/L	
WEL-07-0021	7/27/2020	2919	29191005	2919 MonLow epi	Normal	0.009	mg/L	
WEL-07-0021	7/27/2020	2919	29192005	2919 MonLow hypo	Normal	0.163	mg/L	
WEL-07-0021	7/27/2020	2919	29192005	2919 MonLow hypo	DigSplit	0.156	mg/L	

Total Phosphorus (TP) Data for Lake Monroe and its Tributaries

IDEM Site Num	Sample Date	EventID	Sample_ID	SampleName	Sample Type	Concentration	Unit	QA Flags
WEL-07-0021	8/28/2020	2941	29410005	2941 MonLow blank	Field Blank	<0.002	mg/L	U
WEL-07-0021	8/28/2020	2941	29411005	2941 MonLow epi	Normal	<0.002	mg/L	U
WEL-07-0021	8/28/2020	2941	29412005	2941 MonLow hypo	Normal	0.176	mg/L	
WEL-07-0021	8/28/2020	2941	29412005	2941 MonLow hypo	Split	0.176	mg/L	
WEL-07-0021	9/23/2020	2944	29440005	2944 MonLow blank	Field Blank	<0.002	mg/L	U
WEL-07-0021	9/23/2020	2944	29440005	2944 MonLow epi	Normal	0.008	mg/L	
WEL-07-0021	9/23/2020	2944	29440005	2944 MonLow hypo	Normal	0.229	mg/L	
WEL-07-0021	10/26/2020	2946	29460005	2946 MonLow blank	Field Blank	<0.002	mg/L	U
WEL-07-0021	10/26/2020	2946	29461005	2946 MonLow epi	Normal	0.012	mg/L	
WEL-07-0021	10/26/2020	2946	29461005	2946 MonLow epi	Split	0.012	mg/L	
WEL-08-0036	4/22/2020	0111	01110005	0111 MonOut blank	Field Blank	0.009	mg/L	
WEL-08-0036	4/22/2020	0111	01114005	0111 MonOut	Normal	0.024	mg/L	
WEL-08-0036	5/27/2020	0111	01110005	0111 MonOut blank	Field Blank	0.005	mg/L	
WEL-08-0036	5/27/2020	0111	01114005	0111 MonOut	Normal	0.016	mg/L	
WEL-08-0036	6/24/2020	0111	01110005	0111 MonOut blank 6.24	Field Blank	<0.002	mg/L	U
WEL-08-0036	6/24/2020	0111	01114005	0111 MonOut 6.24	Normal	0.027	mg/L	
WEL-08-0036	7/21/2020	0111	01110005	0111 MonOut blank 7.21	Field Blank	<0.002	mg/L	U
WEL-08-0036	7/21/2020	0111	01114005	0111 MonOut 7.21	Normal	0.037	mg/L	
WEL-08-0036	8/27/2020	0111	01110005	0111 MonOut blank 8.27	Field Blank	0.002	mg/L	
WEL-08-0036	8/27/2020	0111	01114005	0111 MonOut 8.27	Normal	0.056	mg/L	
WEL-08-0036	9/24/2020	0111	01110005	0111 MonOut blank 9.24	Field Blank	<0.002	mg/L	U
WEL-08-0036	9/24/2020	0111	01114005	0111 MonOut 9.24	Normal	0.026	mg/L	
WEL-08-0036	9/24/2020	0111	01114005	0111 MonOut DGSP 9.24	DigSplit	0.028	mg/L	
WEL-08-0036	10/22/2020	0111	01110005	0111 MonOut blank	Field Blank	<0.002	mg/L	U
WEL-08-0036	10/22/2020	0111	01114005	0111 MonOut	Normal	0.011	mg/L	
WEL-08-0036	11/19/2020	0111	01110005	0111 MonOut blank	Field Blank	0.003	mg/L	
WEL-08-0036	11/19/2020	0111	01114005	0111 MonOut	Normal	0.015	mg/L	
WEL-08-0036	12/16/2020	0111	01110005	0111 MonOut blank	Field Blank	0.003	mg/L	
WEL-08-0036	12/16/2020	0111	01114005	0111 MonOut	Normal	0.023	mg/L	
WEL-08-0036	1/25/2021	0111	01110005	0111 MonOut blank	Field Blank	0.004	mg/L	
WEL-08-0036	1/25/2021	0111	01114005	0111 MonOut	Normal	0.018	mg/L	
WEL-08-0036	2/25/2021	0111	01110005	0111 MonOut blank	Field Blank	0.003	mg/L	
WEL-08-0036	2/25/2021	0111	01114005	0111 MonOut	Normal	0.017	mg/L	
WEL-08-0036	3/18/2021	0111	01110005	0111 MonOut blank	Field Blank	0.003	mg/L	
WEL-08-0036	3/18/2021	0111	01114005	0111 MonOut	Normal	0.024	mg/L	