ATTAINS – TAR REPLACEMENT

Assessment Reporting Modernized

Dale Miller-Water Quality Specialist
Sac and Fox Nation

WHAT IS ATTAINS ?

THIS IS NOT A TRAINING BUT AN INTRODUCTION

- **ATTAINS is an online reporting of Tribal Waterways Beneficial Use Assessments**

https://attains.epa.gov/attains/login

WHEN & WHO PILOT'S ATTAINS ?

The Tribal ATTAINS Pilot was officially started in 2016

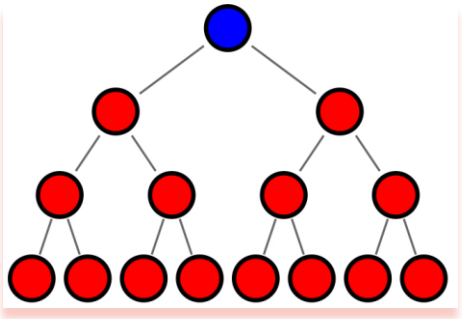
- **15 tribal participants representing Regions 5, 6, & 9**
  - **At the end of the 2nd year, we retained 11 tribes**
    - **Dale Miller, Sac & Fox Nation, Dale.Miller@sacandfoxnation-nsn.gov**
    - **Kari Hedin, Fond du Lac Band of Lake Superior Chippewa, KariHedin@FDLREZ.COM**
    - **Brian McCaughey, Hoopa Valley Tribe, brian4epa@gmail.com**
    - **Teresa Turner, Otoe-Missouria Tribe, tswoyer@omtribe.org**
    - **Cyndi Johnson, Choctaw Nation, cynthiajohnson@choctawnation.com**
    - **Alec Marshall, Delaware Nation, marshalla@delawarenation.com**
    - **Stephen Wolfe, Seneca-Cayuga Nation, swolfe@sctribe.com**
    - **Lexi Freeman, Citizen Potawatomi Nation, lexi.freeman@potawatomi.org**
    - **Anita Uhles & Jason Scott, Chickasaw Nation, ANITA.UHLES@chickasaw.net, Jason.Scott@chickasaw.net**
    - **Sophie Stauffer, Pueblo of Tesuque, sstauffer@pueblooftesuque.org**
    - **Michael Chacon, Pueblo of San Ildefonso, mchacon@sanipueblo.org**

WHAT STARTED TRIBAL ATTAINS ?

Started as a simple idea, championed by Micco Emarthala of the Seneca-Cayuga Nation

- **The idea was to simplify and standardize the way the TAR was completed.**
- **Misunderstandings and confusion as to what was needed and or met the standards of the current TAR guidance document was considered wasteful and not representative.**
- **Some opinions considered the TAR to be a bloated bunch of words without clear substance or purpose.**
- **The time and effort involved was considerable and effectiveness was lost in translation.**

MENTORING/TRAINING PROGRAM



Mentoring Development:

- The pilot tribes, EPA, & ITEC are starting a new phase of the pilot by initiating and developing the training of mentor tribes.
- The pilot tribes will be trained to teach others about assessments and the ATTAINS system.
- This is a joint effort utilizing EPA, ITEC, and pilot tribes resources and direct observational input.
- In addition, the pilot tribes and EPA are identifying ATTAINS prerequisites for those tribes who want to participate in ATTAINS nationally.

PLANS AND GOALS

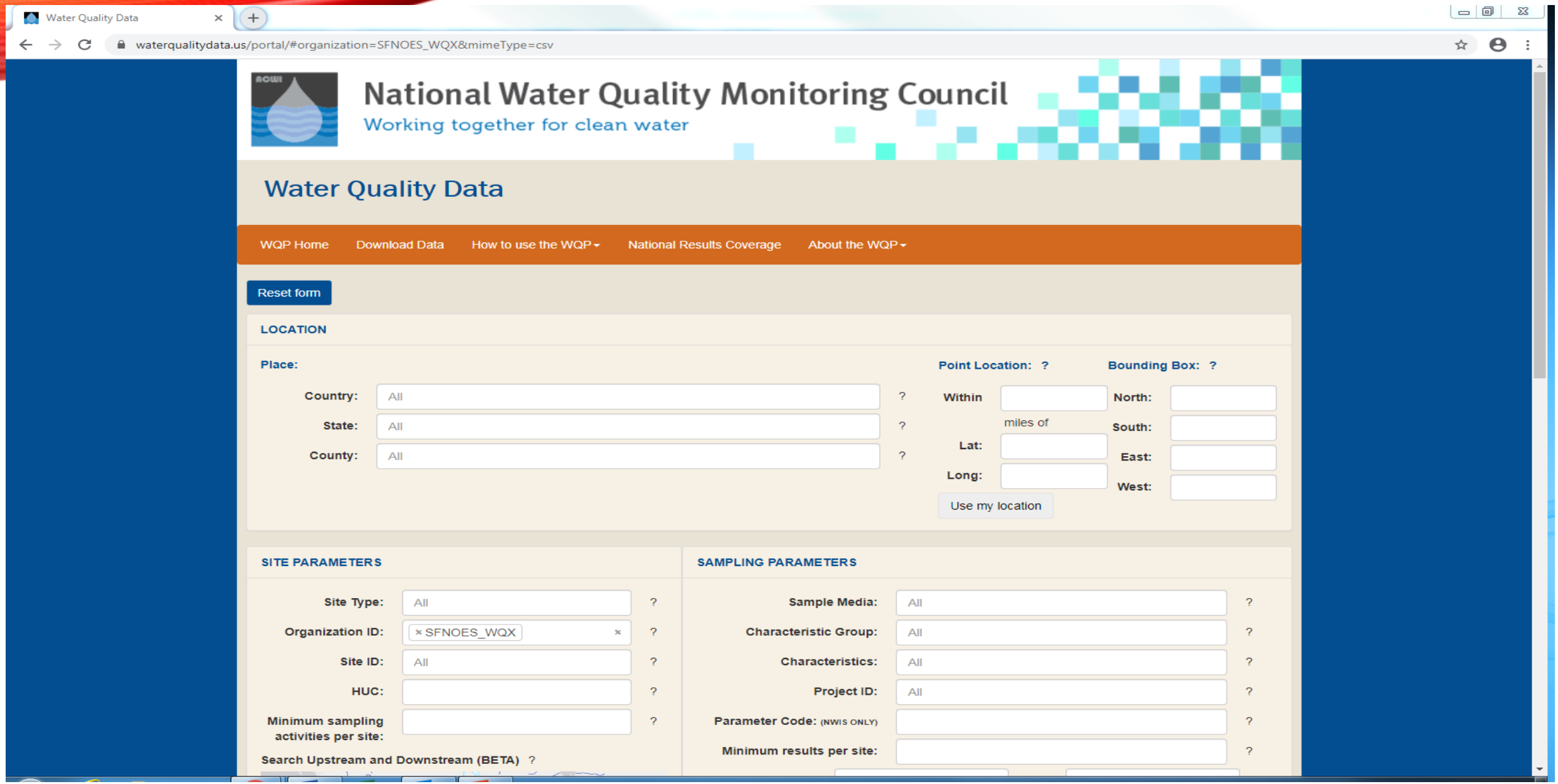
Planning:

- The current goal is to introduce tribes in a phased approach, bringing individuals on slowly starting in 2020, to report in 2021.
- EPA is planning a training in the spring of 2020 for Pilot Tribes and developing tribal assessment training modules to develop tribal program capacity and then introducing the electronic reporting mechanism.
- As described by the tribes in the pilot, ATTAINS is not an Easy Button but this process has greatly expanded their water quality programs.
  - Similarly, we can now share the water quality on tribal lands as never before.
- For those interested in participating in ATTAINS, there will be a memo sent to the EPA regions describing the next phase in the pilot and outlining perquisites. Then, we will start identifying the new phase of tribal participants.

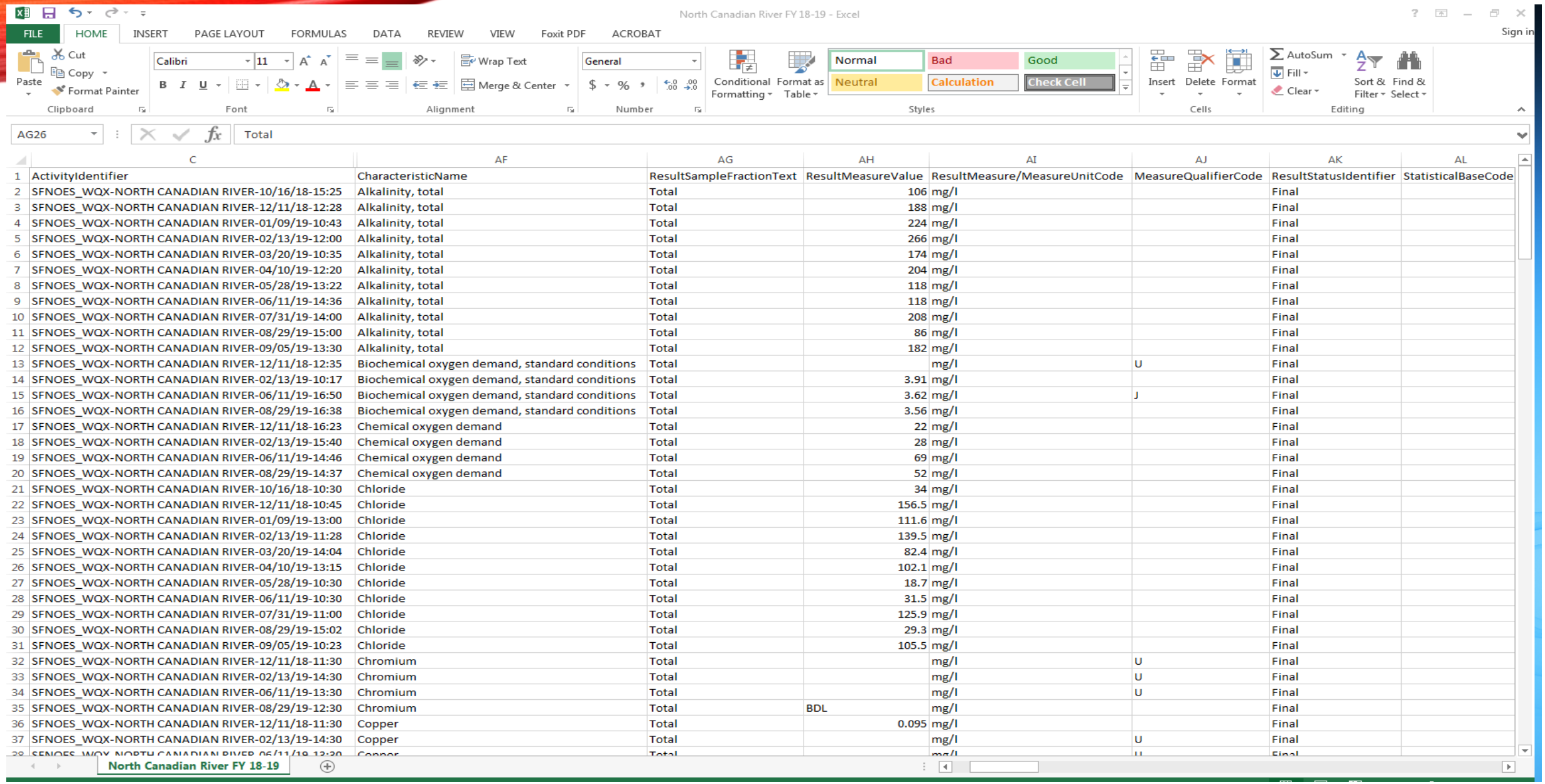
WHAT INFORMATION IS REQUIRED?

- **All pertinent results as covered in workplan/QAPP for assessment.**
  - **Verify your information in WQX as EPA reviewer will utilize this for accuracy.**
  - **Assessments are the determination based on the beneficial uses of your monitored waters.**
  - **Inclusion of your assessment parameters and basis for determinations from your workplan/QAPP.**
    - **Beneficial Uses Examples**
      - **Recreational Use (Cultural)**
      - **Aquatic-Wildlife Use**
      - **Agricultural-Livestock Use**
      - **Nutrient Threatened**

WQX DATA PORTAL



NORTH CANADIAN RIVER WQX DOWNLOAD



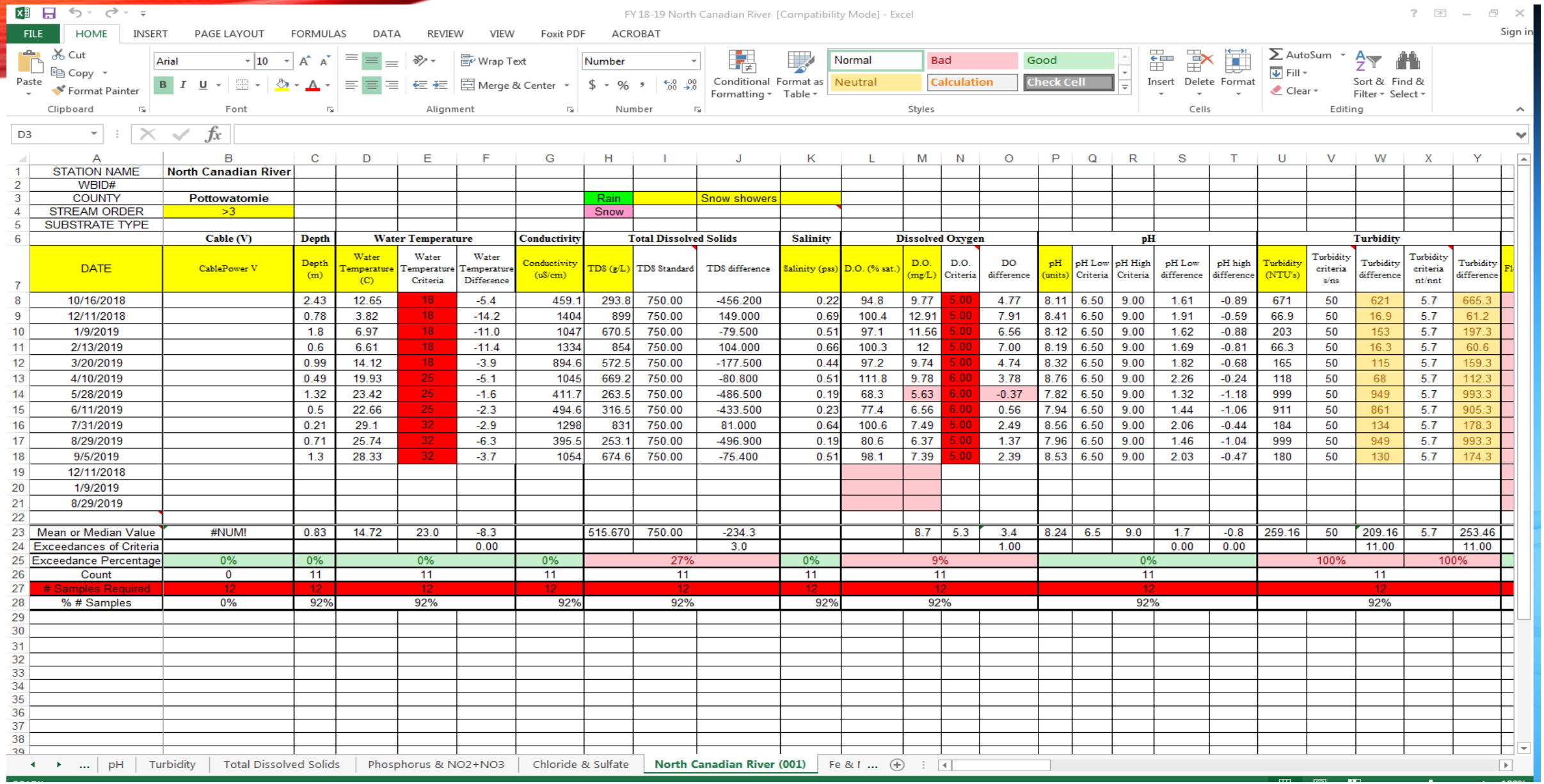
North Canadian River FY 18-19 - Excel

	C	AF	AG	AH	AI	AJ	AK	AL
1	ActivityIdentifier	CharacteristicName	ResultSampleFractionText	ResultMeasureValue	ResultMeasure/MeasureUnitCode	MeasureQualifierCode	ResultStatusIdentifier	StatisticalBaseCode
2	SFNOES_WQX-NORTH CANADIAN RIVER-10/16/18-15:25	Alkalinity, total	Total	106	mg/l		Final	
3	SFNOES_WQX-NORTH CANADIAN RIVER-12/11/18-12:28	Alkalinity, total	Total	188	mg/l		Final	
4	SFNOES_WQX-NORTH CANADIAN RIVER-01/09/19-10:43	Alkalinity, total	Total	224	mg/l		Final	
5	SFNOES_WQX-NORTH CANADIAN RIVER-02/13/19-12:00	Alkalinity, total	Total	266	mg/l		Final	
6	SFNOES_WQX-NORTH CANADIAN RIVER-03/20/19-10:35	Alkalinity, total	Total	174	mg/l		Final	
7	SFNOES_WQX-NORTH CANADIAN RIVER-04/10/19-12:20	Alkalinity, total	Total	204	mg/l		Final	
8	SFNOES_WQX-NORTH CANADIAN RIVER-05/28/19-13:22	Alkalinity, total	Total	118	mg/l		Final	
9	SFNOES_WQX-NORTH CANADIAN RIVER-06/11/19-14:36	Alkalinity, total	Total	118	mg/l		Final	
10	SFNOES_WQX-NORTH CANADIAN RIVER-07/31/19-14:00	Alkalinity, total	Total	208	mg/l		Final	
11	SFNOES_WQX-NORTH CANADIAN RIVER-08/29/19-15:00	Alkalinity, total	Total	86	mg/l		Final	
12	SFNOES_WQX-NORTH CANADIAN RIVER-09/05/19-13:30	Alkalinity, total	Total	182	mg/l		Final	
13	SFNOES_WQX-NORTH CANADIAN RIVER-12/11/18-12:35	Biochemical oxygen demand, standard conditions	Total		mg/l	U	Final	
14	SFNOES_WQX-NORTH CANADIAN RIVER-02/13/19-10:17	Biochemical oxygen demand, standard conditions	Total	3.91	mg/l		Final	
15	SFNOES_WQX-NORTH CANADIAN RIVER-06/11/19-16:50	Biochemical oxygen demand, standard conditions	Total	3.62	mg/l	J	Final	
16	SFNOES_WQX-NORTH CANADIAN RIVER-08/29/19-16:38	Biochemical oxygen demand, standard conditions	Total	3.56	mg/l		Final	
17	SFNOES_WQX-NORTH CANADIAN RIVER-12/11/18-16:23	Chemical oxygen demand	Total	22	mg/l		Final	
18	SFNOES_WQX-NORTH CANADIAN RIVER-02/13/19-15:40	Chemical oxygen demand	Total	28	mg/l		Final	
19	SFNOES_WQX-NORTH CANADIAN RIVER-06/11/19-14:46	Chemical oxygen demand	Total	69	mg/l		Final	
20	SFNOES_WQX-NORTH CANADIAN RIVER-08/29/19-14:37	Chemical oxygen demand	Total	52	mg/l		Final	
21	SFNOES_WQX-NORTH CANADIAN RIVER-10/16/18-10:30	Chloride	Total	34	mg/l		Final	
22	SFNOES_WQX-NORTH CANADIAN RIVER-12/11/18-10:45	Chloride	Total	156.5	mg/l		Final	
23	SFNOES_WQX-NORTH CANADIAN RIVER-01/09/19-13:00	Chloride	Total	111.6	mg/l		Final	
24	SFNOES_WQX-NORTH CANADIAN RIVER-02/13/19-11:28	Chloride	Total	139.5	mg/l		Final	
25	SFNOES_WQX-NORTH CANADIAN RIVER-03/20/19-14:04	Chloride	Total	82.4	mg/l		Final	
26	SFNOES_WQX-NORTH CANADIAN RIVER-04/10/19-13:15	Chloride	Total	102.1	mg/l		Final	
27	SFNOES_WQX-NORTH CANADIAN RIVER-05/28/19-10:30	Chloride	Total	18.7	mg/l		Final	
28	SFNOES_WQX-NORTH CANADIAN RIVER-06/11/19-10:30	Chloride	Total	31.5	mg/l		Final	
29	SFNOES_WQX-NORTH CANADIAN RIVER-07/31/19-11:00	Chloride	Total	125.9	mg/l		Final	
30	SFNOES_WQX-NORTH CANADIAN RIVER-08/29/19-15:02	Chloride	Total	29.3	mg/l		Final	
31	SFNOES_WQX-NORTH CANADIAN RIVER-09/05/19-10:23	Chloride	Total	105.5	mg/l		Final	
32	SFNOES_WQX-NORTH CANADIAN RIVER-12/11/18-11:30	Chromium	Total		mg/l	U	Final	
33	SFNOES_WQX-NORTH CANADIAN RIVER-02/13/19-14:30	Chromium	Total		mg/l	U	Final	
34	SFNOES_WQX-NORTH CANADIAN RIVER-06/11/19-13:30	Chromium	Total		mg/l	U	Final	
35	SFNOES_WQX-NORTH CANADIAN RIVER-08/29/19-12:30	Chromium	Total	BDL	mg/l		Final	
36	SFNOES_WQX-NORTH CANADIAN RIVER-12/11/18-11:30	Copper	Total	0.095	mg/l		Final	
37	SFNOES_WQX-NORTH CANADIAN RIVER-02/13/19-14:30	Copper	Total		mg/l	U	Final	

ASSESSMENT

- **The assessment/determination is still in full control of the Tribe.**
  - **There are advanced tools supplemental to ATTAINS that can help if desired.**
    - **Unknown viability/functionality as not utilized.**
  - **This is best time for final QA/QC on data that is to be utilized.**
    - **Download information from WQX and compare to in-house data files.**

NORTH CANADIAN RIVER WORKSHEET



FY 18-19 North Canadian River [Compatibility Mode] - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	STATION NAME	North Canadian River																							
2	WBID#																								
3	COUNTY	Pottowatomie						Rain		Snow showers															
4	STREAM ORDER	>3						Snow																	
5	SUBSTRATE TYPE																								
6		Cable (V)	Depth	Water Temperature			Conductivity	Total Dissolved Solids			Salinity	Dissolved Oxygen				pH					Turbidity				
7	DATE	CablePower V	Depth (m)	Water Temperature (C)	Water Temperature Criteria	Water Temperature Difference	Conductivity (uS/cm)	TDS (g/L)	TDS Standard	TDS difference	Salinity (pss)	D.O. (% sat.)	D.O. (mg/L)	D.O. Criteria	DO difference	pH (units)	pH Low Criteria	pH High Criteria	pH Low difference	pH high difference	Turbidity (NTU's)	Turbidity criteria s/ns	Turbidity difference	Turbidity criteria nt/nnt	Turbidity difference	Fl
8	10/16/2018		2.43	12.65	18	-5.4	459.1	293.8	750.00	-456.200	0.22	94.8	9.77	5.00	4.77	8.11	6.50	9.00	1.61	-0.89	671	50	621	5.7	665.3	
9	12/11/2018		0.78	3.82	18	-14.2	1404	899	750.00	149.000	0.69	100.4	12.91	5.00	7.91	8.41	6.50	9.00	1.91	-0.59	66.9	50	16.9	5.7	61.2	
10	1/9/2019		1.8	6.97	18	-11.0	1047	670.5	750.00	-79.500	0.51	97.1	11.56	5.00	6.56	8.12	6.50	9.00	1.62	-0.88	203	50	153	5.7	197.3	
11	2/13/2019		0.6	6.61	18	-11.4	1334	854	750.00	104.000	0.66	100.3	12	5.00	7.00	8.19	6.50	9.00	1.69	-0.81	66.3	50	16.3	5.7	60.6	
12	3/20/2019		0.99	14.12	18	-3.9	894.6	572.5	750.00	-177.500	0.44	97.2	9.74	5.00	4.74	8.32	6.50	9.00	1.82	-0.68	165	50	115	5.7	159.3	
13	4/10/2019		0.49	19.93	25	-5.1	1045	669.2	750.00	-80.800	0.51	111.8	9.78	6.00	3.78	8.76	6.50	9.00	2.26	-0.24	118	50	68	5.7	112.3	
14	5/28/2019		1.32	23.42	25	-1.6	411.7	263.5	750.00	-486.500	0.19	68.3	5.63	6.00	-0.37	7.82	6.50	9.00	1.32	-1.18	999	50	949	5.7	993.3	
15	6/11/2019		0.5	22.66	25	-2.3	494.6	316.5	750.00	-433.500	0.23	77.4	6.56	6.00	0.56	7.94	6.50	9.00	1.44	-1.06	911	50	861	5.7	905.3	
16	7/31/2019		0.21	29.1	32	-2.9	1298	831	750.00	81.000	0.64	100.6	7.49	5.00	2.49	8.56	6.50	9.00	2.06	-0.44	184	50	134	5.7	178.3	
17	8/29/2019		0.71	25.74	32	-6.3	395.5	253.1	750.00	-496.900	0.19	80.6	6.37	5.00	1.37	7.96	6.50	9.00	1.46	-1.04	999	50	949	5.7	993.3	
18	9/5/2019		1.3	28.33	32	-3.7	1054	674.6	750.00	-75.400	0.51	98.1	7.39	5.00	2.39	8.53	6.50	9.00	2.03	-0.47	180	50	130	5.7	174.3	
19	12/11/2018																									
20	1/9/2019																									
21	8/29/2019																									
22																										
23	Mean or Median Value	#NUM!	0.83	14.72	23.0	-8.3		515.670	750.00	-234.3			8.7	5.3	3.4	8.24	6.5	9.0	1.7	-0.8	259.16	50	209.16	5.7	253.46	
24	Exceedances of Criteria					0.00				3.0					1.00				0.00	0.00			11.00		11.00	
25	Exceedance Percentage	0%	0%	0%			0%	27%			0%	9%				0%					100%			100%		
26	Count	0	11	11			11	11			11	11				11					11					
27	# Samples Required	12	12	12			12	12			12	12				12					12					
28	% # Samples	0%	92%	92%			92%	92%			92%	92%				92%					92%					

pH | Turbidity | Total Dissolved Solids | Phosphorus & NO2+NO3 | Chloride & Sulfate | North Canadian River (001) | Fe & I ...

BENEFICIAL - USE RECREATIONAL

Recreational Uses (Including Cultural Uses)

- Cultural Uses included in Primary Body Contact designation
  - Due to highest standard of human safety

- This is a sensitive and significant tribal cultural subject
  - Tribes made this clear and paramount in Tribal Assessments
  - By simply applying the general term Cultural Use
    - No specifics or actual information is exposed
    - Without divulging specific cultural uses (Possible examples)
      - Ceremonial uses
      - Cultural Agricultural uses
      - Culturally important sites

BENEFICIAL - USE RECREATIONAL

Recreational Uses (Including Cultural Uses)

- **Why keep Cultural Uses Confidential ?**
  - **Example: Imagine the Cultural Resource is Gold in a stream**
    - **If this Cultural Resource was identified and shared**
    - **The location and value would be known**
      - **Gold Rush begins**
      - **Gold gets robbed**
      - **Land gets taken or damaged**
      - **Streams water quality is negatively affected**

- **This may sound Paranoid**
  - **However, this is what happened to the SIOUX**
    - **When Gold was discovered in the Black Hills**
    - **Anyone hear of Little Big Horn and Custer?**

BENEFICIAL - USE RECREATIONAL

- **Recreational Uses (Including Cultural Uses)**
  - **Primary Body Contact and Secondary Body Contact**
    - **E.coli standard**
      - **Oklahoma Water Quality Standards (Chapter 45/46)**
        - **Supporting**
          - **≤ 10% of the sample concentrations exceed the MDLs (406 cfu/100mL) during recreational season AND Monthly geo mean is ≤ 126 cfu/100mL.**
        - **Not Supporting**
          - **> 10% of the sample concentrations exceed the MDLs (406 cfu/100mL) during recreational season OR Monthly geo mean is > 126 cfu/100mL.**

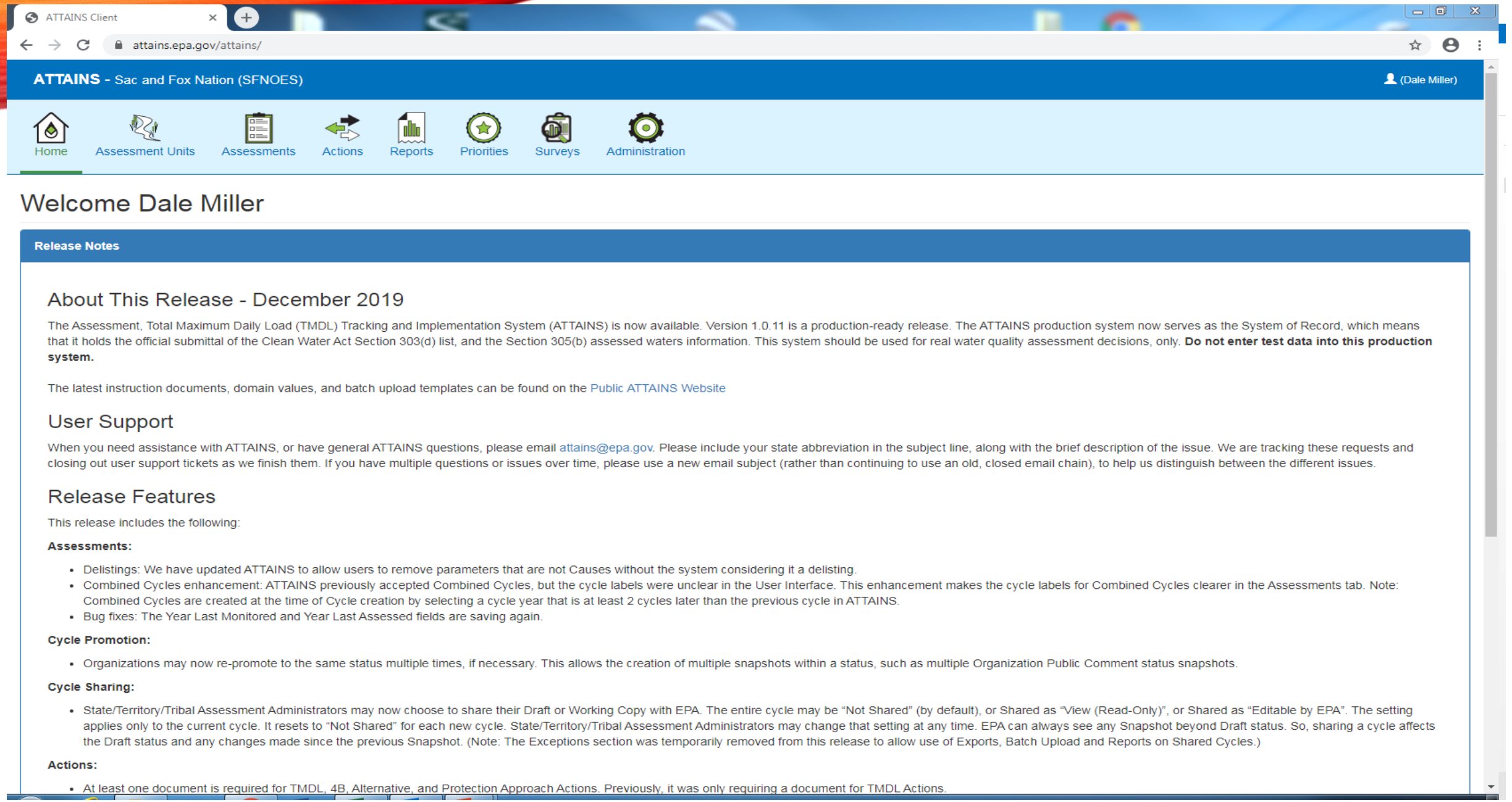
RECREATIONAL USE (CULTURAL)

Primary Body Contact/Recreation Beneficial Use (Cultural)

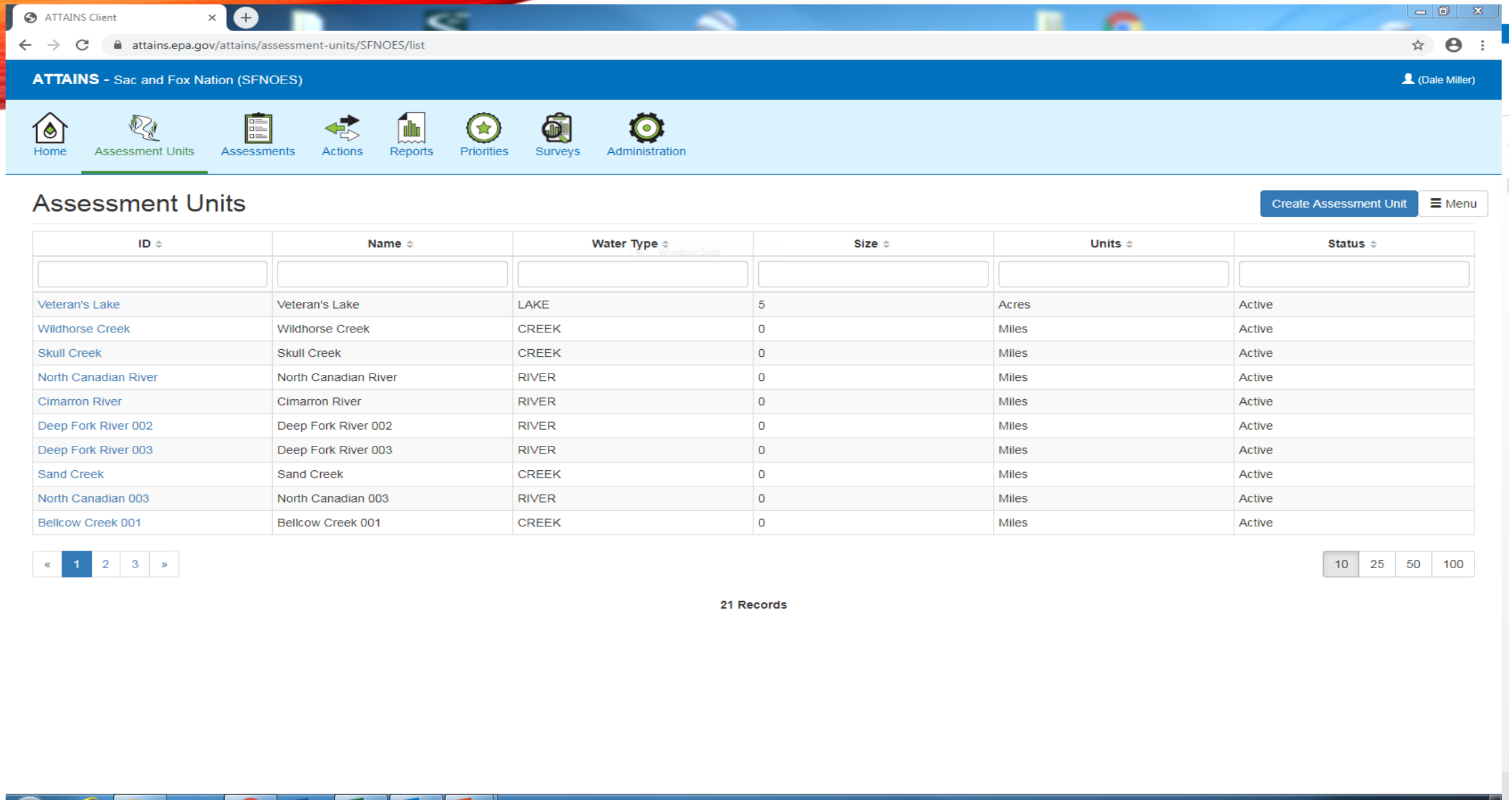
Time Period:	October 1, 2018-September 30, 2019
Time Period:	May 1- September 30 Recreation Season
Criteria	Oklahoma Water Quality Standards (Chapter 45 (p21))
Supported	≤ 10% of the sample concentrations exceed the MDLs (406 cfu/100mL) during recreational season AND Monthly geo mean is ≤ 126 cfu/100mL.
Not Supported	> 10% of the sample concentrations exceed the MDLs (406 cfu/100mL) during recreational season OR Monthly geo mean is > 126 cfu/100mL.

Parameter	Monitoring Site	% for Determination	# Samples Planned	# Samples Required	# Actual Sampled	Criteria Level (p21 OWQS) Chap 45		Site Total Samples Exceeding (406)	% Exceedance (406)	Site	Site Total Samples Exceeding (126)	% Exceedance (126)	Primary Body Contact/Recreation Beneficial Use	
						Numerical Criteria (MPN)	Geometric Mean (MPN)						Supporting Use	Not Supporting Use
		≥ 75% Required								GeoMean			≤ 10% Exceedance	> 10% Exceedance
Ecoli	Deer Creek 001	92%	12	9	11	406	126	3	27%	128	6	55%		27%
Ecoli	North Canadian River	117%	12	9	14	406	126	4	29%	349	7	50%		29%
Ecoli	North Canadian 002	108%	12	9	13	406	126	7	54%	335	9	69%		54%
Ecoli	North Canadian 003	92%	12	9	11	406	126	5	45%	216	5	45%		45%
Ecoli	Rock Creek 001	92%	12	9	11	406	126	1	9%	98	4	36%	9%	
Ecoli	Shan Creek 001	117%	12	9	14	406	126	4	29%	135	10	71%		29%
Ecoli	Veteran's Lake **	100%	12	9	12	406	126	0	0%	0	0	0%	0%	

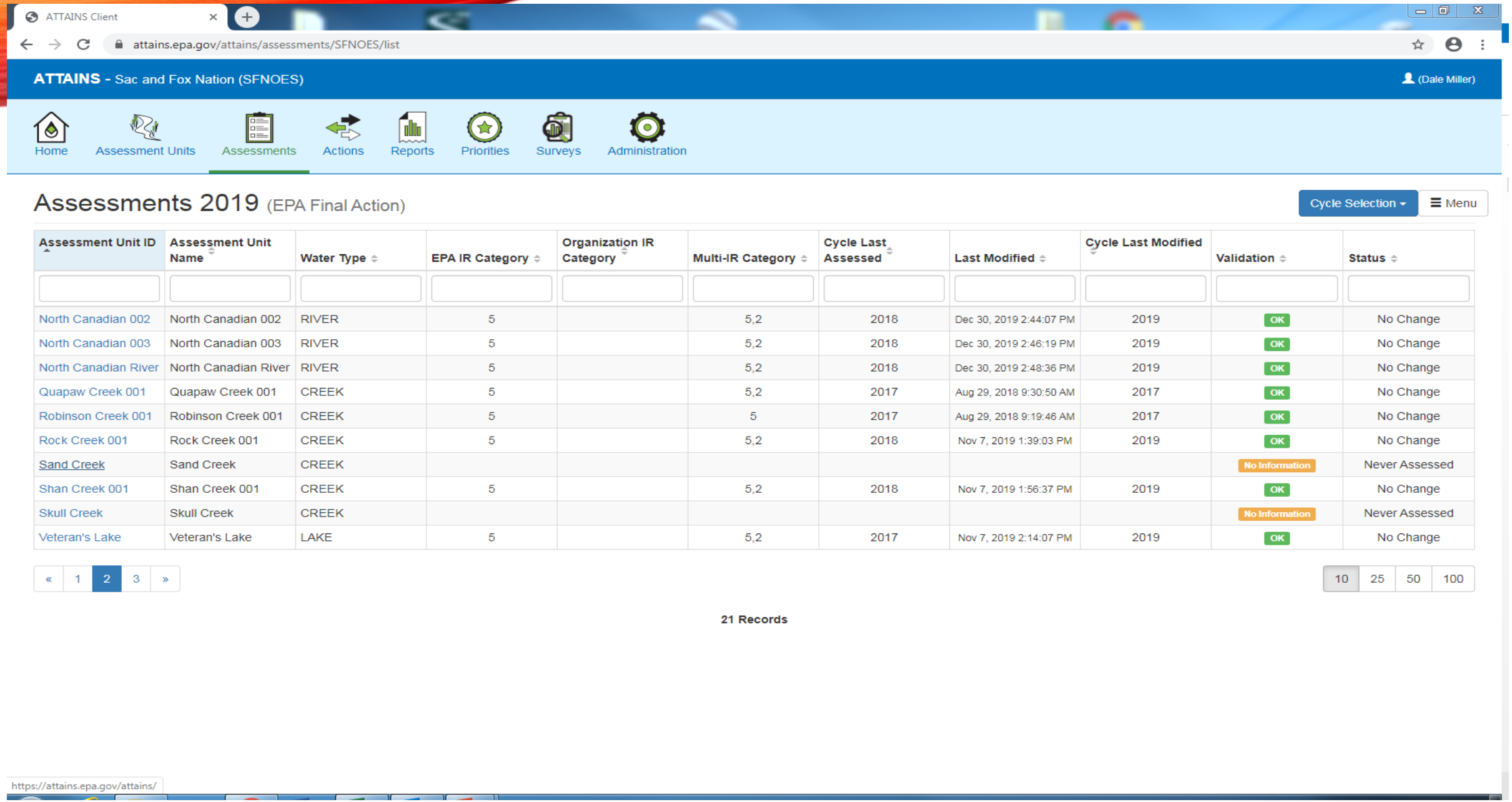
ATTAINS SITE- INFORMATION



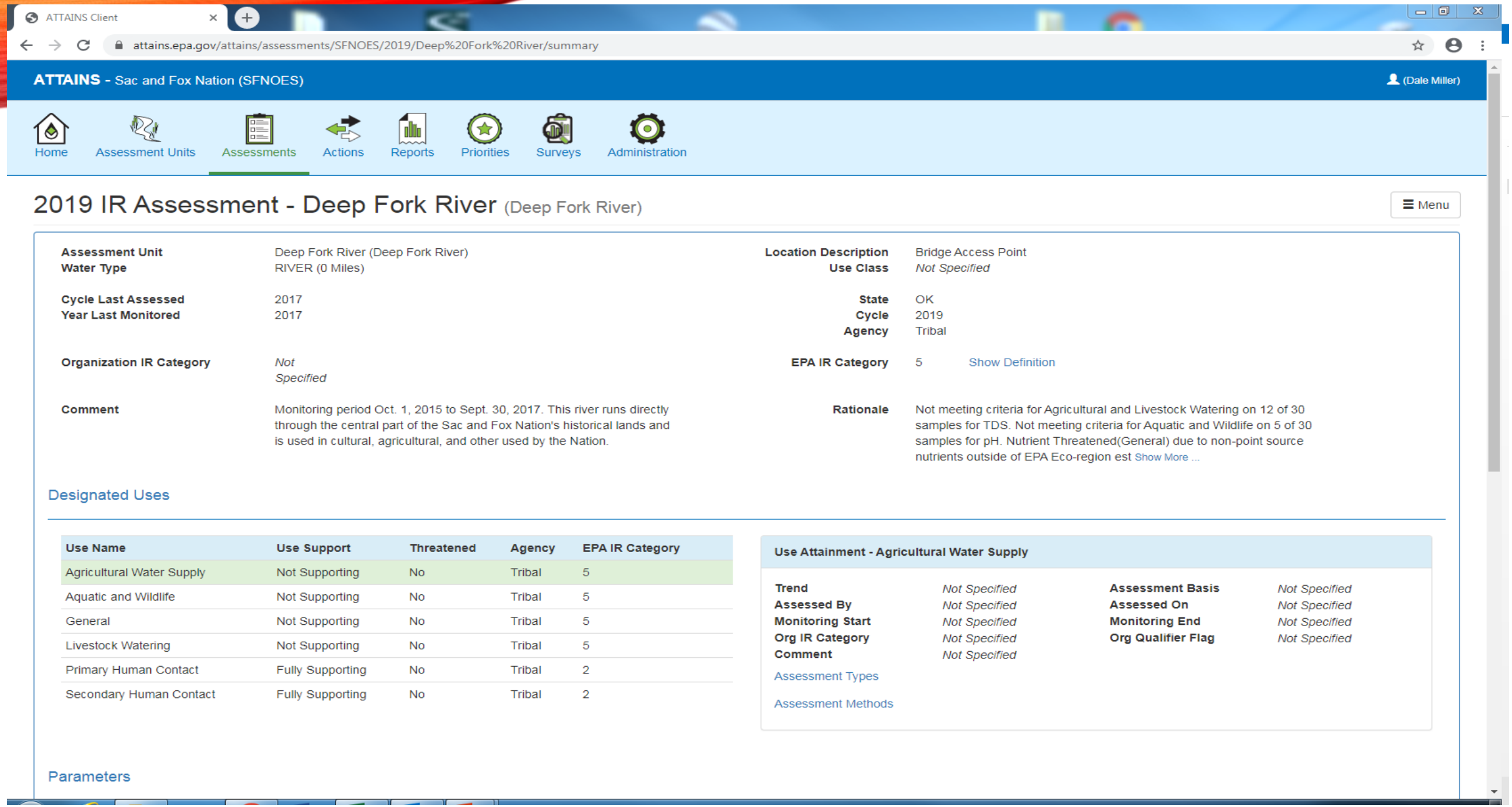
ATTAINS SITE- UNITS



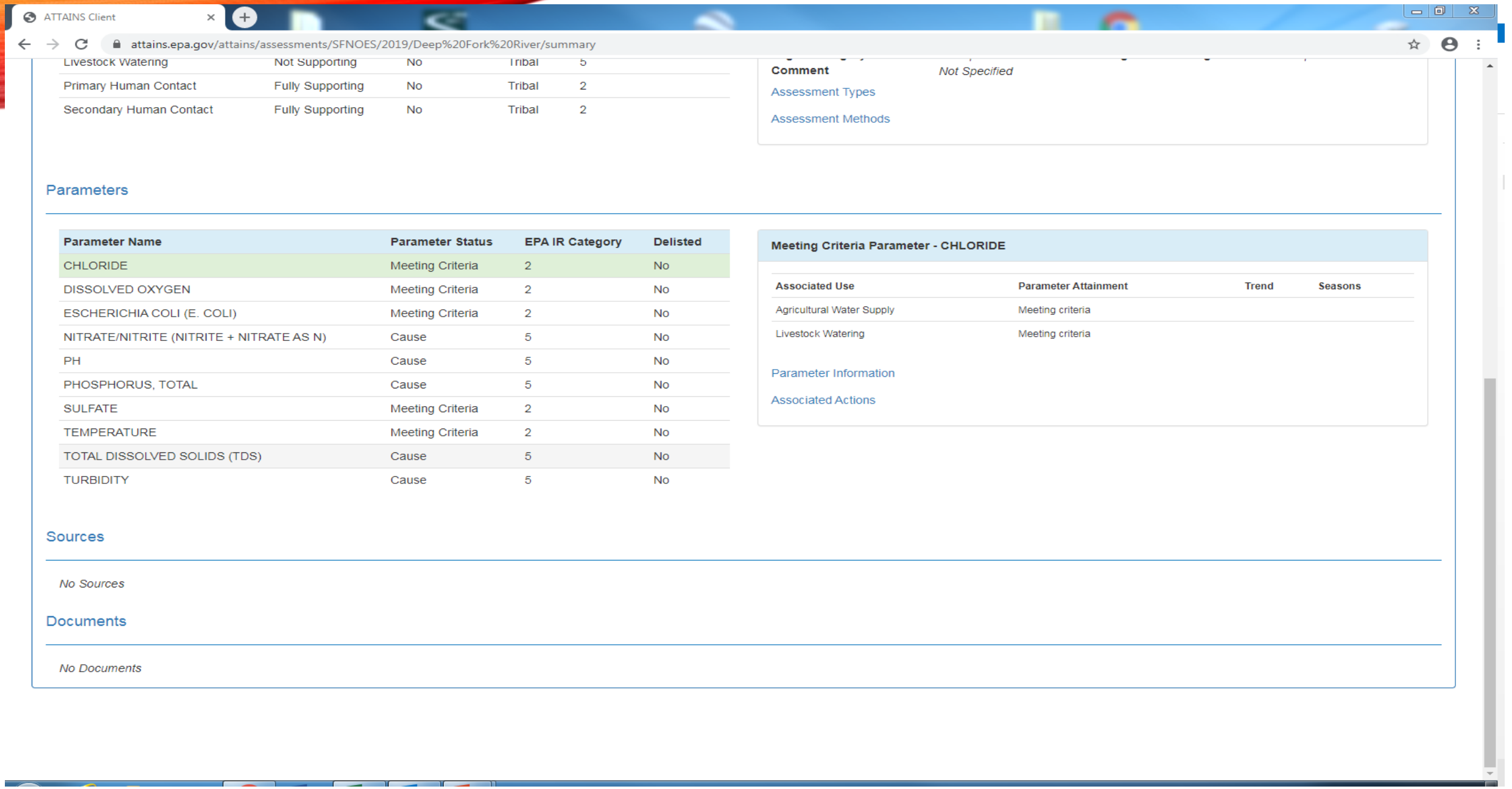
ATTAINS SITE- ASSESSMENTS



ATTAINS SITE- SUMMARRY 1 OF 2



ATTAINS SITE- SUMMARY 2 OF 2



Livestock Watering	Not Supporting	No	Tribal	5
Primary Human Contact	Fully Supporting	No	Tribal	2
Secondary Human Contact	Fully Supporting	No	Tribal	2

Comment *Not Specified*

Assessment Types

Assessment Methods

Parameters

Parameter Name	Parameter Status	EPA IR Category	Delisted
CHLORIDE	Meeting Criteria	2	No
DISSOLVED OXYGEN	Meeting Criteria	2	No
ESCHERICHIA COLI (E. COLI)	Meeting Criteria	2	No
NITRATE/NITRITE (NITRITE + NITRATE AS N)	Cause	5	No
PH	Cause	5	No
PHOSPHORUS, TOTAL	Cause	5	No
SULFATE	Meeting Criteria	2	No
TEMPERATURE	Meeting Criteria	2	No
TOTAL DISSOLVED SOLIDS (TDS)	Cause	5	No
TURBIDITY	Cause	5	No

Meeting Criteria Parameter - CHLORIDE

Associated Use	Parameter Attainment	Trend	Seasons
Agricultural Water Supply	Meeting criteria		
Livestock Watering	Meeting criteria		

Parameter Information

Associated Actions

Sources

No Sources

Documents

No Documents

ATTAINS SITE- CYCLES/TIME PERIODS

ATTAINS Client

attains.epa.gov/attains/assessments/SFNOES/2019/manage

2019 Cycle Management

Cycle Selection | Menu

Cycle History

CYCLE INFORMATION: This cycle has been submitted to the EPA for review.

Cycle	Label	Status	Type	Cycle Years
2019	IN_PROGRESS_2019	EPA Final Action	In Progress	
2019	SNAPSHOT_2020_01_06	EPA Final Action	Snapshot	
2019	SNAPSHOT_2020_01_06	EPA - Document Decisions	Snapshot	
2019	SNAPSHOT_2020_01_02	Organization Final Action - Submittal	Snapshot	
2019	SNAPSHOT_2019_11_22	Organization Public Comment	Snapshot	

Cycle 2019 (EPA Final Action)

Close

Document Name	Document Type	Agency Code	File Name
WQX North Canadian River	Other Supporting Documents	Tribal	North Canadian River FY 18-19.csv
WQX North Canadian 002	Other Supporting Documents	Tribal	North Canadian 002 FY 18-19.csv
WQX North Canadian 003	Other Supporting Documents	Tribal	North Canadian 003 FY 18-19.csv
WQX Veteran's Lake Sites All	Other Supporting Documents	Tribal	Veteran's Lake FY 18-19.csv
SFN Assessment Template	Other Supporting Documents	Tribal	ATTAINS Big 4 Worksheet 18-19.xlsx
WQX Rock Creek 001	Other Supporting Documents	Tribal	Rock Creek 001 FY 18-19.csv
WQX Deer Creek 001	Other Supporting Documents	State	Deer Creek 001 FY 18-19.csv

Document Information - WQX North Canadian River

Comment *Not Specified*

2019 Manage Cycle

Return to List

ATTAINS SITE- REPORTS

ATTAINS Client

attains.epa.gov/attains/reports/SFNOES

ATTAINS - Sac and Fox Nation (SFNOES) (Dale Miller)

Home | Assessment Units | Assessments | Actions | Reports | Priorities | Surveys | Administration

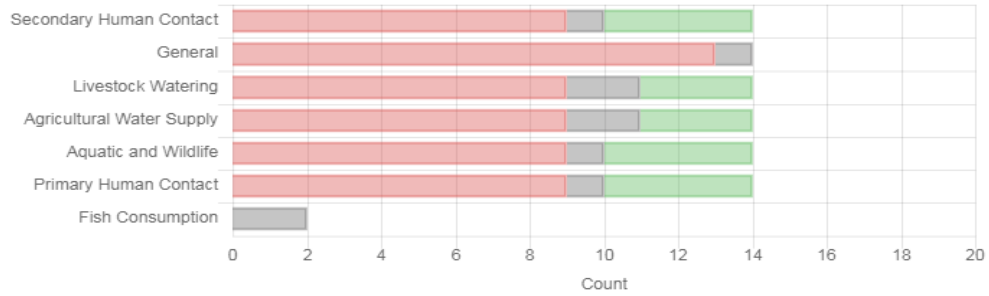
Cycle Summary

+ New Report

2019 - EPA - Document Decisions (Snapshot)

Assessments | Uses | Parameters | Sources | Delistings | Measures

Designated Uses



Designated Uses Summary

Use	Not Supporting	Threatened	Insufficient Information	Not Assessed	Fully Supporting	TOTAL
Secondary Human Contact	9	0	1	0	4	14
General	13	0	1	0	0	14
Livestock Watering	9	0	2	0	3	14
Agricultural Water Supply	9	0	2	0	3	14
Aquatic and Wildlife	9	0	1	0	4	14

« 1 2 »

5 7

7 Records

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ATTAINS SITE-REPORTS

ATTAINS Client

attains.epa.gov/attains/reports/SFNOES

ATTAINS - Sac and Fox Nation (SFNOES) (Dale Miller)

Home | Assessment Units | Assessments | Actions | Reports | Priorities | Surveys | Administration

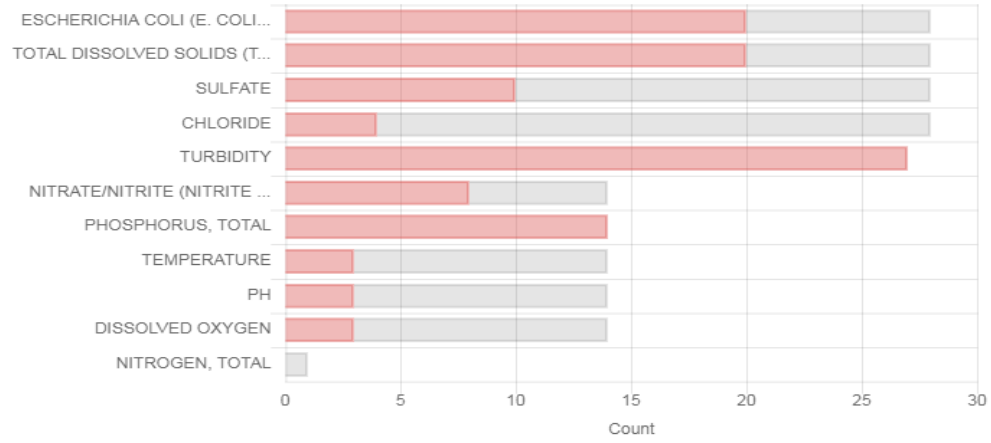
Cycle Summary

+ New Report

2019 - EPA - Document Decisions (Snapshot)

Assessments | Uses | Parameters | Sources | Delistings | Measures

Parameters



Parameters Summary

Parameter	Cause	Meeting Criteria	Observed Effect	TOTAL
ESCHERICHIA COLI (E. COLI)	20	8	0	28
TOTAL DISSOLVED SOLIDS (TDS)	20	8	0	28
SULFATE	10	18	0	28
CHLORIDE	4	24	0	28
TURBIDITY	27	0	0	27

« 1 2 3 »

5 11

11 Records

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PREPARED QUESTIONS ?

- **The first question needs to be, “How can my tribe prepare now for ATTAINS?”**
- **The second question should be, “When can my program start utilizing ATTAINS?”**
- **The third question should be, “Pros and Cons of using ATTAINS?”**
- **The final question needs to be, “How many of you are still awake?”**

HOW CAN MY TRIBE PREPARE NOW FOR ATTAINS?

Tribes that are interested in participating will need to meet a series of prerequisites, recommended by the pilot tribes, to ensure they are prepared for the transition to ATTAINS reporting:

1. **Meet all 106 grant requirements;**
2. **Actively submit water quality data to WQX;**
3. **Be able to perform water quality assessments and link parameters monitored to uses like recreation and aquatic life support;**
4. **Be committed to developing or revising a tribal assessment methodology;**
5. **Have adequate time to participate in assessment methodology development, trainings and entering their assessments into ATTAINS**
   - *** Tribes are not expected to have assessment methodologies in place prior to participating in the ATTAINS program, but they will need to have one in place to submit their water quality assessments to ATTAINS. (Big 4 reference)**

WHEN CAN MY PROGRAM START UTILIZING ATTAINS?

- **Initial Phase of Rolling out ATTAINS for Tribal Water Quality Programs:**
  - **In the next phase of the program**
    - **EPA seeks up to 15 additional tribes to volunteer to participate and share their water quality decision data in ATTAINS.**
    - **Tribes from the initial pilot will be available to mentor the new tribes by providing training and technical assistance.**

PROS AND CONS OF ATTAINS

- Cons
  - Requires Familiarity with Online Tools and Systems
  - Requires Internet Service
  - Requires Training for ATTAINS Site Operation

- Pros
  - Electronic submission
    - Allows for multiple points of online, on demand access, and ease of reviews
  - Removes extraneous material
    - Previous TAR report was 175 pages long
  - Promotes results to equal levels with states
    - States are already utilizing the ATTAINS Reporting System
  - Provides on demand reports for Congressional Budget Reviews through EPA
  - Saves time and expenditures
    - Completing ATTAINS entries from entering sites to assessments
    - Overall only consumes days instead of weeks and/or months

HOW MANY OF YOU ARE STILL AWAKE?

- Your Thoughts and Questions ??

ACKNOWLEDGEMENTS

Appreciation to all those whom volunteered time, effort, and resources

- **All the Tribal Environmental Professionals investing time, effort, and sanity**
- **Tribal Leaders for supporting this endeavor**
- **EPA (s) Leadership both in Washington, D.C. and Regionally for the support**
- **EPA (s) Project Officers for their understanding and continued support**
- **EPA (s) Developmental Team with the unending changes and backflips**
- **EPA (s) Technical Reviewers with their coaching, patience, and expertise**

SPECIAL ACKNOWLEDGEMENTS

Micco Emarthala of the Seneca-Cayuga Nation

- **Truly championed the uphill battle for modernizing and elevating tribal water assessments**
- **Pushed for a new way to assess and report tribal waters**
- **Wanted something that was more like a "Turbo Tax" fillable form**
  - **Keep it simple, was a repeated statement**
- **Micco is and will be sorely missed**

Laura Shumway of the EPA main office in Washington, D.C.

- **Oversaw, represented, organized, strategized, and pulverized obstacles**
- **Translated much of the Pilot members discussions into "developer speak"**
- **Kept the ball rolling with sheer positive attitude at times**
- **Laura is still performing ambassador duties "Herding the cats"**

MARCH 13TH, 2016

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Additional information on the initial pilot can be found at

- https://e-enterprisefortheenvironment.net/attains-provides-big-picture-on-tribal-water-quality/